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CURRICULUM VITAE

Jason X.-J. Yuan, M.D., Ph.D.

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Home Address: 123 Isle Verde Way, Palm Beach Gardens, FL 33418
Birth Date/Place: May 9, 1963; Xintian, Hunan Province, China
Citizenship: U.S.A. (Naturalized on April 13, 1998)
Marital Status: Married (to Ayako Makino, Ph.D.)

EDUCATION:

1983 M.D. Suzhou Medical College, Suzhou, China
 1993 Ph.D. Peking Union Medical College & Chinese Academy of Medical Sciences, Beijing, China
 (Joint Training Program with the University of Maryland at Baltimore, U.S.A.)

Internship (Medicine):

1982-1983 Suzhou Medical College Hospital/Suzhou Third City Hospital, Suzhou, China

Postdoctoral Fellowship:

1988-1991 Department of Physiology and Department of Medicine
 University of Maryland School of Medicine, Baltimore, MD

Other Training:

1995 (*Molecular Approaches to Ion Channel Structure, Expression and Function* Course)
 Cold Spring Harbor Laboratory, New York, NY
 2006 (*Stem Cells* Course), Cold Spring Harbor Laboratory, New York, NY

PRESENT POSITIONS:

2024- Professor, Center for Inflammation Science and Systems Medicine, The Herbert Wertheim
 UF Scripps Institute for Biomedical Innovation & Technology, University of Florida,
 Jupiter, FL, CA
 2024- Assistant Vice President of Research UF Health, The University of Florida-Scripps
 Research, Jupiter, FL

ACADEMIC POSITIONS HELD:

1984-1985 Scientific Cadre, Office of Science and Technology, Gansu Bureau of Environmental
 Protection, Lanzhou, China
 1984-1985 Research Associate, Department of Environmental Medicine, Gansu Institute of
 Environmental Sciences, Lanzhou, China
 1991-1993 Research Associate, Department of Physiology, School of Medicine, University of
 Maryland, Baltimore, MD

1993-1996	Research Assistant Professor, Department of Medicine, School of Medicine, University of Maryland, Baltimore, MD
1993-1997	Research Assistant Professor (secondary appointment), Department of Physiology, School of Medicine, University of Maryland, Baltimore, MD
1996-1998	Assistant Professor, Department of Medicine, School of Medicine, University of Maryland, Baltimore, MD
1997-1998	Assistant Professor (secondary appointment), Department of Physiology, School of Medicine, University of Maryland, Baltimore, MD
1998-1999	Associate Professor (with tenure), Department of Medicine, School of Medicine, University of Maryland, Baltimore, MD
1998-1999	Associate Professor (secondary appointment), Department of Physiology, School of Medicine, University of Maryland, Baltimore, MD
1999-2003	Associate Professor (with tenure), Department of Medicine, School of Medicine, University of California, San Diego, CA
2003-2010	Professor (with tenure), Department of Medicine, School of Medicine, University of California, San Diego, CA
2010-2014	Professor (with tenure), Department of Medicine, College of Medicine, University of Illinois at Chicago, Chicago, IL
2010-2014	Professor, Department of Pharmacology, College of Medicine, University of Illinois at Chicago, Chicago, IL
2014-2019	Professor (with tenure), Department of Medicine, College of Medicine, The University of Arizona, Tucson, AZ
2019-2024	Professor (with tenure), Department of Medicine, School of Medicine, University of California, San Diego, La Jolla, CA
2024-	Professor, Center for Inflammation Science and Systems Medicine, The Herbert Wertheim UF Scripps Institute for Biomedical Innovation & Technology, University of Florida, Jupiter, FL

ADMINISTRATIVE POSITIONS:

2003-2010	Associate Director for Research Training (Basic Science), Division of Pulmonary and Critical Care Medicine, Department of Medicine, School of Medicine, University of California, San Diego, CA
2007-2010	Vice Chair for Research, Department of Medicine, School of Medicine, University of California, San Diego, CA
2010-2013	Director, Pulmonary Hypertension Translational Research Program, Institute for Personalized Respiratory Medicine, University of Illinois at Chicago, Chicago, IL
2010-2014	Director, Program in Pulmonary Vascular Disease and Right Heart Function, Center for Cardiovascular Research, University of Illinois at Chicago, Chicago, IL
2012-2014	Vice Chair for Scholarly Activities, Department of Medicine, University of Illinois at Chicago, Chicago, IL
2014-2019	Associate Vice President for Translational Health Sciences, The University of Arizona, Tucson, AZ
2014-2019	Chief, Division of Translational and Regenerative Medicine, Department of Medicine, College of Medicine, The University of Arizona, Tucson, AZ
2019-2024	Director, Section of Physiology, Division of Pulmonary, Critical Care and Sleep Medicine, Department of Medicine, School of Medicine, University of California, San Diego, La Jolla, CA
2024-	Assistant Vice President of Research UF Health, The University of Florida-Scripps Research, Jupiter, FL

RESEARCH INTERESTS:

Pathogenic Mechanisms of Idiopathic and Thromboembolic Pulmonary Hypertension
 Cellular and Molecular Mechanisms of Hypoxic Pulmonary Vasoconstriction
 Electrophysiology of Ion Channels in Smooth Muscle and Endothelial Cells
 Calcium Signaling and Intracellular Calcium Regulation
 Smooth Muscle Cell Migration, Proliferation, and Apoptosis
 MicroRNA and Signaling Cascades in Cell Functions
 Pulmonary Circulation and Vascular Physiology and Pharmacology
 Genetics/Genomics & Pharmacogenomics/Pharmacogenetics of Pulmonary Hypertension
 Stem Cell Biology (Role of Ion Channels in Stem Cell Proliferation and Differentiation)
 Pathogenic Role of Progenitor Cells in Pulmonary Vascular Disease
 Ion Channels/Transporters in Cardiomyocytes and Cardiac Function
 Hypoxia Tolerance and Susceptibility
 Intestinal and Airway Epithelial Biology and Pathobiology

HONORS AND AWARDS:

1990	Research Fellowship Award, American Heart Association-Maryland Affiliation
1993	Dr. C.W. Dunker Award, Society of Chinese Biophysicists in America
	Molecular Kinetics Award, Molecular Kinetics, Inc.
1993	The Researcher for Robert Erich, American Heart Association - Maryland Affiliate
1994	Parker B. Francis Fellowship, The Francis Families Foundation
1995	Giles F. Filley Memorial Award for Excellence in Respiratory Physiology and Medicine, The American Physiological Society
1995	Research Career Enhancement Award, The American Physiological Society (For the Ion Channel Course in the Cold Spring Harbor Laboratory)
1995	Winner, Cournand and Comroe Young Investigator Award, American Heart Association
1995-	Who's Who in the World; Who's Who in Science and Engineering; Who's Who in America; Who's Who in the East; Who's Who in American Education; Who's Who in Medicine and Healthcare, The Marquis Who's Who Publication
1996	Best Abstract Award, American Heart Association
1998	Established Investigator Award, American Heart Association
1998	Harold Lampert Award, The American Physiological Society
1998	International Who's Who of Professionals™, Gilbralter Publishing, Inc.
2000-	Fellow, Cardiovascular Section, The American Physiological Society (APS)
2001	Distinguished Scientist, University of South Alabama, Mobile, Alabama
2002	Dunaway-Burnham Fellow, Dartmouth Medical School, Hanover, New Hampshire
2003-	Fellow (FAHA), American Heart Association (AHA)
2004	Nominating Committee Chair Award, American Thoracic Society
2005	Mentor Recognition Award, University of California, San Diego
2006	Progress in the Science of Medicine (PRISM) Lecturer, Department of Medicine, University of California, San Diego
2006	Planning Committee Chair Award, American Thoracic Society
2006-	Inaugural Senior Fellow (Executive Fellow), Pulmonary Vascular Research Institute
2007-	Elected Member, The American Society for Clinical Investigation (ASCI)
2007	Program Committee Chair Award, American Thoracic Society
2007	Star Reviewer for 2006, The American Physiological Society (<i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i>)
2007-	Fellow, American Association for the Advancement of Science (AAAS)
2008	Guggenheim Fellowship Award (Guggenheim Fellow), John Simon Guggenheim Memorial Foundation, New York, NY
2008	Program Committee Chair Award, American Thoracic Society

- 2008 The UK-US Stem Cell Collaboration Development Award, UK Science & Innovation, Foreign and Commonwealth Office, British Consulate General, San Francisco, CA
- 2011 University Scholar Award, University of Illinois at Chicago
- 2011 Special Lecturer, The 53rd Anniversary Meeting, Japan Society of Smooth Muscle Research
- 2011 Estelle Grover Lecturer, 2011 Grover Conference, American Thoracic Society
- 2012 PVRI Achievement Award, Pulmonary Vascular Research Institute
- 2012 American Physiological Society (APS) 125th Anniversary Collection (Most Highly Cited Articles Since 1900):
Top Ten Cited Articles for 1990-1999 in AJP-Lung Cellular and Molecular Physiology (Yuan X-J, Goldman WF, Tod ML, Rubin LJ and Blaustein MP. Hypoxia reduces potassium currents in cultured rat pulmonary but not mesenteric arterial myocytes. *Am. J. Physiol.* 264: L116-L123, 1993)
Top Ten Cited Articles for 2000-2011 in AJP-Lung Cellular and Molecular Physiology (Sweeney M, Yu Y, Platoshyn O, Zhang S, McDaniel SS and Yuan JX-J. Inhibition of endogenous TRP1 decreases capacitative Ca²⁺ entry and attenuates pulmonary artery smooth muscle cell proliferation. *Am. J. Physiol. Lung Cell Mol Physiol.* 283: L429-L438, 2002)
Top Ten Cited Articles for 2000-2011 in AJP-Heart and Circulatory Physiology (Golovina VA, Platoshyn O, Bailey CL, Wang J, Limsuwan A, Sweeney M, Rubin LJ and Yuan JX-J. Upregulated TRP and enhanced capacitative Ca²⁺ entry in human pulmonary artery myocytes during proliferation. *Am. J. Physiol. Heart Circ Physiol.* 280: H746-H755, 2001)
- 2012 Distinguished Service Award, The Academy of Cardiovascular Research Excellence
- 2013- Elected Member, Association of American Physicians (AAP)
- 2013 Research Administration Volunteer Recognition Award, American Heart Association
- 2016 Nominating Committee Chair Award, Assembly on Pulmonary Circulation, American Thoracic Society
- 2017 Kenneth D. Bloch Memorial Lecture, Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation (3CPR) and Council on Basic Cardiovascular Sciences (BCVS), American Heart Association
- 2018 Robert M. Berne Distinguished Lectureship, Cardiovascular Section, The American Physiological Society
- 2019 Leadership Award, Pulmonary Circulation Assembly, American Thoracic Society
- 2019- Fellow (FAPS), The American Physiological Society (APS)
- 2020- Fellow (ATSF), American Thoracic Society (ATS)
- 2020 Recognition Award for Scientific Accomplishments, American Thoracic Society
- 2021 Professor Sheila Glennis Haworth Memorial Lecture, Pulmonary Vascular Research Institute

ADVISORY COMMITTEE SERVICE:

National Institutes of Health (NIH)

- 1995-1998 *Ad Hoc* Member, Lung Biology and Pathology (LBPA) Study Section, NIH
- 1997 *Ad Hoc* Member, Biological and Physiological Sciences Special Emphasis Panel, NIH
- 2001 *Ad Hoc* Member, Lung Biology and Pathology (LBPA) Study Section, NIH
- 2002-2003 Member, Lung Biology and Pathology (LBPA) Study Section, NIH
- 2003-2004 Member, Respiratory Physiology (RESP) Study Section, NIH
- 2003 *Ad Hoc* Member, Special Emphasis Panel (ZRG1 CII 04, Drug Resistance), NIH
- 2003-2006 Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH

2004	<i>Ad Hoc</i> Member, Special Review Committee (ZRG1 MOSS D04 for Muscle Related Grant Applications), NIH
2004-2006	Chair, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
2007	<i>Ad Hoc</i> Member, Special Review Committee (ZHL1 CSR-Z (S1) (R)) - Research Projects in Longitudinal Studies of HIV, NIH
2007-2008	<i>Ad Hoc</i> Member, Heart, Lung, and Blood Program Project Review Committee, NHLBI-HLBP, NIH
2008	<i>Ad Hoc</i> Member, Special Review Committee (ZHL1 CSR-G (O1)) - Ancillary Studies in Clinical Trials, NHLBI, NIH
2008	<i>Ad Hoc</i> Member, Special Review Committee (ZHL1 CSR-G (O1)) - Heart, Lung and Blood Supplemental Studies in Clinical Trials, NHLBI, NIH
2008	<i>Ad Hoc</i> Member, Special Emphasis Panel (ZHL1 CSR-R (O2) 1), NHLBI Institutional Training Programs (T32's), NHLBI, NIH
2009	<i>Ad Hoc</i> Member, Special Emphasis Panel (ZHL1 CSR-G (M1) 2), Ancillary Studies in Clinical Trials, NHLBI, NIH
2009	Reviewer, Special Emphasis Panel/Scientific Review Group 2009/10 (ZRG1 CVRS-B (58) R), RFA-OD-09-003 Challenge Grants Panel 2, NHLBI, NIH
2009	<i>Ad Hoc</i> Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
2009	Reviewer, Special Emphasis Panel (ZRG1 BDA-A 52 R, hESC Challenge Grant Review), Center for Scientific Review, NIH
2009	Reviewer, Heart, Lung, and Blood Program Project Review Committee (HLBP Workgroup 030), NHLBI, NIH
2010	<i>Ad Hoc</i> Reviewer, Special Emphasis Panel/Scientific Review Group 2010/05 (ZGM1 GDB-7 (EU), EUREKA Meeting), Center for Scientific Review, NIH
2010	<i>Ad Hoc</i> Reviewer, Clinical Trials Review Committee, CLTR (OA), Heart, Lung, and Blood Initial Review Group, National Heart, Lung, and Blood Institute, NIH
2011	Chair and <i>Ad Hoc</i> Reviewer, Special Emphasis Panel (ZRG1 CVRS G (02) M, Member Conflicts: Lung Development and Hypertension), Center for Scientific Review, NIH
2011	<i>Ad Hoc</i> Reviewer, Special Emphasis Panel (ZHL1 PPG-A M1 S) for the NHLBI Translational Programs in Lung Diseases Grant Applications Review, NHLBI, NIH
2011	<i>Ad Hoc</i> Reviewer, Special Emphasis Panel (2011/10 ZHL1 CSR-P (01)1), Resource Related Research Project in the National Biological Sample and Data Repository, NHLBI, NIH
2011	Chair and <i>Ad Hoc</i> Reviewer, Special Emphasis Panel (2012/01 ZRG1 CVRS-G (02) M, Member Conflicts: Pulmonary Fibrosis and Hypertension), Center for Scientific Review, NIH
2012	<i>Ad Hoc</i> Reviewer, National Heart, Lung, and Blood Institute Special Emphasis Panel (ZHL1 CSR-Q (M1)) for the NHLBI Translational Programs in Lung Diseases, NIH
2012	<i>Ad Hoc</i> Reviewer, Special Emphasis Panel (2012/10 ZRG1 SBIB-J 02 M; Member Conflicts: Surgical Sciences and Bioengineering), Center for Scientific Review, NIH
2013	<i>Ad Hoc</i> Reviewer, National Heart, Lung, and Blood Institute Special Emphasis Panel, NHLBI Translational Programs in Lung Diseases (ZHL1 CSR-Q (M1)), NIH
2013	<i>Ad Hoc</i> Reviewer, National Heart, Lung, and Blood Institute Initiative "Mechanisms of HIV-Related Lung Disease: Clinical/Basic Research Centers" (ZHL1 CSR-S(S1)), NIH
2014	<i>Ad Hoc</i> Reviewer, National Heart, Lung, and Blood Institute Special Emphasis Panel, Resource-Related Research Projects in Lung Diseases (2014/05 ZHL1 CSR-Q (M3) 1), NHLBI, NIH
2014	<i>Ad Hoc</i> Reviewer, National Heart, Lung, and Blood Program Review Committee, Heart, Lung, and Blood Initial Review Group (2014/05 HLBP 1, Teleconference), NHLBI, NIH

2014	<i>Ad Hoc</i> Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
2014-2015	<i>Ad Hoc</i> Member, Vascular Cellular and Molecular Biology (VCMB) Study Section, NIH
2015-2019	Member, Vascular Cell and Molecular Biology (VCMB) Study Section, NIH
2017	<i>Ad Hoc</i> Reviewer, NIH-CSR-Respiratory Sciences MC and CS Special Emphasis Panel (NIH-CSR-RES SEP-ZRG1 CVRS-H 03 M) (March 23-24, 2017).
2018	<i>Ad Hoc</i> Reviewer, NIH Pioneer Award CSR Review Special Emphasis Panel (2018/05 ZRG1 BCMB-N (50)) (December 20, 2017 to January 30, 2018).
2019	<i>Ad Hoc</i> Reviewer, NIH Pioneer Award CSR Review Special Emphasis Panel (2019/05 ZRG1 BCMB-N (50)R) (December 20, 2018 to January 30, 2019).
2019	<i>Ad Hoc</i> Reviewer, NHLBI Special Emphasis Panel (Rare Disease Cohorts in Heart, Lung, Blood and Sleep Disorders; ZHL1 CSR-C (F1).
2020	Chair, NHLBI Special Emphasis Panel (Program Project Grant Review Panel, 2020/05 ZHL1 CSR-A (M3) 1, Pulmonary Vascular Disease Remodeling Review).
2020	<i>Ad Hoc</i> Reviewer, NHLBI Special Emphasis Panel (Small Business: Respiratory Sciences; ZRG1 CVRS-J 11 B.
2021	<i>Ad Hoc</i> Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH
2021	<i>Ad Hoc Member</i> , Heart, Lung, and Blood Program Project Review Committee, Heart, Lung, and Blood Initial Review Group, NHLBI HLBP1 (10)
2021	<i>Ad Hoc Member</i> , Heart, Lung, and Blood Program Project Study Section, Heart, Lung, and Blood Initial Review Group, NHLBI HLBP1 (10) (9/16/2021)
2022	<i>Ad Hoc Member</i> , Heart, Lung, and Blood Program Project Study Section, Heart, Lung, and Blood Initial Review Group, NHLBI HLBP1 (9), Work Group PPG Review (1/13/2022)
2022	<i>Ad Hoc Member</i> , National Institutes of Health, Center for Scientific Review, Special Emphasis Panel, ZRG1 F10C-C 20 L, Fellowships: Vascular and Hematology (4/6/2022-4/7/2022)
2022	<i>Ad Hoc</i> Member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, NIH (June 29-30, 2022).
2022	<i>Ad Hoc</i> Member and Co-Chair, Center for Scientific Review Special Emphasis Panel, Member Conflict: Respiratory Sciences ZRG1 CVRS-A (03) (July 12-13, 2022).
2022	<i>Ad Hoc Member</i> , Heart, Lung, and Blood Program Project Study Section, Heart, Lung, and Blood Initial Review Group, NHLBI HLBP (10), Metabolism, Regulation in the Right Ventricle (9/22/2022)
2023	<i>Ad Hoc Member</i> , Heart, Lung, and Blood Program Project Study Section, Heart, Lung, and Blood Initial Review Group, National Heart, Lung, and Blood Institute HLBP (5), Right Ventricle Adaptation Grant Application Review (10/02/2023)

Other Federal Funding Agencies

1995-1997	<i>Ad Hoc</i> Reviewer, Merit Review Grant Applications, Department of Veterans Affairs Medical Center, USA
2002-2004	<i>Ad Hoc</i> Reviewer, National Science Foundation, USA
2003	<i>Ad Hoc</i> Reviewer, South Carolina Experimental Program to Stimulate Competitive Research (EPSCoR), The Department of Defense
2012	Member, Review Panel of Site Visit of Integrative Cardiac Health Program at Walter Reed Army Institute of Research, American Institute for Biological Sciences and the Telemedicine and Advanced Technology Research Center (TATRC), The Department of Defense
2016	Member, James and Esther King Biomedical Research Program Proposal Review, Florida Department of Health

2022 Member, 2022 Peer Reviewed Medical Research Program (PRMRP) DIS-CVH-2, Discovery Award, The Department of Defense

American Heart Association (AHA)

1995-1999 Member, Affiliate Study Group F, AHA
 1996-1999 Member, Research Peer Review Subcommittee, AHA-Maryland Affiliate, Inc.
 1998-2003 Member, Lung, Resuscitation, and Respiration Study Committee, AHA
 1999-2002 Abstract Grading Consultant (Category 14: *Ion Channels and Membrane Transporters*), AHA
 1999-2005 Member-at-Large, Executive Committee (Leadership Committee), Council on Cardiopulmonary and Critical Care (CPCC), AHA
 1999-2001 Member, Lung and Cardiorenal Committee, Great America (3A) Affiliate Study Group, AHA
 2000-2004 Member, Communication Committee of the CPCC, AHA
 2001 Abstract Consultant, Asia Pacific Scientific Forum, AHA
 2003-2005 Chair, Fellowship Review Committee, CPCC, AHA
 2003-2008 Member, Western Review Consortium Committee 5B, AHA-Western States Affiliate
 2003-2006 Steering Committee Member, Early Career Development Program, AHA
 2003-2006 Abstract Grading Consultant (Category 04A: *Proliferation, Remodeling, Extracellular Matrix, Apoptosis*), AHA
 2003-2005 Member, Nominating and Awards Committee, CPCC, AHA
 2003-2006 Member, Program Committee, CPCC, AHA
 2003-2008 Member, Cournand and Comoroe Young Investigator Award Review Committee, Council of Cardiopulmonary Perioperative and Critical Care (CPCC), AHA
 2004-2006 Chair, Nominating and Awards Committee, CPCC, AHA
 2006-2015 Abstract Grading Consultant (*Pulmonary Circulation, Respiratory Processes, and Lung Injury category*), AHA
 2010-2014 Member, Research Committee, AHA
 2010-2012 Member, National Research Program Subcommittee, Research Committee, AHA
 2010-2011 Member, Established Investigator Award Taskforce, Research Committee, AHA
 2010 Member, Basic Research Prize Group, Research Committee, AHA
 2010-2013 Member, Lung - Basic Science & Clinical/Translational Review Panel, AHA
 2011-2014 Secondary Review Member, Fellow-to-Faculty (FTF) Transition Award Program, AHA
 2011-2014 AHA Research Committee Representative and Member, Leadership Committee, Cardiopulmonary, Critical Care, Perioperative and Resuscitation (3CPR) Council, AHA
 2011-2014 Member, Research Response to Open Science Task Force, Research Committee, AHA
 2011-2013 Co-Chair, Lung - Basic Science & Clinical/Translational Review Panel (Lung BSc1), AHA
 2012 Chair, Clinical Research Prize Task Force, Research Committee, AHA
 2012-2014 AHA Research Committee Liaison, Midwest Affiliate Research Committee, American Heart Association Midwest Affiliate
 2018- Member, Peer Review Committee for Transformational Project Award in Basic Organ Sciences, AHA
 2021- Member, Career Development Award Vascular 1 Peer Review Committee, AHA
 2021- Member, Basic Cell Membranes and Subcellular Organelles (Basic Science 3) Committee, AHA

The American Physiological Society (APS)

2017-2020 Member, Nominating Committee, Cardiovascular Section, APS
 2019-2022 Co-Chair, Nominating Committee, Respiration Section, APS
 2019-2022 Member, Steering Committee, Respiration Section, APS

American Thoracic Society (ATS)

1995-1998	Planning Committee Member, Maryland Thoracic Society, American Lung Association of Maryland
2003-2004	Chair, Nominating Committee, Assembly on Pulmonary Circulation (PC), ATS
2004-2017	Chair (2004-2006) and Member, Planning Committee, Assembly on PC, ATS
2004-2008	Member, Executive Committee, Assembly on PC, ATS
2005-2006	Member, Outstanding Research in Basic and Translational Biology Organizing Committee, ATS
2005-2008	Member, International Conference Committee, ATS
2005-2011	Chair-elect (2005-2006), Chair (2006-2008) and Member, Program Committee, Assembly on Pulmonary Circulation, ATS
2005-2009	Member, Research Advocacy Committee, ATS
2007-2009	Member, Scientific Advisory Committee, ATS
2008	Member, Grover Conference Planning Committee, Assembly on PC, ATS
2009-2011	Member, Nominating Committee, Assembly on PC, ATS
2013-2015	Chair, Assembly on Pulmonary Circulation, ATS
2013-2015	Member, Board of Directors, ATS
2013-2015	Member, Board of Directors Documents Review Subcommittee, ATS
2015-2016	Chair, Nominating Committee, Assembly on PC, ATS
2022-	Member, Steering Committee, ATS Early Career Investigator Award in Pulmonary Vascular Disease

Foreign Funding Agency and Professional Association

1995-1998	<i>Ad Hoc</i> Reviewer, The Wellcome Trust, London, U.K.
1998-2003	Councilor in Abroad, Chinese Association for Physiological Sciences
1999-2001	Referee, Research Grants Council, University Grants Committee, Hong Kong, China
2001-2003	<i>Ad Hoc</i> Reviewer, The Wellcome Trust, London, U.K.
2003-2005	Referee for Grant Application, Tommy's The Baby Charity, London, U.K.
2005-	<i>Ad Hoc</i> Reviewer, Austrian Science Fund (FWF), Vienna, Austria
2005-	<i>Ad Hoc</i> Reviewer, British Lung Foundation, London, U.K.
2006-2008	<i>Ad Hoc</i> Reviewer, Biotechnology and Biological Sciences Research Council (BBSRC) David Phillips Fellowships, Swindon, U.K.
2006-2014	Member, Department of Life Sciences (Physiology and Pathology Section; 2006-2007); Member, Department of Medicine (Respiratory Disease Section; 2007-2013), National Natural Science Foundation of China (NSFC), Beijing, China
2006-	<i>Ad Hoc</i> Reviewer, The Wellcome Trust, London, U.K.
2008-	<i>Ad Hoc</i> Reviewer, Israelis National Science Foundation
2009-	<i>Ad Hoc</i> Reviewer, Austrian Academy of Sciences, Vienna, Austria
2010-	<i>Ad Hoc</i> Reviewer, Medical Research Council (MRC) (Population and Systems Medicine Board), London, U.K.
2011-	<i>Ad Hoc</i> Reviewer, The Netherlands Organisation for Scientific Research (NWO) (Innovational Research Incentives Scheme)
2012-	<i>Ad Hoc</i> Reviewer, Programme Blanc SVSE1, The French National Research Agency (L'Agence Nationale de la Recherche, ANR)
2012-	<i>Ad Hoc</i> Reviewer, Marsden Fund, The Royal Society of New Zealand
2012	<i>Ad Hoc</i> Member, Advisory Board for the Peer-Reviewing of Research Project, Fondazione Cariplo, Milan, Italy
2012-	<i>Ad Hoc</i> Reviewer, Medical Research Council (MRC) (Fellowships, FEC Peer Review), London, U.K.
2013	<i>Ad Hoc</i> Reviewer, The Research Foundation Flanders (Fonds Wetenschappelijk Onderzoek – Vlaanderen) (FWO), Flanders, Belgium

- 2013 *Ad Hoc* Reviewer, UK Shared Business Services Ltd., Medical Research Council (MRC), Swindon, UK
- 2015 Member, College of Reviewers, Canada Research Chairs Program, Government of Canada
- 2016 Member, Scientific Expert Panel for Evaluation of the Ludwig Boltzman Institute for Lung Vascular Research, Graz, Austria
- 2018 Member, Senior Basic Science Research Fellowships Review Panel, British Heart Foundation, London, U.K.

Other Advisory Panels and Professional Associations

- 1998-2000 Member, Intramural Grant Study Section (Cellular Transport, Metabolism, Physiology & Pharmacology), University of Maryland School of Medicine, Baltimore, MD
- 2002 Reviewer, Peer Review Panel for Cardiovascular Disease, Pennsylvania Department of Health
- 2003-2005 *Ad Hoc* Reviewer, Philip Morris External Research Program
- 2006- *Ad Hoc* Reviewer, Alzheimer's Association (National Office), Chicago, IL
- 2006-2010 Member (2006-08) and Chair (2008-2010), Research Committee, Pulmonary Hypertension Association (PHA)
- 2006 Council of Senior Fellows; Leader, Taskforce of Textbook; Member, Taskforce of High Altitude and Hypoxic Disease; Pulmonary Vascular Research Institute
- 2007-2011 Faculty Member, Respiratory Physiology, Faculty of Biology 1000
- 2007- *Ad Hoc* Reviewer, Research Council, Catholic University of Leuven (KUL), Belgium.
- 2007-2008 Member, Working Group Session 3 (*Inflammation, Growth Factors, and Pulmonary Vascular Remodeling*) and Session 4 (*Cellular & Molecular Basis of PAH*) for the 4th WHO World Symposium on Pulmonary Hypertension (February 11-14, 2008).
- 2008 Chair and Organizer, 2008 Grover Conference on the Pulmonary Circulation (*Membrane Receptors, Channels and Transporters in the Pulmonary Circulation: Role in the Development of Pulmonary Vascular Disease*). Lost Valley Ranch in Sedalia, Denver, Colorado (September 3-7, 2008)
- 2008-2010 Member, Research Review Committee, American Lung Association of California
- 2008-2011 Member, Scientific Leadership Advisory Council, Pulmonary Hypertension Association
- 2009 Proposal Reviewer, Scientific Symposium, American Association for the Advancement of Science (AAAS), Washington, D.C.
- 2009 Reviewer of Doctoral Thesis, Justus Liebig University of Giessen, Germany
- 2010 Reviewer of Doctoral Thesis, University of Queensland, Sydney, Australia
- 2012 External Assessor (for Faculty Recruitment), Universiti Sains Malaysia, Pulau Pinang, Malaysia
- 2012- Abstract Reviewer, Basic Research, The American Society for Clinical Investigation (ASCI) and Association of American Physicians (AAP)
- 2013- Abstract Judge, The ASCI/AAP Joint Meeting Poster Session, The American Society for Clinical Investigation (ASCI) and Association of American Physicians (AAP)
- 2015- Advisor, Guggenheim Fellowship Competition, John Simon Guggenheim Memorial Foundation, New York, NY

Industrial Advisory Panels

- 2010-2011 Member, PAH Novel Targets Advisory Board, Pfizer Pulmonary Vascular Disease Area Team
- 2013-2021 Member, Steering Committee, Actelion ENTELLIGENCE™ Young Investigator Program, Research Excellence in Pulmonary Hypertension, Actelion Pharmaceuticals US, Inc.
- 2014-2016 Advisor, Cardiopulmonary Franchise Scientific Advisory Council, Bayer HealthCare US Medical Affairs
- 2015 Scientific Committee Member, The 3rd Annual US Research Day, Actelion

PROFESSIONAL MEMBERSHIPS:

1987-	Member (Councilor in Abroad, 1999-03), Chinese Association for Physiological Sciences
1989-	Member and Fellow (2020-), American Thoracic Society
1989-	Regular Member (Cardiovascular Section Fellow, 2000-; FAPS, 2019-), The American Physiological Society
1990-2000	Member, Biophysical Society
1993-	Member (Professional Member, 2002-; Silver Heart Member, 2005-) and Fellow (2003-), American Heart Association
1993-	Member (1993-) and Elected Fellow (2007-), American Association for the Advancement of Science (AAAS)
1995-	Regular Member, Society of Chinese Bioscientists in America
1999-2009	Member, The New York Academy of Sciences
2002-2010	Founding Member (Board of Directors, 2002-2005), Sino-American Pharmaceutical and Biotechnology Professional Association, San Diego, California
2003-	Member (Board of Directors, 2002-2006; Chair of the Public Affair Committee, 2003-2006), The Academy of Cardiovascular Research Excellence
2003-2010	Member, California Thoracic Society, Medical Section of the American Lung Association of California
2004-	Member, Pulmonary Hypertension Association
2007-	Elected Member, The American Society for Clinical Investigation (ASCI)
2008	Guggenheim Fellow, John Guggenheim Memorial Foundation, New York
2013-	Elected Member, Association of American Physicians (AAP)
2020-	Member, Association of Chairs of Departments of Physiology (ACDP)

CAMPUS (UNIVERSITY) ACTIVITIES:**University of Maryland, Baltimore**

1998-1999 School of Medicine Council Representative

University of California, San Diego***School of Medicine***

1999-2010	Member, Research Committee (1999-2010); Member, Fellowship Training Executive Committee (2003-2010); Associate Director for Research Training (Basic Science) (2003-2010), Division of Pulmonary and Critical Care Medicine, Department of Medicine.
1999-2005	Member, Recruitment and Admissions (MD) Committee (RAC)
1999-2005	Member, MD/PhD Admissions Committee, Medical Scientist Training Program (MSTP)
2001-2004	Member, Department of Medicine Committee on Appointments and Promotions
2002-2005	Chair, Progress in the Science of Medicine (PRISM) Lecture Selection Committee, Department of Medicine
2003-2010	Member, Space Committee, Department of Medicine
2003-2005	Member, Health Sciences Subcommittee on Research
2003	Chair, <i>Ad-hoc</i> Merit and Promotion Committee of DOMCAP, Department of Medicine
2004-2010	Member, The Sam and Rose Stein Institute for Research on Aging
2004-2006	Member, Biomedical Sciences (PhD) Admissions and Recruitment Committee
2006-2010	Chair, Space Committee, Department of Medicine
2006-2010	Member, Graduate Programs Education Committee (GPEC)
2007-2010	Chair, <i>Ad-hoc</i> Merit and Promotion Committee, Department of Medicine
2007-2010	Member (2007-2010) and Vice Chair (2009-2010), Health Sciences Committee on Planning and Budget
2008	Chair, Search Committee for Biomedical Informatics Faculty, Department of Medicine
2008-2010	Member, Research Council

2008-2010	Member, Membership Committee, Biomedical Sciences (PhD) Graduate Program
2019-2024	Member, John B. West Distinguished Lectureship Selection Committee, Division of Pulmonary, Critical Care and Sleep Medicine, Department of Medicine
2021-2024	Member, MD/PhD Admissions Committee, Medical Scientist Training Program (MSTP)

University of California, San Diego

2004-2006	Member, Academic Senate Committee on Academic Personnel (CAP)
2006-2009	Vice Chair (2006-2008) and Chair (2008-2009), Academic Senate Committee on Privilege & Tenure (CPT)
2007-2008	Member, Academic Senate Planning and Budget Subcommittee on Campus Budget
2007-2008	Member, Academic Senate “Shadow” CAP (Committee on Academic Personnel)
2008-2010	Member, Academic Senate Committee on Committees
2008-2009	Member, Senate Council
2008-2009	Member, Senate-Administration Council
2008-2009	Member, Representative Assembly
2008-2010	Faculty and Advisor, Institute of Engineering in Medicine
2009-2010	Elected Representative, Representative Assembly
2009-2010	Member, Clinical and Translational Research Institute Building – Building Advisory Committee (BAC)
2020-2022	Member (2020-2022) and Chair (2021-2022), Academic Senate Committee on International Education

University of California System (Oakland, CA)

2008-2009	Member, University Committee on Privilege & Tenure (UCPT)
2009-2010	Divisional Representative to Assembly of the Academic Senate
2021-2022	Divisional Representative to the UC Committee on International Education (UCIE)

University of Illinois at Chicago

2011	Member, Vice Chancellor for Research Imaging Task Force
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University of Illinois at Chicago

College of Medicine

2010-2014	Member, Jr. Faculty Development Committee, Department of Medicine
2010-2014	Fellow Mentor and Advisor, Department of Pediatrics
2011-2014	Associate Member of the Graduate Faculty
2011	Chair, Search Committee for Stem Cell and Regenerative Medicine Faculty, Department of Pharmacology
2011-2014	Member, MD/PhD Admissions Committee, Medical Scientist Training Program (MSTP)
2011-2014	Member (and Director of the Program in Pulmonary Vascular Disease and Right Heart Function), Center for Cardiovascular Research
2012-2014	Member, UICentre Central Committee
2012-2014	<i>Ad Hoc</i> Reviewer, Chancellor’s Graduate Research Fellowship

The University of Arizona

2014-2018	Chair, Advisory Committee for Career Development Award, The University of Arizona Health Sciences (UAHS)
2014-2015	Member, Neuroscience Search Committee (for Director of the Center for Innovation in Brain Science), UAHS
2014-2015	Member, Five-Year Review Panel (for Dean of the UA College of Medicine-Phoenix), UAHS
2015-2018	Chair, Review Committee, Career Development Award Program, UAHS
2015-2017	Member, Quality Brainstorming Research Group, the Faculty Senate and the Executive Office of the President of the UA

- 2016-2018 Member, Review Committee, NIH-Training Program: Postdoctoral Excellence in Research and Teaching (PERT), UA
- 2016-2018 Member, Space Committee, UAHS
- 2016 Member, Review Committee, Multidisciplinary Program Feasibility Award Program, UAHS
- 2016-2018 Chair, Review Committee, Bridge Funding Program, UAHS

The University of Arizona

College of Medicine - Tucson

- 2014-2015 Member, Founders Day Speaker Selection Committee, College of Medicine, Tucson
- 2015-2016 Member, Search Committee, Department of Medicine, College of Medicine (for Chief, Division of Endocrinology and Director, Center for Diabetes Research)
- 2015-2017 Member, Space Committee, Department of Medicine, College of Medicine
- 2016-2018 Member, Internal Advisory Council, AZ-PRIDE Health Disparities Research Program (Arizona Program to Increase Diversity among Individuals Engaged in Health-Related Research)

The University of Arizona

College of Medicine - Phoenix

- 2015-2016 Member, Translational Neurosciences Chair Search Committee (for Chair, Department of Translational Neurosciences at College of Medicine – Phoenix)
- 2016-2017 Member, Associate Dean for Research Search Committee, The University of Arizona College of Medicine – Phoenix
- 2016-2017 Member, Interdisciplinary Oncology Chair Search Committee (for Chair, Department of Interdisciplinary Oncology at College of Medicine – Phoenix)
- 2017-2018 Member, Academy of Research Mentors, College of Medicine – Phoenix

TEACHING ACTIVITIES:

- 1995-1996 High School Science Teacher Host Investigator (for Judith Kuhl), The American Physiological Society
- 1996-1999 Associate Faculty Member, University of Maryland Graduate School, Baltimore, MD
- 1997-1999 Adjunct Faculty Member, Doctoral Program in Membrane Biology, University of Maryland Graduate School, Baltimore, MD
- 1997-1999 Affiliate Faculty (1997-1998) and Full (1998-1999) Member, Interdisciplinary Ph.D. Training Program in Muscle Biology, University of Maryland Graduate School, Baltimore, MD
- 1999-2010 Associate Member (1999-2002) and Regular Member (2002-2010), Biomedical Sciences Ph.D. Training Program, University of California, San Diego (UCSD), CA
- 2002-2010 Faculty Advisor (Classes of 2005-2013), School of Medicine, UCSD
- 2002-2010 Faculty Mentor Program (Presider, Research Symposium, 2003-2010), UCSD
- 2002-2007 Minor Proposition Committee Member (*Ad Hoc* Examination Committee Chair, 2002-2007; Vice Chair, 2003-2007), Biomedical Sciences Ph.D. Training Program, UCSD
- 2002-2010 Ph.D. Thesis (Major) Committee Member, Biomedical Sciences Ph.D. Training Program, UCSD
- 2002-2010 Howard Hughes Undergraduate Science Enrichment Program, UCSD
- 2004-2010 Faculty Mentor, MST Summer Undergraduate Research Fellowship Program, UCSD
- 2005-2010 SURF (Summer Undergraduate Research Fellowship) Selection Committee, UCSD
- 2005 High School Science Teacher Host Investigator (for Laura Noonan; declined), The American Physiological Society
- 2008-2010 Member, Research Proposition Committee and Qualifying Exam Committee, Biomedical Sciences Ph.D. Training Program, UCSD

2010-2014	Member, Pharmacological Science Ph.D. Training Program, University of Illinois at Chicago, Chicago, IL
2014-2018	Member, Graduate Interdisciplinary Program in Physiological Sciences, The University of Arizona, Tucson, AZ
2016-2018	Member, Advisory Board, Postdoctoral Excellence in Research and Teaching Program, The University of Arizona, Tucson, AZ
2016-2018	Member, Internal Steering Committee, The University of Arizona Cardiovascular Biomedical Engineering Training Program
2015-2018	Research Mentor, Medical Student Research Program (MSRP) and Innovative Curriculum on Medical Ignorance (CMI) Program, The University of Arizona College of Medicine
2017-2018	Faculty Research Mentor, Border Latino & American Indian Summer Exposure to Research (BLAISER), The University of Arizona Health Sciences
2020-2024	Mentor, PRIDE Summer Institute Mentored Training Program, University of California, San Diego (UCSD), La Jolla, CA
2021-2024	Research Mentor, BISP 199 – Individual Research for Undergraduate Students, UCSD

Course Organizer/Master

1997-1999	Section Head, <i>Respiratory Function, Medical Physiology</i> (MPHY 501/MPHY 601) (Medical and graduate medical students), University of Maryland School of Medicine, Baltimore, MD
2007-2010	Course Director, <i>At the Crossroads: Science Meets the Medical Patient</i> (MED 275) (Med-into-Grad Program, Howard Hughes Medical Institute) (Graduate students; 16 hours/year), University of California, San Diego, CA
2008-2010	Course Master, <i>Medical Chinese</i> (MED 253) (Medical and pharmacy students; 8.5 hours/year), School of Medicine, UCSD

Course Lecturer/Facilitator

1987-1988	Lecturer, <i>Cardiovascular Physiology</i> (30-35 medical and graduate students), Department of Physiology, Faculty of Basic Medicine, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing, China
1994	Facilitator, <i>Medical Physiology and Neuroscience: Problem-Based Learning</i> (Medical students; 25 hours/year), University of Maryland School of Medicine, Baltimore, MD
1996-1999	Lecturer, <i>Respiratory Function, Medical Physiology</i> (MPHY 501/MPHY 601) (Medical and graduate students; 8 hours/year), University of Maryland School of Medicine, Baltimore, MD
1996-1999	Lecturer, Smooth Muscle Pharmacology and Electrophysiology, <i>Muscle: Contractility & Excitation-Contraction Coupling</i> (MBIC 714/MPHY 714) (Graduate students; 15 hours/year), University of Maryland School of Medicine, Baltimore, MD
1999-2010	Lecturer, <i>Pulmonary Vascular Physiology, Clinical Lung Physiology and Biology</i> (MED 435) (Pulmonary fellows; 6 hours/year), School of Medicine, UCSD
1999-2010	Facilitator, <i>Organ Physiology; Respiration Conference and Laboratory</i> (SOMC 206, 206L) (Medical students; 6 hours/year), School of Medicine, University of California, San Diego (UCSD)
2000-2006	Lecturer, <i>Molecular and Modern Methodologies in Physiological Sciences</i> (BIOM 250/RM 250/MED 252) (Graduate students; 3 hours/year), UCSD
2000-2006	Lecturer, <i>Systemic Physiology</i> (BMS 213); <i>General Physiology and Cell Function</i> (Graduate students; 8 hours/year), UCSD
2001-2003	Lecturer, <i>Translational Research on Hypertension</i> (BILD 90, SE D00) (Undergraduate students; 10 hours/year), UCSD
2003-2008	Lecturer, Actelion Postgraduate Course; <i>Pathogenesis of Pulmonary Hypertension</i> (Physicians from various countries; 1.5 hours/year), School of Medicine, UCSD

2006-2010	Lecturer (2006-2010) and Section Leader (2008-2010), <i>Drugs and Disease: The Pathological and Molecular Bases for Disease and Drug Therapy</i> (BIOM 255); <i>Vascular Disease: Hypertension and Atherosclerosis</i> (Graduate students; 4 hours/year), UCSD
2007-2010	Lecturer and Facilitator, <i>Seminar in Biomedical Research</i> (BIOM 201) (Graduate students; 11 hours/year), UCSD
2007-2010	Lecturer, <i>At the Crossroads: Science Meets the Medical Patient</i> (MED 275) (Med-into-Grad Program, Howard Hughes Medical Institute); <i>Idiopathic and Thromboembolic Pulmonary Hypertension: Receptor signaling and transcription factors in Pathogenesis</i> (Graduate students; 16 hours/year), UCSD
2007-2010	Lecturer, <i>Medical Chinese</i> (MED 253) (Medical and pharmacy students; 8.5 hours/year), School of Medicine, UCSD
2010-2014	Lecturer, <i>Biology and Pharmacology of the Lung</i> (PCOL 550) (Graduate students and postdoctoral fellows; 2.0 hours/year), College of Medicine, University of Illinois at Chicago (UIC)
2010-2014	Lecturer, <i>Stem Cells</i> (PHYB 530) (Graduate students and postdoctoral fellows; 2.0 hours/year), College of Medicine, UIC
2012-2014	Lecturer, <i>Medical Pharmacology</i> (PCOL 501) (Medical students; 2.0 hours/year), College of Medicine, UIC
2012-2014	Lecturer, <i>Pharmacology for Dentistry</i> (PCOL 331) (Dental students; 2.0 hours/year), College of Dentistry, UIC
2012-2014	Lecturer, <i>Ion Channels: Structure, Physiology, Pharmacology, and Channelopathies</i> (PCOL 540/PHYB 540) (Graduate students and postdoctoral fellows; 6.0 hours/year), College of Medicine, UIC
2012-2014	Lecturer, <i>Pharmacology and Biology of the Vessel Wall</i> (PCOL 530) (Graduate and medical students; 2.0 hours/year), College of Medicine, UIC
2012-2014	Lecturer, <i>Cardiovascular Pathophysiology</i> (PHYB 518) (Graduate students and postdoctoral fellows; 4.0 hours/year), College of Medicine, UIC
2019-2021	Lecturer, <i>Cardiovascular Physiology</i> (BENG 230C) (Graduate students and postdoctoral fellows; 2.0 hours/year), Jacobs School of Engineering, UCSD
2020-2022	Facilitator, <i>Foundations of Human Health and Disease</i> (SOMC 220): Problem Based Learning (PBL) – Cardiovascular System I (SOMC 221), Pulmonary System I (SOMC 222) and Pulmonary System II (SOMC 238) (Medical students; 42 hours/year), School of Medicine, UCSD
2020-2022	Lecturer, <i>Translational Medicine: Human Disease-targeted Research</i> (WARR87_FA20_A00) (Undergraduate students; 10 hours/semester), Warren College, UCSD

High School Students

Research Advisor

2007	Habibo Amba (The UCSD Preuss School, La Jolla, CA), High School Student Training in Aging Research (HS STAR) Program, University of California, San Diego (UCSD)
2007	Truc Minh Ta (The UCSD Preuss School, La Jolla, CA), High School Student Training in Aging Research (HS STAR) Program, UCSD
2010-2011	Amina Smajlovic (Proviso Math and Science Academy (PMSA), Chicago, IL), PMSA Research Mentorship Program, University of Illinois at Chicago (UIC)
2010-2011	Karael Compbell (PMSA, Chicago, IL), PMSA Research Mentorship Program, UIC
2010-2011	Nevada Bennett (PMSA, IL), PMSA Research Mentorship Program, UIC
2010-2011	Olivia Griffin (PMSA, Chicago, IL), PMSA Research Mentorship Program, UIC
2012	Jasmine Tolson (Queen of Peace High School, Burbank, IL), UIC
2012	Misha Usatyuk (Carl Sandburg High School, Orland Park, IL), UIC
2013	Mit Shah (Carl Sandburg High School, Orland Park, IL), UIC

2015	Savannah Brown (Salpointe Catholic High School, Tucson, AZ), Summer Institute of Medical Ignorance (SIMI), University of Arizona (UA)
2015	Nadia Ingabire (Desert View High School, Tucson, AZ), SIMI, UA
2015-2017	Christina Wang (Chaparral High School, Scottsdale, AZ), Summer Res. Program, UA
2016	Charles Henderson (Tucson City High School, Tucson, AZ), SIMI, UA
2017	Rodrigo V. Hernandez (Tucson High Magnet School, Tucson, AZ), SIMI, UA
2017	Mario Ibarra (Amphitheater High School, Tucson, AZ). SIMI, UA
2017	Angela Balistrieri (The Academy of Our Lady of Peace, San Diego, CA). Summer Research for High School Students Program, UA
2019	Angela Harrington (Torrey Pines High School, La Jolla, CA). Summer Research Program, UCSD
2019	Francesca Balistrieri (The Academy of Our Lady of Peace, San Diego, CA). Summer Research Program, UCSD
2022	Lauren Yung (Westview High School, San Diego, CA). Summer Research Program, UCSD

Undergraduate Students

Research Advisor

2002-2004	Tiffany Sison [BS/MS, 2004, University of California, San Diego (UCSD); MD, 2009, UCLA; Resident of Neurology, University of South Florida]
2002	Vincent T. Wong (BS, 2004, UCSD; MS, 2006, Boston University, Boston, MA)
2002	Amir A. Asgari (BS, 2004, UCSD; MS, 2007, University of California, Irvine, CA)
2003-2004	Michelle Le (BS, 2004, UCSD; MD, 2009, Rosalind Franklin Univ. of Med. & Sci.)
2003-2005	Nivruthi Vangala (BS, 2005, UCSD; MD, 2008, American University of the Caribbean at St. Maarten)
2004-2005	Natalia Isaza (BS, 2005, UCSD; MD, 2009, Stanford University, Stanford, CA)
2004-2006	Negin Agange (BS/MS, 2006, UCSD; MD, University of California, Irvine, CA)
2004-2006	Tien Lie (BS, 2006, UCSD)
2005	Sara Azad (BS, 2005, UCSD)
2005	Howard Chang (BS, 2005, UCSD)
2006	Benjamin Carrle (BS, 2006, Revelle College, UCSD)
2006	Alex Chen (BS, 2006, UCSD)
2006-2007	Joseph Msefya (2005-2009, Norfolk State University; MSTP SURF Program at UCSD)
2007	Amy Wang (BS, 2007, Revelle College, UCSD)
2007	Chirag Jatakia (BS, 2007, Revelle College, UCSD)
2007	Jacqueline E. Shibata (BS, 2007, Revelle College, UCSD)
2007	Irshad Allana (BS, 2009, Warren College, UCSD)
2007-2008	Jocelyn Yau (BS, 2008, Marshal College, UCSD)
2007-2009	Chelsea Dao (BS, 2009, Revelle College, UCSD)
2008	Christine Y. Lee (BS, 2010, Roosevelt College, UCSD)
2008	James D. Price (BS, 2010, Marshal College, UCSD)
2008-2009	Erik Canciano (BS, 2010, Revelle College, UCSD)
2008	Albert Shih (BS, 2009, UC Merced; MSTP SURF Program at UCSD)
2009	Robin Whitehall (BS, 2009, Revelle College, UCSD)
2009	Anthony T. Ngo (BS, 2009, Revelle College, UCSD)
2009	Sarah E. Moodie (BS, 2009, Revelle College, UCSD)
2009-2010	Gabriel Sabino (BS, 2010, Revelle College, UCSD)
2010	Irene Estrada (BS, 2010, Revelle College, UCSD)
2010-2011	Kazi Siddiqui [BS, 2011, University of Illinois at Chicago, (UIC)]
2011	Smitha Boddupalli (BS, 2010, Monash University, Melbourne, Australia; 2011, UIC)
2011-2012	Abigail Drennan (BS, 2012, UIC)

2011	Alexander P. Roussos (BS, 2011, UIC)
2011	Mengyuan (Mandy) Zhou (BS, 2012, University of Wisconsin, Madison)
2011-2012	Zaid Patel (BS, 2012, UIC)
2011	Emily Lechuk (BS, 2014, UIC)
2012	Neal Shah (BS, 2015, UIC)
2012	Javeria Burney (BS, 2015, UIC)
2013	Connie Yan (BS, 2015, UIC)
2013	Yomaira F. Silva (BS, 2015, Northwestern University, Chicago), Hispanic Center of Excellence, Summer Undergraduate Research Program on Health Disparities, UIC
2015-2016	Swetaleena Dash, BS (2016, University of Arizona), Honors Independent Study Program, University of Arizona (UA). <i>Currently</i> , University of Rochester School of Medicine and Dentistry (Emergency Medicine Resident)
2015	Adrian Franco, BS (2016, UA), Border Consortium Designed to Expand Clinical and Translational Research and Training Program, UA
2015-2018	Marisela Rodriguez, BS (2018, UA), Summer Institute of Medical Ignorance (SIMI) Research Program and Medical Health Disparities (MHD) Program, UA. <i>Currently</i> , University of Arizona College of Graduate Studies (PhD Candidate)
2015	Samuel Williams, BS (2016, Washington University at St. Louis), Minority Health Disparities Student Program, UA
2015-2018	Nadia Ingabire, BS (2019, UA), Summer Institute of Medical Ignorance (SIMI) Research Program, UA. <i>Currently</i> : University of Texas at Austin (PhD candidate).
2016	Octavio Cordova, Jr., BS (2018, College of Engineering, University of Texas at El Paso, El Paso, TX), UTEP BUILDing SCHOLARS Summer Research Program)
2016	Ryan Bia, BS (2018, Arizona State University, Phoenix, AZ), Border Latino American Indian Summer Exposure to Research (BLAISER) Summer Research Program, UA
2016	Ciara Lugo, BS (2019, UA), Summer Institute of Medical Ignorance (SIMI) Summer Research Program, UA
2016-2019	Shane G. Carr, BS (2019, UA), Undergraduate Biology Research Program (UBRP), UA. <i>Currently</i> : Vanderbilt University School of Medicine (Medical Student)
2017-2019	Keeley S. Ravellette, BS (2020, UA), Western Alliance to Expand Student Opportunities (WAESO) Program, UA. <i>Currently</i> : UCLA David Geffen School of Medicine (Medical Student)
2017	Alexandra S. Osorio, BS (2018, UA), Border Latinos and American Indians Summer Exposure to Research (BLAISER), UA
2017	Ibrahim F. Salama, BS (2018, University of Texas at El Paso, El Paso, TX), UTEP BUILDing SCHOLARS (Building Infrastructure Leading to Diversity: Southwest Consortium of Health-Oriented Education Leaders and Research Scholars) Program, UA
2017-2019	Linda Wu, BS (2020, UA), Undergraduate Biology Research Program (UBRP), UA. University of Arizona (Graduate Student)
2018-2019	Brooke Quinton, BS (2019, UA), BLAISER Research Program, UA and Western Alliance to Expand Student Opportunities (WAESO) Program, Arizona State University. <i>Currently</i> : Case Western Reserve University School of Medicine (Medical Student)
2018	Noe Carrasco, BS (2019, UA), Joe G.N. and Elda D. Garcia Health Career Scholarship Program for Latino Students, UA
2018	Valeria Garcia, BS (2019, Northern Arizona University), Undergraduate Research Opportunities Consortium (UROC) Minority Health Disparities Program, UA
2018	Mario Ibarra (2017-2021, UA), Summer Institute Medical Ignorance Research Program, UA
2019-2020	Shamin Rahimi, BS (2020, UCSD), Undergraduate Student Research Program, UCSD
2019-2020	Shayan Rahimi, BS (2022, UCSD), Undergraduate Student Research Program, UCSD

2020-2021	Amin Izadi, BS (2020, San Diego State University), Undergraduate Student Research Program, UCSD
2020-2022	Ryan Powers, BS (2022, UCSD), Undergraduate Student Research Program, UCSD. <i>Currently:</i> University of Utah School of Medicine (Medical Student)
2021-	Sophia Parmisano (2020-2024, UCSD), Undergraduate Student Research Program, UCSD
2021-2022	Cole Paquin (2020-2024, UCSD), Undergraduate Student Research Program, UCSD
2021-2023	Mary (Manjia) Zhao, BS (2022, UCSD), Independent/Individual Undergraduate Student Research Program, UCSD
2021-2023	Moreen Matti (2020-2024, UCSD), Independent/Individual Undergraduate Student Research Program, UCSD
2022-2023	Bowen Li, BS (2022, UCSD), Undergraduate Student Research Program, UCSD
2022-2023	Hailey Stanfield (2020-2024, UCSD), Undergraduate Student Research Program, UCSD

Medical Students

Research Advisor

1999-2000	Stefanie Krick (MD, 2003; PhD, 2004, Justus Liebig University, Giessen, Germany). <i>Currently:</i> Assistant Professor, Department of Medicine, The University of Alabama at Birmingham, Birmingham, AL
2004-2009	Christian Walnut-Schach (MD, 2006, Johann Wolfgang Goethe University, Frankfurt/Main; University of Regensburg, Regensburg, Germany)
2005-2006	Reza Kermani [MD, 2008, University of California, San Diego (UCSD) School of Medicine] (Independent Study Project Mentor)
2006-2007	Sasan Massachi (MD, 2008, UCSD School of Medicine) (ISP Mentor)
2006-2009	Winnie Wu (MD, 2009, UCSD School of Medicine) (MED 296, Independent Research Fellowship, NIH Summer Research Training Grant)
2008-2009	Sahar Soleymani (MD, 2010, UCSD School of Medicine) (ISP Committee Member)
2009	Tyson S. Torres (MD, 2010, UCSD School of Medicine) (ISP Faculty Sponsor)
2010	Albert Sohn [MD, 2012, the University of Illinois at Chicago (UIC) College of Medicine]
2012	Steven D. Pearson, Jr. (MD, 2015, UIC College of Medicine)
2013	Sarah Bunch (MD, expected in 2018, UIC College of Medicine)
2013	Julie Eisenberg (MD, 2016, UIC College of Medicine)
2015-2016	Allison Yee [MD, 2018, The University of Arizona (UA) College of Medicine]
2017-2018	Daniel Carlson (MD, expected in 2021, UA College of Medicine)

Faculty Advisor

2001-2004	Laura E. Conley (MD, 2005, UCSD School of Medicine).
2001-2004	Thomas Catron (MD, 2005, UCSD School of Medicine)
2002-2005	Tomasz Murawski (MD, 2006, UCSD School of Medicine)
2004-2008	Hafid Mantilla (MD/PhD, 2010, UCSD School of Medicine)
2004-2008	Benjamin Talei (MD, 2008, UCSD School of Medicine)
2005-2008	Henry Su (MD, 2009, UCSD School of Medicine)
2006-2008	David Ahn (MD, 2010, UCSD School of Medicine)
2007-2010	Alexander Hui (MD, 2010, UCSD School of Medicine)
2008-2010	Sharon Lu (MD, 2011, UCSD School of Medicine)
2008-2010	Dawn Zhang (MD, 2011, UCSD School of Medicine)
2011-2013	Steven D. Pearson, Jr. (MD, 2015, UIC College of Medicine)
2011-2013	Maxwell Kroloff (MD, 2015, UIC College of Medicine)

Graduate Students

Research Rotation

2001	Ilona A. Barash [BS, 1998, University of Washington; MD/PhD Student, <i>Biomedical Science Graduate Program (BMSGP)</i> , University of California, San Diego (UCSD)]
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2003	Elyssa D. Burg (BS, Northwestern University; PhD, 2009, UCSD)
2004	Katherine Wilkinson (BS, University of Pittsburgh; PhD Student, <i>BMSGP</i> , UCSD)
2006	Michael Y. Song (BS, University of Michigan; PhD Student, <i>BMSGP</i> , UCSD)
2006	Tuguang Kuang, (MD, Xian Medical University, China; PhD, Capital Medical University, Beijing, China)
2007	Frederique Mies (PhD Student, Free University of Brussels, Belgium)
2008	Amanda White (BS, Trenton State College; PhD Student, <i>BMSGP</i> , UCSD)
2010	Ruby A. Fernandez [PhD Student, <i>Pharmacology GP</i> , University of Illinois at Chicago (UIC)]
2011	Mary V. Maliakal (PhD Student, <i>Pharmacology GP</i> , UIC)
2012	Zheng Hsu (PhD Student, <i>Anatomy and Cell Biology GP</i> , UIC)
2013	Joshua Jones (MD/PhD Student, <i>Medical Scientist Training Program</i> , UIC)
2013	Victoria Meissner (PhD Student, <i>Microbiology & Immunology GP</i> , UIC)
2013	Kerrie Collins (PhD Student, <i>Pharmacology GP</i> , UIC)
2014	Laura Jiménez-Pérez (Ph.D. Student, Departamento de Bioquímica y Biología Molecular y Fisiología, Universidad del Valladolid, Valladolid, Spain)
2014-2015	Madeline Espeira [MS Student, <i>Physiological Sciences GP</i> , University of Arizona (UA)]
2014-2015	Sujana Vinjamuri (MS Student, <i>Physiological Sciences GP</i> , UA)
2015-2016	Heather Lynn (PhD Student, <i>GIDP in Physiological Sciences</i> , UA)
2016-2017	Magdalena Kedzior (PhD Student, <i>Pharmacology & Toxicology GP</i> , UA College of Pharmacy)
2018	Esmeralda Ivonne Niño Padilla, PhD (B.S., 2009; M.S., 2013; PhD Student in Immunology and Infectious Diseases, University of Sonora, Sonora, Mexico). Study in Arizona Summer Programs, UA.

Major Thesis Committee

2002-2005	Zhen Li (PhD, 2005; Adviser: S.A. Lipton, <i>Molecular Pathology GP</i> , The Burnham Institute and UCSD)
2004-2007	Sara Epperson [PhD, 2007; Advisers: F. Villereal and L. Brunton, <i>Biomedical Sciences Graduate Program (BMSGP)</i> , UCSD].
2005-2010	Alfred E. Chappell (PhD, 2010; Adviser: K.E. Barrett, <i>BMSGP</i> , UCSD).
2005-2007	Ian Lian (PhD, 2007; Advisers: L.A. Sun and S. Chien, <i>Bioengineering GP</i> , UCSD).
2005-2010	Leona Flores (PhD, expected 2011; Adviser: S. Chien, <i>BMSGP</i> , UCSD).
2006-2008	Benjamin Sachs (PhD, 2008; Adviser: K. Akassoglou, <i>BMSGP</i> , UCSD).
2006-2007	Dorothy A. Dederko (MS, 2007; Adviser: W. Giles, <i>Bioengineering GP</i> , UCSD).
2007-2009	Katherine Wilkinson (PhD, 2009; Adviser: F. Powell, <i>BMSGP</i> , UCSD)
2008-2012	Daniel Pope, (PhD/MD, 2012; Adviser: F. Powell, <i>BMSGP</i> , UCSD)
2008-2009	Dinesh K. Hirehallur-S (PhD, 2009; Adviser: N.J. Rusch, <i>Pharmacology GP</i> , University of Arkansas for Medical Sciences, Little Rock, AR)
2008-2011	DeeAnn W. Visk (PhD, 2011; Adviser: G. Haddad, <i>Biology GP</i> , UCSD)
2009-2010	Emily A. Witham (PhD, 2012; Adviser: P. Mellon, <i>BMSGP</i> , UCSD)
2012-2014	Melissa Geyer (PhD, 2015; Adviser: Y. Komarova, <i>Pharmacology GP</i> , UIC)
2012-2014	Yuka Shimizu (PhD, 2014; Adviser: J.G.N. Garcia, <i>Biochemistry and Molecular Genetics GP</i> , UIC)
2012	Wei Shen (MS, 2012; Adviser: J. Cheng, <i>Bioengineering GP</i> , UIC)
2012-2015	Neil Detweiler (PhD, expected 2015; Adviser: N.J. Rusch, <i>Pharmacology Graduate Program</i> , University of Arkansas for Medical Sciences, Little Rock, AR)
2013	Chi Bang (PhD, 2013; Adviser: J. Cheng, <i>Bioengineering GP</i> , UIC).
2013-2016	Alicia Rizzo (MD, expected 2018; Ph.D., expected 2016; Advisers: J.G.N. Garcia/Steven Dudek, <i>Medical Scientist Training Program</i> , UIC)
2013-2016	Venkat Elagovan (PhD, 2016; Adviser: J.G.N. Garcia, <i>Pharmacology GP</i> , UIC)

2013-2014	Diana Zabini (PhD, 2013; Adviser: A. Olschewski, <i>Lung Vascular Research GP</i> , Medical University of Graz, Graz, Austria)
2020-2022	Ariel Wang (PhD, 2022; Adviser: D. Valdez-Jasso, <i>BMSGP</i> , UCSD)
2020-2023	Hao Mu (PhD, 2022; Adviser: D. Valdez-Jasso, <i>BMSGP</i> , UCSD)
2023	Yongneng Zhang (PhD, 2023; Adviser: E. Michelakis, <i>Department of Medicine</i> , University of Alberta, Edmonton, Canada).

Minor Proposition Committee

2002	Kathryn Nguyen (PhD student, <i>Biomedical Sciences Graduate Program (BMSGP)</i> , UCSD; Chair)
2002	Nancy Hurtado (PhD student, <i>BMSGP</i> , UCSD; Chair)
2004	Yun Yung (PhD student, <i>BMSGP</i> , UCSD; Committee Member)
2004	Anthony Essex (PhD student, <i>BMSGP</i> , UCSD; Committee Member)
2004	David Peters (PhD student, <i>BMSGP</i> , UCSD; Committee Member)
2004	Jon Hagopian (PhD student, <i>BMSGP</i> , UCSD; Committee Member)
2005	Caitlin Shindler (PhD student, <i>BMSGP</i> , UCSD; Chair)
2005	Madeline Lancaster (PhD student, <i>BMSGP</i> , UCSD; Chair)
2007	Daniel Popa (MD/PhD student, <i>BMSGP</i> , UCSD; Co-Chair)
2007	Sriram Rangarajan (MD/PhD student, <i>BMSGP</i> , UCSD; Chair)

Research Proposition Qualifying Exam Committee

2008	Emily A. Witham (PhD student, <i>BMSGP</i> , UCSD; Committee Chair)
2009	Spencer Wei (PhD student, <i>BMSGP</i> , UCSD; Committee Chair)

Thesis Advisor

2002-2004	Tiffany T. Sison, BS, MS (BS/MS, University of California, San Diego). <i>Currently:</i> Resident, Department of Neurology, University of South Florida, Tampa, FL
2001-2004	Ivana Fantozzi, PhD (PhD, 2004, Universite De Nice-Sophia Antipolis, France). <i>Currently:</i> Postdoctoral Fellow, National Center of Scientific Research, Nice, France
2004-2006	Negin Agange, BS, MS (BS/MS, 2006, University of California, San Diego; M.D., 2011, University of California, Irvine, CA). <i>Currently:</i> Resident, Department of Ophthalmology, University of Texas, San Antonio, TX
2004-2009	Elyssa D. Burg (PhD, 2009, University of California, San Diego). <i>Currently:</i> Postdoctoral Fellow, National Institutes of Health, Bethesda, MD
2007-2011	Michael Y. Song (PhD, 2011, University of California, San Diego). <i>Currently:</i> Resident, Scripps Medical Center, San Diego, CA
2010-2014	Ruby A. Fernandez (PhD, 2014, University of Illinois at Chicago). <i>Currently:</i> Postdoctoral Research Fellow, The University of Arizona (UA), Tucson, AZ
2013-2014	Victoria Meissner (PhD Student, <i>Microbiology & Immunology Graduate Program</i> , UIC)
2013-2014	Kerrie Collins (PhD Student, <i>Pharmacology Graduate Program</i> , UIC)
2014-2018	Madeline Espineira (MS Student, <i>Physiological Sciences Graduate Program</i> , UA)
2014-2016	Sujana Vinjamuri (MS, 2016, <i>Physiological Sciences Graduate Program</i> , UA)
2018-2020	Marisela Rodriguez (MS, 2020, <i>Clinical and Translational Science Graduate Program</i> , UA/UCSD)
2020-2024	Rebecca Hardi (PhD, 2023, <i>Bioengineering Graduate Program</i> , UCSD) (Co-Mentor, with D. Valdez-Jasso).
2019-2022	Jiyuan (Era) Chen (MD, Weifang Medical College, Weifang, China; MS, 2018, Baotou Medical College, Baotou, China; PhD, 2022, Guangzhou Medical University, Guangzhou, China)

Postdoctoral Research Fellows

Faculty Advisor and Research Advisory Committee Member

2002-2006	Mark Lin, MD, PhD (Division of Pulmonary and Critical Care Medicine, UCSD)
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2003-2007	Alex Delgado, MD (Division of Pulmonary and Critical Care Medicine, UCSD)
2007-2009	Jane E. Lewis, MD (Division of Pulmonary and Critical Care Medicine, UCSD)
2011-2013	Sunit Singla, MD (Section of Pulmonary, Critical Care, Allergy Medicine, UIC)

Research Mentor/Supervisor

1993-1996	Rose T. Bright, MD (MD, 1990, University of Miami School of Medicine; Internship and Residency, 1990-1993, University of Maryland School of Medicine, Baltimore, MD). <i>Currently:</i> Pulmonary Physician, TTC Medical Associates, Tarpon Springs, FL
1994-1996	Yiju Zhao, MD, PhD (MD, 1982, Zhejiang Medical University, China; PhD, 1989, Peking Union Medical College, China; Postdoctoral Fellow, 1993-94, Medical College of Wisconsin, Milwaukee, WI). <i>Currently:</i> Professor and Deputy Director, Department of Cardiology, Cardiovascular Institute, Chinese Academy of Medical Sciences, Beijing, China
1996-1998	Jian Wang, MD (MD, 1985; Internship and Residency, 1986-88, Inner Mongolia Medical College, China; Postdoctoral Fellow, 1995-96, University of Oxford, U.K.). <i>Currently:</i> Associate Professor, University of Arizona, Tucson, AZ; Professor, Guangzhou Medical College, Guangzhou, China
1997-1999	Alan E. Bakst, MD (MD, 1990; Internship and Residency, 1991-93, University of Witwatersrand, Johannesburg, South Africa; Residency, 1994-97, Albert Einstein Medical Center, New York, NY)
1998-1999	Cynthia A. Soriano, MD (BA, 1990, University of California, Berkeley; MD, 1994; Internship and Residency, 1995-96, University of Maryland, Baltimore)
1998-1999	Eric A. Weiner, MD (BS, 1989, University of Michigan; MD, 1993, University of Colorado School of Medicine, Denver, CO; Internship and Residency, 1993-96, Medical College of Virginia, Richmond, VA)
1998-2010	Oleksandr (Alex) Platoshyn, MS (MS, Shevchenko National University, Kiev, Ukraine; Visiting Scientist, 1996-97, Hungarian Academy of Science, Budapest, Hungary). <i>Currently:</i> Research Associate, University of California, San Diego, CA
1999-2000	Colleen L. Channick, MD (BS, BA, 1991, University of California, San Diego; MD, 1996, Harvard Medical School, Boston, MA; Internship and Residency, 1996-1999, University of California, San Diego, CA). <i>Currently:</i> Professor and Director, UCLA David Geffen School of Medicine, Los Angeles, CA
1999-2000	Daryoush Ekhterae, PhD (BSc, 1982, George Washington University; PhD, 1990, University of Minnesota; Postdoctoral Fellow, 1996-1999, University of Michigan, Ann Arbor). <i>Currently:</i> Assistant Professor, University of Pennsylvania, Philadelphia, PA
1999-2000	Alisa Limsuwan, MD (MD, 1992, Chulalongkorn University, Bangkok, Thailand; Internship and Residency, 1994-1997, Michigan State University). <i>Currently:</i> Professor, Department of Pediatrics (Pediatric Cardiology), Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
1999-2001	Nick H. Kim, MD (AB, 1989, Harvard University; MD, 1994, University of Chicago Pritzker School of Medicine; Internship and Residency, 1994-1998, University of California, San Francisco School of Medicine and University of Chicago Pritzker School of Medicine). <i>Currently:</i> Professor and Director, School of Medicine, University of California, San Diego, CA
1999-2001	Michele A. Sweeney, PhD (BS, 1994; PhD, 1999, University College Dublin, Ireland). <i>Currently:</i> Lecturer, Newcastle University Faculty of Medical Sciences, U.K.
1999-2005	Ying Yu, MD, PhD (MD, 1990, Suzhou Medical College, China; PhD, 1999, Showa University School of Medicine, Tokyo, Japan). <i>Currently:</i> Senior Scientist, Alcon Laboratories Inc., Fort Worth, TX.

- 2001-2003 Ivana Fantozzi, PhD (PhD, 1999, University of Rome, Italy; PhD, 2004, Université De Nice-Sophia Antipolis, France). *Currently*: Postdoctoral Fellow, National Center of Scientific Research at the Center Antoine Lacassagne, Nice, France
- 2001-2005 Shen Zhang, MD, PhD (MD, 1994, Gansu College of Traditional Chinese Medicine, Lanzhou, China; PhD, 2001, Kyoto University, Kyoto, Japan)
- 2001-2005 Mehran Mandegar, MD (BS, 1992, University of California, Los Angeles; MD, 1996, University of Rochester; Internship and Residency, 1997-2000, University of Southern California at Los Angeles (Internal Medicine) and University of Rochester, New York (General Surgery). *Currently*: Attending Physician, Grossmont Hospital, San Diego, CA
- 2001-2009 Carmelle V. Remillard, PhD (BSc 1992, University of Manitoba, Winnipeg, Canada; MSc, 1995; PhD, 2001, University of Montréal, Montréal, Canada). *Currently*: Manager, Scientific Web Content, Scripps Translational Science Institute (STSI), San Diego, CA
- 2002-2004 Elena E. Brevnova, PhD (MS, 1994, Moscow Institute of Engineering Physics, Moscow, Russia; PhD, 1998, Institute of Genetics, Moscow, Russia; Postdoctoral Fellow, 2000-2002, Stanford University School of Medicine, Stanford, CA). *Currently*: Director, Strain Engineering, Evelo Therapeutics, Cambridge, MA
- 2002-2004 Donna T. Tigno, MD (BA, 1991, University of California, Berkeley; MD, 1996, University of California, Davis; Internship and Residency, 1996-2001, University of California, San Francisco) (General Surgery and Internal Medicine). *Currently*: Pulmonary Physician, Bay Area Pulmonary Associates, Oakland, CA
- 2002-2004 Naomi Kunichika, MD (MD, 1990, Okayama University Medical School, Okayama, Japan; Residency, 1991-1994, Okayama University Hospital; Senior Resident, 1994-1996, National Sanyo Hospital, Ube, Japan). *Currently*: Chief, Division of Pulmonology; Director, Department of Medicine, Yamaguchi Red Cross Hospital, Yamaguchi, Japan
- 2002-2006 Judd W. Landsberg, MD (BA, 1992, University of Southern California, Los Angeles; MD, 1996, Yale University School of Medicine, New Haven, CT; Internship and Residency, 1996-2000, Yale-New Haven Hospital, New Haven, CT). *Currently*: Professor, University of California, San Diego, CA; Chief, Pulmonary and Critical Care Medicine, VA San Diego Health Science (VASDHA).
- 2003-2005 Joseph R.H. Mauban, PhD (BA, 1996, Cornell University, Ithaca, NY; MS, 1997; PhD, 2004, University of Maryland, Baltimore). *Currently*: Research Associate and Confocal Core Manager, University of Maryland School of Medicine, Baltimore, MD
- 2005-2006 Minlin Xu, MD (MD, 1986; M.S., 1992, Zhejiang University College of Medicine, Hangzhou, China; Internship, 1985-1986, Peking Union Medical College, Beijing, China; Residency, 1986-1988, Zhejiang University College of Medicine, Hangzhou, China). *Currently*: Research Associate, University of California, Los Angeles, CA
- 2005-2007 Eun A. Ko, PhD (BSc, 1998, MSc, 2000, Cheju National University, Korea; PhD, 2004, Seoul National University College of Medicine, Korea; Postdoctoral Fellow, 2004-2005, Clinical Research Institute of Montréal, Canada). *Currently*: Research Assistant Professor, University of Ulsan College of Medicine, Seoul, South Korea
- 2006-2009 Aiko Ogawa, MD, PhD (MD, 1998, Okayama University Medical School, Okayama, Japan; PhD, 2005, Okayama University Graduate School of Medicine and Dentistry, Okayama, Japan). *Currently*: Assistant Professor, Okayama University Graduate School of Medicine and Dentistry; Director of the Division of Molecular and Cellular Medicine, Department of Clinical Sciences, National Hospital Organization Okayama Medical Center, Okayama, Japan
- 2006-2008 Richard S. Sacks, MD (MD, 1996; Internship, 1997-1998, University of Cape Town Medical School, South Africa; Residency, 2001-2004; Chief Resident, 2004-2005; Albert Einstein School of Medicine, New York, NY)
- 2007-2008 Weijuan Yao, PhD (PhD, 2002, Peking University; Postdoctoral Fellow, 2002-2006, UCSD). *Currently*: Associate Professor, Peking University, Beijing, China

- 2007-2009 Amy L. Firth, PhD (MPharmacol., 2003, Novartis Pharmaceuticals, Basel, Switzerland; PhD, 2006, University of Bath, UK). *Currently*: Assistant Professor, University of Southern California, Los Angeles, CA
- 2010-2011 Hisao Yamamura, PhD (BS, 1997; MS, 1999; PhD, 2002; Postdoctoral Fellowship, 2002-2005, Nagoya City University, Nagoya, Japan; Research Associate, 2005-2009, Nagoya City University). *Currently*: Professor, Nagoya City University, Nagoya, Japan
- 2010-2012 Eun A. Ko, PhD (BSc, 1998, MSc, 2000, Cheju National University, Korea; PhD, 2004, Seoul National University College of Medicine, Korea; Postdoctoral Fellow, 2004-2005, Clinical Research Institute of Montréal, Canada) *Currently*: Research Assistant Professor, University of Nevada, Reno, NE
- 2010-2012 Hae Young Yoo, PhD (BS, 2000, MS, 2004, Yonsei University, Korea; PhD, 2010, Seoul National University, Korea)
- 2011-2012 Aya Yamamura (Hotta), PhD (BS, 2001, Meijo University, Japan; MS, 2003, PhD, 2007, Nagoya City University, Japan). *Currently*: Assistant Professor, School of Pharmacy, Kinjo Gakuin University, Nagoya, Japan.
- 2010-2012 Frank K. Kuhr, PhD (BBA, 1998, St. Norbert College, De Pere, Wisconsin; PhD, 2010, UIC). *Currently*: Director, Medical Affairs, North America at Qiagen.
- 2011-2012 Qiang (Jerry) Guo, MD, PhD (MD, 2001, Nanjing Medical University, China; MS, 2007, PhD, 2015, Soochow University College of Medicine, China). *Currently*: Associate Professor and Vice Chair, Soochow University, Suzhou, China.
- 2011-2012 Jun (Bruce) Wan, MD, PhD (MD, 1998, Jiangxi Medical College, Nanchang, China; MS, 2004, Jiangxi Medical College, Nanchang, China; PhD, 2010, Capital Medical University, Beijing, China). *Currently*: Associate Professor, Capital Medical University, Beijing, China.
- 2010-2013 Adriana M. Zimnicka, PhD (BS/BA, 2000, University of Illinois at Chicago, Chicago, IL; PhD, 2009, University of Illinois at Chicago). *Currently*: Research Assistant Professor, University of Illinois at Chicago.
- 2011-2012 Guillaume Voiriot, MD, PhD (MS, 2008, University of Paris XII; MD, 2010, University of Paris VI; PhD, 2014, University of Paris XII, Paris, France). *Currently*: Assistant Professor, Bichat-Claude Bernard Hospital, Paris, France.
- 2011-2014 Nicole M. Pohl, PhD (BS, 2002, University of Potsdam, Germany; PhD, 2008, Medical College of Wisconsin, Milwaukee, WI; Postdoctoral Fellow, 2008-2010, University of Illinois at Chicago). *Currently*: Instructor, University of Illinois at Chicago.
- 2011-2014 Kimberly A. Smith, PhD (BA, 2001, Illinois Wesleyan University, Bloomington, IL; MS, 2003, Southern Illinois University, Carbondale, IL; PhD, 2011, Northwestern University, Chicago, IL). *Currently*: Research Associate, Northwestern University, Chicago, IL.
- 2012-2013 Premanand Sundivakkam, PhD (BS, 1996; M.S., 1998, University of Madras, India; PhD, 2007, Medical University at Chennai, India; Postdoctoral Fellowship, 2007-2012, University of Illinois at Chicago). *Currently*: Research Assistant Professor, University of Illinois at Chicago, Chicago, IL
- 2012-2014 Dustin R. Fraidenburg, MD (BS, 2005, Michigan State University, East Lansing, MI; MD, 2009, Wayne State University, Detroit, MI; Residency, 2009-2012, University of Illinois at Chicago, Chicago, IL). *Currently*: Assistant Professor, University of Illinois at Chicago, Chicago, IL
- 2012-2014 Haiyang Tang, PhD (BS, 1999, Northwest A & F University, Shanxi, China; MS, 2003, PhD, 2008, Chinese Academy of Sciences, Beijing, China; Postdoctoral Fellowship, 2009-2012, University of Illinois at Chicago). *Currently*: Research Assistant Professor, The University of Arizona, Tucson, AZ
- 2014-2015 Ruby A. Fernandez, PhD (BS, 2010, University of California, Irvine, CA; PhD, 2014, University of Illinois at Chicago, Chicago, IL). *Currently*: Sr. Research Associate, Peregrine Pharmaceuticals, Tustin, CA

2012-2018	Shanshan Song, MD, PhD (MD, 2007, Harbin Medical University, Harbin, China; M.S., 2009, PhD, 2012, Huazhong Science and Technology University, Wuhan, China)
2012-2018	Ramon J. Ayon, PhD (AA, 2004, San Joaquin Delta College, Stockton, CA; BS, 2005; PhD, 2012, University of Nevada, Reno, NV). <i>Currently</i> : Research Instructor, University of Virginia, Charlottesville, VA
2014-2021	Aleksandra Babicheva, PhD (BS, 2006; MS, 2006; PhD, 2010, Astrakhan State Technical University, Astrakhan, Russia).
2017-2018	Amy (Xiaomin) Wu, PhD (BS, 2003, MS, 2006, Nanjing Agricultural University, Nanjing, China; PhD, 2012, Chinese Academy of Sciences, Beijing, China)
2017-2021	Pritesh P. Jain, PhD (BS, 2008, University of Pune, India; MS, 2009, Nottingham Trent University, UK; PhD, 2014, Medical University of Graz, Austria)
2022-2022	Zahra Soroureddin, MD (Diploma, 2010, National Organization for Development of Exceptional Talents, Tehran, Iran; MD, 2019, Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran)

Research Scientists, Visiting Scholars and Junior Faculty Members

2002-2008	Stephen H. Keller, PhD. <i>Currently</i> : Associate Project Scientist, UCSD, La Jolla, CA
2006	Jun Wang, MD, PhD. <i>Currently</i> : Professor, Department of Physiology; Vice Dean, Faculty of Basic Medicine, Capital University of Medical Sciences, Beijing, China
2009	Ling Zhu, MD, PhD. <i>Currently</i> : Associate Professor, Department of Respiratory Medicine, Shandong Provincial Hospital, Jinan, Shandong, China
2011	Kaivan Khavandi, MD (MBChB in Medicine, 2009, University of Manchester, UK)
2012	Moumita S.R. Choudhury, MD (M.B.B.S., 2005, R.G. Kar Medical College of the University of Calcutta, India)
2014-2016	Qing Gu, MD, PhD. <i>Currently</i> : Associate Professor, Department of Cardiopulmonary Medicine, Fuwai Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China
2014-2018	Haiyang Tang, PhD. <i>Currently</i> : Research Assistant Professor, Department of Medicine, The University of Arizona, Tucson, AZ
2015-2017	Kimberly McDermott, PhD. <i>Currently</i> : Research Associate Professor, Department of Medicine, The University of Arizona, Tucson, AZ
2015-2016	Jose F. Ek Vitorin, PhD. <i>Currently</i> : Research Assistant Professor, Department of Physiology, The University of Arizona, Tucson, AZ
2018-2020	Mingmei (Bonnie) Xiong, MD, PhD. <i>Currently</i> : Clinical Instructor and Research Associate, Guangzhou Medical University (Third Affiliated Hospital), Guangzhou, China
2018-2020	Ning Lai, MD, PhD. <i>Currently</i> : Clinical Instructor and Research Associate, Guangzhou Medical University (First Affiliated Hospital), Guangzhou, China
2019-2021	Jifeng (Lucy) Li, MD, PhD. <i>Currently</i> : Associate Professor, Department of Respiratory and Critical Care Medicine, Chaoyang Hospital, Capital Medical University, Beijing, China
2019-2022	Daniela Valdez-Jasso, PhD., FOCUS Program. <i>Currently</i> : Associate Professor, Department of Bioengineering, University of California, San Diego, La Jolla, CA
2021-2022	Aleksandra Babicheva, PhD (BS, 2006; MS, 2006; PhD, 2010, Astrakhan State Technical University, Astrakhan, Russia). <i>Currently</i> : Assistant Project Scientist, UCSD.
2022-2024	Ting Wang, MD, PhD. <i>Currently</i> : Postdoctoral Fellow, University of California, San Diego, La Jolla, CA

Research Assistants and Lab Technicians

1995-1998	Ann M. Aldinger, BS	1998-1999	Jan E. Seiden, BS, MS
1999-2001	Sharon S. McDaniel, BS, MD	2001-2003	Bethany R. Lapp, BS
2003-2003	Nicole Elliott, BS, MS	2004-2007	Ann Nicholson, BS
2010-2012	Amy Zeifman, BS, DO	2012-2014	Abigail Drennan, BS

2014-2015	Krista N. Jacobson, BS, MS	2014-2018	Yali Gu, BS, RN
2015-2017	Arlette G. Cordery, MS	2020-2020	Kiana Pourhashemi, MS

Honors, Awards and Grants to Laboratory Trainees

1998	Alan E. Bakst, MD, Postdoctoral Fellowship, American Lung Association of Maryland
2002	Mehran Mandegar, MD, Postdoctoral Fellowship, American Lung Association
2003	Judd W. Landsberg, MD, Postdoctoral Fellowship, American Lung Association
2003	Ying Yu, MD, PhD, Postdoctoral Fellowship Award, Pulmonary Hypertension Association
2003	Elena B. Brevnova, PhD, Finalist, Cournand & Comroe Young Investigator Award, American Heart Association
2004	Donna Tigno, MD, American Lung Association Fellowship Award (declined)
2004	Elyssa D. Burg, BS, PhD, Honorable Mention, National Science Foundation Predoctoral Fellowship
2005	Ying Yu, MD, PhD, American Heart Association Scientist Development Award
2006	Ying Yu, MD, PhD, Best Abstract Award in Cardiopulmonary & Critical Care Medicine, American Heart Association
2007	Amy L. Firth, PhD, California Institute for Regenerative Medicine (CIRM) Postdoctoral Training Fellowship
2007	Elyssa D. Burg, BS, PhD, American Heart Association Western States Affiliate Predoctoral Fellowship
2007	Elyssa D. Burg, BS, PhD, Physiologist Bursary, The Physiological Society (UK), Life Sciences, 2007
2008	Amy L. Firth, PhD, Travel Award, British Pharmacological Society
2008	Weijuan Yao, PhD, Young Investigator Prize, CTEPH Symposium, Austrian Academy of Science, Vienna, Austria
2009	Amy L. Firth, PhD, Finalist, Cournand & Comroe Young Investigator Prize, American Heart Association
2011	Aiko Ogawa, MD, PhD, Best Abstract Award, International Scientific & Educational Workshop in CTEPH, The Association for Research in CTEPH, University of Cambridge, Cambridge, UK
2012	Kimberly A. Smith, PhD, Finalist, Cournand & Comroe Young Investigator Prize, American Heart Association
2012	Ramon J. Ayon, PhD, FASEB MARC Program Travel Award, Federation of American Societies for Experimental Biology
2012	Ruby A. Fernandez, PhD, Predoctoral Translational Research Program Award, Center for Clinical and Translational Science, University of Illinois at Chicago
2013	Kimberly A. Smith, PhD, Postdoctoral Fellowship, American Heart Association Midwest Affiliate
2013	Haiyang Tang, PhD, 2013 CSCR Trainee Travel Award, Central Society for Clinical and Translational Research
2013	Julie Eisenberg, MD, Craig Fellowship, College of Medicine, University of Illinois at Chicago
2013	Dustin R. Fraidenburg, MD, Junior Investigator Travel Award, American Heart Association, Dallas, TX
2013	Ruby A. Fernandez, BS, PhD, Junior Investigator Travel Award, American Heart Association, Dallas, TX
2014	Ruby A. Fernandez, BS, PhD, Science Research Conference Travel Award, Federation of American Societies for Experimental Biology (FASEB), Bethesda, MD
2014	Dustin R. Fraidenburg, MD, ATS Abstract Scholarship Award, ATS
2015	Yali Gu, BS, RN, Trainee Travel Award, Central Society for Clinical and Translational Research

- 2015 Qing Gu, MD, Trainee Travel Award, Central Society for Clinical and Translational Research
- 2015 Haiyang Tang, PhD, Oral Abstract Award and Scholar's Program Award, Central Society for Clinical and Translational Research and Midwestern Section of the American Federation for Medical Research
- 2016 Haiyang Tang, PhD, ENTELLIGENCE Young Investigator Program Award, Actelion Pharmaceuticals US
- 2016 Aleksandra Babicheva, PhD, Postdoctoral Poster Award (1st Place), Arizona Physiological Society (9th Arizona Physiological Society Meeting)
- 2016 Allison Ye, B.S., Poster Award (2nd Place) in Resident Research, American College of Physicians Arizona Chapter Scientific Meeting (November 4-6, 2016)
- 2016 Marisela Rodriguez, Travel Award, 17th Annual Role Models Conference (Washington, D.C.; September 29, 2016)
- 2016 Nadia Ingabire, Poster Award (3rd Place) in Biological Science and Travel Award, National Diversity in STEM Conference with Advancing Chicanos/Hispanic and Native Americans in Science (Long Beach, CA; October 13-15, 2016).
- 2017 Aleksandra Babicheva, PhD, ATS Abstract Scholarship Award, American Thoracic Society
- 2018 Aleksandra Babicheva, PhD, Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award, The American Physiological Society
- 2018 Shane G. Carr, The Barbara A. Horwitz and John M. Horowitz Undergraduate Research Award. American Thoracic Society

EDITORIAL TASKS:

Editor and Associate Editor

- 2000-2003 Associate Editor (2000-2001) and Editor (2001-2003), *Cardiopulmonary and Critical Care Council Newsletter*, American Heart Association
- 2008-2020 Associate Editor, *American Journal of Physiology Cell Physiology*
- 2010-2011 Section Editor: *Drug Discovery Today: Disease Models*. Special Topic on "Animal Models for Pulmonary Vascular Disease"
- 2010- Editor-in-Chief, *Pulmonary Circulation*
- 2013-2014 Section Editor: Vascular Diseases of the Lung in "*PanVascular Medicine*" (2nd edition; ed. P. Lanzer, Springer: Berlin, Germany, 2013)
- 2014-2017 Deputy Editor, *American Journal of Physiology Cell Physiology*

Editorial Board

- 2000-2010 Editorial Board Member, *Respiratory Research*
- 2001-2016 Editorial Board Member (Oversea), *Basic & Clinical Medicine*
- 2003- Editorial Board Member, *American Journal of Physiology Lung Cellular and Molecular Physiology*
- 2007-2009 Editorial Board Member, *Clinical Medicine: Circulatory, Respiratory and Pulmonary Medicine*
- 2008-2009 Honorary Editorial Board Member, *Integrated Blood Pressure Control*
- 2009-2012 Editorial Board Member, *Clinical Medicine Insights: Circulatory, Respiratory and Pulmonary Medicine*
- 2011-2016 Editorial Board Member (Oversea), *Acta Physiologica Sinica*
- 2011-2015 Editorial Board Member (Oversea), *Translational Medicine Research*
- 2011-2016 Editorial Board Member, *American Journal of Physiology Heart and Circulatory Physiology*
- 2012- Editorial Board Member, *Circulation Research*
- 2014- Editorial Board Member, *American Journal of Respiratory and Critical Care Medicine*

2023- Editorial Board Member, *Arteriosclerosis, Thrombosis, and Vascular Biology*

Other Editorial Tasks

1984-1985 Editorial Assistant, Gansu Association of Environmental Sciences, Lanzhou, China
 1987-1988 Editorial Assistant, Chinese Association for Physiological Sciences, Beijing, China
 1994- Manuscript Reviewer for more than 80 national and international journals

MAJOR INVITED LECTURESHIPS, SEMINARS AND PRESENTATIONS:

National and International Conferences

National

1992 Invited Speaker, Maryland Thoracic Society Scientific Session and Annual Meeting, Baltimore, Maryland (March 8, 1992)
 1997 Invited Speaker, Symposium on Oxygen Sensing Mechanisms in Mammalian Cells, Experimental Biology '97, New Orleans, LA (April 8, 1997)
 1998 Invited Speaker, Hot Topic Symposium on the Role of Potassium Channels in Hypertension and Conditions of Elevated Vascular Tone, Experimental Biology '98, San Francisco, CA (April 19, 1998)
 1998 Invited Speaker, ATS Workshop on Airway and Pulmonary Vascular Smooth Muscle Function in Health and Disease, Sundance, Utah (October 31, 1998)
 2000 Invited Speaker, Oxygen-Sensitive Ion Channels and Second Messengers Session, Experimental Biology 2000, San Diego, California (April 18, 2000)
 2001 Invited Speaker, 74th Scientific Sessions of the American Heart Association, Anaheim, California (November 11, 2001)
 2002 Invited Speaker, The Fifth International Conference, Pulmonary Hypertension Association, Irvine, California (June 22, 2002)
 2002 Speaker, Early Career Development Program Breakout Session, American Heart Association, Chicago, Illinois (November 16, 2002)
 2002 Invited Speaker, Cardiovascular Seminar, 75th Scientific Sessions of the American Heart Association, Chicago, Illinois (November 17, 2002)
 2003 Invited Speaker, FASEB Summer Conferences: Smooth Muscle, Snowmass, Colorado (July 7, 2003)
 2004 Invited Speaker, Cardiovascular Seminars Section, 77th Scientific Sessions of the American Heart Association, New Orleans, LA (November 08, 2004)
 2006 Invited Speaker, Postgraduate Course, American Thoracic Society International Conference 2006, San Diego, CA (May 19, 2006)
 2006 Invited Speaker, Cardiovascular Seminar, 79th Scientific Sessions (2006) of the American Heart Association, Chicago, IL (November 12, 2006)
 2006 Invited Speaker, Sunday Morning Program, 79th Scientific Sessions (2006) of the American Heart Association, Chicago, IL (November 12, 2006)
 2008 Invited Lecturer, 4th World Symposium on Pulmonary Hypertension, Dana Point, Orange County, CA (February 13-16, 2008).
 2008 Invited Speaker, Featured Topic on Channels and Transporters, Experimental Biology 2008, San Diego, CA (April 8, 1998)
 2008 Speaker, Scientific Symposium – Tyrosine Kinase Inhibition in Pulmonary Arterial Hypertension, American Thoracic Society International Conference 2008, Toronto, Canada (May 21, 2008)
 2009 Invited Speaker, New York Academy of Sciences, New York, NY (March 13, 2009).
 2009 Speaker, Mini Symposium, American Thoracic Society International Conference 2009, San Diego, CA (May 18, 2009)
 2009 Invited Speaker, Pittsburgh International Lung Conference: Spotlight on Pulmonary Hypertension and Pulmonary Vascular Biology, Pittsburgh, PA (October 10, 2009).

- 2011 Chair and Invited Speaker, 2011 NIH-NHLBI Workshop on Pulmonary Embolism and Chronic Thromboembolic Pulmonary Hypertension, Bethesda, MD (July 28-29, 2011).
- 2011 Estelle Grover Lecture, 2011 Grover Conference: Risk Factors in Pulmonary Hypertension: Gender, Sex Hormones, Obesity, Novel Genetic Influences and Risk Factors, Lost Valley Ranch in Sedalia, Denver, CO (September 8, 2011).
- 2011 Invited Speaker, CVS.706: Vascular Smooth Muscle Cell Channelopathies, American Heart Association Scientific Sessions, Orlando, FL (November 14, 2011).
- 2012 Medically Led Session Speaker/Panelist, 10th International Pulmonary Hypertension Conference of PHA, Orlando, FL (June 23, 2012).
- 2012 Invited Speaker, FASEB Science Research Conferences: Smooth Muscle, Snowmass Village, CO (June 26, 2012).
- 2012 Invited Speaker, Sunday Morning Program (SMP. 706): Pathways and Genomics in Pulmonary Arterial Hypertension, American Heart Association Scientific Sessions, Los Angeles, CA (November 4, 2012).
- 2013 Invited Speaker/Panelist, 2013 Chicago Research Network Symposium: *Transgenic Approaches to Cardiovascular Disease: Past, Present, and Future*. Chicago, IL (September 20, 2013)
- 2014 Invited Speaker, CTEPH: State of the Art 2014, A Multidisciplinary Symposium, La Jolla, CA (February 28, 2014)
- 2015 Invited Speaker, The 2nd International Symposium on the Calcium-sensing Receptor, San Diego, CA (March 3, 2015)
- 2015 Invited Speaker, The 3rd Annual US Research Day, New York, NY (December 5, 2015)
- 2015 Speaker, Bayer HealthCare Scientific Advisory Committee Meeting, Whippany, NJ, (December 11, 2015)
- 2017 Kenneth D. Bloch Memorial Lecture in Vascular Biology, American Heart Association Scientific Sessions 2017, American Heart Association (November 13, 2017)
- 2018 Invited Speaker, Third Annual CPGLO (Center for Physiological Genomics of Low Oxygen) Summit, Martin Johnson House, Scripps Institution of Oceanography, La Jolla, CA (April 20, 2018)
- 2018 Robert M. Berne Distinguished Lecture, The American Physiological Society, Experimental Biology Annual Meeting (April 24, 2018)
- 2019 Invited Speaker, FASEB Smooth Muscle Conference, West Palm Beach, CA (July 18, 2019)
- 2019 Invited Speaker, 2019 Grover Conference on the Pulmonary Vasculature in Development, Injury and Repair, Lost Valley Ranch in Sedalia, Denver, CO (September 7, 2019)
- 2020 Awardee Speech, Recognition Awards for Scientific Accomplishments, Respiratory Health Awards, American Thoracic Society 2020 VIRTUAL (August 8, 2020)
- 2021 Plenary Lecturer, Pulmonary Hypertension: Beyond Vasodilators (Chemical Biology Discussion Group), New York Academy of Sciences, (October 12, 2021)

International

- 1998 Invited Speaker, World Symposium on Primary Pulmonary Hypertension 1998, Evian, France (September 6-10, 1998)
- 1998 Invited Speaker, The 20th Scientific Session of the Chinese Association for Physiological Sciences, Lushan, China (September 20-24, 1998)
- 1999 Invited Speaker, International Symposium on New Developments in Smooth Muscle and Endothelial Cell Signalling, Nagoya, Japan (May 17, 1999)
- 2003 Designated Lecturer, Joint Meeting of the Physiological Society and British Pharmacological Society, University of Manchester, U.K. (September 10, 2003)
- 2005 Invited Lecturer, The 78th Annual Meeting of the Japanese Pharmacological Society, Yokohama, Japan (March 23, 2005).

- 2006 Invited Lecturer, The Physiological Society International Workshop on Cardiopulmonary Function in Health and Disease. Charles University, Prague, Czech Republic (September 20-24, 2006).
- 2007 Invited Speaker, Second John Vane Memorial Symposium on Prostacyclin Science and Pulmonary Vascular Disease, The Royal Society, London, U.K. (March 30-31, 2007).
- 2007 Invited Speaker, Life Sciences 2007, British Pharmacological Society, the Biochemical Society and the Physiological Society, Glasgow, U.K. (July 8-12, 2007).
- 2008 Invited Speaker, Chronic Thromboembolic Pulmonary Hypertension 2008: An Interactive and Educational Workshop, Austrian Academy of Sciences, Vienna, Austria (June 7, 2008).
- 2008 Invited Speaker, 5th International Symposium of Respiratory Diseases and 16th Congress of the Asia Pacific Assoc. for Respiratory Care, Shanghai, China (November 8, 2008).
- 2009 Invited Speaker, International Conference of Physiological Sciences (*Body Function and Logic of Life*) and the 8th Korea-Japan Joint Symposium on Physiology, The International Union of Physiological Sciences (IUPS), Busan, South Korea (January 16, 2009).
- 2009 Invited Speaker, The International Union of Physiological Sciences (IUPS) Satellite Symposium (Post-genomic Advances in the Physiology of Smooth Muscle), Nagoya, Japan (July 24, 2009).
- 2009 Invited Speaker, XXXVI International Congress of Physiological Sciences (Function of Life: Elements and Integration), International Union of Physiological Sciences (IUPS), Kyoto, Japan (July 29, 2009).
- 2010 Invited Speaker, New Horizons in Calcium Signaling, The Biophysical Society and Peking University, Beijing, China (October 13, 2010)
- 2011 Invited Speaker, 4th PVRI Workshops & Debates, Panama (February 3-6, 2011)
- 2011 Invited Speaker, International Scientific & Educational Workshop in CTEPH, University of Cambridge (Robinson College), Cambridge, UK (June 27-28, 2011)
- 2011 Special Lecturer, The 53rd Anniversary Meeting of the Japan Society of Smooth Muscle Research, Tokyo, Japan (August 3-4, 2011)
- 2011 Special Lecturer, 2011 Suzhou International Clinic Forum, Suzhou, China (November 5, 2011)
- 2012 Invited Speaker, The 10th Annual Retreat of the International Graduate Programme, Molecular Biology and Medicine of the Lung, Universities of Giessen & Marburg Lung Center (UGMLC), Rauscholzhausen, Germany (August 6-8, 2012)
- 2014 Invited Speaker, The 18th International Vascular Biology Meeting, Kyoto, Japan (April 14-17, 2014)
- 2014-17 Invited Speaker, China Heart Congress 2014 (August 7-10), 2015 (August 7) and 2017 (August 12), Beijing, China
- 2014 Invited Speaker, The Joint Meeting of 2nd Annual Congress of Japanese Pulmonary Hypertension Society (JPHS) and 3rd Scientific Meeting of Japanese Pulmonary Circulation Society, Tokyo, Japan (October 3-5, 2014)
- 2015 Invited Speaker, International Symposium of the 88th Annual Meeting of The Japanese Pharmacological Society, Nagoya, Japan (March 17, 2015)
- 2015 Invited Speaker, The 88th Annual Meeting of The Japanese Pharmacological Society, Nagoya, Japan (March 18-20, 2015)
- 2015 Invited Speaker, 2015 Grover Conference on the Pulmonary Circulation, Lost Valley Ranch in Sedalia, Denver, CO, (September 10, 2015).
- 2015 Invited Speaker, The 8th National Congress on Pulmonary Embolism and Pulmonary Vascular Disease and the 6th International Symposium on Pulmonary Circulation Disorders, Suzhou, China (April 10, 2016)

- 2018 Invited Speaker, The 2nd Forum of Pulmonary Hypertension at Guangzhou & the 4th South China Pulmonary Vascular Disease Diagnosis and Treatment Seminar, Guangzhou, China (March 31, 2018)
- 2018 Invited Speaker, The 18th World Congress of Basic and Clinical Pharmacology (WCP2018) (Kyoto, Japan; July 5, 2018)
- 2019 Invited Speaker, 13th PVRI Annual World Congress on Pulmonary Vascular Disease, Barcelona, Spain (January 31, 2019)
- 2021 Professor Sheila Glennis Haworth Memorial Lecture and Keynote Lecture, 15th PVRI Annual World Congress on Pulmonary Vascular Disease (February 24, 2021)
- 2022 Invited Lecturer, The 58th Annual Meeting of Japanese Society of Pediatric Cardiology and Cardiac Surgery (Sapporo, Japan; July 22, 2022)

Visiting Professorship and Invited Lecture

National

- 1994 Invited Speaker, The Johns Hopkins University School of Medicine, Baltimore, MD (February 3, 1994)
- 1995 Invited Speaker, Society of Chinese Bioscientists in America, NIH and FDA Chinese American Association, Bethesda, MD (May 20, 1995)
- 1998 Invited Speaker, Department of Physiology and Biophysics, Indiana University School of Medicine, Indianapolis, IN (November 5-6, 1998)
- 2001 Invited Speaker, University of California, Riverside, CA (January 29, 2001)
- 2001 Distinguished Scientist Seminar Speaker, University of South Alabama, Mobile, AL (November 1, 2001)
- 2001 Invited Speaker, Medical College of Wisconsin, Milwaukee, WI (December 6, 2001)
- 2002 Invited Speaker, University of Southern California, Los Angeles, CA (January 4, 2002)
- 2002 Invited Speaker, Dartmouth Medical School, Hanover, NH (November 26, 2002)
- 2002 Invited Speaker, The Johns Hopkins University School of Medicine, Baltimore, MD (December 12, 2002)
- 2003 Invited Speaker, Albany Medical College, Albany, NY (April 2, 2003)
- 2003 Invited Speaker, University of Nevada, Reno, NV (November 20, 2003)
- 2003 Visiting Professor, PHAR 750: Cellular and Molecular mechanisms of Excitability, University of Nevada, Reno, NV (November 19-20, 2003)
- 2004 Invited Speaker, Cardiovascular Research Institute, Morehouse School of Medicine, Atlanta, GA (April 26-27, 2004)
- 2004 Invited Speaker, Northwestern University Feinberg School of Medicine, Chicago, IL (May 6-7, 2004)
- 2005 Invited Lecturer, University of Chicago Pritzker School of Medicine, Chicago, IL (January 13, 2005)
- 2005 Invited Speaker, Texas Tech University Health Sciences Center, Lubbock, TX (February 6, 2005)
- 2005 Visiting Professor and Invited Speaker, Vanderbilt University School of Medicine, Nashville, TN (April 4-6, 2005).
- 2005 Invited Lecturer, Loyola University School of Medicine, Chicago, IL (September 12-14, 2005).
- 2005 Invited Lecturer, University of Arkansas for Medical Sciences, Little Rock, AR (November 1-2, 2005).
- 2006 Invited Lecturer, University of Illinois at Chicago, School of Medicine, Chicago, IL (May 17, 2006).
- 2007 Invited Lecturer, The Feinstein Institute for Medical Research, Long Island Jewish Medical System and Albert Einstein School of Medicine, New York, NY (March 6, 2007).

- 2007 Invited Lecturer, Virginia Commonwealth University School of Medicine, Richmond, VA (July 16, 2007).
- 2009 Invited Speaker, Vascular Medicine Institute of the University of Pittsburgh, Pittsburgh, PA (June 10, 2009)
- 2009 Cardiology Grand Rounds Speaker, Department of Medicine, University of Chicago, Chicago, IL (September 11, 2009)
- 2009 Invited Speaker, Department of Pharmacology and Therapeutics, University of Arkansas for Medical Sciences, Little Rock, AR (November 9, 2009)
- 2009 Pulmonary Medicine Grand Rounds Speaker, Department of Medicine, University of Illinois at Chicago, Chicago, IL (December 7, 2009)
- 2009 Invited Speaker, California Pacific Medical Center Research Institute, San Francisco, CA (December 18, 2009)
- 2010 Invited Speaker, La Jolla Institute for Allergy & Immunology, La Jolla, CA (March 18, 2010)
- 2012 Visiting Professor and Invited Speaker, Department of Molecular Pharmacology & Therapeutics, Stritch School of Medicine, Loyola University Chicago, Maywood, IL (February 22, 2012)
- 2012 Invited Speaker, Department of Systems Biology and Translational Medicine, Texas A&M University College of Medicine, Temple, TX (March 21, 2012)
- 2012 Invited Speaker, Department of Pharmacology, Rush University, Chicago, IL (October 24, 2012)
- 2012 Invited Speaker, Institute for Integrative Physiology and Center for Systems Biology, The University of Chicago, Chicago, IL (November 16, 2012)
- 2012 Invited Speaker, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, AR (December 12, 2012)
- 2013 Invited Speaker, Department of Medicine (Cardiology and Pulmonary, Allergy and Critical Care Medicine) and the Pittsburgh Heart, Lung and Blood Vascular Medicine Institute, Pittsburgh, PA (August 30, 2013)
- 2014 Invited Speaker, Department of Physiology, University of Oklahoma College of Medicine, Oklahoma City, OK (January 23, 2014)
- 2014 Invited Speaker, Department of Pharmacology, New York Medical College, Valhalla, NY (February 19, 2014)
- 2016 Visiting Professor and Invited Speaker, Department of Molecular Physiology and Biological Physics and Robert M. Berne Cardiovascular Research Center, University of Virginia, Charlottesville, VA (September 27-30, 2016)
- 2016 Invited Speaker, School of Medicine, University of Missouri, Columbia, MO (October 3, 2016)
- 2017 Invited Speaker, Cardiovascular Medicine Grand Rounds, University of Louisville, Louisville, KY (January 31-March 1, 2017)
- 2017 Visiting Professor, Department of Anesthesiology, The University of Alabama at Birmingham, Birmingham, AL (February 13-15, 2017)
- 2017 Invited Speaker, Department of Pathology Grand Rounds, Yale University School of Medicine, New Haven, CT (September 28, 2017)
- 2017 Invited Speaker, Aab Cardiovascular Research Institute (CVRI), University of Rochester Medical Center, Rochester, NY (October 18, 2017)
- 2017 Invited Speaker, Department of Cellular & Molecular Physiology, Pennsylvania State University Hershey College of Medicine, Hummelstown, PA (November 7, 2017)
- 2018 Invited Speaker, The Lung Center, Brigham and Women's Hospital, Harvard Medical School, Boston, MA (April 11, 2018)
- 2019 Guest Speaker, Stanley Manne Children's Research Institute, Northwestern University Feinberg School of Medicine, Chicago, IL (September 18, 2019)

- 2020 Invited Speaker, Basic Science Seminar, Loma Linda University School of Medicine, Loma Linda, CA (November 12, 2020)
- 2021 Invited Speaker, Pulmonary Medicine Grand Rounds, Division of Pulmonary and Critical Care Medicine, Miller School of Medicine, University of Miami, Miami, FL (April 22, 2021)
- 2021 Invited Speaker, Distinguished Seminar Series, UCLA Cardiovascular Theme, David Geffen School of Medicine, University of California, Los Angeles, CA (November 8, 2021)
- 2023 Invited Speaker, Carroll Cross Distinguished Professorship Series, Department of Internal Medicine (Division of Pulmonary, Critical Care, and Sleep Medicine), University of California, Davies, CA (May 5, 2023)
- 2024 Invited Speaker/Pulmonary Grand Rounds, Department of Medicine (Division of Pulmonary, Critical Care, and Sleep Medicine), Duke University, Durham, NC (March 22, 2024)

International

- 1993 Invited Speaker, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China (May 23, 1993)
- 1995 Invited Keynote Lecturer, Symposium on Control of the Pulmonary Circulation, University of Oxford, Oxford, England (July 12, 1995)
- 1996 Invited Lecturer, Symposium on Oxygen Regulation of Ion Channels and Gene Expression, Instituto Juan March de Estudios e Investigaciones, Madrid, Spain (November 24, 1996)
- 1998 Invited Lecturer, Chinese University of Hong Kong, China (October 8-9, 1998)
- 1998 Invited Lecturer, Suzhou Medical College, Suzhou, China (October 10-15, 1998)
- 2000 Invited Speaker, National University of Singapore (September 6, 2000)
- 2002 Invited Speaker, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China (March 22, 2002)
- 2002 Invited Speaker, Peking University, Beijing, China (March 29, 2002)
- 2007 Invited Lecturer, International Conference of Thromboembolic Disease, Beijing, China (October 23, 2007).
- 2007 Invited Lecturer, University of Giessen School of Medicine, Giessen, Germany (November 14, 2007).
- 2008 Visiting Professor and Invited Speaker, Imperial College, London, U.K. (July 7-10, 2008)
- 2008 Invited Speaker, Tongji University Shanghai Pulmonary Hospital, Shanghai, China (November 7, 2008)
- 2008 Visiting Professor and Invited Speaker, Capital Medical University Chao-Yang Hospital, Beijing, China (November 11, 2008)
- 2009 Visiting Professor, King's College, London, UK (January 25-31, 2009)
- 2009 Invited Speaker, Imperial College, London, UK (January 30, 2009)
- 2010 Invited Speaker, Guangzhou Medical University, Guangzhou, China (October 18, 2010)
- 2011 Visiting Professor and Invited Speaker, INSERM U999, Hôpital Antoine Bécclère, Université Paris-Sudd 11, Clamart, France (August 24, 2011)
- 2011 Visiting Professor, INSERM U955 and Département de Physiologie-Explorations Fonctionnelles, Hôpital Henri Mondor, Créteil, France (August 25, 2011)
- 2011 Visiting Professor, Soochow University, Suzhou, China (November 4, 2011)
- 2013 Visiting Professor and Invited Speaker, Ludwig Boltzmann Institute for Lung Vascular Research, Medical University of Graz, Graz, Austria (June 4, 2013)
- 2015 Invited Speaker, Division of Cardiology, Lanzhou University First Affiliated Hospital, Lanzhou, China (August 10, 2015)
- 2020 Invited Speaker, 6th Learning Class for Diagnosis and Prevention of Pulmonary Vascular Disease, Guangzhou Medical University, Guangzhou, China (May 16, 2020)

Invited Lecture at Home University***University of California, San Diego (UCSD)***

- 2003 Invited Speaker, Biomedical and Clinical Research Center Seminar, UCSD (April 16, 2003)
- 2004 Speaker, Pulmonary Medicine Grand Rounds, Division of Pulmonary and Critical Care Medicine, Department of Medicine, UCSD (April 15, 2004)
- 2004 Invited Speaker, Physiology Seminar, Division of Physiology, UCSD (October 29, 2004)
- 2005 Invited Speaker, Cardiovascular Research Seminar Series, Division of Cardiology, UCSD (May 27, 2005)
- 2006 Progress of Science in Medicine (PRISM) Lecturer, Department of Medicine, UCSD (February 2, 2006)
- 2006 Invited Speaker, EOG Group Seminar Series, Department of Pediatrics and Department of Molecular Biology, UCSD (February 16, 2006)
- 2006 Pulmonary Medicine Grand Rounds Speaker, Division of Pulmonary and Critical Care Medicine, Department of Medicine, UCSD (April 6, 2006)
- 2006 Invited Speaker, SAM (Scholarly Activity Meeting) Series, Division of Pulmonary and Critical Care Medicine, Department of Medicine, UCSD (November 1, 2006)
- 2006 Pulmonary Medicine Grand Rounds Speaker, Division of Pulmonary and Critical Care Medicine, Department of Medicine, UCSD (November 9, 2006)
- 2006 Invited Speaker, Physiology Seminar, Division of Physiology, UCSD (November 16, 2006)
- 2007 Invited Speaker, SAM (Scholarly Activity Meeting) Series, Division of Pulmonary and Critical Care Medicine, Department of Medicine, UCSD (August 18, 2007)
- 2007 Pulmonary Medicine Grand Rounds Speaker, Division of Pulmonary and Critical Care Medicine, Department of Medicine, UCSD (December 6, 2007)
- 2008 Invited Speaker, Medical Scientist Training Program (MSTP), School of Medicine, UCSD (March 27, 2008)
- 2009 Invited Speaker, RAIS Seminar, Departments of Medicine and Pathology, UCSD (March 31, 2009)
- 2009 Invited Speaker, Physiology Seminar, Division of Physiology, UCSD (April 10, 2009)
- 2009 Invited Speaker, Division of Pulmonary and Critical Care Medicine, UCSD (July 20, 2009)
- 2009 Invited Speaker, Department of Pediatrics, UCSD (December 16, 2009)
- 2010 Invited Speaker, Physiology Division Seminar, UCSD (February 5, 2010)
- 2010 Invited Speaker, Pathology Research Lecture Series (PRLS), UCSD (April 5, 2010)
- 2019 Invited Speaker, Physiological Science Seminar, Section of Physiology, Division of Pulmonary, Critical Care and Sleep Medicine, UCSD (February 6, 2019)
- 2019 Pulmonary Grand Rounds Speaker, Division of Pulmonary, Critical Care and Sleep Medicine, Department of Medicine, UCSD (February 8, 2019)
- 2019 Invited Speaker, Department of Bioengineering Seminar (BNG281), Department of Bioengineering, UCSD (May 24, 2019)
- 2020 Speaker, Coffee Chat Meet-Up, Medical Outreach, Inspire Medicine (December 5, 2020)

University of Illinois at Chicago (UIC), Chicago

- 2010 Invited Speaker, Pulmonary Hypertension Seminar Series, Institute for Personalized Respiratory Medicine, UIC (October 5th, 2010)
- 2011 Invited Speaker, Pulmonary Hypertension Seminar Series, Institute for Personalized Respiratory Medicine, UIC (April 15, 2011)
- 2011 Invited Speaker, Center for Cardiovascular Research, UIC (April 28, 2011)
- 2011 Invited Speaker, Medical Scientist Training Program, College of Medicine, UIC (September 13, 2011)

- 2013 Invited Speaker, Herman P. Gunnar Lecture Series and Cardiovascular Science Symposium, The UIC Center for Cardiovascular Research, UIC (September 10, 2013)
- 2014 Invited Speaker, Department of Biopharmaceutical Sciences, College of Pharmacy, UIC (February 12, 2014)

The University of Arizona (UA), Tucson

- 2014 Invited Speaker, Physiology Special Seminar, Department of Physiology, UA (June 6th, 2014)
- 2015 Invited Speaker, University Animal Center Seminar Series, UA (November 19, 2015)
- 2016 Cardiology Grand Rounds Speaker, Division of Cardiology, Department of Medicine, UA College of Medicine (March 18, 2016)
- 2016 Invited Speaker, The Clinical and Translational Research Seminar Department of Epidemiology and Biostatistics, Mel & Enid Zuckerman College of Public Health, UA (November 2, 2016)
- 2017 Invited Speaker, Research Seminar of the Department of Medicine, College of Medicine, UA (December 14, 2017)

MODERATOR/CHAIR AT SCIENTIFIC CONFERENCES:

- 2001 Moderator, "*Cournand and Comroe Young Investigator Award Competition*," 74th Scientific Sessions of the American Heart Association, Anaheim, CA (November 13, 2001)
- 2002 Facilitator, "*Early Career Development Program*," 75th Scientific Sessions of the American Heart Association, Chicago, IL (November 16, 2002)
- 2002 Moderator, "*Dickinson W. Richards Memorial Lecture and Pulmonary Hypertension: Bench to Bedside*," 75th Scientific Sessions of the American Heart Association, Chicago, IL (November 18, 2002)
- 2003 Discussion Facilitator, "*Pulmonary Vascular Cell Biology Thematic Poster Session*," 99th International Conference of the American Thoracic Society, Seattle, WA (May 21, 2003)
- 2005 Invited Moderator, "*Cardiovascular Seminars - BMP and TGF- β Signaling in Cardiac Development and Pulmonary Vascular Disease*," 78th Scientific Sessions of the American Heart Association, Dallas, TX (November 15, 2005)
- 2006 Chair, "*Poster Discussion Session - Pulmonary Vascular Smooth Muscle Cell Proliferation, Migration and Apoptosis*," American Thoracic Society International Conference 2006, San Diego, CA (May 19-24, 2006)
- 2007 Chair, "*Poster Discussion Session – Kinase Signaling Events in Lung Cell Function and Phenotype*," American Thoracic Society International Conference 2007, San Francisco, CA (May 18-23, 2007)
- 2007 Chair, "*Poster Discussion Session – Clinical Management and Etiological Mechanisms of Pulmonary Embolism and Pulmonary Hypertension*," American Thoracic Society International Conference 2007, San Francisco, CA (May 18-23, 2007)
- 2008 Chair, "*Scientific Symposium – Tyrosine Kinase Inhibition in Pulmonary Arterial Hypertension*," American Thoracic Society International Conference 2008, Toronto, Canada (May 16-21, 2008)
- 2008 Chair: "*Mini Symposium III – Pathogenic Mechanisms*." Chronic Thromboembolic Pulmonary Hypertension 2008: An Interactive and Educational Workshop, Austrian Academy of Sciences, Vienna, Austria (June 6-7, 2008).
- 2008 Chair: "*Ion Channels in the Pulmonary Vasculature*." 2008 Grover Conference on the Pulmonary Circulation (*Membrane Receptors, Channels and Transporters in the Pulmonary Circulation: Role in the Development of Pulmonary Vascular Disease*), Lost Valley Ranch in Sedalia, Denver, CO, (September 4, 2008).
- 2009 Chair: "*Special Lecture 2 (Gating of TRPC and Orai Channels by STIM1)*." International Conference of Physiological Sciences Satellite Symposium (*Body Function and Logic of*

- Life*) and the 8th Korea-Japan Joint Symposium on Physiology, The International Union of Physiological Sciences (IUPS), Busan, South Korea (January 15, 2009).
- 2009 Chair: "*Regulation of Vascular Function by Ion Channels*." Commission II (Circulation & Respiration. XXXVI International Congress of Physiological Sciences (Function of Life: Elements and Integration), International Union of Physiological Sciences (IUPS), Kyoto, Japan (July 29, 2009).
- 2009 Commentator: "*Advances in Pulmonary Hypertension*." 82nd Scientific Sessions of the American Heart Association, Orlando, FL (November 16, 2009).
- 2010 Chair, "*Poster Discussion Session – C105-Endothelial Cells in the Pathogenesis of Pulmonary Arterial Hypertension*," American Thoracic Society International Conference 2010, New Orleans, LA (May 14-19, 2007)
- 2010 Panelist, "*Basic Research in PH*," 9th International Pulmonary Hypertension Conference and Scientific Sessions, Pulmonary Hypertension Association, Garden Grove, CA (June 25-27, 2010)
- 2011 Chair, "*Idiopathic and Heritable Pulmonary Arterial Hypertension (PAH): From Genes to Clinical State*," Physiology InFocus: Molecular and Clinical Physiology in Human Disease, Experimental Biology, Washington, D.C. (April 13, 2011)
- 2011 Chair, "*Emerging Translational Therapies for Pulmonary Hypertension*," American Thoracic Society International Conference 2011, Denver, CO (May 13-18, 2011)
- 2011 Facilitator, "*Pulmonary Hypertension: Experimental Models II*," American Thoracic Society International Conference 2011, Denver, CO (May 13-18, 2011)
- 2011 Co-Chair, "*Basic Mechanisms of CTEPH*," International Scientific & Educational Workshop in CTEPH, Robinson College, University of Cambridge, Cambridge, UK (June 28-29, 2011)
- 2011 Chair and Organizer, Pulmonary Embolism and Chronic Thromboembolic Pulmonary Hypertension Research Workshop, NIH Workshop, Bethesda, MD (July 28-29, 2011).
- 2011 Chair, Session V: 2011 Risk Factors and Responsiveness to Current and Emerging Therapies, 2011 Grover Conference (*Risk Factors in Pulmonary Hypertension: Gender, Sex Hormones, Obesity, Novel Genetic Influences and Risk Factors*), Lost Valley Ranch in Sedalia, Denver, CO (September 8-11, 2011).
- 2012 Co-Chair, "*Mini-Symposium – Pulmonary Hypertension: New Insights into Causes and Treatments*," American Thoracic Society International Conference 2012, San Francisco, CA (May 23, 2012)
- 2012 Moderator: *Sunday Morning Program (SMP. 706): Pathways and Genomics in Pulmonary Arterial Hypertension*, American Heart Association Scientific Sessions 2012, Los Angeles, CA (November 4, 2012).
- 2012 Moderator, NHLBI Cell Therapy for Lung Disease Workshop, Bethesda, MD (November 12-14, 2012).
- 2013 Moderator, "*Cardiovascular Seminars (CVS.704) – What Makes the Pulmonary Circulation Unique from the Systemic Circulation?*" American Heart Association Scientific Sessions 2013, Dallas, TX (November 17, 2013)
- 2013 Poster Professor, "*Abstract Poster Session (APS. 723.02) – Pulmonary Hypertension: Pathogenic Mechanisms*," American Heart Association Scientific Sessions 2013, Dallas, TX (November 18, 2013)
- 2014 Lead Facilitator, "*Thematic Poster Session (C55) – Advances in Pulmonary Vascular Cell Biology*," American Thoracic Society 2014 International Conference, San Diego, CA (May 20, 2014)
- 2014 Moderator, "*Dickinson W. Richards Lecture: Frontiers in Pulmonary Hypertension Research*" American Heart Association Scientific Sessions 2014, Chicago, IL (November 18, 2014)

- 2014 Commentator, “*Characteristic of Pulmonary Circulation System: The Vascular Responsiveness and the Right Ventricular Function*,” The Joint Meeting of 2nd Annual Congress of Japanese Pulmonary Hypertension Society (JPHS) and 3rd Scientific Meeting of Japanese Pulmonary Circulation Society, Tokyo, Japan (October 5, 2014)
- 2015 Co-Chair, “*Ancient and Modern Wisdom in Pulmonary Vascular Diseases*,” The PVRI 8th Annual Word Congress on Pulmonary Vascular Disease and the 7th National Congress on Pulmonary Embolism and Pulmonary Vascular Diseases, Guangzhou, China (January 18, 2015)
- 2015 Co-Chair, “*Morphogen Signaling Pathways in Tissue Patterning and Disease Processes*” Symposium Sponsored by Cell and Molecular Physiology Section and AJP-Cell, Experimental Biology 2015, Boston, MA (March 29, 2015)
- 2015 Moderator: “*Systems Biology, Bioinformatics Integration, and the Process of Pulling it all Together for Cardiopulmonary Diseases*” 2015 Grover Conference on the Pulmonary Circulation (*The “omics” era: New Insights into Pathogenesis*), Lost Valley Ranch in Sedalia, Denver, CO, (September 10, 2015).
- 2015 Abstract Oral Presentation Moderator, “*Genetic Basis of Pulmonary Hypertension*,” American Heart Association Scientific Sessions 2015, Orlando, FL (November 9, 2015)
- 2015 Section Panelist: “*PAH Research in 2016: Open Forum*,” The 3rd Annual US Research Day, New York, NY (December 5, 2015)
- 2016 Moderator, Cardiovascular Seminar (VA.CVS.281): “*Hot Therapeutic Targets for Pulmonary Vascular Disease*,” American Heart Association Scientific Sessions 2016, New Orleans, LA (November 15, 2016)
- 2018 Chair, Symposium 57: “*Therapeutic Strategy to Enhance Intrinsic Resistance in Cardiovascular System*,” The 18th World Congress of Basic and Clinical Pharmacology (WCP2018), Kyoto, Japan (July 1-6, 2018)
- 2018 Mentor Shark, “*3CPR: Shark Tank Style*,” Scientific Sessions of the American Heart Association, Chicago, IL (November 11, 2018)
- 2018 Moderator, “*Late-Breaking Basic Science Oral Abstracts*,” Scientific Sessions of the American Heart Association, Chicago, IL (November 12, 2018)
- 2019 Facilitator, “*Thematic Poster Session (C50) – The Perfect Drug: Experimental Treatments of PAH*,” American Thoracic Society 2019 International Conference, Dallas, TX (May 21, 2019)
- 2021 Moderator, “*Mini Symposium (B005): Here Comes the Sun - Basic and Translational Advances in Pulmonary Hypertension: Lessons from Best Abstracts*,” American Thoracic Society 2021 International Conference (Virtual, May 17, 2021)
- 2022 Leader, “*Ionic Remodeling in Cardiovascular Disease*,” UC Davies CV Symposium: Cell Diversity in the Cardiovascular System, Cell-autonomous and Cell-Cell Signaling (Davis, CA, March 25-26, 2022)

HONORARY PROFESSORSHIP AND DIRECTORSHIP:

- 1998-2003 Visiting Professor, Suzhou-Hong Kong Institute of Traditional Chinese Medicine, Suzhou Medical College, Suzhou, China
- 1999-2004 Visiting Professor, The Fourth Military Medical University (FMMU), Xi'an, China
- 2002-2007 Visiting Professor, Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences (CAMS) and Faculty of Basic Medical Sciences, Peking Union Medical College (PUMC), Beijing, China
- 2008-2013 Visiting Professor, Capital Medical University Chao-Yang Hospital, Beijing, China
- 2009-2013 Visiting Professor, Capital Medical University, Beijing, China
- 2011-2016 Research Director (Abroad), Division of Respiratory and Critical Care Medicine, Soochow University First Affiliated Hospital, Suzhou, China

GRANT SUPPORT:**Previous Grants**

- 1990-1992 American Heart Association Fellowship: "Mechanism of Hypoxia-induced Pulmonary Vasoconstriction." Total direct cost: \$41,500; Principal Investigator, X.-J. Yuan
- 1993-1995 American Heart Association Grant-in-Aid: "Effects of Hypoxia on K⁺ Channels in Pulmonary and Mesenteric Arterial Cells." Total direct cost: \$44,000; Principal Investigator, X.-J. Yuan
- 1994-1995 University of Maryland School of Medicine Special Research Initiative Support Grant: "Effect of Oxidative Phosphorylation on Ca²⁺-activated and Voltage-gated K⁺ Channels in Pulmonary and Mesenteric Arterial Cells." Total direct cost: \$15,000; Principal investigator, X.-J. Yuan
- 1994-1997 Parker B. Francis Fellowship: "Role of Ionic Channels in Hypoxic Pulmonary Vasoconstriction". Total direct cost: \$108,000; Principal Investigator, X.-J. Yuan
- 1995-1996 Giles F. Filley Memorial Award, American Physiological Society. Total direct cost: \$12,000; Awardee, X.-J. Yuan
- 1995-2000 NIH FIRST Award (R29 HL 54043-05): "Ion Channels and Pulmonary Vascular Tone". Total direct cost: \$350,000; Principal Investigator, X.-J. Yuan
- 1996-1997 The PPH Cure Foundation grant: "Mechanisms of Vascular Smooth Muscle Dysfunction in Primary Pulmonary Hypertension". Total direct cost: \$110,000, Principal Investigators, L.J. Rubin and X.-J. Yuan
- 1996-1997 The PPH Research Foundation grant: "Dysfunctional Potassium Channels in the Pathogenesis of Primary Pulmonary Hypertension". Total direct cost: \$10,000; Principal Investigators, L.J. Rubin and X.-J. Yuan
- 1996-1998 American Heart Association Grant-in-Aid: "Effects of Nitric Oxide on Ion Channels and Cytosolic Ca²⁺ in Pulmonary Artery Myocytes". Total direct cost: \$66,000; Principal Investigator, X.-J. Yuan
- 1998-2000 American Lung Association of Maryland Fellowship: "Calcium Homeostasis and Primary Pulmonary Hypertension". Total direct cost: \$65,000; Principal Investigator, A.E. Bakst; Co-Investigator and Sponsor, J.X.-J. Yuan
- 1998-2002 American Heart Association Established Investigator Award (974009N): "Mechanisms of Nitric Oxide-mediated Pulmonary Vasodilation". Total direct cost: \$300,000; Principal Investigator, J.X.-J. Yuan
- 1999-2004 NIH-NHLBI (1R01 HL 64945-01): "Cellular Mechanisms of PPH: Role of K⁺ Channels". Total direct cost: \$1,139,343; Principal Investigator, J.X.-J. Yuan
- 2000-2004 VA Merit Review Grant: "Regulation of Polyamine-dependent Intestinal Epithelial Restitution". Total direct cost: \$660,000; Principal Investigator, J.-Y. Wang; Co-investigator, J.X.-J. Yuan
- 2002-2004 American Lung Association Fellowship: "Role of Tandem Pore K⁺ Channels in Primary Pulmonary Hypertension." Total direct cost: \$100,000; Principal Investigator, M. Mandegar; Co-Investigator and Sponsor, J.X.-J. Yuan
- 2004-2005 American Lung Association Research Fellowship Award: "Novel SNP Discoveries Within Genes Implicated in Primary Pulmonary Hypertension." Total direct cost: \$50,000; Principal Investigator, D. Tigno; Co-Investigator and Sponsor, J.X.-J. Yuan (declined).
- 2000-2005 NIH-NHLBI (2R01 HL 54043-06): "Ion Channels and Pulmonary Vascular Tone". Total direct cost: \$1,050,000; Principal Investigator, J.X.-J. Yuan
- 2003-2005 American Lung Association Research Fellowship Award: "Effects of Nitric Oxide and Prostacyclin on TRPC6 Gene Expression." Total direct cost: \$50,000; Principal Investigator, J.W. Landsberg; Co-Investigator and Sponsor, J.X.-J. Yuan
- 2003-2005 Pulmonary Hypertension Association Postdoctoral Fellowship Award (0325753H): "Roles of TRPC6 Channel in Pulmonary Artery Smooth Muscle Cell Proliferation and Primary

- Pulmonary Hypertension.” Total direct cost: \$70,000; Principal Investigator, Y. Yu; Co-Investigator and Sponsor, J.X.-J. Yuan
- 2001-2005 NIH-NHLBI (1U01 HL69758-01): “Autonomic Pharmacodynamic Pharmacogenomics.” (Principal Investigator, D.T. O’Connor; Total direct cost, \$8,347,958)
Project 1: “Pulmonary Vascular Responses in Primary Pulmonary Hypertension.” Total direct cost: \$610,349. Project Directors, L.J. Rubin and J.X.-J. Yuan
Core D: “Receptors and signal transduction.” Total direct cost: \$721,183. Core Directors, P.A. Insel and P.W. Taylor; Co-investigator, J.X.-J. Yuan
- 2001-2006 NIH-NHLBI (1U01 HL66941-01): “Gene Therapy: Translating Basic Science to the Clinic.” (Principal Investigator, H.K. Hammond; Total direct cost, \$6,400,000)
Project II: “Gene Transfer of Adenylyl Cyclase to Pulmonary Smooth Muscle Cells.” Total direct cost: \$1,000,500; Project Director, P.A. Insel; Collaborator, J.X.-J. Yuan
- 2001-2006 NIH-NHLBI (1R01 HL 66012-01): “Capacitative Ca^{2+} Entry in Pulmonary Myocyte Growth.” Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan
- 2002-2007 NIH-NHLBI (1R01 HL70852-01): “Molecular Mechanisms of Pulmonary Hypertension.” Total direct cost: \$1,000,000; Principal Investigator, P.A. Thistlethwaite; Consultant, J.X.-J. Yuan
- 2005-2007 NIH-NHLBI (1R21 HL080033-01): “SNPs in Idiopathic Pulmonary Arterial Hypertension.” Total direct cost: \$200,000; Principal Investigator, J.X.-J. Yuan
- 2003-2008 NIH-NHLBI (2R01 HL 064945-05): “Cellular Mechanisms of PPH: Role of K^+ Channels.” Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan
- 2008 NIH-NHLBI (R13 HL 092781): “2008 Grover Conference on Pulmonary Circulation.” Total direct cost: \$30,000; Principal Investigator, J.X.-J. Yuan
- 2004-2009 VA Merit Review Grant: “Regulation of Intestinal Epithelial Restitution.” Total direct cost: \$750,000; Principal Investigator, J.-Y. Wang (Baltimore VA Medical Center and University of Maryland at Baltimore); Co-investigator, J.X.-J. Yuan
- 2005-2009 NIH-NHLBI (2R01 HL054043-09): “Ion Channels and Pulmonary Vascular Tone.” Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan
- 2007-2009 American Lung Association of California Research Fellowship Award: “Role of Na/Ca Exchange in the Pathogenesis of Idiopathic Pulmonary Artery Hypertension.” Total direct cost: \$80,000; Principal Investigator, H. Dong; Mentor, J.X.-J. Yuan
- 2007-2009 American Heart Association (Western States Affiliate) Predoctoral Fellowship Award: “T1-Domain Mutations in Kv1.5 and Channel Function: Role in Development of Pulmonary Arterial Hypertension.” Total direct cost: \$43,000; Principal Investigator, E.D. Burg; Supervisor, J.X.-J. Yuan
- 2007-2009 California Institute for Regenerative Medicine (CIRM) Postdoctoral Training Fellowship: “Role of Ion Channels in Stem Cell Pluripotency and Differentiation.” Total direct cost: \$49,000; Principal Investigator, A.L. Firth; Mentor, J.X.-J. Yuan
- 2007-2010 NIH-NHLBI (2P01 HL 046345-16): “Molecular Pathways for Hypertrophy and Cardiomyopathy.” (Principal Investigator, K.U. Knowlton; Total direct cost, \$6,400,000)
Project 3: “Vinculin and Talin in Cardiocyte Integrity and Adhesion.” Total direct cost, \$1,250,000. Project Director, R.S. Ross; Co-investigator, J.X.-J. Yuan
- 2009-2010 NIH-NHLBI (HL12345/HL066012): “NIH Summer Supplement.” Total direct cost: \$16,007; Principal Investigator/Mentor, J.X.-J. Yuan
- 2007-2012 NIH-NHLBI (1R01 HL066012-06): “Capacitative Ca^{2+} Entry and TRP Channels in Thromboembolic Pulmonary Hypertension.” Total direct cost: \$1,250,000; Principal Investigator, J.X.-J. Yuan
- 2008-2013 NIH-NHLBI (1P01 HL0058064): “Cytoskeletal Regulation of Lung Endothelial Cell Pathobiology.” (Principal Investigator, J.G.N. Garcia; Total direct cost, \$11,806,085)
Project 5: “Hepatocyte Growth Factor/c-Met Involvement in Endothelial Cell” Total direct cost, \$1,008,695. Project Leader, J.X.-J. Yuan

- 2012-2014 NIH-NHLBI (5T32 HL 072742 Revised): “Training in Mechanisms of Cardiovascular Diseases.” Total direct cost: \$458,013; Principal Investigator, J.X.-J. Yuan
- 2011-2014 NIH-NHLBI (1P01 HL098050): “Role of Sphingolipids in the Pathobiology of Lung Injury.” (Principal Investigator, V. Natarajan; Total direct cost, \$7,575,005)
Core C: “Pre-Clinical Models of Lung Inflammatory Injury.” Total direct cost: \$769,560. Core Directors, J.X.-J. Yuan and L. Moreno
- 2010-2015 NIH-NHLBI (1P01 HL098053): “Molecular Mechanisms of Hypoxia Tolerance and Susceptibility.” (Principal Investigator, G.G. Haddad; Total direct cost, \$7,394,579)
Project 2: “Cellular and Molecular Mechanisms of Hypoxia-induced Pulmonary Hypertension” Total direct cost, \$1,178,695; Project Leader, J.X.-J. Yuan
- 2012-2017 NIH-NHLBI (1R01 HL115014): “Molecular Mechanisms of Downregulated Kv Channels in IPAH: Role of microRNA.” Total direct cost, \$1,250,000; Principal Investigator, J.X.-J. Yuan
- 2013-2017 NIH-NHLBI (R01 HL 066012): “Ca²⁺ signaling in pulmonary arterial hypertension: Role of CaSR and TRPC6.” Total direct cost: \$1,000,000; Principal Investigator, J.X.-J. Yuan
- 2014-2017 Parker B. Francis Fellowship: “RAGE Regulation of ENaC and Lung Function”. Total direct cost: \$108,000; Principal Investigator, Charles A. Downs; Mentors, J.X.-J. Yuan and Douglas C. Eaton
- 2014-2019 NIH-NHLBI (1U01 HL125208): “Phenomic and Genomic Study to Subphenotype Hispanics with Pulmonary Hypertension.” Total direct cost, \$1,050,000; Principal Investigators (MPI), F.P. Rischard and J.X.-J. Yuan
- 2016-2021 NIH-NHLBI (P01HL134610): “Cytoskeletal Regulation of Lung Endothelial Pathobiology.” (Principal Investigator, J.G.N. Garcia; Total direct cost, \$8,118,838)
Core C: “Core C: Pre-clinical Models of ARDS/VILI” Total direct cost, \$1,229,920; Core Leader, J.X.-J. Yuan
- 2017-2022 NIH-NHLBI (P01HL126609): “Genetics, Epigenetics and Post-translational Modifications in the Development of Ventilator-induced Lung Injury (VII).” (Principal Investigator, S.M. Black; Total direct cost, \$11,693,800)
Core B: “Core B: Pre-clinical Models of Ventilator-induced Lung Injury and Acute Respiratory Distress Syndrome” Total direct cost, \$750,000; Core Leader, J.X.-J. Yuan
- 2016-2024 NIH-NHLBI (R35 HL135807): “Ion Channels and Membrane Receptors in Pulmonary Arterial Hypertension.” Total direct cost, \$3,500,000; Principal Investigator, J.X.-J. Yuan.
- 2021-2023 Bayer PHAB Award: “Pathogenic Mechanisms and Therapeutic Targets of CTEPH.” Total direct cost, \$150,000; Principal Investigator, J.X.-J. Yuan.

Active Grants

- 2024-2031 NIH-NHLBI (1R35 HL171538-01): “Ion Channels and Membrane Receptors in Pulmonary Arterial Hypertension.” Total direct cost, \$4,900,000; Principal Investigator, J.X.-J. Yuan.
- 2012-2025 DOD/CDMRP (W81XWH-21/PRMRP/TTDA): “Novel Therapeutics for Pulmonary Hypertension.” Total direct cost, \$871,509 (Subcontract award); Principal Investigator, J.X.-J. Yuan.
- 2023- NIH-NHLBI (1T32HL166127): “Developing a Diverse Next Generation of Leaders in Respiratory Science.” Total direct cost: \$2,047,130; Program Directors/MPI: A. Malhotra, L. Crotty Alexander, X. Sun, and J.X.-J. Yuan.

Pending Grants

- 2024-2029 NIH-NHLBI (1R01 HL168573-01A1): “Notch-mediated Activation of Calcium Signaling in Pulmonary Hypertension.” Total direct cost, \$3,120,500; Principal Investigator, J.X.-J. Yuan (The application received an impact score of 14 and a percentile score of 1).
- 2023-2028 NIH-NHLBI (R01 HL168869): “Targeting Autophagy in Pulmonary Hypertension.” Total direct cost, \$2,417,154; MPI, J.S. Carew, J.X.-J. Yuan and W. Wang.

2024-2029 NIH-NHLBI (R01 HL169701-01A1): “Endothelial Calcium Signaling and EndMT in Pulmonary Hypertension.” Total direct cost, \$2,195,678; Multi-Principal Investigators, J.X.-J. Yuan and Timothy Spicer.

PARTICIPATING FACULTY MEMBER IN INSTITUTIONAL TRAINING GRANTS:

1996-2001 NIH-NHLBI (5T32 HL 07022-2): “Institutional National Research Service Award.” Total direct cost: \$1,284,530; Program Director: L.J. Rubin, M.D.

2001-2006 NIH-NHLBI (2T32 HL 07212-26): “Physiology Basis of Pulmonary Disease.” Total direct cost: \$953,920; Program Director: P.D. Wagner, M.D.

2004-2009 NIH-NHLBI (1T32 HL 76126-01): “Multidisciplinary Research Training in Lung Biology.” Total direct cost: \$303,113; Program Directors: P.W. Finn, M.D.

2004-2009 NIH-NIGM (T32 GM07752-25): “Graduate Training in Cellular and Molecular Pharmacology.” Total direct cost: \$2,828,313; Program Director: J. Heller-Brown, Ph.D. and P. Taylor, Ph.D.

2005-2010 NIH-NHLBI (2T32 HL 07089-31): “Cardiovascular Engineering Science.” Total direct cost: \$6,672,093; Program Director: S. Chien, M.D.

2006-2011 NIH-NHLBI (T32 HL 07261-16A2): “Training Program in Nephrology.” Total direct cost: \$1,523,970; Program Director: R.C. Blantz, M.D.

2008-2012 NIH-NIGMS: “Mentoring Young Minds to Increase Diversity in Biomedical Research” UCSD Initiative to Maximize Student Diversity (IMSD) Program. Total direct cost: \$2,855,955; Program Director: A. De Maio, Ph.D.

2008-2012 NIH-NIDDK (T32 DK 007202): “Gastroenterology Training Grant.” Total direct cost: \$1,187,800; Program Director: J.M. Carethers, M.D.

2012-2014 NIH-NHLBI (T32 HL 082547A): “Pulmonary and Critical Care Post-Doctoral Training Program.” Total direct cost: \$1,560,910; Program Director: J.W. Christman, M.D.

2010-2014 NIH-NHLBI (5T32 HL 007829): “Training Program in Lung Biology and Pathobiology.” Total direct cost: \$1,260,910; Program Director: A.B. Malik, Ph.D.

2012-2019 NIH-NHLBI (2T32 HL 007249): “Interdisciplinary Training in Cardiovascular Research.” Total direct cost: \$2,612,090; Program Director: J.M. Burt, Ph.D. and C.C. Gregorio, PhD

2016-2019 NIH-NHLBI (2T32 HL 007955): “Cardiovascular Biomedical Engineering Training Grant.” Total direct cost: \$1,799,040; Program Director: J. K. Barton, Ph.D.

2016-2019 NIH-NIGMS (K12 GM000708): “Postdoctoral Excellence in Research and Teaching.” Total direct cost: \$6,544,648; Program Director: N.J. Strausfeld, Ph.D.

2019-2023 NIH-NHLBI (5T32HL134632): “Training in the next generation in respiratory science.” Total direct cost: \$2,105,610; Program Directors: Atul Malhotra, M.D. and Frank L. Powell, Ph.D.

2023-2024 NIH-NHLBI (1T32HL166127): “Developing a Diverse Next Generation of Leaders in Respiratory Science.” Total direct cost: \$2,047,130; Program Directors: Atul Malhotra, Laura Crotty Alexander, M.D., Xin Sun, Ph.D., and Jason X.-J. Yuan, M.D., Ph.D.

PATENT:

1. Inventors: Remillard CV, Rubin LJ, Yu Y, and **Yuan JX-J**. Regulating Expression of Transient Receptor Potential Channel Genes. Patent No.: US 7,964,573 B2; Date of Patent: June 21, 2011.
2. Inventors: Mansour HM, **Yuan JX-J**, Wang J, Gomez AI, Muralidharan P, and Gu Y. Compositions and Methods for Delivering Pharmaceutical Agents. Patent No.: US 11667612. Date of Patent (Issue Date): June 6, 2023.
3. Inventors: Carew J, Nawrocki S, **Yuan JX-J**, and Tang H. Novel Autophagy Inhibitors for the Treatment of Pulmonary Hypertension. U.S. Provisional Patent Application No.: 62/618,853 (Case ID: UA17-239); Filing Date: January 18, 2018; SGR Reference: 062479.001P.

PUBLICATION:

(10 Books, 215 Original Research Articles, 43 Review Articles, 52 Editorials and 53 Book Chapters)
Google Scholar *h*-index, 87; *i10*-index, 316; September 7, 2023.

A. Books

1. Bu, C. (Chief Editor), L. Xin (Associate Editor), S. Han, X. Zhang, X. Wang, X. Liu, Y. Zhang, S. Feng, **X.-J. Yuan**, H. Xia, C. Luo, L. Xiao, G. Chen, and Y. Pan (Compiling Members). *Olympic Complete Words: English-Chinese Classified Pictures*. Hohai University Press (Nanjing, China) and Huayi Publishing House (Beijing, China). Printed in "China Trade and Investment," Hong Kong, 1988 (1,451 pages). ISBN 7-5630-0006-2
2. Bu, C. (Chief Editor), L. Xin (Associate Editor), Y. Li, C. Luo, S. Han, X. Zhang, Y. Zhang, X. Liu, S. Feng, **X.-J. Yuan**, X. Wang, L. Xiao, G. Chen, Z. Li, H. Xia, G. Huang, Y. Pan, and Y. Lin (Compiling Members). *English-Chinese Encyclopedia of Olympic Games with Classified Pictures*. The Publishing House of Ordnance Industry, Beijing, 2001 (1,915 pages). ISBN 7-80132-994-5.
3. **Yuan, J.X.-J.** (ed) *Hypoxic Pulmonary Vasoconstriction: Cellular and Molecular Mechanisms*. Kluwer Academic Publishers, Boston, MA, 2004 (608 pages). ISBN: 978-1-4020-7857-6.
4. **Yuan, J.X.-J.** (ed) *Ion Channels in the Pulmonary Vasculature*. Taylor & Francis Group, Boca Raton, FL, 2005 (832 pages). ISBN-13: 978-0-8247-5968-1.
5. **Yuan, J.X.-J.** and J.P.T. Ward (eds) *Membrane Receptors, Channels, and Transporters in Pulmonary Circulation*. Humana Press-Springer, New York, NY, 2010 (501 pages). ISBN: 978-1-60761-499-9.
6. **Yuan, J.X.-J.**, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer, and J.B. West (eds) *Textbook of Pulmonary Vascular Disease*. Springer, New York, NY, 2011 (1,658 pages, 590 illus., 245 in color). ISBN: 978-0-387-87428-9.
7. Smith, K.A., D.R. Fraidenburg, and **J.X.-J. Yuan** (eds) *Advances in the Management of Pulmonary Arterial Hypertension*. Future Medicine, London, UK, 2013 (123 pages). doi: 10.2217/9781780843094; eISBN (PDF): 978-1-78084-309-4.
8. Firth, A. and **J.X.-J. Yuan** (eds) *Lung Stem Cells in the Epithelium and Vasculature*. Humana Press/Springer Cham Heidelberg New York Dordrecht London, 2015 (345 pages). ISBN: 978-3-319-16231-7 (Print) 978-3-319-16232-4 (Online/eBook)
9. Barrett, K.E., S.M. Barman, H.L. Brooks and **J.X.-J. Yuan**. *Ganong's Review of Medical Physiology* (26th Edition). McGraw Hill/Lange, New York, NY, 2019 (742 pages). ISBN: 978-1-260-56666-6; MHID: 1-260-56666-8.
10. Barrett, K.E., S.M. Barman, H.L. Brooks and **J.X.-J. Yuan**. *Ganong's Review of Medical Physiology Examination & Board Review* (2nd Edition). McGraw Hill/Lange, New York, NY, 2023. In press.

B. Peer-Reviewed Original Research Articles

1. **Yuan, X.-J.** and L.P. Wang. Effects of environmental ionizing radiation on humans. *Environ. Res.* 2:53-57, 1985.
2. **Yuan, X.-J.** Effects of environmental pollutants on human cardiovascular system. *Environ. Res.* 4:67-70, 1987.
3. **Yuan, X.-J.** Effect of angiotensin II on hypoxic pulmonary vasoconstriction. *Physiol. Sci.* 7(6):376-379, 1987.
4. **Yuan, X.-J.** Inhibitory effects of ligustrazine on acute and chronic hypoxic pulmonary hypertension in rats. *Acta Acad. Med. Sinicae* 10(1):31-35, 1988.
5. **Yuan, X.-J.**, L. Zhao and X.X. Deng. Influences of different level of hypoxia on left and right cardiac ventricular function. *Physiol. Sci.* 8(5):370-372, 1988.
6. Xue, Q.F., X.X. Deng, Y.N. Cai, C.H. Li, L. Zhao, **X.-J. Yuan**, R.L. Qiao, W.L. Liu, and X.M. Zhou. Changes in cardiac and respiratory function of Antarctic Research Expedition members-preliminary report. *Proc. Chin. Acad. Med. Sci. Peking Union Med. Coll.* 4(2):112-114; 1989.

7. **Yuan, X.-J.** and Y.N. Cai. Effects of calcium antagonists on pulmonary hypertension during acute hypoxia in rats. *Chin. J. Appl. Physiol.* 5(2):136-141, 1989.
8. **Yuan, X.-J.** and Y.N. Cai. Effect of chronic hypoxia and verapamil on cAMP content in tissues and blood plasma. *Proc. Chin. Acad. Med. Sci. Peking Union Med. Coll.* 4(1):30-33, 1989.
9. **Yuan, X.-J.** The cellular mechanism of hypoxic pulmonary vasoconstriction. *Prog. Physiol. Sci.* 20(4):301-306, 1989.
10. **Yuan, X.-J.**, L. Zhao, X.X. Deng and Y.N. Cai. Changes of pulmonary artery pressure induced by infusion of diamide in rat breathing low oxygen gas mixture. *Chin. J. Physiol. Sci.* 6:286-289, 1990.
11. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. Contrasting effects of hypoxia on tension in rat pulmonary and mesenteric arteries. *Am. J. Physiol.* 259:H281-H289, 1990.
12. Bova, S., W.F. Goldman, **X.-J. Yuan** and M.P. Blaustein. Influence of Na^+ gradient on Ca^{2+} transients and contraction in vascular smooth muscle. *Am. J. Physiol.* 259:H409-H423, 1990.
13. Anderson, D.E., **X.-J. Yuan**, C.-M. Tseng, L.J. Rubin, G.M. Rosen, and M.L. Tod. Nitron spin-traps block calcium channels and induce pulmonary artery relaxation in dependent of free radicals. *Biochem. Biophys. Res. Commun.* 193(3):878-885, 1993.
14. **Yuan, X.-J.**, W.F. Goldman, M.L. Tod, L.J. Rubin and M.P. Blaustein. Ionic currents in rat pulmonary and mesenteric arterial myocytes in primary culture and subculture. *Am. J. Physiol.* 264:L107-L115, 1993. (Most-cited articles of 1992-2002, No. 11 as March 20, 2013)
15. **Yuan, X.-J.**, W.F. Goldman, M.L. Tod, L.J. Rubin and M.P. Blaustein. Hypoxia reduces potassium currents in cultured rat pulmonary but not mesenteric arterial myocytes. *Am. J. Physiol.* 264:L116-L123, 1993.
16. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. Deoxyglucose and reduced glutathione mimic the effects of hypoxia on K^+ and Ca^{2+} conductances in pulmonary artery cells. *Am. J. Physiol.* 267:L52-L63, 1994.
17. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. Inhibition of cytochrome P-450 reduces voltage-gated K^+ currents in pulmonary arterial myocytes. *Am. J. Physiol.* 268:C259-C270, 1995.
18. Bright, R.T., C.G. Salvaterra, L.J. Rubin and **X.-J. Yuan**. Inhibition of glycolysis by 2-DOG increases $[\text{Ca}^{2+}]_i$ in pulmonary arterial smooth muscle cells. *Am. J. Physiol.* 269:L203-L208, 1995.
19. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. Hypoxic and metabolic regulation of voltage-gated K^+ channels in pulmonary artery smooth muscle cells. *Exp. Physiol.* 80:803-813, 1995.
20. **Yuan, X.-J.** Voltage-gated K^+ Currents regulate resting membrane potential and $[\text{Ca}^{2+}]_i$ in pulmonary artery myocytes. *Circ. Res.* 77:370-378, 1995.
21. **Yuan, X.-J.**, T. Sugiyama, W.F. Goldman, L.J. Rubin and M.P. Blaustein. A mitochondrial uncoupler increases K_{Ca} currents but decreases K_{V} currents in pulmonary artery myocytes. *Am. J. Physiol.* 270:C321-C331, 1996.
22. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin and M.P. Blaustein. NO hyperpolarizes pulmonary artery smooth muscle cells and decreases the intracellular Ca^{2+} concentration by activating voltage-gated K^+ channels. *Proc. Natl. Acad. Sci. USA* 93:10489-10494, 1996.
23. Zhao, Y., M.L. Tod, L.J. Rubin and **X.-J. Yuan**. Pulmonary vasoconstrictor effects of prostacyclin in rats: Potential role of thromboxane receptors. *J. Appl. Physiol.* 81(6):2595-2603, 1996.
24. **Yuan, X.-J.**, R.T. Bright, A.M. Aldinger, L.J. Rubin. Nitric oxide inhibits serotonin-induced calcium release in pulmonary artery smooth muscle cells. *Am. J. Physiol.* 272:L44-L50, 1997.
25. Zhao, Y., J. Wang, L.J. Rubin and **X.-J. Yuan**. Inhibition of K_{V} and K_{Ca} channels antagonizes NO-induced relaxation in pulmonary artery. *Am. J. Physiol.* 272:H904-H912, 1997.
26. **Yuan, X.-J.** Role of calcium-activated chloride current in regulating pulmonary vasomotor tone. *Am. J. Physiol.* 272:L959-L968, 1997.
27. Wang, J., M. Juhaszova, L.J. Rubin, and **X.-J. Yuan**. Hypoxia inhibits gene expression of voltage-gated K^+ channel α -subunits in pulmonary artery smooth muscle cells. *J. Clin. Invest.* 100(9): 2347-2353, 1997.

28. Zhao, Y., J. Wang, L.J. Rubin, and **X.-J. Yuan**. Roles of K⁺ and Cl⁻ channels in cAMP-induced pulmonary vasodilation. *Exp. Lung Res.* 24:71-83, 1998.
29. **Yuan, X.-J.**, J. Wang, M. Juhaszova, V.A. Golovina, and L.J. Rubin. Molecular basis and function of voltage-gated K⁺ channels in pulmonary arterial smooth muscle cells. *Am. J. Physiol.* 274:L621-L635, 1998.
30. **Yuan, X.-J.**, J. Wang, M. Juhaszova, S.P. Gaine, and L.J. Rubin. Attenuated K⁺ channel gene transcription in primary pulmonary hypertension. *Lancet.* 351(9104):726-727, 1998.
31. **Yuan, J.X.-J.**, A.M. Aldinger, M. Juhaszova, J. Wang, J.V. Conte, S.P. Gaine, J.B. Orens, and L.J. Rubin. Dysfunctional voltage-gated K⁺ channels in pulmonary artery smooth muscle cells of patients with primary pulmonary hypertension. *Circulation.* 98:1400-1406, 1998.
32. Wang, J., M. Juhaszova, J.V. Conte, Jr., S.P. Gaine, L.J. Rubin, and **J.X.-J. Yuan**. Action of fenfluramine on voltage-gated K⁺ channels in human pulmonary-artery smooth-muscle cells. *Lancet.* 352(9124):290, 1998.
33. Seiden, J.E., O. Platoshyn, A.E. Bakst, S.S. McDaniel, and **J.X.-J. Yuan**. High K⁺-induced membrane depolarization attenuates endothelium-dependent pulmonary vasodilation. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 278:L261-L267, 2000.
34. Wang, J.-Y., J. Wang, V.A. Golovina, L. Li, O. Platoshyn, and **J.X.-J. Yuan**. Role of K⁺ channel expression in polyamine-dependent intestinal epithelial cell migration. *Am.J. Physiol. Cell Physiol.* 278:C303-C314, 2000.
35. Platoshyn, O., V.A. Golovina, C.L. Bailey, A. Limsuwan, S. Krick, M. Juhaszova, J.E. Seiden, L.J. Rubin, and **J.X.-J. Yuan**. Sustained membrane depolarization and pulmonary artery smooth muscle cell proliferation. *Am. J. Physiol. Cell Physiol.* 279:C1540-C1549, 2000.
36. Golovina, V.A., O. Platoshyn, C.L. Bailey, J. Wang, A. Limsuwan, M. Sweeney, L.J. Rubin, and **J.X.-J. Yuan**. Upregulated TRP and enhanced capacitative Ca²⁺ entry in human pulmonary artery myocytes during proliferation. *Am. J. Physiol. Heart Circ. Physiol.* 280:H746-H755, 2001.
37. McDaniel, S.S., O. Platoshyn, J. Wang, Y. Yu, M. Sweeney, S. Krick, L.J. Rubin, and **J.X.-J. Yuan**. Capacitative Ca²⁺ entry in agonist-induced pulmonary vasoconstriction. *Am.J. Physiol. Lung Cell. Mol. Physiol.* 280:L870-L880, 2001. (With an Editorial by Stevens T, Is there a role for store-operated calcium entry in vasoconstriction. *Am.J. Physiol. Lung Cell. Mol. Physiol.* 280:L866-L869, 2001)
38. Platoshyn, O., Y. Yu, V.A. Golovina, S.S. McDaniel, S. Krick, L. Li, J.-Y. Wang, L.J. Rubin, and **J.X.-J. Yuan**. Chronic hypoxia decreases Kv channel expression and function in pulmonary artery myocytes. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 280:L801-L812, 2001.
39. Krick, S., O. Platoshyn, M. Sweeney, H. Kim, and **J.X.-J. Yuan**. Activation of K⁺ channels induces apoptosis in vascular smooth muscle cells. *Am.J. Physiol. Cell Physiol.* 280: C970-C979, 2001.
40. Rao, J.N., L.Li, V.A. Golovina, O. Platoshyn, E.D. Strauch, **J.X.-J. Yuan**, and J.-Y. Wang. Ca²⁺-RhoA signaling pathway required for polyamine-dependent intestinal epithelial cell migration. *Am. J. Physiol. Cell Physiol.* 280:C993-C1007, 2001.
41. Ekhterae, D., O. Platoshyn, S. Krick, Y. Yu, S.S. McDaniel, and **J.X.-J. Yuan**. Bcl-2 decreases voltage-gated K⁺ channel activity and enhances survival in vascular smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 281:C157-C178, 2001.
42. Limsuwan, A., O. Platoshyn, Y. Yu, L.J. Rubin, A. Rothman, and **J.X.-J. Yuan**. Inhibition of K⁺ channel activity in pulmonary artery smooth muscle cells by serum from the patients with pulmonary hypertension secondary to congenital heart diseases. *Pediatr. Res.* 50:23-28, 2001.
43. Krick, S., O. Platoshyn, S.S. McDaniel, L.J. Rubin, and **J.X.-J. Yuan**. Augmented K⁺ currents and mitochondrial membrane depolarization in pulmonary artery myocyte apoptosis. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 281:L887-L894, 2001.
44. McDaniel, S.S., O. Platoshyn, Y. Yu, M. Sweeney, V.A. Miriel, V.A. Golovina, S. Krick, Lapp BR, J.-Y. Wang, and **J.X.-J. Yuan**. Anorexic effect of K⁺ channel blockade in mesenteric arterial smooth muscle and intestinal epithelial cells. *J. Appl. Physiol.* 91:2322-2333, 2001.

45. Yu, Y., O. Platoshyn, J. Zhang, S. Krick, Y. Zhao, L. J. Rubin, A. Rothman, and **J.X.-J. Yuan**. c-Jun decreases voltage-gated K⁺ channel activity in pulmonary artery smooth muscle cells. *Circulation* 104:1557-1563, 2001.
46. Krick, S., O. Platoshyn, M. Sweeney, S.S. McDaniel, S. Zhang, L.J. Rubin, and **J.X.-J. Yuan**. Nitric oxide induces apoptosis by activating K⁺ channels in pulmonary vascular smooth muscle cell. *Am. J. Physiol. Heart Circ. Physiol.* 282:H184-H193, 2002.
47. Rao, J.N., O. Platoshyn, L. Li, X. Guo, V.A. Golovina, **J.X.-J. Yuan**, and J.-Y. Wang. Activation of K⁺ channels and increased migration of differentiated intestinal epithelial cells after wounding. *Am. J. Physiol. Cell Physiol.* 282:C885-C898, 2002.
48. Sweeney, M., S.S. McDaniel, O. Platoshyn, S. Zhang, Y. Yu, B.R. Lapp, Y. Zhao, P.A. Thistlethwaite, and **J.X.-J. Yuan**. Role of capacitative Ca²⁺ entry in bronchial contraction and remodeling. *J. Appl. Physiol.* 92:1594-1602, 2002.
49. Sweeney, M., Y. Yu, O. Platoshyn, S. Zhang, S.S. McDaniel, and **J.X.-J. Yuan**. Inhibition of endogenous TRP1 decreases capacitative Ca²⁺ entry and attenuates pulmonary artery smooth muscle cell growth. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 283:L144-L155, 2002.
50. Platoshyn, O., S. Zhang, S.S. McDaniel, and **J.X.-J. Yuan**. Cytochrome c activates K⁺ channels prior to inducing apoptosis. *Am. J. Physiol. Cell Physiol.* 283:C1298-C1305, 2002.
51. Yu, Y., M. Sweeney, S. Zhang, O. Platoshyn, J. Landsberg, A. Rothman, and **J.X.-J. Yuan**. PDGF stimulates pulmonary vascular smooth muscle cell proliferation by upregulating TRPC6 expression. *Am. J. Physiol. Cell Physiol.* 284:C316-C330, 2003.
52. Ekhterae, D., O. Platoshyn, S. Zhang, C.V. Remillard, and **J.X.-J. Yuan**. Apoptosis repressor with caspase domain inhibits cardiomyocyte apoptosis by reducing K⁺ currents. *Am. J. Physiol. Cell Physiol.* 284:C1405-C1515, 2003.
53. Du, L., C.C. Sullivan, D. Chu, A.J. Cho, M. Kido, P.L. Wolf, **J.X.-J. Yuan**, R. Deutsch, S.W. Jamieson, and P.A. Thistlethwaite. Signaling molecules in nonfamilial pulmonary hypertension. *N. Engl. J. Med.* 348(6):500-509, 2003.
54. Zhang, S., I. Fantozzi, D.D. Tigno, E.S. Yi, O. Platoshyn, P.A. Thistlethwaite, J.M. Kriett, G. Yung, L.J. Rubin, and **J.X.-J. Yuan**. Bone morphogenetic proteins induce apoptosis in human pulmonary vascular smooth muscle cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 285:L740-L754, 2003.
55. Rao, J.N., X. Guo, L. Liu, T. Zou, K. S. Murthy, **J. X.-J. Yuan**, and J.-Y. Wang. Polyamines regulate Rho-kinase and myosin phosphorylation during intestinal epithelial restitution. *Am. J. Physiol. Cell Physiol.* 284:C848-C859, 2003.
56. Fantozzi, I., S. Zhang, O. Platoshyn, C.V. Remillard, R.R. Cowling, and **J.X.-J. Yuan**. Hypoxia increases AP-1 binding activity by enhancing capacitative Ca²⁺ entry in human pulmonary artery endothelial cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 285:L1233-L1245, 2003.
57. Platoshyn, O., C.V. Remillard, I. Fantozzi, M. Mandegar, T.T. Sison, S. Zhang, E. Burg, and **J.X.-J. Yuan**. Diversity of voltage-dependent K⁺ channels in human pulmonary artery smooth muscle cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 287:L226-L238, 2004.
58. Brevnova, E.E., O. Platoshyn, S. Zhang, and **J.X.-J. Yuan**. Overexpression of human *KCN45* increases *I_{K(V)}* and enhances apoptosis. *Am. J. Physiol. Cell Physiol.* 287:C715-C722, 2004.
59. Yu, Y., I. Fantozzi, C.V. Remillard, J.W. Landsberg, N. Kunichika, O. Platoshyn, D.D. Tigno, P.A. Thistlethwaite, L.J. Rubin, and **J.X.-J. Yuan**. Enhanced expression of transient receptor potential channels in idiopathic pulmonary arterial hypertension. *Proc. Natl. Acad. Sci. USA.* 101(8):13861-13866, 2004.
60. Zhang, S., C.V. Remillard, I. Fantozzi, and **J.X.-J. Yuan**. ATP-induced mitogenesis is mediated by CREB-enhanced TRPC4 expression and activity in human pulmonary artery smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 287:C1192-C1201, 2004.
61. Kunichika, N., Y. Yu, C.V. Remillard, O. Platoshyn, S. Zhang, and **J.X.-J. Yuan**. Overexpression of *TRPC1* enhances pulmonary vasoconstriction induced by capacitative Ca²⁺ entry. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 287:L962-L969, 2004.

62. Kunichika, N, J.W. Landsberg, Y. Yu, H. Kunichika, P.A. Thistlethwaite, L.J. Rubin, and **J.X.-J. Yuan**. Bosentan inhibits transient receptor potential channels in human pulmonary vascular myocytes. *Am. J. Respir. Crit. Care Med.* 170:1101-1107, 2004.
63. Tsigelny, I., M. Hotchko, **J.X.-J. Yuan**, and S.H. Keller. Identification of molecular determinants that modulate trafficking of $\Delta F508$ CFTR, the mutant ABC transporter associated with cystic fibrosis. *Cell Biochem. Biophys.* 42(1):41-53, 2005.
64. Zhang, S., **J.X.-J. Yuan**, K.E. Barrett, and H. Dong. Role of $\text{Na}^+/\text{Ca}^{2+}$ exchange in regulating cytosolic Ca^{2+} in cultured human pulmonary artery smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 288; C245-C252, 2005.
65. Laugwitz, K.-L., A. Moretti, J. Lam, P. Gruber, Y. Chen, S. Woodard, L.-Z. Lin, C.-L. Cai, M.M. Lu, M. Reth, O. Platoshyn, **J.X.-J. Yuan**, S. Evans, and K.R. Chien. Postnatal Isl1^+ cardioblasts enter fully differentiated cardiomyocyte lineages. *Nature*. 433:647-653, 2005.
66. Keller, S.H., O. Platoshyn, and **J.X.-J. Yuan**. Long QT syndrome-associated I593R mutation in HERG potassium channel activates ER stress pathways. *Cell Biochem. Biophys.* 43:365-377, 2005.
67. Platoshyn, O., I. Fantozzi, C.V. Remillard, T.T. Sison, and **J.X.-J. Yuan**. Identification of functional voltage-gated Na^+ channels in human pulmonary artery smooth muscle cells. *Pflügers Arch. - Eur. J. Physiol.* 451:380-387, 2005.
68. Iwata, M., R.T. Cowling, D. Gurantz, C. Moore, S. Zhang, **J.X.-J. Yuan**, and B.H. Greenberg. Angiotensin-(1-7) binds to specific receptors on cardiac fibroblasts to initiate antifibrotic and antitrophic effects. *Am. J. Physiol. Heart Circ. Physiol.* 289:H2356-H2363, 2005.
69. Fantozzi, I., W. Huang, J. Zhang, S. Zhang, O. Platoshyn, C.V. Remillard, P.A. Thistlethwaite, and **J.X.-J. Yuan**. Divergent effects of BMP-2 on gene expression in pulmonary artery smooth muscle cells from normal subjects and patients with pulmonary arterial hypertension. *Exp. Lung Res.* 31(8):783-806, 2005.
70. Mauban, J.R.H., K. Wilkinson, C. Schach, and **J.X.-J. Yuan**. Histamine-mediated increases in cytosolic $[\text{Ca}^{2+}]$ involve different mechanisms in human pulmonary artery smooth muscle and endothelial cells. *Am. J. Physiol. Cell Physiol.* 290:C325-C336, 2006.
71. Platoshyn, O., E.E. Brevnova, E.D. Burg, Y. Yu, C.V. Remillard, and **J.X.-J. Yuan**. Acute hypoxia selectively inhibits KCNA5 channels in pulmonary artery smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 290: C907-C916, 2006.
72. Rao, J.N., O. Platoshyn, V.A. Golovina, L. Liu, T. Zou, B.S. Marasa, D.J. Turner, **J.X.-J. Yuan**, and J.-Y. Wang. TRPC1 functions as a store-operated Ca^{2+} channel in intestinal epithelial cells and regulates early mucosal restitution after wounding. *Am. J. Physiol. Gastrointest. Liver Physiol.* 290:G782-G792, 2006.
73. Fantozzi, I., O. Platoshyn, A.H. Wong, O. V. Petruskine, S. Zhang, C.V. Remillard, M.R. Furtado, and **J.X.-J. Yuan**. Bone morphogenetic protein-2 upregulates expression and function of voltage-gated K^+ channels in human pulmonary artery smooth muscle cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 291:L994-L1004, 2006.
74. Tsigelny, I.F., P. Bar-On, Y. Sharikov, L. Crews, M. Hashimoto, M.A. Miller, S.H. Keller, O. Platoshyn, **J.X.-J. Yuan**, and E. Masliah. Dynamics of α -synuclein aggregation and inhibition of pore-like oligomer development by β -synuclein. *FEBS J.* 274(7):1862-1877, 2007.
75. Murray, F., H.H. Patel, R.Y. Suda, S. Zhang, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Expression and activity of cAMP phosphodiesterase isoforms in pulmonary artery smooth muscle cells from patients with pulmonary hypertension: Role for PDE1. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 292(1):L294-L303, 2007.
76. Schach, C., M. Xu, O. Platoshyn, S.H. Keller, and **J.X.-J. Yuan**. Thiol oxidation causes pulmonary vasodilation by activating K^+ channels and inhibiting store-operated Ca^{2+} channels. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 292(3):L685-L698, 2007.
77. Zhang, S., H.H. Patel, F. Murray, C.V. Remillard, C. Schach, P.A. Thistlethwaite, P.A. Insel, and **J.X.-J. Yuan**. Pulmonary artery smooth muscle cells from normal subjects and IPAH patients show

- divergent cAMP-mediated effect on TRPC expression and capacitative Ca^{2+} entry. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 292(5):L1202-L1210, 2007.
78. Zhang, S., H. Dong, L.J. Rubin, and **J.X.-J. Yuan**. Upregulation of $\text{Na}^+/\text{Ca}^{2+}$ exchanger contributes to the enhanced Ca^{2+} entry in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *Am. J. Physiol. Cell Physiol.* 292(6):C2297-C2305, 2007.
 79. Remillard, C.V., D.D. Tigno, O. Platoshyn, E.D. Burg, E.E. Brevnova, D. Conger, A. Nicholson, B.K. Rana, R.N. Channick, L.J. Rubin, D.T. O'Connor, and **J.X.-J. Yuan**. Function of Kv1.5 channels and genetic variations of *KCN45* in patients with idiopathic pulmonary arterial hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 292(5):C1837-C1853, 2007.
 80. Patel, H.H., S. Zhang, F. Murray, R.Y.S. Suda, B.P. Head, J.S. Swaney, I.R. Niesman, R.T. Schermuly, S. Pullamsetti, P.A. Thistlethwaite, A. Miyanohara, M.G. Farquhar, **J.X.-J. Yuan**, and P.A. Insel. Increased smooth muscle caveolin-1 and caveolae expression contribute to the pathophysiology of idiopathic pulmonary arterial hypertension. *FASEB J.* 21:2970-2979, 2007.
 81. Yu, Y.I., O. Platoshyn, O. Safrina, I. Tsigelny, **J.X.-J. Yuan**, and S.H. Keller. Cystic fibrosis transmembrane conductance regulator (CFTR) functionality is dependent on coatamer protein I (COPI). *Biol. Cell.* 99(8):433-444, 2007.
 82. Platoshyn, O., Y. Yu, C.V. Remillard, and **J.X.-J. Yuan**. Heterogeneity of acute hypoxia-induced decrease in $I_{K(V)}$ and increase in $[\text{Ca}^{2+}]_{\text{cyt}}$ in human pulmonary artery smooth muscle cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 293(2):L402-L416, 2007.
 83. Ko, E.A., E.D. Burg, O. Platoshyn, J. Msefya, A.L. Firth, and **J.X.-J. Yuan**. Functional characterization of voltage-gated K^+ channels in mouse pulmonary artery smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 293:C928-C937, 2007.
 84. Wu, W., O. Platoshyn, A.L. Firth, and **J.X.-J. Yuan**. Hypoxia divergently regulates production of reactive oxygen species in human pulmonary and coronary artery smooth muscle cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 293(4):L952-L959, 2007.
 85. Tang, T., M.H. Gao, N.C. Lai, A.L. Firth, T. Takahashi, T. Guo, **J.X.-J. Yuan**, D.M. Roth, and H.K. Hammond. Adenylyl cyclase type 6 deletion decreases left ventricular function via impaired calcium handling. *Circulation.* 117:61-69, 2008.
 86. Xu, M., O. Platoshyn, A. Makino, W.H. Dillmann, K. Akassoglou, C.V. Remillard, and **J.X.-J. Yuan**. Characterization of agonist-induced vasoconstriction in mouse pulmonary artery. *Am. J. Physiol. Heart Circ. Physiol.* 294:H220-H228, 2008.
 87. Schach, C., A.L. Firth, M. Xu, C.V. Remillard, H.H. Patel, P.A. Insel, and **J.X.-J. Yuan**. Regulation of pulmonary vasoconstriction by agonists and caveolae. *Exp. Lung Res.* 34:195-208, 2008.
 88. Remillard, C.V. and **J.X.-J. Yuan**. Characterization of hemodynamics in patients with idiopathic and thromboembolic pulmonary hypertension. *Clin Med Circ Respir Pul Med.* 2:59-68, 2008.
 89. Makino, A. O. Platoshyn, J. Suarez, **J.X.-J. Yuan**, and W.H. Dillmann. Downregulation of connexin40 is associated with coronary endothelial cell dysfunction in streptozotocin-induced diabetic mice. *Am. J. Physiol. Cell Physiol.* 295:C221-C230, 2008.
 90. Xu, M., B. Sachs, C.V. Remillard, A. Makino, W.H. Dillmann, K. Akassoglou, and **J.X.-J. Yuan**. p75 neurotrophin receptor regulates agonist-induced pulmonary vasoconstriction. *Am. J. Physiol. Heart Circ. Physiol.* 295:H1529-H1538, 2008.
 91. Ogawa, A., A.L. Firth, W. Yao, L.J. Rubin, and **J.X.-J. Yuan**. Prednisolone inhibits PDGF-induced nuclear translocation of NF- κ B in human pulmonary artery smooth muscle cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 295:L648-L657, 2008.
 92. Tsigelny, I.F., L. Crews, G.M. Shaked, Y. Sharikov, H. Mizuno, B. Spencer, E. Rockenstein, M. Trejo, O. Platoshyn, **J.X.-J. Yuan**, and E. Masliah. Mechanisms of hybrid oligomer formation in the pathogenesis of combined Alzheimer's and Parkinson's diseases. *PloS ONE.* 3(9):e3135, 2008.
 93. Sacks, R.S., A.L. Firth, C.V. Remillard, N. Agange, J. Yau, E.A. Ko, and **J.X.-J. Yuan**. Thrombin-induced increases in cytosolic $[\text{Ca}^{2+}]$ involve different mechanisms in human pulmonary artery smooth muscle and endothelial cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 295:L1048-L1055, 2008.

94. Rao, J.N., S.V. Liu, T. Zou, L. Liu, L. Xiao, X. Zhang, E. Bellavance, **J.X.-J. Yuan**, and J.-Y. Wang. Rac1 promotes intestinal epithelial restitution by increasing Ca^{2+} influx through interaction with phospholipase C- γ 1 after wounding. *Am. J. Physiol. Cell Physiol.* 295:C1499-C1509, 2008.
95. Yu, Y., S.H. Keller, C.V. Remillard, O. Safrina, A. Nicholson, S.L. Zhang, W. Jiang, N. Vangala, J.W. Landsberg, J.-Y. Wang, P.A. Thistlethwaite, R.N. Channick, I.M. Robbins, J.E. Loyd, H.A. Ghofrani, F. Grimminger, R.T. Schermuly, M.D. Cahalan, L.J. Rubin, and **J.X.-J. Yuan**. A functional single nucleotide polymorphism in the *TRPC6* gene promoter associated with idiopathic pulmonary arterial hypertension. *Circulation* 119:2313-2322, 2009. (With an Editorial by Hamid R and Newman JH, Evidence for inflammatory signaling in idiopathic pulmonary artery hypertension: TRPC6 and Nuclear Factor- κ B. *Circulation* 119:2297-2298, 2009).
96. Yao, W., A.L. Firth, R.S. Sacks, A. Ogawa, W.R. Auger, P.F. Fedullo, M.M. Madani, N. Sakakibara, G.Y. Lin, P.A. Thistlethwaite, S.W. Jamieson, L.J. Rubin and **J.X.-J. Yuan**. Identification of putative endothelial progenitor cells ($\text{CD34}^+\text{CD133}^+\text{Flk-1}^+$) in endarterectomized tissue of patients with chronic thromboembolic pulmonary hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 296:L870-L878, 2009. (With an Editorial Focus by Majka S and Alvares DF. Neovascular capacity of endothelial progenitor cells in the adult pulmonary circulation. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 296: L868-L869, 2009)
97. Firth, A.L., J. Yau, A. White, P.G. Childs, J.J. Marsh, T.A. Morris, and **J.X.-J. Yuan**. Chronic exposure to fibrin and fibrinogen differentially regulates intracellular Ca^{2+} in human pulmonary artery smooth muscle and endothelial cells. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 296:L979-L986, 2009.
98. Zhao, Y.-Y., Y.D. Zhao, M.K. Mirza, J.H. Huang, H.-H.S.K. Potula, S.M. Vogel, V. Brovkovich, **J.X.-J. Yuan**, J. Wharton, and A.B. Malik. Persistent eNOS activation secondary to caveolin-1 deficiency induces pulmonary hypertension in mice and humans through PKG nitration. *J. Clin. Invest.* 119:2009-2018, 2009.
99. Li, X., X. Zhang, R. Leathers, A. Makino, C. Huang, P. Parsa, J. Macias, **J.X.-J. Yuan**, S.W. Jamieson, and P.A. Thistlethwaite. Notch3 signaling promotes the development of pulmonary arterial hypertension. *Nat. Med.* 15(11):1289-1297, 2009.
100. Ogawa, A., A.L. Firth, W. Yao, M.M. Madani, K.M. Kerr, W.R. Auger, S.W. Jamieson, L.J. Rubin, P.A. Thistlethwaite, and **J.X.-J. Yuan**. Inhibition of mTOR attenuates store-operated Ca^{2+} entry in cells isolated from endarterectomized tissues of patients with chronic thromboembolic pulmonary hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 297:L666-L676, 2009.
101. Burg, E.D., O. Platoshyn, I.F. Tsigelny, B. Lozano-Ruiz, B.K. Rana and **J.X.-J. Yuan**. Tetramerization domain mutations in KCNA5 affect channel kinetics and cause abnormal trafficking patterns. *Am. J. Physiol. Cell Physiol.* 298:C496-C509, 2010.
102. Firth, A.L., W. Yao, C.V. Remillard, A. Ogawa, and **J.X.-J. Yuan**. Upregulation of Oct-4 isoforms in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 298:L548-L557, 2010.
103. Firth, A.L., W. Yao, A. Ogawa, M.M. Madani, G.L. Lin, and **J.X.-J. Yuan**. Multipotent mesenchymal progenitor cells are present in endarterectomized tissues from patients with chronic thromboembolic pulmonary hypertension. *Am. J. Physiol. Cell Physiol.* 298:C1217-C1225, 2010.
104. Kuang, T, J. Wang, B. Pang, X. Huang, E.D. Burg, **J.X.-J. Yuan**, and C. Wang C. Combination of sildenafil and simvastatin ameliorates monocrotaline-induced pulmonary hypertension in rats. *Pulm. Pharmacol. Ther.* 23(5):456-464, 2010.
105. Gao, M.H., T. Tang, N.C. Lai, A. Miyanohara, T. Guo, R. Tang, A.L. Firth, **J.X.-J. Yuan**, and H.K. Hammond. Beneficial effects of adenylyl cyclase type 6 (AC6) expression persist using a catalytically inactive AC6 mutant. *Mol. Pharmacol.* 79(3):381-388, 2011.
106. Sugano, Y., N.C. Lai, M.H. Gao, A.L. Firth, **J.X.-J. Yuan**, W.Y.W. Lew, and H.K. Hammond. Activated expression of cardiac adenylyl cyclase 6 reduces dilation and dysfunction of the pressure-overloaded heart. *Biochem. Biophys. Res. Commun.* 405(3):349-355, 2011.

107. Song, M.Y., A. Makino, and **J.X.-J. Yuan**. STIM2 contributes to enhanced store-operated Ca^{2+} entry in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *Pulm. Circ.* 1(1):84-94, 2011.
108. Kuang, T., J. Wang, A. Zeifman, B. Pang, X. Huang, E.D. Burg, **J.X.-J. Yuan**, and C. Wang. Combination use of sildenafil and simvastatin increases BMPR-II signal transduction in rats with monocrotaline-mediated pulmonary hypertension. *Pulm. Circ.* 1:116-119, 2011.
109. Tang, T., H.K. Hammond, A.L. Firth, Y. Yang, M.H. Gao, **J.X.-J. Yuan**, N.C. Lai. Adenylyl cyclase 6 improves calcium uptake and left ventricular function in aged hearts. *J. Am. Coll. Cardiol.* 57(18):1846-1855, 2011.
110. Yamamura, A., H. Yamamura, A. Zeifman, and **J.X.-J. Yuan**. Activity of Ca^{2+} -activated Cl^- channels contributes to regulating receptor- and store-operated Ca^{2+} entry in human pulmonary artery smooth muscle cells. *Pulm. Circ.* 2:269-279, 2011.
111. Guo, Q., J. Jin, **J.X.-J. Yuan**, A. Zeifman, J. Chen, B. Shen, and J. Huang. VEGF, Bcl-2 and Bad regulated by angiopoietin-1 in oleic acid induced acute lung injury. *Biochem. Biophys. Res. Commun.* 413(4):630-636, 2011.
112. Yao, W., W. Mu, A. Zeifman, M. Lofti, C.V. Remillard, A. Makino, D.L. Perkins, J.G.N. Garcia, **J.X.-J. Yuan**, and W. Zhang. Fenfluramine-induced gene dysregulation in human pulmonary artery smooth muscle and endothelial cells. *Pulm. Circ.* 1(3):405-418, 2011.
113. Ogawa, A., A.L. Firth, K.A. Smith, M.V. Maliakal, and **J.X.-J. Yuan**. PDGF enhances store-operated Ca^{2+} entry by upregulating STIM1/Orai1 via activation of Akt/mTOR in human pulmonary arterial smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 302:C405-C411, 2012.
114. Makino, A. H. Wang, B.T. Scott, **J.X.-J. Yuan**, and W.H. Dillmann. Thyroid hormone receptor α and vascular function. *Am. J. Physiol. Cell Physiol.* 302(9):C1346-C1352, 2012.
115. Zhao, Y.D., L. Cai, M.K. Mirza, X. Huang, D.L. Geenen, F. Hofmann, **J.X.-J. Yuan**, and Y.-Y. Zhao. Protein kinase G-I deficiency induces pulmonary hypertension through Rho A/Rho kinase activation. *Am. J. Pathol.* 180(6):2268-2275, 2012.
116. Yamamura, A., Q. Guo, H. Yamamura, A.M. Zimnicka, N.M. Pohl, K.A. Smith, R.A. Fernandez, A. Zeifman, A. Makino, H. Dong, and **J.X.-J. Yuan**. Enhanced Ca^{2+} -sensing receptor function in pulmonary arterial hypertension. *Circ. Res.* 111:469-481, 2012.
117. Desai, A.A., T. Zhou, H. Ahmad, W. Zhang, W. Mu, S. Trevino, M.S. Wade, N. Raghavachari, G.J. Kato, M.H. Peters-Lawrence, T. Thiruvoipati, K. Turner, N. Artz, Y. Huang, A.R. Patel, **J.X.-J. Yuan**, V.R. Gordeuk, R.M. Lang, J.G.N. Garcia, and R.F. Machado. A novel molecular signature for elevated tricuspid regurgitation velocity in sickle cell disease. *Am. J. Respir. Crit. Care Med.* 186(4):359-368, 2012.
118. Estrada, I.A., R. Donthamsetty, P. Debski, M.-H. Zhou, S.L. Zhang, **J.X.-J. Yuan**, W. Han, and A. Makino. STIM1 restores coronary endothelial function in type1 diabetic mice. *Circ. Res.* 111(9):1166-1175, 2012.
119. Yoo, H.Y., A. Zeifman, E.A. Ko, K.A. Smith, J. Chen, R.F. Machado, Y.-Y. Zhao, R.D. Minshall, and **J.X.-J. Yuan**. Optimization of isolated perfused/ventilated mouse lung to study hypoxic pulmonary vasoconstriction. *Pulm. Circ.* 3(2):396-405, 2013.
120. Yamamura, A., H. Yamamura, Q. Guo, A.M. Zimnicka, J. Wan, E.A. Ko, K.A. Smith, N.M. Pohl, S. Song, A. Zeifman, A. Makino, and **J.X.-J. Yuan**. Dihydropyridine Ca^{2+} channel blockers increase cytosolic $[\text{Ca}^{2+}]$ by activating Ca^{2+} -sensing receptors in pulmonary arterial smooth muscle cells. *Circ. Res.* 112(4):640-650, 2013 (Highlighted in "In This Issue").
121. Ko, E.A., J. Wan, A. Yamamura, A.M. Zimnicka, H. Yamamura, H.Y. Yoo, H. Tang, K.A. Smith, P.C. Sundivakkam, A. Zeifman, R.J. Ayon, A. Makino, and **J.X.-J. Yuan**. Functional characterization of voltage-dependent Ca^{2+} channels in mouse pulmonary artery smooth muscle cells: Divergent effect of ROS. *Am. J. Physiol. Cell Physiol.* 304(11):1042-1052, 2013.
122. Wan, J., A. Yamamura, A. M. Zimnicka, G. Voiriot, K.A. Smith, H. Tang, R.J. Ayon, M.S.R. Choudhury, E.A. Ko, J. Wang, C. Wang, A. Makino, and **J.X.-J. Yuan**. Chronic hypoxia selectively

- enhances L- and T-type voltage-dependent Ca^{2+} channel activity in mouse pulmonary artery by upregulating $\text{Ca}_v1.2$ and $\text{Ca}_v3.2$. *Am. J. Physiol. Lung Cell Mol Physiol.* 305(2):L154-L164, 2013.
123. Chen, J., G. Feng, Q. Guo, J.B. Wardenburg, S. Lin, I. Inoshima, R. Deaton, **J.X.-J. Yuan**, J.G.N. Garcia, R.F. Machado, M. Otto, and R.G. Wunderink. Transcriptional events during the recovery from MRSA lung infection: A mouse pneumonia model. *PLoS One.* 8(8):e70176, 2013.
 124. Ibe, J.C., Q. Zhou, T. Chen, H. Tang, **J.X.-J. Yuan**, J.U. Raj, and G. Zhou. Adenosine monophosphate-activated protein kinase is required for pulmonary artery smooth muscle cell survival and the development of hypoxic pulmonary hypertension. *Am. J. Respir. Cell Mol. Biol.* 49(4):609-618, 2013.
 125. Guo, Q., J.A. Huang, A. Yamamura, H. Yamamura, A.M. Zimnicka, R. Fernandez, and **J.X.-J. Yuan**. Inhibition of the Ca^{2+} -sensing receptor rescues pulmonary hypertension in rats and mice. *Hypertens. Res.* 37(2):116-124, 2013.
 126. Ogawa, A., A.L. Firth, S. Ariyasu, I. Yamadori, H. Matsubara, S. Song, D.R. Fraidenburg, and **J.X.-J. Yuan**. Thrombin-mediated activation of Akt signaling contributes to pulmonary vascular remodeling in pulmonary hypertension. *Physiol. Rep.* 1(7):e00190. doi: 10.1002/phy2.190, 2013.
 127. Wang, L., L.-J. Guo, J. Liu, W. Wang, **J.X.-J. Yuan**, L. Zhao, J. Wang, and C. Wang. MicroRNA expression profile of pulmonary artery smooth muscle cells and the effect of let-7d in chronic thromboembolic pulmonary hypertension. *Pulm. Circ.* 3(3):654-664, 2013.
 128. Zimnicka, A.M., H. Tang, Q. Guo, F.K. Kuhr, M.-J. Oh, J. Wan, J. Chen, K.A. Smith, D.R. Fraidenburg, M.S.R. Choudhry, I. Levitan, R.F. Machado, J.H. Kaplan, and **J.X.-J. Yuan**. Upregulated copper transporters in hypoxia-induced pulmonary hypertension. *PLoS One.* 9(3): e90544. doi:10.1371/journal.pone.0090544, 2014.
 129. Yamamura, H., A. Yamamura, E.A. Ko, N.M. Pohl, K.A. Smith, F.L. Powell, P.A. Thistlethwaite, and **J.X.-J. Yuan**. Activation of Notch signaling by short-term treatment with Jagged-1 enhances store-operated Ca^{2+} entry in human pulmonary artery smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 306(9):C871-878, 2014.
 130. Song, S, A. Yamamura, H. Yamamura, R.J. Ayon, K.A. Smith, H. Tang, A. Makino, and **J.X.-J. Yuan**. Flow shear stress enhances intracellular Ca^{2+} signaling in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. *Am. J. Physiol. Cell Physiol.* 307(4): C373-C383, 2014.
 131. Guo, L, Y. Yang, J. Liu, L. Wang, J. Li, Y. Wang, Y. Liu, Song Gu, H. Gan, J. Cai, **J.X.-J. Yuan**, J. Wang, and C. Wang. Differentially expressed plasma microRNAs and the potential regulatory function of let-7b in chronic thromboembolic pulmonary hypertension. *PLoS ONE* 9(6): e101055, 2014. doi:10.1371/journal.pone.0101055.
 132. Wan, J., **J.X.-J. Yuan**, R. Miao, Z. Zhai, M. Zhang, Y. Yang, J. Wang and C. Wang. Effects of gender on severity and pulmonary artery vascular reactivity in chronic hypoxic pulmonary hypertension in mice. *Zhonghua Yi Xue Za Zhi (Nat. Med. J. China)*, 94(22):1692-1695, 2014.
 133. Lanthan, C., Y. Zhang, J. Chow, M. Singh, G. Lin, V. Nigam, Y.A. Ashraf, **J.X.-J. Yuan**, I. Robbins, and P.A. Thistlethwaite. ERG-APLNR axis controls pulmonary venule endothelial proliferation in pulmonary veno-occlusive disease. *Circulation.* 130(4):1179-1191, 2014.
 134. Chen, J., H. Tang, J.R. Sysol, L. Moreno-Vinasco, K.M. Shioura, T. Chen, I. Gorshkova, L. Wang, L. Huang, P. Usatyuk, S. Sammani, G. Zhou, J.U. Raj, J.G.N. Garcia, E. Berdyshev, **J.X.-J. Yuan**, V. Natarajan, and R.F. Machado. The sphingosine kinase-1/sphingosine-1-phosphate pathway promotes pulmonary vascular remodeling. *Am. J. Respir. Crit. Care Med.* 190(9):1032-1043, 2014.
 135. Tang, H., J. Chen, D.R. Fraidenburg, S. Song, K.A. Smith, A.R. Drennan, S. Offermanns, R.D. Ye, M.G. Bonini, R.D. Minshall, J.G.N. Garcia, R.F. Machado, A. Makino, and **J.X.-J. Yuan**. Deficiency of Akt1, but not Akt2, attenuates the development of pulmonary hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 308(2):L208-L220, 2015.
 136. Chen, T., G. Zhou, Q. Zhou, H. Tang, J.C. Ibe, H. Cheng, D. Gou, J. Chen, **J.X.-J. Yuan**, and J.U. Raj. Loss of miR-17~92 in smooth muscle cells attenuates experimental pulmonary hypertension via induction of PDZ and LIM Domain 5. *Am. J. Respir. Crit. Care Med.* 191(6):678-692, 2015.

137. Fernandez, R.A., J. Wan, S. Song, K.A. Smith, Y. Gu, M. Tauseef, H. Tang, A. Makino, D. Mehta, and **J.X.-J. Yuan**. Upregulated expression of STIM2, TRPC6 and Orai2 contributes to the transition of pulmonary arterial smooth muscle cells from a contractile to proliferative phenotype. *Am. J. Physiol. Cell Physiol.* 308(8):C581-C593, 2015.
138. Smith, K.A., G. Voirit, H. Tang, D.R. Fraidenburg, S. Song, H. Yamamura, Y. Yamamura, Q. Guo, J. Wan, N.M. Pohl, M. Tauseef, R. Bodmer, K. Ocorr, P.A. Thistlethwaite, G.G. Haddad, F.L. Powell, A. Makino, D. Mehta, and **J.X.-J. Yuan**. Notch activation of Ca^{2+} signaling in the development of hypoxic pulmonary vasoconstriction and pulmonary hypertension. *Am. J. Respir. Cell. Mol. Biol.* 53:355-367, 2015.
139. Rafikov, R., X. Sun, O. Rafikova, M. Louise Meadows, A.A. Desai, Z. Khalpey, **J.X.-J. Yuan**, J.R. Fineman, and S. M. Black. Complex I dysfunction underlies the glycolytic switch in pulmonary hypertensive smooth muscle cells. *Redox Biol.* 6:278-286, 2015.
140. Han, Y., Y.-E. Cho, R. Ayon, R. Guo, K.D. Youssef, M. Pan, A. Dai, **J.X.-J. Yuan**, and A. Makino. SGLT inhibitors attenuate NO-dependent vascular relaxation in the pulmonary artery but not in the coronary artery. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 309(9):L1027-L1036, 2015
141. Song, S., K.N. Jacobson, K.M. McDermott, S.P. Reddy, A.E. Cress, H. Tang, S.M. Dudek, S.M. Black, J.G.N. Garcia, A. Makino, and **J.X.-J. Yuan**. ATP promotes cell survival via regulation of cytosolic $[Ca^{2+}]$ and Bcl₂/Bax ratio in lung cancer cells. *Am. J. Physiol. Cell Physiol.* 310:C99-C114, 2016.
142. Rafikova, O., M.L. Meadows, J. Kinchen, R. Mohny, **J.X.-J. Yuan**, J.G.N. Garcia, J.R. Fineman, R. Rafikov, and S.M. Black. Metabolic changes precede the development of pulmonary hypertension in the monocrotaline exposed rat lung. *PLoS ONE*. 11(3):e0150480, 2016.
143. Rafikova, O., R. Rafikov, A. Kangath, N. Qu, S. Aggarwal, S. Sharma, J. Desai, T. Fields, G. Ludewig, **J.X.-J. Yuan**, D. Jonigk, and S.M. Black. Redox regulation of epidermal growth factor receptor signaling during the development of pulmonary hypertension. *Free Radic. Biol. Med.* 95:96-111, 2016.
144. Tang, H., A. Yamamura, H. Yamamura, S. Song, D.R. Fraidenburg, J. Chen, Y. Gu, T. Zhou, L. Jiménez-Peréz, R.J. Ayon, A. Desai, D. Goltzman, F. Rischard, Z. Khalpey, S. M. Black, J.G.N. Garcia, A. Makino, and **J.X.-J. Yuan**. Pathogenic Role of calcium-sensing receptors (CaSR) in the development and progression of pulmonary hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 310(9):L846-L859, 2016.
145. Sun, X., M. Kellner, A.A. Desai, T. Wang, Q. Lu, A. Kangath, N. Qu, C.S. Fratz, **J.X.-J. Yuan**, J.R. Jacobson, J.G.N. Garcia, R. Rafikov, J.R. Fineman and S.M. Black. Asymmetric dimethylarginine stimulates Akt1 phosphorylation via heart shock protein 70-facilitated carboxyl-terminal modulator protein degradation in pulmonary arterial endothelial cells. *Am. J. Respir. Cell. Mol. Biol.* 55(2):275-287, 2016.
146. Jiang, Q., W. Lu, K Yang, C Hadadi, X Fu, Y Chen, X Yun, J Zhang, M Li, L Xu, H. Tang, **J.X.-J. Yuan**, J. Wang and D. Sun. Sodium tanshinone IIA sulfonate inhibits hypoxia-induced enhancement of SOCE in pulmonary arterial smooth muscle cells via the PKG-PPAR γ -TRPC signaling axis. *Am. J. Physiol. Cell Physiol.* 311(1):C136-C149, 2016.
147. Boehme, J., X. Sun, K.V. Tormos, W. Gong, M. Kellner, S.A. Datar, R.J. Kameny, **J.X.-J. Yuan**, G. Raff, S.M. Black, J.R. Fineman, and E. Maltepe. Pulmonary artery smooth muscle cell hyperproliferation and metabolic shift triggered by pulmonary overcirculation. *Am. J. Physiol. Heart Circ. Physiol.* 311:H944-H957, 2016.
148. Chen, T., Q. Zhou, H. Tang, M. Bozkanat, **J.X.-J. Yuan**, J.U. Raj, and G. Zhou. miR-17/20 controls PHD2/HIF1 to regulate PASMC proliferation. *J. Am. Heart Assoc.* 5(12): e004510, 2016
149. Kumar, S., X. Sun, SK Noonepalle, Q Lu, E. Zemskov, T. Wang, S. Aggarwal, C. Gross, S. Sharma, A.A. Desai, Y. Hou, S. Desarathy, N Qu, V. Reddy, S.G. Lee, M. Cherian-Shaw, **J.X.-J. Yuan**, J.D. Catravas, R. Rafikov, J.G.N. Garcia, and S.M. Black. Hyper-activation of pp60Src limits nitric oxide signaling by increasing asymmetric dimethylarginine levels during acute lung injury. *Free Radic. Biol. Med.* 102:217-228, 2017.

150. Song, S., A. Yamamura, H. Yamamura, A. Babicheva, R.J. Ayon, S. Dash, X. Sun, H. Tang, S.M. Black, A. Desai, F. Rischard, K. M. McDermott, A. Makino, and **J.X.-J. Yuan**. Capsaicin-induced Ca^{2+} signaling is enhanced via overexpressed TRPV1 channels in pulmonary arterial smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 312:L309-L325, 2017
151. Chen, J., J.R. Sysol, S. Singla, S. Zhao, A. Yamamura, D. Valdez-Jasso, T. Abbasi, K.M. Shioura, S. Sahni, V. Reddy, A. Sridhar, H. Gao, J. Torres, S.M. Camp, H. Tang, S.Q. Ye, S. Comhair, R. Dweik, P. Hassoun, **J.X.-J. Yuan**, J.G.N. Garcia, and R.F. Machado. Nicotinamide phosphoribosyltransferase promotes pulmonary vascular remodeling and is a therapeutic target in pulmonary arterial hypertension. *Circulation.* 135(16):1532-1546, 2017
152. Vanderpool, R.R., A.A. Desai, S.M. Knapp, M.A. Simon, A. Abidov, **J.X.-J. Yuan**, J.G.N. Garcia, L.M. Hansen, S.R. Knoper, R. Naeije, and F.P. Rischard. How prostacyclin therapy improves right ventricular function in pulmonary arterial hypertension. *Eur. Respir. J.* 50(2):1700764, 2017
153. Hemnes, A.R., G.J. Beck, J.H. Newman, A. Abidov, M.A. Aldred, J. Barnard, E.B. Rosenzweig, B.A. Borlaug, W.K. Chung, S.A.A. Comhair, S.C. Erzurum, R.P. Frantz, M.P. Gray, G. Grunig, P.M. Hassoun, N.S. Hill, E.M. Horn, B. Hu, J.K. Lempel, B.A. Maron, S.C. Mathai, M.A. Olan, F.P. Rischard, D.M. Systrom, W.H.W. Tang, A.B. Waxman, L. Xiao, **J.X.-J. Yuan**, J.A. Leopold, and the PVDOMICS Study Group. PVDOMICS: A multi-center study to improve understanding of pulmonary vascular disease through phenomics. *Circ. Res.* 121(10):1136-1139, 2017
154. Wu, K., Q. Zhang, X. Wu, W. Lu, H. Tang, Z. Liang, Y. Gu, S. Song, R.J. Ayon, Z. Wang, K.M. McDermott, A. Balistrieri, C. Wang, S.M. Black, J.G.N. Garcia, A. Makino, **J.X.-J. Yuan**, and J. Wang. Chloroquine is a potent pulmonary vasodilator that attenuates hypoxia-induced pulmonary hypertension. *Br. J. Pharmacol.* 174(22):4155-4172, 2017
155. Gross, C., M. Kellner, T. Wang, Q. Lu, X. Sun, A. Kangath, E. Zemskov, S. Kumar, A.A. Desai, S. Aggarwal, B. Golchov, C. Klinger, A.D. Verin, J.D. Catravas, J.R. Jacobsen, **J.X.-J. Yuan**, R. Rafikov, J. G.N. Garcia, and S.M. Black. LPS-induced acute lung injury involves the $\text{NH}-\kappa\text{B}$ -mediated downregulation of Sox-18. *Am. J. Respir. Cell Mol. Biol.* 58(5):614-624, 2018.
156. Tang, H.*, A. Babicheva*, K.M. McDermott, Y. Gu, R.J. Ayon, S. Song, Z. Wang, A. Gupta, T. Zhou, X. Sun, S. Dash, Z. Wang, A. Balistrieri, Q. Zheng, A.G. Cordery, A.A. Desai, F. Rischard, Z. Khalpey, J. Wang, S.M. Black, J.G.N. Garcia, A. Makino, and **J.X.-J. Yuan**. Endothelial HIF-2 α contributes to severe pulmonary hypertension due to endothelial-to-mesenchymal transition. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 314:L256-L275, 2018.
157. Song, S., S.G. Carr, K.M. McDermott, M. Rodriguez, A. Babicheva, A. Balistrieri, R.J. Ayon, J. Wang, A. Makino, and **J.X.-J. Yuan**. STIM2-mediated increase in resting $[\text{Ca}^{2+}]_{\text{cyt}}$ stimulates PASMC proliferation in pulmonary arterial hypertension. *Hypertension.* 71:518-529, 2018.
158. He, X., S. Song, R.J. Ayon, A. Balistrieri, S.M. Black, A. Makino, W.G. Wier, W.-J. Zang, and **J.X.-J. Yuan**. Hypoxia selectively upregulates cation channels and increases cytosolic $[\text{Ca}^{2+}]$ in pulmonary, but not coronary, arterial smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 314(4):C504-C517, 2018
159. Whitaker, M.E., V. Nair, S. Sinari, P. Dherange, B. Natarajan, L. Trutter, E.L. Brittain, A.R. Hemnes, E. Austin, K. Patel, S.M. Black, J.G.N. Garcia, **J.X.-J. Yuan**, R. Vanderpool, F. Rischard, A. Makino, E.J. Bedrick, and A.A. Desai. Diabetes mellitus associates with increased right ventricular afterload and remodeling in pulmonary arterial hypertension. *Am. J. Med.* 131:702e7-702e13, 2018.
160. Dai, J., Q. Zhou, H. Tang, T. Chen, J. Li, P. Raychaudhuri, **J.X.-J. Yuan**, and G. Zhou. Smooth muscle cell-specific FoxM1 controls hypoxia-induced pulmonary hypertension. *Cell. Signal.* 102(2):407-416, 2018.
161. Miao, R., J. Wan, J. Liu, **J.X.-J. Yuan**, J. Wang, W. Xie, Z. Zhai and C. Wang. Bone marrow-derived endothelial progenitor cells contributes to monocrotaline-induced pulmonary arterial hypertension in rats via inhibition of store-operated Ca^{2+} channels. *Biomed. Res. Int.* 2018:ID 4892349, 2018.

162. Tang, H. *, K. Wu*, J. Wang, S. Vinjamuri, Y. Gu, S. Song, Z. Wang, Q. Zhang, A. Balistrieri, R.J. Ayon, F. Rischard, R. Vanderpool, J. Chen, G. Zhou, A.A. Desai, S.M. Black, J.G.N. Garcia, **J.X.-J. Yuan**, and A. Makino. Pathogenic role of mTORC1 and mTORC2 in pulmonary hypertension. *JACC. Basic Trans. Sci.* 3(6):744-762, 2018.
163. Kurdyukov, S., C.A. Eccles, A.A. Desai, M. Gonzalez-Garay, **J.X.-J. Yuan**, J.G.N. Garcia, O. Rafikova, and R. Rafikov. New cases of glucose-6-phosphate dehydrogenase deficiency in pulmonary arterial hypertension. *PLoS One.* 13(8):e0203493, 2018.
164. Wang, Z., K. Yang, Q. Zheng, C. Zhang, H. Tang, A. Babicheva, Q. Jiang, M. Li, Y. Chen, S.G. Carr, K. Wu, Q. Zhang, A. Balistrieri, C. Wang, S. Song, R.J. Ayon, A.A. Desai, S.M. Black, J.G.N. Garcia, A. Makino, **J.X.-J. Yuan**, W. Lu, and J. Wang. Divergent changes of p53 in pulmonary arterial endothelial and smooth muscle cells involved in the development of pulmonary hypertension. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 316(1):L216-L228, 2019. PMID: 30358436.
165. Cao, Y., X. Zhang, L. Wang, Q. Yang, Q. Ma, J. Xu, J. Wang, L. Kovacs, R.J. Ayon, Z. Liu, M. Zhang, Y. Zhou, X. Zeng, Y. Xu, Y. Wang, D.J. Fulton, N.L. Weintraub, R. Lucas, Z. Dong, **J.X.-J. Yuan**, J.C. Sullivan, L. Meadows, S.A. Barman, C. Wu, J. Quan, M. Hong, Y. Su, and Y. Huo. PFKFB3-mediated endothelial glycolysis promotes pulmonary hypertension. *Proc. Natl. Acad. Med. USA.* 116(27):13394-13403, 2019. PMID: 31213542.
166. Rafikov, R., V. Nair, S. Sinari, H. Babu, J.C. Sullivan, **J.X.-J. Yuan**, A.A. Desai, and O. Rafikova. Gender difference in damage-mediated signaling contributes to pulmonary arterial hypertension. *Antioxid. Redox Signal.* 31(13):917-932, 2019. PMID: 30652485.
167. Huang, J., W. Lu, H. Ouyang, Y. Chen, C. Zhang, X. Luo, M. Li, J. Shu, Q. Zheng, H. Chen, J. Chen, H. Tang, D. Sun, **J.X.-J. Yuan**, K. Yang, and J. Wang. Transplantation of mesenchymal stem cells attenuates pulmonary hypertension by normalizing the EndMT. *Am. J. Respir. Cell Mol. Biol.* 62(1):49-60, 2020. PMID: 32121918.
168. Vanderpool, R.R., R. Puri, A. Osorio, K. Wickstrom, A.A. Desai, S.M. Black, J.G.N. Garcia, **J.X.-J. Yuan** and F.P. Rischard. Surfing the right ventricular pressure waveform: Methods to assess global, systolic and diastolic RV function from a clinical right heart catheterization. *Pulm. Circ.* 10(1): 2045894019850993, 2019. PMID: 31032737.
169. Babicheva, A., R.J. Ayon, T. Zhao, J.F. Ek Vitorin, N.M. Pohl, A. Yamamura, H. Yamamura, B.A. Quinton, M. Ba, L. Wu, K.S. Ravellette, S. Rahim, F. Balistrieri, A. Harington, R.R. Vanderpool, P.A. Thistlethwaite, A. Makino and **J.X.-J. Yuan**. MicroRNA-mediated downregulation of K⁺ channels in pulmonary arterial hypertension. *Am. J. Physiol. Lung Cell Mol. Physiol.* 318(1):L10-L26, 2020. PMID: 31553627.
170. Zhang, Q., A. Tsuji-Hosokawa, C. Willson, M. Watanabe, R. Si, N. Lai, Z. Wang, **J.X.-J. Yuan**, J. Wang and A. Makino. Chloroquine differentially modulates coronary vasodilation in control and diabetic mice. *Br. J. Pharmacol.* 177(2):314-327, 2020. PMID: 31503328.
171. Si, R., Q. Zhang, A. Tsuji-Hosokawa, M. Watanabe, C. Willson, N. Lai, J. Wang, A. Dai, B.T. Scott, W.H. Dillman, **J.X.-J. Yuan**, and A. Makino. Overexpression of p53 due to excess protein O-GlcNAcylation is associated with coronary microvascular disease in type 2 diabetes. *Cardiovasc Res.* 116(6):1186-1198, 2020. PMID: 31504245
172. Badagliacca, R., F. Rischard, S. Papa, S. Kubba, R. Vanderpool, **J.X.-J. Yuan**, J.G.N. Garcia, S. Airhart, R. Poscia, B. Pezzuto, G. Manzi, C. Miotti, F. Luongo, G. Scoccia, S. Sciomer, R. Torre, F. Fedele, and C.D. Vizza. Clinical implications of idiopathic pulmonary arterial hypertension phenotypes defined by cluster analysis. *J. Heart Lung Transplant.* 39(4):310-320, 2020. PMID: 32061507
173. Karnes, J.H., H.W. Wiener, T.H. Schwantes-An, B. Natarajan, A.J. Sweatt, A. Chaturvedi, A. Arora, K. Batai, V. Nair, H.E. Steiner, J.B. Giles, J. Yu, M. Hosseini, M.W. Pauciulo, K.A. Luts, A.W. Coleman, J. Feldman, R. Vanderpool, H. Tang, J.G.N. Garcia, **J.X.-J. Yuan**, R. Kittles, V.D. Perez, R.T. Zamanian, F. Rischard, H.K. Tiwari, W.C. Nichols, R.L. Benza, and A.A. Desai. Genetic admixture and survival in diverse populations with pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 201(11):1407-1415, 2020. PMID: 31916850

174. Chen, Y., W. Lu, K. Yang, X. Duan, M. Li, X. Chen, J. Zhang, M. Kuang, S. Liu, X. Wu, G. Zou, C. Liu, C. Hong, W. He, J. Liao, C. Hou, Z. Zhang, Q. Zheng, J. Chen, N. Zhang, H. Tang, R.R. Vanderpool, A.A. Desai, F. Rischard, S.M. Black, J.G.N. Garcia, A. Makino, **J.X.-J. Yuan**, N. Zhong, and J. Wang. Tetramethylpyrazine: A promising drug for the treatment of pulmonary hypertension. *Br. J. Pharmacol.* 177(12):2743-2764, 2020. PMID: 31976548
175. Sun, X., B.L. Sun, A. Babicheva, R. Vanderpool, R.C. Oita, N. Casanova, H. Tang, A. Gupta, H. Lynn, G. Gupta, F. Rischard, S. Sammani, C.L. Kempf, L. Moreno-Vinasco, M. Ahmed, S.M. Camp, J. Wang, A.A. Desai, **J.X.-J. Yuan**, and J.G.N. Garcia. Direct extracellular NAMPT involvement in pulmonary hypertension and vascular remodeling: Transcriptional regulation by SOX and HIF-2 α . *Am. J. Respir. Cell Mol. Biol.* 63(1):92-103, 2020. PMID: 32146329
176. Song, S., A. Babicheva, T. Zhao, R.J. Ayon, M. Rodriguez, S. Rahimi, F. Balistreri, A. Harrington, J.Y. Shyy, P.A. Thistlethwaite, A. Makino and **J.X.-J. Yuan**. Notch enhances Ca²⁺ entry by activating calcium-sensing receptor and inhibiting voltage-gated K⁺ channels. *Am. J. Physiol. Cell Physiol.* 318(5):C954-C968, 2020. PMID: 32186932
177. Wu, K., H. Tang, R. Lin, S.G. Carr, Z. Wang, A. Babicheva, R.J. Ayon, P.P. Jain, M. Xiong, M. Rodriguez, S. Rahimi, F. Balistreri, S. Rahimi, D. Valdez-Jasso, T.S. Simonson, A.A. Desai, J.G.N. Garcia, J.Y.-J. Shyy, P.A. Thistlethwaite, J. Wang, A. Makino, and **J.X.-J. Yuan**. Endothelial PDGF-mediated activation of smooth muscle PDGF receptor in pulmonary arterial hypertension. *Pulm Circ.* 10(3):2045894020948470, 2020. PMID: 33294172
178. Shen, H., J. Zhang, C. Wang, P.P. Jain, M. Xiong, X. Shi, Y. Lei, S. Chen, Q. Yin, P.A. Thistlethwaite, J. Wang, K. Gong, Z.-Y. Yuan, **J.X.-J. Yuan**, and J.Y.-J. Shyy. MDM2-mediated ubiquitination of ACE2 contributes to the development of pulmonary arterial hypertension. *Circulation.* 142(12):1190-1204, 2020. PMID: 32755395.
179. Jain, P.P., S. Hosokawa, M. Xiong, A. Babicheva, M. Rodriguez, S. Rahimi, F. Balistreri, N. Lai, J.Y.-J. Shyy, D. Valdez-Jasso, P.A. Thistlethwaite, A. Makino, and **J.X.-J. Yuan**. Revisiting the mechanism of hypoxic pulmonary vasoconstriction using isolated perfused/ventilated mouse lung. *Pulm Circ.* 10(4):2045894020956592, 2020. PMID: 33282184
180. Zhang, C., T. Zhang, W. Lu, X. Duan, X. Luo, S. Liu, Y. Chen, Y. Li, J. Chen, J. Liao, D. Zhou, X. Chen, H. Feng, G. Gu, T. Wang, H. Tang, A. Makino, N. Zhong, **J.X.-J. Yuan**, K. Yang, and J. Wang. Altered airway microbiota composition in patients with pulmonary hypertension. *Hypertension.* 76(5):1589-1599, 2020. PMID: 32921193
181. Li, J., Q. Wei, W.X. Li, K.C. McCowen, W. Xiong, J. Liu, W. Jiang, T. Marin, R.L. Thomas, M. He, B. Gongol, M. Hepokoski, **J.X.-J. Yuan**, J.Y. Shyy, N. Xiong, and A. Malhotra. Metformin use in diabetes prior to hospitalization: Effects on mortality in COVID-19. *Endocr. Pract.* 26(10):1166-1172, 2020. PMID: 33471718.
182. Romanoski, C.E., X. Qi, S. Sangam, R.R. Vanderpool, R.S. Spearman, A. Conklin, M. Gonzalez-Garay, F. Rischard, R.J. Ayon, J. Wang, T. Simonson, A. Babicheva, Y. Shi, H. Tang, A. Makino, Y. Kanthi, M.W. Geraci, J.G.N. Garcia, **J.X.-J. Yuan**, and A.A. Desai. Transcriptomic profiles in pulmonary arterial hypertension associate with disease severity and identify novel candidate genes. *Pulm. Circ.* 10(4): 2045894020968531, 2020. PMID: 33343881.
183. Gomez, A.I., M.F. Acosta, P. Muralidharan, **J.X.-J. Yuan**, S.M. Black, D. Hayes, Jr., and H.M. Mansour. Advanced spray dried proliposomes of amphotericin B lung surfactant-mimic phospholipid microparticles/nanoparticles as dry powder inhalers for targeted pulmonary drug administration. *Pulm Pharmacol Ther.* 64:101975, 2020. PMID: 33137515
184. Si, R., Q. Zhang, J.T.O. Cabrera, Q. Zheng, A. Tsuji-Hosokawa, M. Watanabe, S. Hosokawa, M. Xiong, P.P. Jain, A.W. Ashton, **J.X.-J. Yuan**, J. Wang, and A. Makino. Chronic hypoxia decreases Cx40, attenuates EDH-mediated relaxation in small distal pulmonary arteries, and leads to pulmonary hypertension. *J Am Heart Assoc.* 9(24):e018327, 2020. PMID: 33307937
185. Lu, Q., E.A. Zemskov, X. Sun, H. Wang, M. Yegambaram1, X. Wu, A. Garcia-Flores, S. Song, H. Tang, A. Kangath, G.Z. Cabanillas, **J.X.-J. Yuan**, T. Wang, J.R. Fineman, and S.M. Black.

- Activation of the mechanosensitive Ca^{2+} channel TRPV4 induces endothelial barrier permeability via the disruption of mitochondrial bioenergetics. *Redox Biol.* 38:101785, 2021. PMID: 33221570
186. Gupta, A., Y.D. Fei, T.Y. Kim, A. Xie, K. Batai, I. Greener, H. Tang, S. Ciftci-Yilmaz, E. Juneman, J.H. Indik, G. Shi, J. Christensen, G. Gupta, C. Hillery, M.M. Kansal, D.S. Parikh, T. Zhou, **J.X.-J. Yuan**, Y. Kanthi, P. Bronk, G. Koren, R. Kittles, J.D. Duarte, J.G.N. Garcia, R.F. Machado, S.C. Dudley, B.-R. Choi, and A.A. Desai. IL-18 mediates sickle cell cardiomyopathy and ventricular arrhythmias. *Blood.* 137(9):1208-1218, 2021. PMID: 33181835
 187. Lei, Y., J. Zhang, C.R. Schiavon, M. He, L. Chen, H. Shen, Y. Zhang, Q. Yin, Y. Cho, L. Andrade, G.S. Shadel, M. Hepokoski, T. Lei, H. Wang, J. Zhang, **J.X.-J. Yuan**, A. Malhotra, U. Manor, S. Wang, Z.-Y. Yuan, and J.-Y. Shyy. SARS-CoV-2 spike protein impairs endothelial function via downregulation of ACE2. *Circ Res.* 128(9):1323-1326, 2021. PMID: 33784827
 188. Muralidharan, P., M.F. Acosta, A.I. Gomez, C. Grijalva, H. Tang, **J.X.-J. Yuan**, and H.M. Mansour. Design and comprehensive characterization of tetramethylpyrazine (TMP) for targeted lung delivery as inhalation aerosols in pulmonary hypertension (PH): In vitro human lung cell culture and in vivo efficacy. *Antioxidants.* 10(3):427, 2021. PMID: 33799587
 189. Jain, P.P., T. Zhao, M. Xiong, S. Song, N. Lai, J. Chen, S.G. Carr, A. Babicheva, M. Rodriguez, S. Rahimi, F. Balistrieri, S. Rahimi, T. Simonson, D. Valdez-Jasso, P.A. Thistlethwaite, J.Y.-J. Shyy, J. Wang, A. Makino, and **J.X.-J. Yuan**. Halofuginone, a promising drug for treatment of pulmonary hypertension. *Br. J. Pharmacol.* 178(17):3373-3394, 2021. PMID: 33694155.
 190. Liao, J., W. Lu, Y. Chen, X. Duan, C. Zhang, X. Luo, Z. Lin, J. Chen, S. Liu, H. Yan, Y. Chen, H. Feng, D. Zhou, X. Chen, Z. Zhang, Q. Yang, X. Liu, H. Tang, J. Li, A. Makino, **J.X.-J. Yuan**, N. Zhong, K. Yang, and J. Wang. Upregulation of Piezo1 enhances the intracellular free calcium in pulmonary arterial smooth muscle cells from idiopathic pulmonary arterial hypertension patients. *Hypertension.* 77(6):1974-1989, 2021. PMID: 33813851
 191. Rodriguez, M., J. Chen, P.P. Jain, A. Babicheva, M. Xiong, J. Li, N. Lai, T. Zhao, M. Hernandez, A. Balistrieri, S. Parmisano, T. Simonson, E. Breen, D. Valdez-Jasso, P.A. Thistlethwaite, J.Y.-J. Shyy, J. Wang, J.G.N. Garcia, A. Makino and **J.X.-J. Yuan**. Upregulation of calcium homeostasis modulators in contractile-to-proliferative phenotypical transition of pulmonary arterial smooth muscle cells. *Front. Physiol.* 12:714785, 2021. PMID: 34408668.
 192. Xiong, M., P.P. Jain, J. Chen, A. Babicheva, T. Zhao, N. Lai, A. Izadi, M. Rodriguez, J. Li, A. Balistrieri, F. Balistrieri, S. Parmisano, X. Sun, D. Valdez-Jasso, J.Y.-J. Shyy, P.A. Thistlethwaite, J. Wang, A. Makino, and **J.X.-J. Yuan**. Mouse model of experimental pulmonary hypertension: Lung angiogram and right heart catheterization. *Pulm. Circ.* 11(4): 204589402111041512, 2021. PMID: 34531976.
 193. Kariotis, S., E. Jammeh, E.M. Swietlik, J.A. Pickworth, C.J. Rhodes, P. Otero, J. Wharton, J. Iremonger, M.J. Dunning, D. Pandya, T.S. Mascarenhas, N. Errington, A.A.R. Thompson, C.E. Romanoski, F. Rischard, J.G.N. Garcia, **J.X.-J. Yuan**, T.-H.S. An, A.A. Desai, G. Coghlan, J. Lordan, P. Corris, L.S. Howard, R.A. Condliffe, D.G. Kiely, C. Church, J. Pepke-Zaba, M. Toshner, S. Wort, S. Gräf, N.W. Morrell, M.R. Wilkins, A. Lawrie, and D. Wang. Biological heterogeneity in idiopathic pulmonary arterial hypertension identified through unsupervised transcriptomic profiling of whole blood. *Nat. Commun.* 12(1):7104, 2021. PMID: 34876579.
 194. Si, R., J.T.O. Cabrera, A. Tsuji-Hosokawa, R. Guo, M. Watanabe, L. Gao, Y.S. Lee, J.-S. Moon, B.T. Scott, J. Wang, A.W. Ashton, J.N. Rao, J.-Y. Wang, **J.X.-J. Yuan**, and A. Makino. HuR/Cx40 downregulation causes coronary microvascular dysfunction in type 2 diabetes. *JCI Insight.* 6(21):e147982, 2021. PMID: 34747371.
 195. Wang, Z., J. Chen, A. Babicheva, P.P. Jain, M. Rodriguez, R.J. Ayon, K.S. Ravellette, L. Wu, S. Rehim, F. Balistrieri, H. Tang, X. Wu, S.M. Black, A.A. Desai, J.G.N. Garcia, X. Sun, J.Y.-J. Shyy, D. Valdez-Jasso, P.A. Thistlethwaite, A. Makino, J. Wang, and **J.X.-J. Yuan**. Endothelial upregulation of mechanosensitive channel Piezo1 in pulmonary hypertension. *Am. J. Physiol. Cell Physiol.* 321(6):C1010-C1027, 2021. PMID: 34669509.

196. Jain, P.P., N. Lai, M. Xiong, J. Chen, A. Babicheva, T. Zhao, S. Parmisano, M. Zhao, C. Paquin, M. Matti, R. Powers, A. Balistrieri, N.H. Kim, D. Valdez-Jasso, P.A. Thistlethwaite, J.Y.-J. Shyy, J. Wang, J.G.N. Garcia, A. Makino and **J.X.-J. Yuan**. TRPC6, a therapeutic target for pulmonary hypertension. *Am. J. Physiol. Lung Cell Mol. Physiol.* 321(6):L1161-L1182, 2021. PMID: 34704831
197. Ahmed, M., N. Zaghloul, P. Zimmerman, N.G. Casanova, X. Sun, J. Song, V.R. Hernon, S. Sammani, F. Rischard, O. Rafikova, R. Rafikov, A. Makino, C.L. Kempf, S.M. Camp, J. Wang, A.A. Desai, Y. Lussier, **J.X.-J. Yuan**, and J.G.N. Garcia. Endothelial-derived eNAMPT drives EndMT and preclinical PH: Rescue by an eNAMPT-neutralizing mAb. *Pulm. Circ.* 11(4):20458940211059712, 2021. PMID: 34790349.
198. Stobdan, T., P.P. Jain, M. Xiong, V. Bafna, **J.X.-J. Yuan**, and G.G. Haddad. Heterozygous *Troponodulin* 3 mice have improved lung vascularization after chronic hypoxia. *Hum Mol Genet.* 31(7):1130-1140, 2022. PMID: 34718575.
199. Zhen, X., E.A. Moya, M. Gautane, H. Zhao, E.S. Lawrence, W Gu, L.A. Barnes, **J.X.-J. Yuan**, P.P. Jain, M. Xiong, P.C. Serra, L.V. Pham, A. Malhotra, T.S. Simonson, and O.A. Mesarwi. Combined intermittent and sustained hypoxia is a novel and deleterious cardio-metabolic phenotype. *Sleep.* 45(6):zsab290, 2022. PMID: 34893914.
200. Zheng, Q., W. Lu, H. Yan, X. Duan, Y. Chen, C. Zhang, X. Luo, J. Chen, C. Wang, S. Liu, Y. Li, H. Tang, S. Rahimi, S. Rahimi S, **J.X.-J. Yuan**, N. Zhong, K. Yang, and J. Wang. Established pulmonary hypertension in rats was reversed by a combination of a HIF-2 α antagonist and a p53 agonist. *Br. J. Pharmacol.* 179(5):1065-1081, 2022. PMID: 34599843.
201. Xu, J., L. Xu, P. Sui, J. Chen, E.A. Moya, P. Hume, W.J. Janssen, J. Duran, P.A. Thistlethwaite, A. Carlin, P. Gulleman, B. Banaschewski, M. Goldy, **J.X.-J. Yuan**, A. Malhotra, G. Pryhuber, L. Crotty-Alexander, G. Deutsch, L. Young, and X. Sun. Excess neuropeptides in lung signal through endothelial cells to impair gas exchange. *Dev. Cell.* 57(7):839-853, 2022. PMID: 35303432.
202. Chen, J., M. Rodriguez, J. Miao, J. Liao, P.P. Jain, M. Zhao, T. Zhao, A. Babicheva, Z. Wang, S. Parmisano, R. Powers, M. Matti, C. Paquin, Z. Soroureddin, J.Y.-J. Shyy, P.A. Thistlethwaite, A. Makino, J. Wang, and **J.X.-J. Yuan**. Mechanosensitive channel Piezo1 is required for pulmonary artery smooth muscle cell proliferation. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 322(5):L737-L760, 2022. PMID: 35318857.
203. Zhang, Y., M. Hernandez, J. Gower, N. Winicki, X. Morataya, S. Alvarez, **J.X.-J. Yuan**, J.Y.-J. Shyy, and P.A. Thistlethwaite. JAGGED-NOTCH3 signaling in vascular remodeling in pulmonary arterial hypertension. *Sci. Transl. Med.* 14(643):eabl5471, 2022. PMID: 35507674.
204. Liu, Z., Y. Zhang, J.Y. Youn, Y. Zhang, A. Makino, **J.X.-J. Yuan**, and H.L. Cai. Flavored and nicotine-containing E-cigarettes induce impaired angiogenesis and diabetic wound healing via increased endothelial oxidative stress and reduced NO bioavailability. *Antioxidants.* 11(5):904, 2022. PMID: 35624768.
205. Rafikov, R., F. Rischard, M. Vasilyev, M.V. Varghese, **J.X.-J. Yuan**, A.A. Desai, J.G.N. Garcia, and O. Rafikova. Cytokine profiling in pulmonary arterial hypertension: The role of redox homeostasis and sex. *Transl. Res.* 247:1-18, 2022. PMID: 35405322
206. Hemnes A.R., J. Leopold, M. Radeva, G. Beck, A. Abidov, M. Aldred, J. Barnard, E. Rosenzweig, B. Borlaug, W. Chung, S. Comhair, A.A. Desai, H. DuBrock, S. Erzurum, J.E. Finet, R. Frantz, J.G.N. Garcia, M. Geraci, M. Gray, G. Grunig, P. Hassoun, K. Highland, N. Hill, B. Hu, D. Kwon, M. Jacob, C. Jellis, B. Larive, J. Lempel, B. Maron, S. Mathai, K. McCarthy, R. Mehra, R. Nawabit, J. Newman, M. Oltman, M. Park, J. Ramos, R. Renapurkar, F. Rischard, S. Sherer, W.H. Tang, J. Thomas, R. Vanderpool, A. Waxman, J. Wilcox, **J.X.-J. Yuan**, E. Horn. Clinical characteristics and transplant-free survival across the spectrum of pulmonary vascular disease. *J. Am. Coll. Cardiol.* 80(7):697-718. 2022. PMID: 35953136
207. Chen, J., J. Miao, D. Zhou, J. Liao, Z. Wang, Z. Lin, C. Zhang, X Luo, Y. Li, X. Li, S. Liu, Y. Xing, Z. Zhang, M. Zhao, S. Parmisano, Y.-Q. Chen, **J.X.-J. Yuan**, K. Yang, D. Sun, and J. Wang.

- Upregulation of mechanosensitive channel Piezo1 involved in high shear stress-induced pulmonary hypertension. *Thromb. Res.* 218:52-63, 2022. PMID: 35988445.
208. Zhao, T., S. Parmisano, Z. Soroureddin, M. Wang, L. Yung, P.A. Thistlethwaite, A. Makino, and **J.X.-J. Yuan**. Mechanosensitive cation currents through TRPC6 and Piezo1 channels in human pulmonary arterial endothelial cells. *Am. J. Physiol. Cell Physiol.* 323(4):C959-C973, 2022. PMID: 35968892
 209. Chen, J., D. Zhou, J. Miao, C. Zhang, X. Li, H. Feng, Y. Xing, Z. Zhang, C. Bao, Z. Lin, Y. Chen, **J.X.-J. Yuan**, D. Sun, K. Yang, and J. Wang. Microbiome and metabolome dysbiosis of the gut-lung axis in pulmonary hypertension. *Microbiol. Res.* 265:127205, 2022. PMID: 36202007
 210. Wang, C., Y. Xing, J. Zhang, M. He, J. Dong, S. Chen, H. Wu, H.-Y. Huang, C.-H. Chou, L. Bai, F. He, J. She, A. Su, Y. Wang, P.A. Thistlethwaite, H.-D. Huang, **J.X.-J. Yuan**, Z.-Y. Yuan, J.Y.-J. Shyy. MED1 regulates BMP/TGF- β in endothelium: Implications for pulmonary hypertension. *Circ. Res.* 131(10):828-841, 2022. PMID: 36252121
 211. Bao, C., S. Liang, Y. Han, Z. Yang, S. Liu, Y. Sun, S. Zheng, Y. Li, T. Wang, Y. Gu, K. Wu, J. Wang, S.M. Black, J. Wang, S.T. Nawrocki, J.S. Carew, **J.X.-J. Yuan**, and H. Tang. The novel lysosomal autophagy inhibitor (ROC-325) ameliorates experimental pulmonary hypertension. *Hypertension.* 80(1):70-83, 2023. PMID: 36345832
 212. Alotaibi, M., J. Shao, M. Pauciulo, W.C. Nichols, A.R. Hemnes, A. Malhotra, N.H. Kim, **J.X.-J. Yuan**, T.M. Fernandes, K.M. Kerr, L. Alshawabkeh, A.A. Desai, A. Bujor, R. Lafyatis, J.D. Watrous, T. Long, S. Cheng, S.Y. Chan, and M. Jain. Metabolomic profiles differentiate scleroderma-PAH from idiopathic PAH and correspond with worsened functional capacity. *Chest.* 163(1): 204-215, 2023. PMID: 36087794
 213. Zhang, C., T. Zhang, Y. Xing, W. Lu, J. Chen, X. Luo, X. Wu, S. Liu, L. Chen, Z. Zhang, D. Zhou, Z. Lin, Y. Chen, M. Xiong, **J.X.-J. Yuan**, K. Yang, J. Wang. Airway delivery of *Streptococcus Salivarius* is sufficient to induce experimental pulmonary hypertension in rats. *Br J Pharmacol.* 2023 Mar 4. doi:10.1111/bph.16064. Online ahead of print. PMID: 36869838
 214. Cabrera, J.T., R. Si, A. Tsuji-Hosokawa, H. Cai, **J.X.-J. Yuan**, W.H. Dillmann, and A. Makino. Restoration of coronary microvascular function by OGA overexpression in a high-fat diet with low-dose streptozotocin-induced type 2 diabetic mice. *Diab Vasc Dis Res.* 2023; 20(3): 14791641231173630. PMID: 37186669
 215. Yang, K., S. Liu, H. Yan, W. Lu, X. Shan, H. Chen, C. Bao, H. Feng, J. Liao, S. Liang, L. Xu, H. Tang, **J.X.-J. Yuan**, N. Zhong, and J. Wang. SARS-CoV-2 spike protein receptor-binding domain perturbs intracellular calcium homeostasis and impairs pulmonary vascular endothelial cells. *Signal Transduct. Target. Ther.* 8(1):276, 2023. PMID: 37452066.
 216. Stokes, G., Z. Li, N. Talaba, W. Genthe, M.E. Brix, B. Pham, M.D. Wienhold, G. Sandok, R. Hernan, J. Wynn, H. Tang, D.M. Tabima, A. Rodgers, T.A. Hacker, N.C. Chesler, P. Zhang, R. Murad, **J.X.-J. Yuan**, Y. Shen, W.K. Chung, and D.J. McCulley. Rescuing lung development by embryonic inhibition of histone acetylation. *Sci Transl Med.* In press, 2024.
 217. Tang, H., A. Gupta, S. Morrisroe, C. Bao, T.H. Schwantes-An, G. Gupta, S. Liang, Y. Sun, A. Chu, A. Luo, V.R. Elangovan, S. Sangam, Y. Shi, S. Naidu, J.-R. Jheng, S. Ciftci-Yilmaz, N. Warfel, L. Hecker, S. Mitra, A. Coleman, K.A. Lutz, M. Pauciulo, Y.-C. Lai, A. Javaheri, R. Dharmakumar, W.-H. Wu, D. Flaherty, J. Karnes, S. Breuils-Bonnet, O. Boucherat, S. Bonnet, **J.X.-J. Yuan**, J. Jacobson, J. Duarte, W. Nichols, J.G.N. Garcia, and A.A. Desai. Deficiency of the deubiquitinase, UCHL1, attenuates pulmonary hypertension. *Circulation.* In revision, 2024.

C. Review Articles

218. Sweeney, M. and **J.X.-J. Yuan**. Hypoxic pulmonary vasoconstriction: Role of voltage-gated potassium channels. *Respir. Res.* 1:40-48, 2000.
219. Mandegar, M. and **J.X.-J. Yuan**. Role of K⁺ channels in pulmonary hypertension. *Vasc. Pharmacol.* 38(1):25-33, 2002.

220. Mandegar, M. C.V. Remillard, and **J.X.-J. Yuan**. Ion channels in pulmonary arterial hypertension. *Prog. Cardiovas. Dis.* 45(2):81-114, 2002.
221. Remillard, C.V. and **J.X.-J. Yuan**. Activation of K⁺ channels: an essential pathway in programmed cell death. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 286(1):L49-L67, 2004.
222. Landsberg, J.W. and **J.X.-J. Yuan**. Calcium and TRP channels in pulmonary vascular smooth muscle cell proliferation. *NIPS (News in Physiological Sciences)* 19:44-50, 2004.
223. Mandegar, M., P.A. Thistlethwaite, and **J.X.-J. Yuan**. Molecular biology of primary pulmonary hypertension. *Cardiol. Clin.* 22(3):417-429, 2004.
224. Mandegar, M., Y.-C.B. Fung, W. Huang, C.V. Remillard, L.J. Rubin, and **J.X.-J. Yuan**. Cellular and molecular mechanisms of pulmonary vascular remodeling: Role in the development of pulmonary hypertension. *Microvasc. Res.* 68(2):75-103, 2004.
225. Mauban J.R.H., C.V. Remillard, and **J.X.-J. Yuan**. Hypoxic pulmonary vasoconstriction: role of ion channels. *J. Appl. Physiol.* 98:415-420, 2005.
226. Remillard, C.V. and **J.X.-J. Yuan**. High altitude pulmonary hypertension: Role of K⁺ and Ca²⁺ channels. *High Altitude Med. Biol.* 6(2): 133-146, 2005.
227. Murray, F., P.A. Insel, and **J.X.-J. Yuan**. Role of O₂-sensitive K⁺ and Ca²⁺ channels in the regulation of the pulmonary circulation: Potential role of caveolae and implications for high altitude pulmonary edema. *Respir. Physiol. Neurobiol.* 151:192-208, 2006.
228. Burg, E.D., C.V. Remillard, and **J.X.-J. Yuan**. K⁺ channels in apoptosis. *J. Membr. Biol.* 209 (1):3-20, 2006.
229. Remillard, C.V. and **J.X.-J. Yuan**. TRP channels, CCE and the pulmonary vascular smooth muscle. *Microcirculation.* 13:671-692, 2006.
230. Sacks, R., C.V. Remillard, N. Agange, W.R. Auger, P.A. Thistlethwaite, and **J.X.-J. Yuan**. Molecular biology of chronic thromboembolic pulmonary hypertension. *Sem. Thoracic Cardiovas. Surg.* 18(3):265-276, 2006.
231. Firth A.L., C.V. Remillard, and **Yuan, J.X.-J.** TRP channels in hypertension. *Biochim. Biophys. Acta* 1772(8):895-906, 2007.
232. Burg, E.D., C.V. Remillard, and **J.X.-J. Yuan**. Potassium channels in the regulation of pulmonary artery smooth muscle cell proliferation and apoptosis. *Br. J. Pharmacol.* 153(S1): S99-S111, 2008.
233. Firth, A.L. and **J.X.-J. Yuan**. Antagonists of the Kv1.5 potassium channel. *Drugs Future.* 33(1):31-47, 2008.
234. Makino, A. and **J.X.-J. Yuan**. Ambrisentan: A new drug for pulmonary arterial hypertension (Update). In: *Goodman & Gilman's The Pharmacological Basis of Therapeutics*, 11th Edition, edited by Brunton LL, Lazo JS, Parker KL, New York, NY: McGraw-Hill, 2008 (online edition, 1/29/2008)
235. Hassoun, P.M., L. Mouthon, J.-A. Barbera, S. Eddahibi, S.C. Flores, F. Grimminger, P.L. Jones, M. Maitland, E.D. Michelakis, N.W. Morrell, J.H. Newman, M. Rabinovitch, R.T. Schermuly, K.R. Stenmark, N.F. Voelkel, **J.X.-J. Yuan**, and M. Humbert. Inflammation, growth factors, and pulmonary vascular remodeling. *J. Am. Coll. Cardiol.* 54: S10-S19, 2009.
236. Morrell, N.W., S. Adnot, S.L. Archer, J. Dupuis, P.L. Jones, M.R. MacLean, I.F. McMurtry, K.R. Stenmark, P.A. Thistlethwaite, N. Weissman, **J.X.-J. Yuan**, and E.K. Weir. Cellular and molecular basis of pulmonary arterial hypertension. *J. Am. Coll. Cardiol.* 54: S20-S31, 2009.
237. Firth, A.L., O. Platoshyn, E.E. Brevnova, E.D. Burg, F.L. Powell, G.G. Haddad, and **J.X.-J. Yuan**. Hypoxia selectively inhibits KCNA5 channels in pulmonary artery smooth muscle cells. *Ann. N.Y. Acad. Sci.* 1117:101-111, 2009.
238. Ko, E.A., W.S. Park, A.L. Firth, N. Kim, **J.X.-J. Yuan**, and J. Han. Pathophysiology of voltage-gated K⁺ channels in vascular smooth muscle cells: Modulation by protein kinase. *Prog. Biophys. Mol. Biol.* 103(1):95-101, 2010.
239. Zhai, Z, J. Wang, L. Zhao, **J.X.-J. Yuan**, and C. Wang. Pulmonary hypertension in China. *Chest.* 137:1S-9S, 2010.

240. Firth, A.L., J. Mandel and **J.X.-J. Yuan**. Idiopathic pulmonary arterial hypertension. *Dis. Model Mech.* 3(5-6): 268-273, 2010.
241. Song, M.Y., A. Makino, and **J.X.-J. Yuan**. Role of reactive oxygen species and redox in regulating the function of transient receptor potential channels. *Antioxid. Redox Signal.* 15(6): 1549-1565, 2011.
242. Firth, A.L., C.V. Remillard, Ol. Platoshyn, I. Fantozzi, E.A. Ko, and **J.X.-J. Yuan**. Functional ion channels in human pulmonary artery smooth muscle cells: Voltage-dependent cation channels. *Pulm. Circ.* 1:49-72, 2011.
243. Makino, A., A.L. Firth, and **J.X.-J. Yuan**. Endothelial and smooth muscle cell ion channels in pulmonary vasoconstriction and vascular remodeling. *Compr. Physiol.* 1:1555-1602, 2011.
244. Ko, E.A. and **J.X.-J. Yuan**. Tension measurement in isolated rat and mouse pulmonary artery. *Drug Discovery Today: Disease Models.* 7(3-4):123-130, 2011.
245. Kuhr, F.K.*, K.A. Smith*, M.Y. Song, Levitan I and **J.X.-J. Yuan**. New mechanisms of pulmonary hypertension: Role of Ca^{2+} signaling. *Am. J. Physiol. Heart Circ. Physiol.* 302:H1546-H1562, 2012. (*These authors contributed equally to this article).
246. Firth, A.L. and **J.X.-J. Yuan**. Identification of functional progenitor cells in the pulmonary vasculature. *Pulm. Circ.* 2(1):84-100, 2012.
247. Fernandez R., P. Sundivakkam, K.A. Smith, A. S. Zeifman, A.R. Drennan, and **J.X.-J. Yuan**. Pathogenic role of store-operated and receptor-operated Ca^{2+} channels in pulmonary arterial hypertension. *J. Signal Transduct.* 2012:951497 (doi:10.1155/2012/951497).
248. Lang, I.M., R. Pesavento, D. Bonderman, and **J.X.-J. Yuan**. Risk factors and basic mechanisms of chronic thromboembolic pulmonary hypertension: a current understanding. *Eur. Respir. J.* 41(2):462-468, 2013.
249. Fraidenburg, D.R. and **J.X.-J. Yuan**. Current and future therapeutic targets for pulmonary arterial hypertension. *High Alt. Med. Biol.* 14(2):134-143, 2013.
250. Yamamura A., H. Yamamura and **J.X.-J. Yuan**. Enhanced Ca^{2+} -sensing receptor function in pulmonary hypertension. *Yakugaku Zasshi.* 133(12):1351-1359, 2013.
251. Smith, K.A., R.J. Ayon, H. Tang, A. Makino and **J.X.-J. Yuan**. Calcium-sensing receptor regulates cytosolic $[Ca^{2+}]$ and plays a critical role in the development of pulmonary hypertension. *Front. Physiol.* 7:517 (doi:10.3389/fphys.2016.00517), 2016.
252. Pullamsetti, S.S., F. Perros, P. Chhlladurai, **J.X.-J. Yuan**, and Kurt Stenmark. Transcription factors, transcriptional coregulators, and epigenetic modulation in the control of pulmonary vascular cell phenotype: Therapeutic implications for pulmonary hypertension. *Pulm. Circ.* 6(4):448-464, 2016.
253. Wang, T., C. Gross, A.A. Desai, E. Zemskov, X. Wu, A.N. Garcia, J.R. Jacobson, **J.X.-J. Yuan**, J.G.N. Garcia and S.M. Black. Endothelial cell signaling and ventilator-induced lung injury: molecular mechanisms, genomic analyses, and therapeutic targets. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 312(4): L452-L476, 2017.
254. Ranchoux, B., L.D. Harvey, R.J. Ayon, A. Babicheva, S. Bonnet, S.Y. Chan, **J.X.-J. Yuan**, and V. de Jesus Perez. Endothelial dysfunction in pulmonary arterial hypertension: An evolving landscape. *Pulm. Circ.* 8(1):1-17, 2018.
255. Zemskov, E.A., Q. Lu, W. Ornatowski, C.N. Klinger, A.A. Desai, E. Maltepe, **J.X.-J. Yuan**, T. Wang, J.R. Fineman, and S.M. Black. Biomechanical forces and oxidative stress: Implications for pulmonary vascular disease. *Antioxid Redox Signal.* 31(12):819-842, 2019.
256. Gassmann, M., A. Cowburn, H. Gu, J. Li, M. Rodriguez, A. Babicheva, P.P. Jain, M. Xiong, N.N. Gassmann, **J.X.-J. Yuan**, M.R. Wilkins, and L. Zhao. Hypoxia-induced pulmonary hypertension—Utilising experiments of nature. *Br. J. Pharmacol.* 178:121-131, 2020.
257. Babicheva, A., A. Makino and **J.X.-J. Yuan**. mTOR signaling in pulmonary vascular disease: Pathogenic role and therapeutic target. *Int. J. Mol. Sci.* 22(4):2144, 2021.
258. Yu, J.J., A.L. Non, E.C. Heinrich, W. Gu, J. Alcock, E.A. Moya, E.S. Lawrence, M.S. Tift, K.A. O'Brien, J.F. Storz, A.V. Signore, J.I. Khudyakov, W.K. Milson, S.M. Wilson, C.M. Beall, F.C. Villafuerte, T. Stobdan, C.G. Jullian, L.G. Moore, M.M. Fuster, J.A. Stokes, R. Milner, J.B. West,

- J. Zhang, J.Y.-J. Shyy, A. Childebaveva, J.P. Vazquez-Medina, L.V. Pham, O.A. Mesarwi, J.E. Hall, Z.A. Cheviron, J. Sieker, A.B. Blood, **J.X.-J. Yuan**, G.R. Scott, B.K. Rana, P.J. Ponganis, A. Malhotra, F.L. Powell, and T.S. Simonson. Time domains of hypoxia response and -Omics insights. *Front. Physiol.* 13:885295, 2022. PMID: 36035495.
259. Zhu, J., L. Yang, Y. Jia, A. Balistrieri, D.R. Fraidenburg, J. Wang, H. Tang and **J.X.-J. Yuan**. Pathogenic mechanisms of pulmonary arterial hypertension: Homeostasis imbalance of endothelium-derived relaxing and constricting factors. *JACC Asia*. 2(7): 787-802, 2022. PMID: 36713766.
260. Balistrieri, A., A. Makino and **J.X.-J. Yuan**. Pathophysiology and pathogenic mechanisms of pulmonary hypertension: Role of ion channel, membrane receptor and Ca^{2+} signaling. *Physiol. Rev.* 103(3):1827-1897, 2023. PMID: 36407003.

D. Editorials and Invited Articles

261. **Yuan, J.X.-J.** Oxygen-sensitive K^+ channel(s): where and what? *Am. J. Physiol. Lung Cell. Mol. Physiol.* 281:L1345-L1349, 2001. (Editorial Focus)
262. **Yuan, J.X.-J.** and L.J. Rubin. Pathogenesis of pulmonary arterial hypertension: The need for multiple hits. *Circulation*. 111:534-538, 2005. (Editorial)
263. Remillard, C.V. and **J.X.-J. Yuan**. CIC-3: more than just a volume-sensitive Cl^- channel. *Br. J. Pharmacol.* 145:1-2, 2005. (Editorial)
264. Remillard, C.V. and **J.X.-J. Yuan**. PGE_2 and PAR-1 in pulmonary fibrosis: a case of biting the hand that feeds you? *Am. J. Physiol. Lung Cell. Mol. Physiol.* 288:L789-L792, 2005. (Editorial Focus)
265. Neubauer J, J.K. Brown, B.L.M. Hogan, S.H. Randell, B. Stripp, D.J. Weiss, L. Clerch, P.W. Finn, M.M. Fuster, R. Glenny, L.S. King, M. Kraft, M. Leigh, C. Marsh, J. Metcalf, S. Mette, T. Mertsch, S. Pattee, W. Rom, J. Roman, J.R. Wright, **J.X.-J. Yuan**, and A. Ofosu. Human embryonic stem cell research. *Am. J. Respir. Crit. Care Med.* 173:1043-1045, 2006. (Official Statement of the American Thoracic Society)
266. Remillard, C.V. and **J.X.-J. Yuan**. Transient receptor potential channels and caveolin-1: Good friends in tight spaces. *Mol. Pharmacol.* 70(4): 1151-1154, 2006. (Perspective).
267. Remillard, C.V. and **J.X.-J. Yuan**. Cardiac L-arginine transport: the CAT is back. *J. Physiol.* 580(3):699-700, 2007. (Perspective)
268. **Yuan, J.X.-J.** Point: counterpoint “Release of an endothelium-derived vasoconstrictor and Rho/Rho kinase-mediated calcium sensitization of smooth muscle cell contraction are/are not the main effectors for full and sustained hypoxic pulmonary vasoconstriction. *J. Appl. Physiol.* 102(5):2078, 2007. (Letter to Editor)
269. Firth, A.L. and **J.X.-J. Yuan**. Bringing down the ROS: A new therapeutic approach for PPHN. *Am. J. Physiol. Lung Cell. Mol. Physiol.* 295:L976-L978, 2008. (Editorial Focus)
270. **Yuan, J.X.-J.**, N.W. Morrell, Harikrishnan S, and G. Butrous. *Pulmonary Circulation*, A new venue for communicating your findings, ideas and perspectives. *Pulm. Circ.* 1(1):1-2, 2011. (Editorial)
271. Firth, A.L. and **J.X.-J. Yuan**. Animal models of pulmonary vascular disease. *Drug Discovery Today: Disease Models*. 7(3-4):57-59, 2011. (Editorial)
272. **Yuan, J.X.-J.**, N.W. Morrell, Harikrishnan S, and G. Butrous. Our journey continues. *Pulm. Circ.* 1(2):133, 2011. (Editorial)
273. Arcangeli A and **J.X.-J. Yuan**. Ion channels and transporters in cancer. *Am. J. Physiol. Cell Physiol.* 301:C253-C254, 2011. (Editorial)
274. **Yuan, J.X.-J.**, N.W. Morrell, Harikrishnan S, and G. Butrous. The world of pulmonary vascular disease. *Pulm. Circ.* 1(3):303-304, 2011. (Editorial)
275. **Yuan, J.X.-J.**, N.W. Morrell, Harikrishnan S, and G. Butrous. A one-year-old baby...into the Year of the Dragon. *Pulm. Circ.* 2(1):1-2, 2012. (Editorial)

276. Firth, A.L. and **J.X.-J. Yuan**. “Ether-à-go-go” proliferation of iPSC-derived mesenchymal stem cells. Focus on “Regulation of cell proliferation of human induced pluripotent stem cell-derived mesenchymal stem cells via ether-à-go-go 1 (hEAG1) potassium channel” *Am. J. Physiol. Cell Physiol.* 303:C113-C114, 2012. (Editorial Focus)
277. Smith, K.A. and **J.X.-J. Yuan**. CRACing the cluster: Functionally active Orai1 channels in the absence of clustering with STIM1. *Circ. Res.* 111:9-11, 2012. (Editorial)
278. Sundivakkam, P.C., A.A. Desai, K.A. Smith, and **J.X.-J. Yuan**. Are men at risk? The role of testosterone in cardiovascular morbidity. *Pul. Circ.* 2(3):275-277, 2012. (Editorial Highlight).
279. Smith, K.A. and **J.X.-J. Yuan**. H₂S, a gasotransmitter for oxygen sensing in carotid body. Focus on “Endogenous H₂S is required for hypoxic sensing by carotid body glomus cells” *Am. J. Physiol. Cell Physiol.* 303(9):C911-C912, 2012. (Editorial Focus)
280. **Yuan, J.X.-J.**, N.W. Morrell, S. Harikrishnan and G. Butrous. Science is an endless frontier: Encouraging translational research in pulmonary vascular disease. *Pulm. Circ.* 2(2):137-138, 2012. (Editorial)
281. Firth, A.L. and **J.X.-J. Yuan**. Human models for smooth muscle cell differentiation. Focus on “A novel in vitro model system for smooth muscle differentiation from human embryonic stem cell-derived mesenchymal cells” *Am. J. Physiol. Cell Physiol.* 304(4):C287-C288, 2013. (Editorial Focus)
282. Fraidenburg, D.R. and **J.X.-J. Yuan**. Hungry for more – Autophagy in the pathogenesis of PAH. *Circ. Res.* 112:1091-1093, 2013. (Editorial)
283. Matthay, M.A., P. Anversa, J. Bhattacharya, B.G. Burnett, H.A. Chapman, J.M. Hare, D.J. Hei, A.M. Hoffman, S. Kourembanas, D.H. McKenna, L.A. Ortiz, H. Ott, W. Tente, B. Thebaud, B.C. Trapnell, D.J. Weiss, **J.X.-J. Yuan**, and C.J. Blaisdell. Cell therapy for lung diseases: Report from an NIH-NHLBI workshop November 13-14, 2012. *Am. J. Respir. Crit. Care Med.* 188(3):370-375, 2013. (Workshop Report)
284. Smith, K.A., D.R. Fraidenburg, and **J.X.-J. Yuan**. Current therapies for the treatment of pulmonary arterial hypertension. In: “*Pulmonary Arterial Hypertension*” (Future Medicine 2013, eBook) edited by Smith K.A., Fraidenburg D.R., and Yuan J.X.-J., Future Science Group (FSG); London, U.K.; 2013, pp. 3-5 (Forward)
285. **Yuan, J.X.-J.**, N.W. Morrell, C. Holt and G. Butrous. Readership: The heart of Pulmonary Circulation. *Pulm. Circ.* 3(1):1-2, 2013. (Editorial)
286. Ayon, R.J., R.A. Fernandez and **J.X.-J. Yuan**. Mutant hERG channel traffic jam. Focus on “Pharmacological correction of long QT-linked mutations in *KCNH2* (*hERG*) increases the trafficking of Kv11.1 channels stored in the transitional endoplasmic reticulum”. *Am. J. Physiol. Cell Physiol.* 305(9):C916-C918, 2013. (Editorial Focus)
287. Pohl, N.M., R.A. Fernandez, K.A. Smith and **J.X.-J. Yuan**. Deacetylation of microRNA-124 in fibroblasts: Role in pulmonary hypertension. *Circ. Res.* 114:5-8, 2014. (Editorial)
288. Smith, K.A. and **J.X.-J. Yuan**. Hypoxia-inducible factor-1 α in pulmonary arterial smooth muscle cells and hypoxia-induced pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 189(3):245-246, 2014. (Editorial)
289. Smith, K.A. and **J.X.-J. Yuan**. Breaking barriers in obstructive sleep apnea. Focus on “Intermittent hypoxia-induced endothelial barrier dysfunction requires ROS-dependent MAP kinase activation” *Am. J. Physiol. Cell Physiol.* 306(8):C724-C725, 2014. (Editorial Focus)
290. **Yuan, J.X.-J.**, N.W. Morrell, C. Holt and G. Butrous. The voice of *Pulmonary Circulation*. *Pulm. Circ.* 4(1):1, 2014. (Editorial)
291. Tang, H., R.A. Fernandez and **J.X.-J. Yuan**. miRNA208/Mef2 and TNF- α in right ventricular dysfunction: The transition from hypertrophy to failure. *Circ. Res.* 116:6-8, 2015. (Editorial)
292. Tang, H., R.J. Ayon and **J.X.-J. Yuan**. New insights into miRNAs and pulmonary hypertension: Implication of the miR-210/ISCU1/2-Fe-S axis. *EMBO Mol. Med.* 7(6):689-691, 2015. (Closeup)
293. **Yuan, J.X.-J.**, N.W. Morrell, A. Westcott and G. Butrous. The rise and rise of *Pulmonary Circulation*. *Pulm. Circ.* 5(1):1-2, 2015. (Editorial)

294. Smith, K.A., **J.X.-J. Yuan** and P.T. Schumacker. MicroRNAs and PARP: Co-conspirators with ROS in pulmonary hypertension. Focus on “MiR-223 reverses experimental pulmonary hypertension” *Am. J. Physiol. Cell Physiol.* 309:C361-C362, 2015. (Editorial Focus)
295. Ayon, R.J., H. Tang, and **J.X.-J. Yuan**. Gasping for answers. Focus on “Calpain activation by ROS mediates human ether-a-go-go-related gene protein degradation by intermittent hypoxia” *Am. J. Physiol. Cell Physiol.* 310(6):C432-C433, 2016. (Editorial Focus)
296. Tang, H., A.A. Desai and **J.X.-J. Yuan**. Genetic insights of pulmonary arterial hypertension: Application of whole exome sequencing to study pathogenic mechanisms. *Am. J. Respir. Crit. Care Med.* 194(4):393-397, 2016. (Editorial)
297. Song, S., R.J. Ayon, and **J.X.-J. Yuan**. Ryanodine receptor-2, a necessity for gating store-operated Ca^{2+} channels. *Cardiovas. Res.* 111(1):13-15, 2016. (Editorial)
298. **Yuan, J.X.-J.**, N.W. Morrell, K.R. Stenmark, G. Butrous, and M.E. Reynolds. Our readership grows by leaps and bounds. *Pulm. Circ.* 6(4):405-406, 2016. (Editorial)
299. **Yuan, J.X.-J.**, N.W. Morrell, K.R. Stenmark, I.M. Lang, G. Butrous, and M.E. Reynolds. The Pulmonary Vascular Research Institute celebrates its first decade. *Pulm. Circ.* 7(1):5-6, 2017. (Editorial)
300. **Yuan, J.X.-J.**, N.W. Morrell, K.R. Stenmark, I.M. Lang, G. Butrous, and M.E. Reynolds. The Pulmonary Vascular Research Institute celebrates its first decade. *Pulm. Circ.* 7(2):283-284, 2017. (Editorial)
301. Tang, H., R. Vanderpool, J. Wang and **J.X.-J. Yuan**. Targeting L-arginine-nitric oxide-cGMP pathway in pulmonary arterial hypertension *Pulm. Circ.* 7(3):569-571, 2017. (Editorial)
302. Vanderpool, R., H. Tang, F. Rischard and **J.X.-J. Yuan**. Is p38 MAPK a dark force in right ventricular hypertrophy and failure in pulmonary arterial hypertension? *Am. J. Respir. Cell and Mol. Biol.* 57(5):506-508, 2017. (Editorial)
303. Delpire E., K.L. Hamilton, T.J. Hawke, J.S. Isenberg, S. Lotersztajn, **J.X.-J. Yuan**, and J.C. Adams. *AJP-Cell Physiology* begins landmark reviews in cell physiology: an editorial from the senior editors of *AJP-Cell Physiology*. *Am. J. Physiol. Cell Physiol.* 314:C1-C2, 2018. (Editorial)
304. O'Donnell, M.E. and **J.X.-J. Yuan**. Pathophysiology of stroke: the many and varied contributions of brain microvasculature. *Am. J. Physiol. Cell Physiol.* 315(3):C341-C342, 2018. (Editorial)
305. Babicheva A. and **J.X.-J. Yuan**. Endothelial Notch in pulmonary hypertension: Friend or Foe? *Circ. Res.* 124:176-179, 2019. (Editorial)
306. Babicheva A., T. Zhao and **J.X.-J. Yuan**. KCNK3, a major player in the field of pulmonary arterial hypertension. *Circ. Res.* 125(7):696-698, 2019. (Editorial)
307. Goncharova, E.A., M.A. Simon, and **J.X.-J. Yuan**. mTORC1 in pulmonary arterial hypertension: At the crossroads between vasoconstriction and vascular remodeling? *Am. J. Respir. Crit. Care Med.* 201(10):1177-1179, 2020 (Editorial). PMID: 31968178
308. Wang, J., K. Yang, and **J.X.-J. Yuan**. NEDD9, a hypoxia-upregulated mediator for pathogenic platelet-endothelial cell interaction in pulmonary hypertension *Am. J. Respir. Crit. Care Med.* 203(12):1455-1458, 2021 (Editorial). PMID: 33770456
309. Breen, E. and **J.X.-J. Yuan**. Targeting ATP-sensitive K^{+} channels to treat pulmonary hypertension. *Am. J. Respir. Cell Mole Biol.* 66(5): 476-478, 2022 (Editorial). PMID: 35238728
310. Rizzo, A.N. and **J.X.-J. Yuan**. NEDD9 provides mechanistic insight into the coagulopathy of COVID19. *Pulm. Circ.* 12(2): e12087, 2022 (Editorial). PMIC: 35599982.
311. Li, J.G., Y.Q. Chen, L. Wang, Y.S. Cao, and **J.X.-J. Yuan**. Calcium and pulmonary hypertension. *Front. Physiol.* 13:1019158, 2022 (Editorial). PMID: 36407003.
312. Ayon, R.J. and **J.X.-J. Yuan**. Revisit the role of KCNA5 in pulmonary arterial hypertension. *Am. J. Respir. Cell Mole Biol.* 69(2): 123-125, 2023 (Editorial). PMID: 37201951

E. Book Chapters

313. Xue, Q.F., J.M. Xie, X.X. Deng, Z.S. Qu, Y.N. Cai, C.C. Li, L. Zhao, **X.-J. Yuan**, R.L. Qiao, G.G. Chen, W.L. Liu, and X.M. Zhou. Changes of cardiac and respiratory function of Antarctic Research

- Expedition members in the Antarctic. In: "*Proceedings of International Symposium on Antarctic Research*", edited by Guo Kun. Chinese Committee on Antarctic Research, China Ocean Press, Beijing, China: 1989, p. 372-375. (Book Chapter)
314. Blaustein, M.P., S. Bova, **X.-J. Yuan** and W.F. Goldman. The role of sodium/calcium exchange in the regulation of vascular contractility. In "*Calcium Transport and Intracellular Homeostasis*", edited by Danielle Pansu and Felix Bronner. Springer-Verlag, Berlin: 1990, p. 123-132. (Book Chapter)
 315. **Yuan, X.-J.**, C.G. Salvaterra, M.L. Tod, M. Juhaszova, W.F. Goldman, L.J. Rubin, and M.P. Blaustein. The sodium gradient, potassium channels, and regulation of calcium in pulmonary and mesenteric arterial smooth muscles: Effects of Hypoxia. In "*Ion Flux in Pulmonary Vascular Control*", edited by E.K. Weir, J.R. Hume, and J.T. Reeves. Plenum, New York: 1993, p. 205-222. (Book Chapter)
 316. **Yuan, X.-J.** Mechanisms of hypoxic pulmonary vasoconstriction: The role of O₂-sensitive voltage-gated K⁺ channels. In "*Oxygen Regulation of Ion Channels and Gene Expression*", edited by J. Lopez-Barneo and E.K. Weir. Futura, New York: 1998, p. 207-233. (Book Chapter)
 317. **Yuan, J.X.-J.** and M.P. Blaustein. Cellular Potassium Transport. In "*Hypertension Primer: The Essentials of High Blood Pressure*", edited by J.L. Izzo, Jr. and H.R. Black, American Heart Association, Dallas, TX: 1998, p. 56-57. (Book Chapter)
 318. **Yuan, J.X.-J.** and L.J. Rubin. Pathophysiology of pulmonary hypertension. In "*Respiratory-Circulatory Interactions in Health and Disease*", edited by M. Pinsky, S. Scharf, and S. Magder. Marcel Dekker, Inc., New York, NY: 2001, p. 447-477. (Book Chapter)
 319. Geng, Y.-J. and **J.X.-J. Yuan**. The relationship of heart and the pathogenesis of hypertension. In "*Hypertension*", edited by L.S. Liu, L.S. Gong, M.C. Chen, and G.Y. Zeng. The People Health Publishing House, Beijing: 2001, p.140-156. (Book Chapter)
 320. **Yuan, J.X.-J.** and L.J. Rubin. Altered expression and function of Kv channels in primary pulmonary hypertension. In "*Potassium Channels in Cardiovascular Biology*", edited by S.L. Archer and N.J. Rusch. Kluwer Academic/Plenum Publishers, New York, NY: 2001, p. 821-836. (Book Chapter)
 321. **Yuan, J.X.-J.** and M.P. Blaustein. Cellular Potassium Transport. In "*Hypertension Primer (Third Edition): The Essentials of High Blood Pressure*", edited by J.L. Izzo, Jr. and H.R. Black, American Heart Association, Dallas, TX: 2003, p. 73-75. (Book Chapter)
 322. Patel, H., C.V. Remillard, and **J.X.-J. Yuan**. Hypoxic regulation of K⁺ channel expression and function in pulmonary artery smooth muscle cells. In: "*Hypoxic Pulmonary Vasoconstriction: Cellular and Molecular Mechanisms*," edited by J.X.-J. Yuan, Kluwer Academic Publishers: Boston, MA, 2004, p. 165-198. (Book Chapter)
 323. Remillard, C.V. and **J.X.-J. Yuan**. Measurement of ionic currents and intracellular Ca²⁺ using patch clamp and fluorescence microscopy techniques. In: "*Hypoxic Pulmonary Vasoconstriction: Cellular and Molecular Mechanisms*," edited by J.X.-J. Yuan, Kluwer Academic Publishers: Boston, MA, 2004, p. 569-582. (Book Chapter)
 324. Du, L., C.C. Sullivan, D. Chu, A.J. Cho, P.L. Wolf, **J.X.-J. Yuan**, S.W. Jamieson, and P.A. Thistlethwaite. Signaling molecules in non-familial pulmonary hypertension. *Yearbook Rheumatol.* 4:154-156, 2004. (Book Chapter)
 325. Remillard, C.V., O. Platoshyn, T. Sison, and **J.X.-J. Yuan**. Hypoxia-induced modulation of O₂-sensitive K⁺ channels in pulmonary vascular smooth muscle cells. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 379-407. (Book Chapter)
 326. Tigno, D.D., M. Mandegar, C.V. Remillard, and **J.X.-J. Yuan**. Downregulated Kv channels and upregulated TRPC channels in primary pulmonary hypertension. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 543-566. (Book Chapter)

327. Zhang, S., C.V. Remillard, O. Platoshyn, and **J.X.-J. Yuan**. Isolation and culture of pulmonary artery smooth muscle cells. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 605-613. (Book Chapter)
328. Remillard, C.V. and **J.X.-J. Yuan**. Measurement of ion channel function using conventional patch-clamp techniques. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 615-633. (Book Chapter)
329. Yu, Y., O. Platoshyn, and **J.X.-J. Yuan**. Correlation of ion channel activity with gene expression using single-cell RT-PCR and patch clamp techniques. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 653-663. (Book Chapter)
330. Keller, S.H., B.H. Parker, and **J.X.-J. Yuan**. Ion channel trafficking. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 665-685. (Book Chapter)
331. Brevnova, E.E., B.H. Parker, O. Platoshyn, and **J.X.-J. Yuan**. Functional study of cloned ion channels in mammalian transfection systems using site-directed mutagenesis. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 687-709. (Book Chapter)
332. Fantozzi, I., C.V. Remillard, M. Mandegar, and **J.X.-J. Yuan**. Screening for mRNA expression using polymerase chain reaction. In: "*Ion Channels in the Pulmonary Vasculature*," edited by J.X.-J. Yuan, Taylor & Francis: Boca Raton, FL: 2005, p. 711-731 (Book Chapter)
333. **Yuan, J.X.-J.** and M.P. Blaustein. Cellular Potassium Transport. In "*Hypertension Primer (Fourth Edition): The Essentials of High Blood Pressure*," edited by J.L. Izzo, Jr., D.A. Sica and H.R. Black. American Heart Association and Lippincott Williams & Wilkins: Philadelphia, PA: 2008, p. 24-26. (Book Chapter)
334. **Yuan, J.X.-J.** and L.J. Rubin. Idiopathic and Familial Pulmonary Arterial Hypertension. In: "*Encyclopedia of Molecular Mechanisms of Disease*," edited by F. Lang. Springer Berlin Heidelberg: Germany, 2009; p. 937-939. (Book Chapter)
335. Song, M.Y. and **J.X.-J. Yuan**. Introduction to TRP Channels: structure, function, and regulation. In: "*Membrane Receptors, Channels, and Transporters in Pulmonary Circulation*," edited by J.X.-J. Yuan and J.P.T. Ward. Humana Press-Springer: New York, NY: 2010; p. 99-108. (Book Chapter)
(Song, M.Y. and **J.X.-J. Yuan**. Introduction to TRP Channels: structure, function, and regulation. *Adv. Exp. Med. Biol.* 661:99-108, 2010. (Review Article))
336. **Yuan, J.X.-J.** and A. Makino. A Tribute to Dr. Yuan-Cheng B. Fung. In: "*Tributes to Yuan-Cheng Fung on his 90th Birthday. Biomechanics: From Molecules to Man*," edited by S. Chien, P.C.-Y. Chen, G.W. Schmid-Schonbein, P. Tong and S.L.-Y. Woo. World Scientific Publishing Co. Pte. Ltd., Hackensack, NJ, 2010, p. 339-342. (Tribute)
337. Wang, J., C.V. Remillard, W.J. Lu, Y.-C. B. Fung, W. Huang, L.J. Rubin, and **J.X.-J. Yuan**. Pathophysiology of pulmonary hypertension. 2009. (Book Chapter)
338. Firth, A.L., A. White, and **J.X.-J. Yuan**. Potassium channels and apoptosis: Application to pulmonary vascular disease. In "*Apoptosis: Modern Insights Into Disease From Molecules to Man*," edited by V.R. Preedy. Science Publishers, Enfield, NH, 2010, p. 357-372. (Book Chapter)
339. Firth, A.L. and **J.X.-J. Yuan**. Ion channels and transporters in the pulmonary vasculature. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 221-242. (Book Chapter)
340. Murray, F., **J.X.-J. Yuan** and P.A. Insel. Receptor-mediated signal transduction and cell signaling. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 243-270. (Book Chapter)
341. Remillard, C.V., A. Makino and **J.X.-J. Yuan**. Isolation and culture of pulmonary vascular smooth muscle and endothelial cells. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 483-492. (Book Chapter)

342. Remillard, C.V. and **J.X.-J. Yuan**. Conventional patch clamp techniques and high-throughput patch clamp recordings on a chip for measuring ion channel activity. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 493-508. (Book Chapter)
343. Murray, F., **J.X.-J. Yuan** and P.A. Insel. Quantification of DNA, RNA, and protein expression. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 523-536. (Book Chapter)
344. Breen, E.C. and **J.X.-J. Yuan**. Gene cloning, transfection and mutagenesis. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 537-554. (Book Chapter)
345. Yu, Y. and **J.X.-J. Yuan**. Approaches for manipulation of gene and protein expression. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 555-564. (Book Chapter)
346. Firth, A.L., W. Yao and **J.X.-J. Yuan**. Identification of adult stem and progenitor cells in the pulmonary vasculature. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 619-634. (Book Chapter)
347. Wang, J., D. Zhang, C.V. Remillard and **J.X.-J. Yuan**. Pathogenic roles of Ca^{2+} and ion channels and transporters in hypoxia-mediated pulmonary hypertension. In: "*Textbook of Pulmonary Vascular Disease*," edited by J.X.-J. Yuan, J.G.N. Garcia, C.A. Hales, S. Rich, S.L. Archer and J.B. West, Springer: New York, NY; 2011, p. 681-692. (Book Chapter)
348. Firth, A.L. and **J.X.-J. Yuan**. Pulmonary hypertension: Pathogenesis and etiology. In: "*Manual of Clinical Problems in Pulmonary Medicine*, Seventh Edition" (A Lippincott Manual) edited by Morris T.A., Ries A.L., and Bordow R.A. Wolters Kluwer: Philadelphia, PA; 2014. p. 420-425. (Book Chapter)
349. Smith, K.A., D.R. Fraidenburg, and **J.X.-J. Yuan**. Targeted therapies: endothelin receptor antagonists (Chapter 5). In: "*Advances in the Management of Pulmonary Arterial Hypertension*" (eBook) edited by Smith K.A., Fraidenburg D.R., and Yuan J.X.-J, Future Medicine, London, UK; 2013, p. 65-73. (Book Chapter)
350. Firth, A.L., R.A. Fernandez and **J.X.-J. Yuan**. Adult lung stem cells. In: "*Adult Stem Cells*" (Stem Cell Biology and Regenerative Medicine) edited by K. Turksen, Springer Science +Business Media New York: New York, NY; 2014, p. 287-318. (Book Chapter)
351. Rizzo, A.N., D.R. Fraidenburg, and **J.X.-J. Yuan**. Pulmonary Vascular Anatomy. In: "*PanVascular Medicine (Volume 5, Second Edition)*" edited by P. Lanzer. Springer-Verlag Berlin Heidelberg, Germany, 2015. Part XXI, p. 4041-4056. (Book Chapter)
352. Rizzo, A.N., D.R. Fraidenburg, and **J.X.-J. Yuan**. Pulmonary Vascular Physiology and Pathophysiology. In: "*PanVascular Medicine (Volume 5, Second Edition)*," edited by P. Lanzer. Springer-Verlag Berlin Heidelberg, Germany, 2015. Part XXI, p. 4057-4077. (Book Chapter)
353. Fraidenburg, D.R. and **J.X.-J. Yuan**. Pathogenesis of Pulmonary Arterial Hypertension. In: "*PanVascular Medicine (Volume 5, Second Edition)*," edited by P. Lanzer. Springer-Verlag Berlin Heidelberg, Germany, 2015. Part XXI, p. 4079-4104. (Book Chapter)
354. Fraidenburg, D.R., **J.X.-J. Yuan** and S.P. Gaine. Diagnosis and treatment of pulmonary arterial hypertension. In: "*PanVascular Medicine (Volume 5, Second Edition)*," edited by P. Lanzer. Springer-Verlag Berlin Heidelberg, Germany, 2015. Part XXI, p. 4105-4133. (Book Chapter)
355. Firth, A.L. and **J.X.-J. Yuan**. The role of stem cells in vascular remodeling in CTEPH. In: "*Lung Stem Cells in the Epithelium and Vasculature*", edited by A. Firth and J.X.-J. Yuan. Humana Press/Springer Cham Heidelberg New York Dordrecht London; 2015, p. 277-287. (Book Chapter)
356. Taichman, D.B., J. Mandel, K.A. Smith, and **J.X.-J. Yuan**. Pulmonary Arterial Hypertension (Chapter 72). In: "*Fishman's Pulmonary Diseases and Disorders*" (5th ed., Vol. 1), edited by M.A. Grippi (Editor-in-Chief). J.A. Elias, J.A. Fishman, R.M. Kotloff, A.I. Pack and R.M. Senior (Editors). McGraw Hill Education: New York, NY; 2015, p. 1064-1110. (Book Chapter)

357. Zhang, W. and **J.X.-J. Yuan**. Applying Pharmacogenomics in the Therapeutics of Pulmonary Diseases. In: “*Applying Pharmacogenomics in Therapeutics*” edited by X. Feng. Springer (Taylor & Francis Publisher): New York, NY; 2015, p. 221-242. (Book Chapter) (ISBN, 1466582677, 9781466582675)
358. Ayon, R.J., H. Tang, R.A. Fernandez and **J.X.-J. Yuan**. Smooth muscle cell ion channels in pulmonary arterial hypertension: Pathogenic Role in Pulmonary Vasoconstriction and Vascular Remodeling. In: “*Vascular Ion Channels in Physiology and Disease*”, edited by I. Levitan and A. Dopico. Springer Science New York: New York, NY; 2016. p. 295-324. (Book Chapter) (ISBN: 978-3-319-29635-7)
359. Babicheva, A., K.M. McDermott, S.C. Williams, A.M. Yee, S. Dash, M. Rodriguez, N. Ingabire, A. Makino and **J.X.-J. Yuan**. Pathogenic and Therapeutic Role of MicroRNA in Pulmonary Arterial Hypertension. In: “*Diagnosis and Treatment of Pulmonary Hypertension – From Bench to Bedside*”, edited by Y. Fukumoto. Springer Nature: Singapore, Singapore; 2017, p. 31-54. (Book Chapter) (ISBN, 978-981-287-839-7)
360. Fraidenburg, D.R. and **J.X.-J. Yuan**. Pulmonary Hypertension (Ch. 99559). In: “*Encyclopedia of Cardiovascular Research and Medicine*” (1st ed.), edited by D. Sawyer and V. Ramachandran. Elsevier: Laguna Hills, CA; 2018, p. 204-222 (Book Chapter) (ISBN, 978-012-809-657-4)
361. Fraidenburg, D.R., A. Desai, and **J.X.-J. Yuan**. Treatment of Pulmonary Arterial Hypertension (Chapter 31). In: “*Goodman & Gilman’s The Pharmacological Basis of Therapeutics*” (13th ed.), edited by L.L. Brunton (Editor-in-Chief), R. Hilal-Dandan and B.C. Knollmann (Editors). McGraw Hill Education: New York, NY; 2018, p. 573-584. (Book Chapter) (ISBN, 978-1-25958473-2)
362. Acosta, M.F., D. Hayes, Jr., J.R. Fineman, **J.X.-J. Yuan**, S.M. Black, and H.M. Mansour. Therapeutics in Pulmonary Hypertension (Ch. 19). In: “*Inhalation Aerosols: Physical and Biological Basis for Therapy*” (3rd Edition), edited by A.J. Hickey and H.M. Mansour, CRC Press/Taylor & Francis Group: New York, NY; 2019, p. 313-322. (Book Chapter) (ISBN 9781138064799)
363. Jain, P.P., S. Hosokawa, A. Babicheva, T. Zhao, J. Chen, P.A. Thistlethwaite, A. Makino and **J.X.-J. Yuan**. In vivo and ex vivo experimental approach for studying functional role of Notch in pulmonary vascular disease. In: “*Notch Signaling Research. Methods in Molecular Biology*” (Vol. 2472), edited by D. Jia. Humana: New York, NY; pp. 209-222. 2022 (Doi: 10.1007/978-1-0716-2201-8_17) (Book Chapter). Also listed as: Jain, P.P., S. Hosokawa, A. Babicheva, T. Zhao, J. Chen, P.A. Thistlethwaite, A. Makino, and **J.X.-J. Yuan**. In vivo and ex vivo experimental approach for studying functional role of Notch in pulmonary vascular disease. *Methods Mol. Biol.* 2472:209-220, 2022 (doi: 10.1007/978-1-0716-2201-8_17). PMID: 35674903
364. Fraidenburg, D.R., A. Desai, A. Makino, and **J.X.-J. Yuan**. Treatment of Pulmonary Arterial Hypertension (Chapter 35). In: “*Goodman & Gilman’s The Pharmacological Basis of Therapeutics*” (14th ed.), edited by L.L. Brunton (Editor-in-Chief) and B.C. Knollmann (Editor). McGraw Hill: New York, NY; 2023, pp. 695-707. (Book Chapter) (ISBN, 9781264258079)
365. Kim, N.H., J. Mandel, K.A. Smith, and **J.X.-J. Yuan**. Pulmonary Arterial Hypertension (Chapter 72). In: “*Fishman’s Pulmonary Diseases and Disorders*” (6th ed., Vol. 1), edited by M.A. Grippi (Editor-in-Chief). D.E. Antin-Ozerkis, C.S. Dela Cruz, R.M. Kotloff, C.N. Kotton, A.I. Pack (Editors). McGraw Hill: New York, NY; 2023, p. 1211-1256. (Book Chapter). Set: ISBN 978-1-260-47398-8; Volume 1: ISBN 978-1-260-47494-0.

F. Other Work

1. **Yuan, X.-J.** Mechanisms of hypoxia-induced pulmonary vasoconstriction and comparison of the pulmonary and systemic vasculature in responses to hypoxia (1993). (Thesis).
2. Ekhterae, D., O. Platoshyn, S. Krick, Y. Yu, and **J.X.-J. Yuan**. Bel-2-mediated inhibition of voltage-gated K⁺ channel activity enhances cell survival. *XXXIV International Congress of Physiological Sciences (IUPS)*, 2001. (Abstract)

3. **Yuan, J.X.-J.**, S. Krick, O. Platoshyn, V.A. Golovina, Y. Yu, M. Sweeney, H. Kim, C.L. Bailey, J. Wang, and S.S. McDaniel. Mechanisms of nitric oxide-mediated vasodilative and antiproliferative effects on pulmonary artery smooth muscle cells. *American Heart Association Research Symposium*, May 5, 2001 (Dallas, TX); p. 4. (Presented Abstract).
4. Lapp, B.R. and **J.X.-J. Yuan**. Impact factor and its impact on scientific journals. *CPCC Newsletter* 23(1):26-28, 2002. (Commentary)
5. Landsberg, J. and **J.X.-J. Yuan**. Molecular mechanisms involved in severe pulmonary hypertension: New insights into pathogenesis and potential therapeutic approaches. *CPCC Newsletter* 23(2):12-16, 2002. (Short Review)
6. Patel, H.H., R.S. Ostrom, C. Gregorian, S.S. McDaniel, **J.X.-J. Yuan**, and P.A. Insel. Adenylyl cyclase expression and receptor coupling in human pulmonary artery smooth muscle cells. *Grover Conference on Proinflammatory Signaling Mechanisms in the Pulmonary Circulation*, American Heart Association, September 5-8, 2002 (Sedalia, CO); p. 12. (Presented Abstract).
7. **Yuan, J.X.-J.** Role of ion channels in pulmonary hypertension. FASEB Summer Research Conference: Smooth Muscle, July 5-10, 2003 (Snowmass, CO); Section 3. (Presented Abstract).
8. Yu, Y., J.W. Landsberg, L.J. Rubin, and **J.X.-J. Yuan**. A functional single-nucleotide polymorphism (-254 C to G) in the TRPC6 gene is associated with idiopathic pulmonary arterial hypertension. *American Heart Association 2005 Young Investigators Forum*, p33; September 30, 2005 (Irvine, CA). (Presented Abstract)
9. Remillard, C.V., I. Fantozzi, O. Platoshyn, A.H. Wong, S. Zhang, M.H. Furtado, O. Petrauskene, and **J.X.-J. Yuan**. BMP2 enhances Kv channel expression and function in human pulmonary artery smooth muscle cells. *American Heart Association 2005 Young Investigators Forum*, P38; September 30, 2005 (Irvine, CA). (Presented Abstract)
10. Insel, P.A., B.P. Head, J.S. Swaney, D.M. Roth, F. Murray, H.H. Patel, and **J.X.-J. Yuan**. Lipid rafts in GPCR signaling via adenylyl cyclase. Keystone meeting, 2005. (Presented Abstract).
11. **Yuan, J.X.-J.** Evaluation for Frid MG et al., Hypoxia-induced pulmonary vascular remodeling requires recruitment of circulating mesenchymal precursors of a monocyte/macrophage lineage. *Am. J. Pathol.* 2006; 168(2):659-69. *Faculty of 1000 Biology* 31 Jan 2006. (Comment)
12. Burg, E.D., C.V. Remillard, and **J.X.-J. Yuan**. Potassium channels in the regulation of pulmonary artery smooth muscle cell proliferation and apoptosis. *LifeSciences2007* (9-12 July, 2007, Glasgow, UK) (Programme & Speaker Abstracts), 112P-113P, 2007. (Presented Abstract)
13. **Yuan, J.X.-J.** Evaluation for Long L et al., Serotonin increases susceptibility to pulmonary hypertension in BMPR2-deficient mice. *Circ. Res.* 2006; 98(6):818-27. *Faculty of 1000 Biology* 6 Sept 2007. (Comment)
14. **Yuan, J.X.-J.** Evaluation for Cogolludo A et al., Serotonin inhibits voltage-gated K⁺ currents in pulmonary artery smooth muscle cells: role of 5-HT_{2A} receptors, caveolin-1 and Kv1.5 channel internalization. *Circ. Res.* 2006; 98(7):931-8. *Faculty of 1000 Biology* 6 Sept 2007. (Comment)
15. **Yuan, J.X.-J.** Evaluation for Xu W et al., Alterations of cellular bioenergetics in pulmonary arterial endothelial cells. *Proc. Natl. Acad. Sci. USA.* 2007; 104(4):1342-7. *Faculty of 1000 Biology* 12 Sept 2007. (Comment)
16. **Yuan, J.X.-J.** Evaluation for Masri FA et al., Hyperproliferative apoptosis-resistant endothelial cells in idiopathic pulmonary arterial hypertension. *Am. J. Physiol. Lung Cell Moll Physiol.* 2007; 293(3):L548-54. *Faculty of 1000 Biology* 1 Oct 2007. (Comment)
17. **Yuan, J.X.-J.** Evaluation for Taraseviciene-Stewart L et al., Absence of T cells confers increased pulmonary arterial hypertension and vascular remodeling. *Am. J. Respir. Crit. Care Med.* 2007; 175(12):1280-9. *Faculty of 1000 Biology* 8 Nov 2007. (Comment)
18. **Yuan, J.X.-J.** TRP channels and pulmonary vascular remodeling in CTEPH. *Chronic Thromboembolic Pulmonary Hypertension: An Interactive and Educational Workshop* (June 6, 2008, Vienna, Austria) (Abstract Book), p. 9, 2008. (Presented Abstract)
19. Yao, W., R.S. Sacks, A. Ogawa, A.L. Firth, W.R. Auger, M. Madani, N. Sakakibara, P.A. Thistlethwaite, S.W. Jamieson, L.J. Rubin, and **J.X.-J. Yuan**. Structural changes of the pulmonary

- vasculature in patients with chronic thromboembolic pulmonary hypertension. *Chronic Thromboembolic Pulmonary Hypertension: An Interactive and Educational Workshop* (June 7, 2008, Vienna, Austria). (Poster Presentation)
20. Firth, A.L., A. Ogawa, W. Yao, O. Platoshyn, C.V. Remillard, R.S. Sacks, W.R. Auger, M. Madani, P.A. Thistlethwaite, S.W. Jamieson, and **J.X.-J. Yuan**. Vast morphological diversity exists in cells isolated from endarterectomized tissue from patients with chronic thromboembolic pulmonary hypertension. *Chronic Thromboembolic Pulmonary Hypertension: An Interactive and Educational Workshop* (June 7, 2008, Vienna, Austria). (Poster Presentation)
 21. Firth, A.L., W. Yao, and **J.X.-J. Yuan**. Functional voltage dependent K^+ channels are present in human embryonic stem cells. *Proceedings of CIRM, 2008*. (Poster Presentation)
 22. **Yuan, J.X.-J.** Evaluation for Moretti A et al., Multipotent embryonic isl1⁺ progenitor cells lead to cardiac, smooth muscle, and endothelial cell diversification. *Cell* 2006; 127(6):1151-65. *Faculty of 1000 Biology* 13 Feb 2008. <http://f1000.com/prime/1100314>. (Comment)
 23. **Yuan, J.X.-J.** Evaluation for Novershtern N et al., A functional and regulatory map of asthma. *Am. J. Respir. Crit. Care Med.* 2008; 38(3):324-36. *Faculty of 1000 Biology* 14 March 2008. (Comment)
 24. **Yuan, J.X.-J.** Evaluation for Zhong N et al., Prevalence of chronic obstructive pulmonary disease in China: a large, population-based survey. *Am. J. Respir. Crit. Care Med.* 2007; 176(8):753-60. *Faculty of 1000 Biology* 27 March 2008. (Comment)
 25. **Yuan, J.X.-J.** Evaluation for Xu SZ et al., TRPC channel activation by extracellular thioredoxin. *Nature* 2008; 451(7174):69-72. *Faculty of 1000 Biology* 27 March 2008. (Comment)
 26. **Yuan, J.X.-J.** Evaluation for Hoetzel A et al., Carbon monoxide protects against ventilator-induced lung injury via PPAR- γ and inhibition of Egr-1. *Am. J. Respir. Crit. Care Med.* 2008; 177(11):1223-32. *Faculty of 1000 Biology* 2 June 2008. (Comment)
 27. **Yuan, J.X.-J.** Evaluation for Davis BN et al., SMAD proteins control DROSHA-mediated microRNA maturation. *Nature* 2008; 454(7200):56-61. *Faculty of 1000 Biology* 7 Aug 2008. (Comment)
 28. Firth, A.L. and **J.X.-J. Yuan**. Evaluation for Satoh K et al., Statin ameliorates hypoxia-induced pulmonary hypertension associated with down-regulated stromal cell-derived factor-1. *Cardiovasc. Res.* 2009; 81(1):226-34. *Faculty of 1000 Biology* 16 Dec 2008. (Comment)
 29. **Yuan, J.X.-J.**, O. Platoshyn, E.E. Brevnova, F.L. Powell, and G.G. Haddad. Hypoxia selectively inhibits KCNA5 channels in pulmonary artery smooth muscle cells. *Hypoxia and Consequences: From Molecule to Malady*, The New York Academy of Sciences, 2009. (Abstract)
 30. Firth, A.L. and **J.X.-J. Yuan**. Vascular cell proliferation regulated by ion channels. The International Union of Physiological Sciences (IUPS) Satellite Symposium (Post-genomic Advances in the Physiology of Smooth Muscle), July 22-24, 2009 (Nagoya, Japan); Section 6. (Presented Abstract)
 31. Remillard, C.V. and **J.X.-J. Yuan**. Evaluation for Fabian A et al., TRPC1 channels regulate directionality of migrating cells. *Pflugers Arch* 2008; 457(2):475-84. *Faculty of 1000 Biology* 13 Feb 2009. (Comment)
 32. Remillard, C.V. and **J.X.-J. Yuan**. Evaluation for Perros F et al., Platelet-derived growth factor expression and function in idiopathic pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 2008; 178(1):81-8. *Faculty of 1000 Biology* 13 Feb 2009. (Comment)
 33. Firth, A.L. and **J.X.-J. Yuan**. Evaluation for Farkas L et al., VEGF ameliorates pulmonary hypertension through inhibition of endothelial apoptosis in experimental lung fibrosis in rats. *J. Clin. Invest.* 2009; 119(5):1298-311. *Faculty of 1000 Biology* 15 May 2009. (Comment)
 34. Firth, A.L. and **J.X.-J. Yuan**. Evaluation for Zhou H et al., Generation of induced pluripotent stem cells using recombinant proteins. *Cell Stem Cell* 2009; 4(5):381-4. *Faculty of 1000 Biology* 22 July 2009. (Comment)
 35. Firth, A.L. and **J.X.-J. Yuan**. Evaluation for Donohoe ME et al., The pluripotency factor Oct4 interacts with Ctfc and also controls-X-chromosome pairing and counting. *Nature* 2009; 460(7251):128-32. *Faculty of 1000 Biology* 12 Aug 2009. (Comment)

36. Firth, A.L. and **J.X.-J. Yuan**. Evaluation for Lu W et al., Knockdown of stromal interaction molecule 1 attenuates store-operated Ca^{2+} entry and Ca^{2+} responses to acute hypoxia in pulmonary arterial smooth muscle. *Am. J. Physiol. Lung Cell Moll Physiol.* 2009; 297(1):L17-25. *Faculty of 1000 Biology* 25 Sept 2009. (Comment)
37. **Yuan, J.X.-J.** and S.L. Archer. Progress report on the textbook of pulmonary vascular disease. *PVRI Review* 2(1):50-51, 2010. (Taskforce Report)
38. **Yuan, J.X.-J.** and M. McGoon. TRP for therapy of pulmonary arterial hypertension. *PathLight* 19(2):16-17, 2010. (Research Corner)
39. West, J.B. (Wu, T., Z. Fu, J. Wang, and **J.X.-J. Yuan**). English Translation of “Nomenclature, Classification and Diagnostic Criteria of High Altitude Disease in China”. *High Alt. Med. Biol.* 11(2):169-172, 2010 [Translation; from *Gao Yuan Yi Xue Za Zhi (Chinese Journal of High Altitude Medicine)* 6(1):1-4, 1996]
40. Zeifman, A. and **J.X.-J. Yuan**. Adiponectin: A fat cell-derived protein that may protect against PH. *PathLight* 20(1):16, 2011. (Research Corner)
41. Ogawa, A., M.M. Madani, P.A. Thistlethwaite, P.F. Fedullo, W.R. Auger, K.M. Kerr, N.H. Kim, and **J.X.-J. Yuan**. Involvement of platelet-derived growth factor and thrombin in vascular remodeling in chronic thromboembolic pulmonary hypertension. *Abstracts Selected for Oral Presentation*. International Scientific & Educational Workshop in CTEPH, Cambridge, UK, 2011 (June 28-29).
42. **Yuan, J.X.-J.** Ca^{2+} -sensing receptor and receptor-operated Ca^{2+} entry in pulmonary hypertension. *Nihon Heikatsukin Gakkaizassi (Journal of Japan Smooth Muscle Society)* 15(1):J1, 2011. (Abstract Presentation)
43. Desai, A.A., H. Ahmad, T. Zhou, W. Zhang, S. Trevino, M.S. Wade, N. Raghavachari, M. Peters-Lawrence, G.J. Kato, T. Thiruvoipati, K. Turner, N. Artz, Y. Huang, A.R. Patel, **J.X.-J. Yuan**, V. Gordeuk, R.M. Lang, J.G.N. Garcia and R.F. Machado. Integration of genomic and genetic approaches highlight a novel validated gene signature for pulmonary hypertension associated with sickle cell disease. Presented at the 53rd American Society of Hematology Annual Meeting and Exposition (December 12, 2011). (Abstract Presentation)
44. Smith, K.A. and **J.X.-J. Yuan**. Functional interaction of CaSR, TRPC6 and NCX in pulmonary arterial hypertension. Speaker Abstracts, FASEB Science Research Conference: Smooth Muscle, June 24-29, 2012 (Snowmass Village, CO); Section 4. (Presented Abstract)
45. **Yuan, J.X.-J.** A fatal disease, idiopathic pulmonary arterial hypertension, and our hope for the cure. John Simon Guggenheim Memorial Foundation Newsletter, October 2012. (Editorial)
46. Fraidenburg, D, K. Collins, and **J.X.-J. Yuan**. Examining extracellular calcium sensing receptors in PAH. *PathLight* 23(1):19, 2014. (Research Corner)
47. Tang, H., J. Chen, D.R. Fraidenburg, S. Song, J.G.N. Garcia, R.F. Machado, A. Makino, and **J.X.-J. Yuan**. PI3K-Akt1-mTOR signaling is involved in the development and progression of pulmonary arterial hypertension. Abstracts, Joint Meeting of the 2nd annual congress of Japanese Pulmonary Hypertension Society (JPHS) and Japanese Pulmonary Circulation Society, 3rd Scientific Meeting (JPCS), October 3-5, 2014 (Tokyo, Japan). (Presented Abstract)
48. Tang, H., D.R. Fraidenburg, Y. Gu, R.J. Ayon, R.A. Fernandez, S. Song, A. Makino, and **J.X.-J. Yuan**. Deficiency of extracellular calcium-sensing receptor (CaSR) attenuates hypoxia-induced pulmonary vasoconstriction and pulmonary hypertension. The 2nd International Symposium on the Calcium-sensing Receptor (Abstract, pp. 44-45), March 3-4, 2015 (San Diego, CA). (Presented Abstract)
49. Gu, Qing, D. Yang, H. Tang, C. Xiong, Z. Zhao, Q. Luo, J. He, Z. Liu, and **J.X.-J. Yuan**. A case of polythemia vera with pulmonary hypertension, pulmonary embolism hypertension and renal artery stenosis. 2015 Combined Annual Meeting of CSCTR (Central Society for Clinical and Translational Research) and MWAfMR (Midwestern Section of the American Federation for Medical Research), April 23-24, 2015 (Chicago, IL). (Presented Abstract)

50. Gu, Y., H. Tang, D.R. Fraidenburg, Q. Gu, A. Makino and **J.X.-J. Yuan**. Role of voltage-gated Na⁺ channels in hypoxia-induced pulmonary vasoconstriction. 2015 Combined Annual Meeting of CSCTR (Central Society for Clinical and Translational Research) and MWAFMR (Midwestern Section of the American Federation for Medical Research), April 23-24, 2015 (Chicago, IL). (Presented Abstract)
51. Lathen, C., Y. Zhang, J. Chow, M. Singh, G. Lin, V. Nigam, Y.A., Ashraf, **J.X.-J. Yuan**, I.M. Robbins, and P.A. Thistlethwaite. Response to Letter Regarding Article, "The ERG-APLNR axis controls pulmonary venule endothelial proliferation in pulmonary veno-occlusive disease". *Circulation* 132(2):e17, 2015.

G. Abstracts (Peer-Reviewed)

1. **Yuan, X.-J.**, L. Zhao, and X.X. Deng. The role of mast cell and leukotriene in acute hypoxic pulmonary hypertension in rats. *Natl. Altitude Med. Symp. Chin. Med. Assoc.* p. 12-13, August, 1988.
2. **Yuan, X.-J.**, L. Zhao, and X.X. Deng. Influence of different hypoxia condition on right and left ventricular contractility and pulmonary arterial pressure. *CAPS News and Commun.* p. 6-7, 1988.
3. Zhao, L., **X.-J. Yuan**, and X.X. Deng. Effects of continuous and intermittent hypoxia on the development of hypoxic pulmonary hypertension in rats. *CAPS News and Commun.*, p. 3-4, 1988.
4. **Yuan, X.-J.** and M.P. Blaustein. The effects of Na⁺/Ca²⁺ exchange on vasoconstriction. *Proc. XVIII Chin. Physiol. Conference*, p. 208, November 1989.
5. **Yuan, X.-J.**, S. Bova, W.F. Goldman, and M.P. Blaustein. Correlation of vasoconstriction-induced contractions in arterial rings with Ca²⁺ transients imaged in cultured arterial smooth muscle. *Hypertension* 14:332, 1989.
6. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin, and M.P. Blaustein. Divergent responses of small pulmonary and mesenteric muscular arteries to K⁺ and hypoxia. *Physiologist* 32(4):166, 1989.
7. Bova, S., W.F. Goldman, **X.-J. Yuan** and M.P. Blaustein. Sodium gradient influences agonist-induced Ca⁺⁺ transients in single vascular smooth muscle cells: a fluorescence digital imaging microscopy study. *Pharmacol. Res.* 21(suppl. 1):113-114, 1989.
8. Tod, M.L., **X.-J. Yuan**, L.J. Rubin, and M.P. Blaustein. Effect of external Na⁺ on resting tension in rat pulmonary and mesenteric muscular arteries. *Physiologist* 32(4):165, 1989.
9. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin, and M.P. Blaustein. Hypoxic pulmonary vasoconstriction is independent of endothelium. *FASEB J.* 4(3):A812, 1990.
10. Shima, H., **X.-J. Yuan**, W.F. Goldman, and M.P. Blaustein. Phorbol-12, 13-dibutyrate (PDBu) diminishes serotonin-induced Ca²⁺ transients but increases serotonin-evoked contractions in vascular smooth muscle. *FASEB J.* 4(3):A441, 1990.
11. Tseng, C.M., **X.-J. Yuan**, C.G. Salvaterra, L.J. Rubin, and M.L. Tod. Endothelium contributes to the initial rapid contraction and relaxation in response to changes in oxygen tension in pulmonary arteries. *Am. Rev. Resp. Dis.* 143(4):A787, 1991.
12. Blaustein, M.P., R.J. Bloch, S. Bova, W.F. Goldman, M. Juhaszova, D. Podberesky, D.N. Weiss, and **X.-J. Yuan**. Regulation of vascular smooth muscle (VSM) contractility: Roles of the sarcoplasmic reticulum (SR) and the sodium/calcium exchanger. *Proc. International Smooth Muscle Meeting*, Japan, 1992.
13. **Yuan, X.-J.**, W.F. Goldman, L.J. Rubin, and M.P. Blaustein. Inward and outward currents of rat pulmonary (PA) and mesenteric (MA) artery cells in primary culture and in subculture. *Biophys. J.* 61(2):A308, 1992.
14. **Yuan, X.-J.**, W.F. Goldman, M.L. Tod, L.J. Rubin, and M.P. Blaustein. Contrasting effects of hypoxia on K⁺ currents in cultured pulmonary and mesenteric artery cells. *Am. Rev. Resp. Dis.* 145(4):A227, 1992.
15. Anderson, D.E., C.M. Tseng, **X.-J. Yuan**, M.L. Tod, G.M. Rosen, and L.J. Rubin. Spin-traps induce pulmonary artery relaxation independent of free radical trapping. *Am. Rev. Respir. Dis.* 147(4):A136, 1993.

16. Tod, M.L., R. McIntosh, G. Raval, and **X.-J. Yuan**. Potassium channels are not involved in rat pulmonary vascular relaxation to prostaglandin I₂. *Am. Rev. Respir. Dis.* 147(4):A136, 1993.
17. **Yuan, X.-J.**, S. Sugiyama, W.F. Goldman, L.J. Rubin, and M.P. Blaustein. A mitochondrial uncoupler, FCCP, increases K⁺ current in rat pulmonary artery myocytes. *Biophys. J.* 64(2):A315, 1993.
18. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin, and M.P. Blaustein. Glycolysis inhibitor and antioxidant reduce K⁺ currents in rat pulmonary myocytes. *FASEB J.* 7:A329, 1993.
19. **Yuan, X.-J.**, W.F. Goldman, L.J. Rubin, and M.P. Blaustein. Effects of oxidative phosphorylation inhibition on Ca²⁺-activated and voltage-gated K⁺ channels in pulmonary artery cells. *Biophys. J.* 66(2):A330, 1994.
20. Bright, R.T., **X.-J. Yuan**, and C.G. Salvaterra. Inhibition of glycolysis increases cytosolic calcium in rat pulmonary artery smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 149(4): A293, 1994.
21. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin, and M.P. Blaustein. Cytochrome P-450 inhibition reduces voltage-gated K⁺ channel currents in rat pulmonary artery cells. *Am. J. Respir. Crit. Care Med.* 149(4):A293, 1994.
22. **Yuan, X.-J.**, L.J. Rubin, and M.P. Blaustein. Voltage-gated K⁺ current is a major contributor regulating E_m and [Ca²⁺]_i in pulmonary artery myocytes. *FASEB J.* 9(3):A599, 1995.
23. **Yuan, X.-J.**, L.J. Rubin, and M.P. Blaustein. Effects of oxygen tension on ion channel activity in vascular smooth muscle. *Abst. IBRO 4th World Cong. Neurosci.* p. 26, 1995.
24. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin, and M.P. Blaustein. Hypoxic and metabolic regulation of voltage-gated K⁺ channels in pulmonary artery smooth muscle cells. *J. Physiol.* 487(P):10S-11S, 1995.
25. **Yuan, X.-J.**, M.L. Tod, L.J. Rubin, and M.P. Blaustein. Nitric oxide hyperpolarizes pulmonary artery myocytes and decreases cytosolic calcium by activating voltage-gated potassium channels. *Circulation* 92(8, Supplement I):I-G, 1995.
26. Zhao, Y., L.J. Rubin, and **X.-J. Yuan**. Inhibition of voltage-gated K⁺ channels by 4-aminopyridine antagonizes nitric oxide induced relaxation in isolated rat pulmonary artery. *Circulation* 92(8, suppl. I):I-701, 1995.
27. Tod, M.L., A.M. Aldinger, J.B. Gordon, and **X.-J. Yuan**. Acute hypoxia releases calcium from inositol triphosphate-sensitive stores independent of influx in neonatal lamb pulmonary artery smooth muscle cells. *Circulation* 92(8, suppl. I):I-701, 1995.
28. **Yuan, X.-J.** and L.J. Rubin. Calcium-activated chloride current in pulmonary artery smooth muscle cells. *Biophys. J.* 70(2):A287, 1996.
29. Bright, R.T., A.M. Aldinger, L.J. Rubin, and **X.-J. Yuan**. Nitric oxide inhibits serotonin-induced calcium release in pulmonary artery smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 153(4):A814, 1996.
30. Zhao, Y., L.J. Rubin, and **X.-J. Yuan**. Roles of potassium and chloride channels in cAMP-induced pulmonary vasodilation. *Circulation* 94(8, suppl):I-232, 1996.
31. **Yuan, X.-J.**, A.M. Aldinger, J.B. Orens, J.V. Conte, and L.J. Rubin. Dysfunctional voltage-gated potassium channels in the pulmonary artery smooth muscle cells of patients with primary pulmonary hypertension. *Circulation* 94(8, suppl):I-48, 1996.
32. **Yuan, X.-J.**, J. Wang, M. Juhaszova, V.A. Golovina, and L.J. Rubin. Functional expression of voltage-gated K⁺ channel genes in pulmonary artery myocytes. *Am. J. Respir. Crit. Care Med.* 155(4):A792, 1997.
33. **Yuan, X.-J.**, J. Wang, M. Juhaszova, and L.J. Rubin. Hypoxia inhibits gene expression of voltage-gated K⁺ channel α subunits in pulmonary artery smooth muscle cells. *Circulation* 96(8, suppl):I-61, 1997.
34. **Yuan, J.X.-J.** Role of oxygen-sensitive voltage-gated K⁺ channels in hypoxic pulmonary vasoconstriction. *CAPS News and Commun.* 17(1, Supple.1):61-62, 1998.

35. **Yuan, X.-J.**, M. Juhaszova, J. Wang, S.P. Gaine, J.V. Conte, Jr, and L.J. Rubin. Role of inhibited K^+ channel gene transcription in the development of primary pulmonary hypertension. *World Symposium - PPH 1998*.
36. Bakst, A.E., L.J. Rubin, and **J.X.-J. Yuan**. Membrane depolarization increases the agonist-induced Ca^{2+} rise in pulmonary artery smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 159(3):A346, 1999.
37. Wang, J., V.A. Golovina, A.E. Bakst, and **J.X.-J. Yuan**. hTRP mRNA expression is enhanced in proliferating pulmonary artery smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 159(3):A346, 1999.
38. Weiner, E.A., J.E. Seiden, L.J. Rubin, and **J.X.-J. Yuan**. Inhibitory effect of prostacyclin on the growth of human pulmonary artery endothelial cells. *Am. J. Respir. Crit. Care Med.* 159(3):A160, 1999.
39. Wang, J.-Y., J. Wang, V.A. Golovina, L. Li, O. Platoshyn, and **J.X.-J. Yuan**. Polyamines mediate intestinal epithelial cell migration by increasing K^+ channel expression. *FASEB J.* 13:A400, 1999.
40. Platoshyn, O., V.A. Golovina, J. E. Seiden, and **J.X.-J. Yuan**. Sustained membrane depolarization is associated with pulmonary artery smooth muscle cell proliferation. *Circulation.* 100(18):I-707, 1999.
41. Platoshyn, O., C.L. Bailey, N. Kim, and **J.X.-J. Yuan**. Voltage-gated sodium current in human pulmonary artery myocytes. *FASEB J.* 14(4):A122, 2000.
42. Platoshyn, O., J. Wang, V.A. Golovina, S. Krick, S.S. McDaniel, and **J.X.-J. Yuan**. Hypoxia down-regulates Kv channel expression and reduces Kv currents in pulmonary artery myocytes. *FASEB J.* 14(4):A638, 2000.
43. McDaniel, S.S., C.L. Bailey, A. Limsuwan, L.J. Rubin, and **J.X.-J. Yuan**. Capacitative calcium entry-mediated pulmonary vasoconstriction. *FASEB J.* 14(4):A123, 2000.
44. Bailey, C.L., S.S. McDaniel, L.J. Rubin, and **J.X.-J. Yuan**. Role of calcium in human pulmonary artery smooth muscle cell proliferation. *FASEB J.* 14(4):A578, 2000.
45. Rao, J.N., L. Li, E.D. Strauch, B.L. Bass, **J.X.-J. Yuan**, and J.-Y. Wang. K^+ channels regulate polyamine-dependent intestinal epithelial cell migration through Ca^{2+} -RhoA signaling pathway. *Gastroenterology* 118:A675, 2000.
46. Krick, S., O. Platoshyn, M.A. Sweeney, and **J.X.-J. Yuan**. FCCP induces apoptosis by mitochondrial depolarization and increase in $I_{K(Ca)}$. *Biophys. J.* 80(1):615a, 2001.
47. Limsuwan, A., O. Platoshyn, A. Rothman, L.J. Rubin, and **J.X.-J. Yuan**. Inhibition of K^+ channel activity in pulmonary artery smooth muscle cells by serum from children with pulmonary hypertension secondary to congenital cardiopulmonary diseases. *J. Am. Coll. Cardio.* 37(2):469A, 2001.
48. Yu, Y., O. Platoshyn, J. Zhang, S. Krick, Y. Zhao, L.J. Rubin, A. Rothman, and **J.X.-J. Yuan**. c-Jun inhibits voltage-gated K^+ channel activity and stimulates cell growth. *Biophys. J.* 80(1):394a, 2001.
49. Krick, S., O. Platoshyn, M. Sweeney, L.J. Rubin, and **J.X.-J. Yuan**. NO induces apoptosis by activation of potassium channels. *Biophys. J.* 80(1):394a, 2001.
50. Rao, J.N., L. Li, O. Platoshyn, V.A. Golovina, **J.X.-J. Yuan**, and J.-Y. Wang. Involvement of K^+ channel expression and Ca^{2+} in migration of differentiated intestinal epithelial cells after wounding. *Gastroenterology.* 120:A781, 2001.
51. Ostrom, R.S., C. Gregorian, S.S. McDaniel, **J.X.-J. Yuan**, and P.A. Insel. Adenylyl cyclase isoform expression and receptor coupling in human pulmonary artery smooth muscle cells. *Circulation* 104(17, Supplement II):II-144, 2001.
52. Platoshyn, O., M. Mandegar, Y. Yu, V.A. Golovina, S. Zhang, P.A. Thistlethwaite, and **J.X.-J. Yuan**. Functional ion channels in human pulmonary artery smooth muscle cells. *Biophys. J.* 82(1, part 2):249a, 2002.
53. Yu, Y., M. Sweeney, S. Zhang, J.E.S. Yi, A. Rothman, and **J.X.-J. Yuan**. PDGF stimulates smooth muscle cell proliferation by upregulating c-Jun and TRP6. *Biophys. J.* 82(1, part 2):417a, 2002.

54. Sweeney, M., Y. Yu, O. Platoshyn, S. Zhang, S.S. McDaniel, and **J.X.-J. Yuan**. Inhibition of Endogenous TRPC1 gene decreases capacitative Ca^{2+} entry in vascular smooth muscle cells. *Biophys. J.* 82(1, part 2):651a, 2002.
55. Platoshyn, O., D. Ekhterae, S. Zhang, and **J.X.-J. Yuan**. Apoptosis regulator with caspase recruitment domain (ARC) protects cardiomyocytes by inhibiting K^+ channels. *FASEB J.* 16(5):A1167, 2002.
56. Fantozzi, I., S. Zhang, R. Cowling, O. Platoshyn, and **J.X.-J. Yuan**. Hypoxia increases AP-1 DNA binding activity by enhancing capacitative Ca^{2+} entry in human pulmonary artery endothelial cells. *Am. J. Respir. Crit. Care Med.* 165(8):B52, 2002.
57. Mandegar, M., Y. Yu, O. Platoshyn, B.R. Lapp, L.J. Rubin, and **J.X.-J. Yuan**. Expression and Function of Tandem-pore K^+ channels in human pulmonary artery smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 165(8):B53, 2002.
58. Zhang, S., I. Fantozzi, S. Krick, L.J. Rubin, and **J.X.-J. Yuan**. BMP-mediated apoptosis is inhibited in pulmonary artery smooth muscle cells from the patients with primary pulmonary hypertension. *Circulation.* 106(19, Suppl.):II-365, 2002.
59. Keller, S., O. Platoshyn, and **J.X.-J. Yuan**. Characterization of the post-Golgi localization of human *ether-a-go-go* (HERG) potassium channel. *Circulation.* 106(19, Suppl.):II-283, 2002.
60. Brevnova, E.E., O. Platoshyn, S.H. Keller, and **J.X.-J. Yuan**. Pharmacological properties of human Kv1.5 channels. *FASEB J.* 17(4):A427, 2003.
61. Platoshyn, O., S. Zhang, S.H. Keller, I. Fantozzi, E.E. Brevnova, and **J.X.-J. Yuan**. Effect of nicotine on K^+ channel activity in smooth muscle cells. *FASEB J.* 17(4):A409, 2003.
62. Fantozzi, I., J. Zhang, K. Qin, and **J.X.-J. Yuan**. Divergent effects of BMP-2 on gene expression in pulmonary artery smooth muscle cells from normal subjects and patients with primary pulmonary hypertension. *FASEB J.* 17(4):A410, 2003.
63. Patel HH, Ostrom RS, Bijlani R, **J.X.-J. Yuan**, and P. A. Insel. Functional consequences of differential expression of adenylyl cyclase (AC) and prostaglandin (PG) receptors in pulmonary artery smooth muscle cells (PASMC): Impact of primary pulmonary hypertension. *FASEB J.* 17(4):A410, 2003.
64. Keller, S.H., B. Parker, and **J.X.-J. Yuan**. Long QT syndrome HERG mutant I593R activates endoplasmic reticulum stress and apoptosis pathways in transfected HEK-293 cells. *FASEB J.* 17(4):A184, 2003.
65. Yu, Y., N. Kunichika, P.A. Thistlethwaite, L.J. Rubin, and **J.X.-J. Yuan**. Enhanced TRPC6 expression in pulmonary artery smooth muscle cells of the patients with primary pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 167(7):A843, 2003.
66. Kunichika N, Y. Yu, P.A. Thistlethwaite, L.J. Rubin, and **J.X.-J. Yuan**. Bosentan inhibits human pulmonary vascular smooth muscle cell proliferation by downregulating TRPC6 expression. *Am. J. Respir. Crit. Care Med.* 167(7):A1003, 2003.
67. Rao, J.N., X. Guo, L. Liu, T.-T. Zou, E.D. Strauch, V.A. Golovina, **J.X.-J. Yuan**, and J.-Y. Wang. Increased TRPC1 expression and capacitative Ca^{2+} entry in differentiated intestinal epithelial cells during restitution. *Gastroenterology* 124:A446, 2003.
68. Brevnova, E.E., O. Platoshyn, S. Zhang, and **J.X.-J. Yuan**. Overexpression of human Kv1.5 increases $I_{\text{K(V)}}$ and enhances staurosporine-induced apoptosis. *Circulation.* 108(17):IV-123, 2003.
69. Kunichika, N., Y. Yu, H. Kunichika, L.J. Rubin, and **J.X.-J. Yuan**. Overexpression of human TRPC1 enhances capacitative Ca^{2+} entry-mediated pulmonary vasoconstriction. *Am. J. Respir. Crit. Care Med.* 169(7):A161, 2004.
70. Patel, H.H., S. Zhang, F. Murray, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Cyclic-AMP regulates capacitative calcium entry in pulmonary artery smooth muscle cells from patients with primary pulmonary hypertension. *FASEB J.* 18:A596, 2004.
71. Remillard, C.V., D.D. Tigno, B.K. Rana, D. Conger, A. Nicholson, L.J. Rubin, D.T. O'Connor, and **J.X.-J. Yuan**. Novel SNPs in *KCN45* gene from patients with idiopathic pulmonary arterial hypertension. *Circulation.* 110(17, supplement III):III-20, 2004.

72. Murray, F., H.H. Patel, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Increased cAMP phosphodiesterase expression in human pulmonary artery smooth muscle cells from patients with primary pulmonary hypertension. *Circulation*. 110(17, supplement III):III-371, 2004.
73. Platoshyn, O., E.E. Brevnova, Y. Yu, and **J.X.-J. Yuan**. Acute hypoxia selectively reduces KCNA5 currents in pulmonary artery smooth muscle cells. *Biophys J*. 88(2, part 1):365a, 2005, 2005.
74. Remillard, C.V., V. Mahboubi, B.K. Rana, A. Nicholson, P.A. Thistlethwaite, D.T. O'Connor, and **J.X.-J. Yuan**. Single nucleotide polymorphisms in the angiopoietin-1 gene in patients with idiopathic pulmonary arterial hypertension patients. *Proc. Am. Thorac. Soc.* 2 (abstracts issue): A192, 2005.
75. Remillard, CV., I. Fantozzi, O. Platoshyn, A. Wong, O. Petruskane, S. Zhang, and **J.X.-J. Yuan**. Bone morphogenetic protein-2 enhances Kv channel expression and function in human pulmonary artery smooth muscle cells. *Proc. Am. Thorac. Soc.* 2 (abstracts issue):A723, 2005.
76. Landsberg, J.W., L.J. Rubin, and **J.X.-J. Yuan**. Phenotypical characterization of hemodynamics in patients with idiopathic pulmonary arterial hypertension. *Proc. Am. Thorac. Soc.* 2 (abstracts issue):A192, 2005.
77. Zhang, S., H.H. Patel, P.A. Insel, and **J.X.-J. Yuan**. Divergent effects of cAMP on TRPC expression and capacitative calcium entry in pulmonary artery smooth muscle cells from normal subjects and patients with idiopathic pulmonary arterial hypertension (IPAH). *Proc. Am. Thorac. Soc.* 2 (abstracts issue):A712, 2005.
78. Murray, F., H.H. Patel, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Pivotal role of both adenylyl cyclase and phosphodiesterase in determining cAMP levels in pulmonary artery smooth muscle cells and primary pulmonary hypertension. *Proc. Am. Thorac. Soc.* 2 (abstracts issue): A706, 2005.
79. Mauban, J.R.H. and **J.X.-J. Yuan**. Activation of SOC in human PAEC without complete depletion of Ca^{2+} stores. *FASEB J*. 19(4, part 1):A678, 2005.
80. **Yuan, J.X.-J.**, O. Platoshyn, E. Brevnova, S. Zhang, S. Krick, D. Ekhterae and C. Remillard. Role of ion channels in vascular smooth muscle cell apoptosis. *J. Pharmacol. Sci.* 97 (supplement I):28P, 2005.
81. Patel, H.H., S. Zhang, F. Murray, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Cholesterol-depleting drugs, including statins, lower intracellular Ca^{2+} and inhibit proliferation in pulmonary artery smooth muscle cells in primary pulmonary hypertension. *FASEB J*. 19:A1665, 2005.
82. Suda, R.Y.S., F. Murray, H.H. Patel, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Increased phosphodiesterase expression in human pulmonary artery smooth muscle cells from patients with secondary pulmonary hypertension. *FASEB J*. 19:A1330, 2005.
83. Murray, F., H.H. Patel, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. cAMP phosphodiesterase isoforms in human pulmonary artery smooth muscle cells: role in primary pulmonary hypertension. *FASEB J*. 19:A1330, 2005.
84. Patel, H.H., S. Zhang, F. Murray, I.R. Niesman, P.A. Thistlethwaite, M.G. Farquhar, **J.X.-J. Yuan**, and P.A. Insel. Caveolae and caveolins regulate intracellular calcium in idiopathic pulmonary arterial hypertension: A potential therapeutic role for cholesterol-lowering drugs. *Circulation*. 112(17, supplement II):II-222, 2005.
85. Platoshyn, O., Y. Yu, C.V. Remillard, and **J.X.-J. Yuan**. Heterogeneity of hypoxia-induced decrease in $I_{K(V)}$ and increase in $[\text{Ca}^{2+}]_{\text{cyt}}$ in pulmonary artery smooth muscle cells. *FASEB J*. 20(4):A399, 2006.
86. Murray, F., H.H. Patel, R.Y.S. Suda, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Caveolar localization and caveolin-1 regulation of PDE5 in human pulmonary artery smooth muscle cells. *FASEB J*. 20(4):A543, 2006.
87. Murray, F., R.Y.S. Suda, H.H. Patel, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Phosphodiesterase-1C in human pulmonary artery smooth muscle cells: Role in pulmonary hypertension. *Proc. Am. Thorac. Soc.* 3 (abstracts issue):A278, 2006.

88. Murray, F., R.Y. Suda, H.H. Patel, S. Zhang, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Increased expression and activity of phosphodiesterase-1 isoforms in pulmonary artery smooth muscle cells from patients with pulmonary hypertension and role in proliferation. *Circulation*. 114 (18, Supplement II): II-36, 2006.
89. Yu, Y., O. Safrina, J.W. Landsberg, N. Vangala, A. Nicholson, L.J. Rubin, M.D. Cahalan, and **J.X.-J. Yuan**. A functional single-nucleotide polymorphism (-254 C to G) in the TRPC6 gene is associated with idiopathic pulmonary arterial hypertension. *Circulation*. 114 (18, Supplement II): II-130, 2006.
90. Sacks, R.S., N. Agange, A. Ogawa, and **J.X.-J. Yuan**. Role of protease-activated receptors in pulmonary vascular remodeling. *Am. J. Respir. Crit. Care Med.* 175(Supplement): A291, 2007.
91. Remillard, C.V. and **J.X.-J. Yuan**. Upregulation of HIF-2 α in PASMC from patients with idiopathic pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 175(Supplement): A291, 2007.
92. Tsigelny, I.F., P. Bar-on, Y. Sharikov, L. Crews, M. Hashimoto, M.A. Miller, S.H. Keller, O. Platoshyn, **J.X.-J. Yuan**, and E. Masliah. Dynamics of α -synuclein aggregation and inhibition of pore-like oligomer development by β -synuclein. *Neurodegenerative Dis.* 4(Supplement 1):97, 2007.
93. Yu, Y., O. Safrina, O. Platoshyn, M.D. Cahalan, L.J. Rubin, and **J.X.-J. Yuan**. Enhancement of TRPC6-mediated Ca²⁺ entry in pulmonary artery smooth muscle cells of idiopathic pulmonary arterial hypertension patients. *Circulation* 116(16, Supplement):379, 2007.
94. Burg, E.D., B. Lozano-Ruiz, B.K. Rana, C.V. Remillard and **J.X.-J. Yuan**. A tetramerization domain mutation in *KCN45* identified in patients with idiopathic pulmonary arterial hypertension causes dysfunctional K⁺ currents. *Circulation* 116(16, Supplement):657, 2007.
95. Makino, A., O. Platoshyn, J. Suarez, **J.X.-J. Yuan**, and W.H. Dillmann. Role of connexin40 in coronary endothelial cell dysfunction in type 1 diabetic mice. *FASEB J.* 22:964.16, 2008.
96. Firth, A.L., W. Yao, A. Ogawa, O. Platoshyn, C.V. Remillard, R.S. Sacks, W.R. Auger, M. Madani, P.A. Thistlethwaite, S.W. Jamieson, and **J.X.-J. Yuan**. Electrophysiological characterization of cells isolated from endarterectomized tissue from patients with chronic thromboembolic pulmonary hypertension (CTEPH). *FASEB J.* 22:1209.14, 2008.
97. Yao, W., A.L. Firth, A. Ogawa, and **J.X.-J. Yuan**. Enhanced expression of pluripotency gene Oct-4 in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *FASEB J.* 22:1209.15, 2008.
98. Murray, F., R.Y. Suda, T. Do, U. Yokoyama, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Role of exchange protein directly activated by cAMP-1 (Epac-1) in pulmonary artery smooth muscle cells: a new target for pulmonary hypertension. *FASEB J.* 22:1209.16, 2008.
99. Sacks, R.S., R.N. Channick, S.W. Jamieson, P.F. Fedullo, K.M. Kerr, N.H. Kim, **J.X.-J. Yuan**, M. Madani, S. Masauchi, A. Kemp, and W.R. Auger. Post-operative outcomes of patients with ventriculo-atrial shunts with chronic thromboembolic pulmonary hypertension who undergo pulmonary endarterectomy. *Am. J. Respir. Crit. Care Med.* 177(Abstract Issue):A182, 2008.
100. Ogawa, A., W. Yao, L.J. Rubin, and **J.X.-J. Yuan**. Prednisolone inhibits PDGF-induced nuclear translocation of NF- κ B in human pulmonary artery smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 177(Abstract Issue):A591, 2008.
101. Yao, W., R.S. Sacks, A. Ogawa, A.L. Firth, W.R. Auger, M. Madani, N. Sakakibara, P.A. Thistlethwaite, S.W. Jamieson, L.J. Rubin, and **J.X.-J. Yuan**. Structural changes of the pulmonary vasculature in patients with chronic thromboembolic pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 177(Abstract Issue):A772, 2008.
102. Firth, A.L., A. Ogawa, W. Yao, O. Platoshyn, C.V. Remillard, R.S. Sacks, W.R. Auger, M. Madani, P.A. Thistlethwaite, S.W. Jamieson, and **J.X.-J. Yuan**. Vast morphological diversity exists in cells isolated from endarterectomized tissue from patients with chronic thromboembolic pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 177(Abstract Issue):A772, 2008.

103. Firth, A.L. and **J.X.-J. Yuan**. Pathogenic role of ion channels in PAH. *Korean J. Physiol. Pharmacol.* 13(Supplement I):88-89, 2009.
104. Firth, A.L. and **J.X.-J. Yuan**. Functional characterization of Ca^{2+} and K^{+} channels in human embryonic stem cells. *FASEB J.* 23:998.28, 2009.
105. Murray, F., R.Y. Suda, O. Kwon, X. Li, C.V. Remillard, P.A. Thistlethwaite, **J.X.-J. Yuan**, and P.A. Insel. Decreased expression and activity of Epac (Exchange Protein Directly Activated by cAMP) in pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 179(Abstract Issue): A1804, 2009.
106. Mirza, M.K., Y.D. Zhao, V. Brovkovich, S.M. Vogel SM, **J.X.-J. Yuan**, J. Wharton, A.B. Malik, and Y.Y. Zhao. Persistent eNOS activation secondary to caveolin-1 deficiency induces pulmonary arterial hypertension through nitration of protein kinase G. *Am. J. Respir. Crit. Care Med.* 179 (Abstract Issue):A1812, 2009.
107. Firth, A.L., A. White, and **J.X.-J. Yuan**. Fibrinogen decreases thrombin-induced PAR-1-independent Ca^{2+} release in PAEC. *Am. J. Respir. Crit. Care Med.* 179(Abstract Issue):A2323, 2009.
108. Firth, A.L., A. Ogawa, and **J.X.-J. Yuan**. Markers typical of mesenchymal stem cells are present in cells isolated from endarterectomized tissues of CTEPH patients. *Am. J. Respir. Crit. Care Med.* 179(Abstract Issue):A5360, 2009.
109. Burg, E.D. and **J.X.-J. Yuan**. A tetramerization domain mutation in KCNA5 identified in pulmonary arterial hypertension patients causes abnormal trafficking patterns. *Am. J. Respir. Crit. Care Med.* 179(Abstract Issue):A6015, 2009.
110. Remillard, C.V., B. Lozano-Ruiz, B.K. Rana, P.A. Insel, and **J.X.-J. Yuan**. Association of idiopathic pulmonary arterial hypertension with SNPs in K^{+} channel, phosphodiesterase 5A and caspase 8/10 genes. *Am. J. Respir. Crit. Care Med.* 179(Abstract Issue):A6249, 2009.
111. Ogawa, A., A.L. Firth, and **J.X.-J. Yuan**. Ca^{2+} -independent Akt/mTOR activation enhances store-operated Ca^{2+} entry. *Am. J. Respir. Crit. Care Med.* 179(Abstract Issue):A6256, 2009.
112. Ogawa, A., A.L. Firth, and **J.X.-J. Yuan**. Rapamycin inhibits store-operated Ca^{2+} entry in cells isolated from endarterectomized tissues of patients with chronic thromboembolic pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 179(Abstract Issue):A6257, 2009.
113. **Yuan, J.X.-J.** and A.L. Firth. Pathogenic role of ion channels in pulmonary hypertension. *J. Physiol. Sci.* 59(Supplement 1):63, 2009.
114. Makino, A., O. Platoshyn, H. Wang, B.T. Scott, **J.X.-J. Yuan**, and W.H. Dillmann. Thyroid hormone receptor and vascular function. *J. Physiol. Sci.* 59(Supplement 1):408, 2009.
115. Firth, A.L., W. Yao, A. Ogawa, M.M. Madani, G.L. Lin, and **J.X.-J. Yuan**. Multipotent mesenchymal stem cells contribute to vascular remodeling in patients with chronic thromboembolic pulmonary hypertension. *Circulation.* 120(18, Supplement):S633, 2009.
116. Ogawa, A., A.L. Firth, and **J.X.-J. Yuan**. Akt/mTOR is an essential downstream pathway of platelet-derived growth factor signaling in pulmonary arterial smooth muscle cells. *Circulation.* 120(18, Supplement):S1136, 2009.
117. Gao, M.H., A. Miyanohara, A.L. Firth, **J.X.-J. Yuan**, and T. Tang. Beneficial effects of adenylyl cyclase 6 (AC6) gene transfer persist in a catalytically inactive AC6 mutant with impaired cAMP generating capacity. *Circulation.* 120 (18, Supplement):S593, 2009.
118. Yajima, T., H. Zhou, S. Park, J. Housman, Z.-H. Zhong, B.-K. Lim, O. Platoshyn, Y. Gu, N. Dalton, T. Yajima, **J.X.-J. Yuan**, and K.U. Knowlton. Absence of SOCS3 regulation on gp130 signaling in the cardiac myocyte results in increased voltage-gated sodium channel (SCN5A) current, arrhythmogenicity and cardiomyopathy. *Circulation.* 120(18, Supplement):S743, 2009.
119. Ogawa, A., K. Nakamura, K.F. Kusano, H. Ito, and **J.X.-J. Yuan**. Prednisolone ameliorates idiopathic pulmonary arterial hypertension via NF- κ B inactivation. PHA's 9th International Pulmonary Hypertension Conference and Scientific Sessions, Garden Grove, CA (June 25-27, 2010). p. 1010.

120. Ogawa, A., A.L. Firth, and **J.X.-J. Yuan**. Akt/mTOR is important in the pathogenesis of pulmonary vascular remodeling. *Circ. J.* 74 (Suppl.1):489, 2010.
121. Firth, A.L., O. Platoshyn, E. Cancino and **J.X.-J. Yuan**. Characterization of ion channels in progenitor cells isolated from CTEPH patients. *FASEB J.* 24:1023.25, 2010.
122. Nolte, N.F., I. Estrada, W. Han, B.T. Scott, W.H. Dillmann, **J.X.-J. Yuan**, and A. Makino. Role of STIM1 in coronary endothelial cell dysfunction in type 1 diabetic mice. *FASEB J.* 24:789.4, 2010.
123. Ogawa, A., A.L. Firth, and **J.X.-J. Yuan**. Essential role of Akt/mTOR pathway in the pathogenesis of pulmonary vascular remodeling. *Eur. Heart J.* 31:629, 2010.
124. Song, M.Y., L. Zhu, A. Ngo, A. Makino and **J.X.-J. Yuan**. Hypoxia upregulates STIM2/Orai2 in rat pulmonary artery smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 181:A3944, 2010.
125. Tang, T., H.K. Hammond, A.L. Firth, Y. Yang, M.H. Gao, **J.X.-J. Yuan**, and N.C. Lai. Adenylyl cyclase 6 improves calcium handling and LV function in aging hearts. *Circulation.* 122:A12398, 2010.
126. Liang, N.-C., A.L. Firth, J.J. Marsh, **J.X.-J. Yuan**, and T.A. Morris TA. Human pulmonary artery endothelial cell exposure to fibrin(ogen) augments intracellular calcium regulation in response to thrombin. *J. Invest. Med.* 59(1):A412, 2011.
127. Desai, A.A., H. Ahmad, S. Trevino, T. Zhou, M.S. Wade, T. Thiruvoipati, K. Turner, N. Artz, **J.X.-J. Yuan**, A.R. Patel, R.M. Lang, J.G.N. Garcia and R.F. Machado. Genomic evaluation of pulmonary hypertension in sickle cell disease. *Am. J. Respir. Crit. Care Med.* (Abstract Issue) 183:A5513, 2011.
128. Pohl, N.M., A. Makino, and **J.X.-J. Yuan**. Selectively upregulated microRNAs in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *FASEB J.* 25:IB516, 2011.
129. Yamamura, H., A. Yamamura, and **J.X.-J. Yuan**. Characterization of Ca^{2+} oscillations in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *FASEB J.* 25:IB504, 2011.
130. Yamamura, A., H. Yamamura, and **J.X.-J. Yuan**. Ca^{2+} -activated Cl^- channels contribute to regulating store- and receptor-operated Ca^{2+} entry in human pulmonary arterial smooth muscle cells. *FASEB J.* 25:IB506, 2011.
131. Yamamura, A., H. Yamamura, A.M. Zimnicka, H. Dong and **J.X.-J. Yuan**. Extracellular Ca^{2+} - induced rise in $[\text{Ca}^{2+}]_{\text{cyt}}$ is enhanced in pulmonary artery smooth muscle cells from patients with patients with idiopathic pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 183(Abstract Issue): A6390, 2011.
132. Yamamura, H., A. Yamamura, P.A. Thistlethwaite, and **J.X.-J. Yuan**. Jagged-1 enhances store-operated Ca^{2+} entry in human pulmonary arterial smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 183(Abstract Issue):A6389, 2011.
133. Yoo, H.Y., S.J. Park, A. Zeifman, Y.E. Earm, **J.X.-J. Yuan**, and S.J. Kim. Role of thromboxane A_2 -activated nonselective cation channels in hypoxic pulmonary vasoconstriction of rat. *Circulation.* 124:A16945, 2011.
134. Kuhr, F.K., A. M. Zimnicka, R.A. Skidgel, J.W. Christman, **J.X.-J. Yuan**, and I. Levitan. Kinins and kinin receptors in pulmonary vasoconstriction and vascular remodeling. *FASEB J.* 26:671.8, 2012.
135. Zimnicka, A.M., J. Chen, and **J.X.-J. Yuan**. Novel role for copper transport protein CTR1 in hypoxia induced pulmonary hypertension. *FASEB J.* 26:700.2, 2012.
136. Kuhr, F.K., D.E. Schraufnagle, J.W. Christman, **J.X.-J. Yuan**, and I. Levitan. Impact of substrate stiffness and hypoxia on endothelial spreading and contractility. *FASEB J.* 26:841.3, 2012.
137. Pohl, N.M., A. Yamamura, H. Yamamura, A. Makino, and **J.X.-J. Yuan**. MicroRNA 29b is upregulated in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension and inhibits K^+ channel expression and function. *FASEB J.* 26:884.10, 2012.
138. Guo, Q., A.M. Zimnicka, A. Yamamura, H. Yamamura, J. Chen, K. Shioura, Jianan Huang, L. Moreno-Vinasco, J.G.N. Garcia, R. Machado, and **J.X.-J. Yuan**. Inhibition of Ca^{2+} -sensing

- receptors attenuates pulmonary hypertension in rats. *Am. J. Respir. Crit. Care Med.* 185:A1241, 2012.
139. Yamamura, A, H. Yamamura, E.A. Ko, J. Wan, N.M. Pohl, R.A. Fernandez, K.A. Smith, A. Zeifman, A.M. Zimnicka, and **J.X.-J. Yuan**. Dihydropyridine Ca^{2+} channel blockers increase $[\text{Ca}^{2+}]_{\text{cyt}}$ by activating Ca^{2+} -sensing receptors in pulmonary arterial smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 185: A3518, 2012.
 140. Ko, E.A., J. Wan H. Yamamura, A. Zeifman, H.Y. Yoo, and **J.X.-J. Yuan**. Functional characterization of voltage-dependent Ca^{2+} channels in mouse pulmonary arterial smooth muscle cells. *Am. J. Respir. Crit. Care Med.* 185:A3535, 2012.
 141. Yoo, H.Y., A. Zeifman, E.A. Ko, and **J.X.-J. Yuan**. Use of isolated perfused/ventilated mouse lung to study hypoxic pulmonary vasoconstriction and vascular reactivity: Revisit the role of Ca^{2+} . *Am. J. Respir. Crit. Care Med.* 185:A4832, 2012.
 142. Smith, K.A., Q. Guo, A. Yamamura, H. Yamamura, and **J.X.-J. Yuan**. Hypoxia-mediated activation of Notch signaling enhances store-operated Ca^{2+} entry in pulmonary arterial smooth muscle cells. *Circulation* 126:A508, 2012.
 143. Sundivakkam, P., R. Tang, R. Fernandez, A. Drennan, and **J.X.-J. Yuan**. Transient receptor potential channels (TRPC) contribute to an enhanced endothelial cell proliferation and irreversible vascular remodeling associated with the development of pulmonary arterial hypertension (PAH). *FASEB J.* 27:1140.14, 2013.
 144. Voiriot, G., A.M. Zimnicka, M.S. Choudhury, K.A. Smith, J. Wan, S. Adnot, B. Maitre, A.M. Dessap, and **J.X.-J. Yuan**. High PEEP mechanical ventilation enhances pulmonary vasoconstriction induced by Ca^{2+} influx through VDCC. *Am. J. Respir. Crit. Care Med.* 187: A1138, 2013.
 145. Sysol, J.R., J. Chen, M. Wade, T. Abbasi, A. Fahs, J.G.N. Garcia, **J.X.-J. Yuan**, and R.F. Machado. Pre-B cell colony-enhancing factor is elevated in plasma and lung tissue of patients with pulmonary hypertension and promotes pulmonary artery smooth muscle cell proliferation. *Am. J. Respir. Crit. Care Med.* 187:A1744, 2013.
 146. Fernandez, R.A., J. Wan, Q. Guo, and **J.X.-J. Yuan**. The pathological role of STIM2 and Orai2 in pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 187:A1764, 2013.
 147. Chen, J., J.R. Sysol, T. Chen, H. Tang, E. Berdyshev, I. Gorshkova, G. Zhou, Y. Dong, A. Fahs, J.U. Raj, J.G.N. Garcia, **J.X.-J. Yuan**, V. Natarajan, and R.F. Machado. Sphingosine kinase 1 is upregulated in pulmonary artery smooth muscle cells (PASMCs) from patients with pulmonary arterial hypertension and modulates human PASMC. *Am. J. Respir. Crit. Care Med.* 187:A1766, 2013.
 148. Zimnicka, A.M., Q. Guo, J. Wan, J.H. Kaplan, and **J.X.-J. Yuan**. Novel role for copper transporters in hypoxia-induced pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 187:A2253, 2013.
 149. Voirit, G., K.A. Smith, M. Tauseef, D. Mehta and **J.X.-J. Yuan**. Notch signaling is involved in acute hypoxia-induced pulmonary vasoconstriction. *Am. J. Respir. Crit. Care Med.* 187:A2255, 2013.
 150. Chen, J., S. Shahrara, A. Yamamura, J.R. Sysol, H. Tang, L. Xie, A. Fahs, Y. Dong, S. Song, J.G.N. Garcia, **J.X.-J. Yuan**, and R.F. Machado. Interleukin 7 (IL7) and IL7 receptor (IL7R) are novel mediators in the development of pulmonary hypertension in humans and mice. *Am. J. Respir. Crit. Care Med.* 187:A5399, 2013.
 151. Fernandez, R.A., J. Wan, Q. Guo, and **J.X.-J. Yuan**. Pathogenic role of STIM2 and Orai2 in pulmonary arterial hypertension. *Circulation* 128(10022):A18254, 2013.
 152. Song, S, H. Yamamura, A. Makino, and **J.X.-J. Yuan**. Flow shear stress and osmotic stretch both enhance intracellular Ca^{2+} in PASMC from patients with idiopathic pulmonary arterial hypertension. *Circulation* 128(10022):A18288, 2013.

153. Fraidenburg, D.R., G. Voiriot, N.M. Pohl, K.A. Smith, and **J.X.-J. Yuan**. Lung inflammation impairs hypoxic pulmonary vasoconstriction through activation of nuclear factor of activated T-cells. *Circulation* 128(10022):A18495, 2013
154. Tang, H., J. Chen, A. Drennan, D.R. Fraidenburg, A.M. Zimmnicka, K.A. Smith, J.G.N. Garcia, R.F. Machado, A. Makino and **J.X.-J. Yuan**. Distinct roles of Akt isoforms in the development of hypoxia-induced pulmonary hypertension. *Circulation* 128(10022):A18437, 2013.
155. Zhou, G., Q. Zhou, T. Chen, H. Tang, J. Li, J. Chen, P. Raychaudhuri, **J.X.-J. Yuan**, and J.U. Raj. Suppression of FoxM1 in smooth muscle cells attenuates hypoxia-induced pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 189:A3332, 2014
156. Chen, T., Q. Zhou, H. Tang, J.X.-J. Yuan, G. Zhou, and J.U. Raj. SMC-specific knockout of microRNA-17-92 inhibits hypoxia-induced pulmonary hypertension in mice. *Am. J. Respir. Crit. Care Med.* 189:A3328, 2014.
157. Chen, J., H. Tang, J.R. Sysol, A. Sridhar, **J.X.-J. Yuan**, V. Natarajan, and R.F. Machado. S1P lyase deficiency in mice enhances susceptibility to hypoxia-mediated pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 189:A3298, 2014.
158. Syso, J.R., J. Chen, H. Tang, V. Reddy, **J.X.-J. Yuan**, V. Natarajan, and R.F. Machado. Sphingosine-1-phosphate receptor 2 is elevated in patients with pulmonary arterial hypertension and regulates S1P-induced pulmonary artery smooth muscle cell proliferation. *Am. J. Respir. Crit. Care Med.* 189:A4776, 2014.
159. Fraidenburg, D.R., G. Voiriot, N.M. Pohl, K.A., Smith and **J.X.-J. Yuan**. Lung inflammation downregulates TRPC expression and impairs hypoxic pulmonary vasoconstriction by activating the calcineurin/NFAT signaling pathway. *Am. J. Respir. Crit. Care Med.* 189:A4144, 2014.
160. Tang, H., J. Chen, A.R. Drennan, D.R. Fraidenburg, S. Song, J.R. Sysol, K.A. Smith, R.F. Machado, A. Makino, and **J.X.-J. Yuan**. Akt/mTOR signaling contributes to the development of pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 189:A5599, 2014.
161. Fernandez, R.A., J. Wan, Q. Guo and **J.X.-J. Yuan**. Upregulated STIM2 and Orai2 are involved in the phenotypic transition of pulmonary arterial smooth muscle cells from contractile to proliferative phenotype. *Am. J. Respir. Crit. Care Med.* 189:A4835, 2014
162. Pohl, N.M., R.A. Fernandez, and **J.X.-J. Yuan**. MiRNA-181b regulates TRPC6 expression in pulmonary arterial smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *Am. J. Respir. Crit. Care Med.* 189:A6325, 2014.
163. Han, Y., Y.-E. Cho, R. Ayon, M. Pan, A. Dai, **J.X.-J. Yuan**, and A. Makino. Vascular response to the sodium-glucose cotransporter inhibitor in type 2 diabetic mice. *Circulation.* 130:A12295, 2014.
164. Fraidenburg, D.R., H. Tang, A. Drennan, and **J.X.-J. Yuan**. A novel formulation of vasoactive intestinal peptide attenuates both acute hypoxic pulmonary vasoconstriction and the development of pulmonary hypertension. *Circulation.* 130:A13284, 2014.
165. Wang, T., T. Jiang, H. Quijada, J.B. Mascarenhas, V.R. Elangovan, L. Hecker, Y.A. Lussier, **J.X.-J. Yuan**, D.D. Zhang, and J.G.N. Garcia. Nrf2 signaling ameliorates ventilator-induced lung inflammation. *Circulation.* 130:A20538, 2014.
166. Tang, H., J. Chen, D.R. Fraidenburg, Y. Gu, J.G.N. Garcia, A. Makino, and **J.X.-J. Yuan**. Raptor and Rictor both contribute to the development and progression of pulmonary arterial hypertension. *FASEB J.* 29:662.17, 2015.
167. Song, S, K.N. Jacobson, K.M. McDermott, A. Makino, and **J.X.-J. Yuan**. Different pattern of ATP-mediated increases in $[Ca^{2+}]_{cyt}$ contributes to ATP-induced increase in Bcl-2/Bax ratio in lung cancer cells but not in normal control cells. *FASEB J.* 29:54.1, 2015.
168. Ayon, R.J., N.M. Pohl, A. Yamamura, H. Yamamura, A. Makino and **J.X.-J. Yuan**. miRNA-29b directly downregulates K^+ channel expression and function in IPAH-PASMC. *FASEB J.* 29:662.16, 2015.
169. Fernandez, R.A., L.J. Perez, S. Song, H. Tang, and **J.X.-J. Yuan**. The functional coupling of CaSR and TRPC6 contributes to enhanced proliferation in pulmonary arterial smooth muscle cells. *FASEB J.* 29:662.15, 2015.

170. Chen, T., Q. Zhou, H. Tang, **J.X.-J. Yuan**, J.U. Raj and G. Zhou. MiR-17~92 regulates HIF activity through targeting PHD2 in PSMC. *Am. J. Respir. Crit. Care Med.* 191.1: A5950, 2015.
171. Zhou, G., Q. Zhou, T. Chen, H. Tang, **J.X.-J. Yuan**, J.I. Sznajder, J.U. Raj. Fibroblast-specific knockout of von Hippel-Lindau protein induces spontaneous pulmonary hypertension in mice. *Am. J. Respir. Crit. Care Med.* 191.1: A1918, 2015.
172. Chen, J., J.R. Sysol, L.S. Huang, A. Sridhar, Y. Dong, H. Tang, J.G.N. Garcia, **J.X.-J. Yuan**, V. Natarajan and R.F. Machado. Conditional SphK1 deficiency in smooth muscle cells, but not endothelial cells, protects against hypoxia-mediated pulmonary hypertension in mice. *Am. J. Respir. Crit. Care Med.* 191.1: A1919, 2015.
173. Fraidenburg, D.R., H. Tang, J. Chen, A.R. Drennan, R.F. Machado, and **J.X.-J. Yuan**. A novel formulation of vasoactive intestinal peptide, PGC-VIP, attenuates the development of pulmonary hypertension. *Am. J. Respir. Crit. Care Med.* 191.1: A1966, 2015.
174. Tang, H., Y. Gu, R. Ayon, S. Song, R.A. Fernandez, J.G.N. Garcia, A. Makino, and **J.X.-J. Yuan**. Endothelial-specific deletion of prolyl hydroxylase domain protein 2 (PHD2) results in severe pulmonary hypertension in mice by enhancing the HIF-2 α signaling pathway. *Circulation* 132: A19126, 2015.
175. Song, S, K.M. McDermott, A. Makino, **J.X.-J. Yuan**. Jagged-1 enhances CaSR-induced increase in $[Ca^{2+}]_{cyt}$ by promoting recruitment of STIM2 to ER-PM junctions. *FASEB J.* 30(1 Supplement):768-3, 2016.
176. Song, S., Yamamura A, Yamamura H, Babicheva A, Tang H, Ayon RJ, McDermott KM, Sun X, Black SM, Makino A, **Yuan JX**. Hot, heat and stretch all contribute to the enhanced Ca^{2+} signaling in pulmonary arterial hypertension. *FASEB J.* 30(1 Supplement):774-10, 2016.
177. Tang H, Yamamura A, Fraidenburg DR, Song S, Yamamura H, Chen J, Gu Y, Ayon R, Black MS, Garcia GJ, Makino A, **Yuan JX**. Calcium-sensing receptor, coupled with transient receptor potential canonical channels 6, regulates cytosolic $[Ca^{2+}]$ in the development and progression of pulmonary hypertension. *FASEB J.* 30(1 Supplement): 774.11, 2016
178. Tang H, Gong H, Gu Y, Ayon JR, Song S, Babichev A, Vinjamuri S, Malik AB, Garcia JG, Makino A, **Yuan JX**. Endothelial-specific deletion of hypoxia-inducible factor 2 α completely protect mice against hypoxia-induce pulmonary hypertension. *Am J Respir Crit Care Med.* 193:A3879, 2016
179. Ayon RJ, Tang H, Yee AM, Dash S, Ek-Vitorin JF, Makino A, **Yuan JX**. Activation of the calcium sensing receptor potentially inhibits Kv1.5 channel activity. *FASEB J.* 30:1281.10, 2016.
180. Lynn, H., A.A. Desai, V. Nair, A. Gupta, A.G. Cordery, R. Sprissler, K Knox, B. Larson, J.G.N. Garcia, and **J.X.-J. Yuan**. Exome sequencing reveals a novel SNP in TRPC6 in pulmonary arterial hypertension. *Circulation* 134:A17494, 2016.
181. Natarajan, B., V. Nair, P. Dherange, M. Whitaker, I. Riaz, A. Shewale, V. Yarlagadda, K. Patel, K.Knox, Z. Khalpey, P. Suryanarayana, S.M. Black, J.G.N. Garcia, F. Rischard **J.X.-J. Yuan**, and A.A. Desai. Hispanic disparities in PAH: Multi-modality validation of increased susceptibility to right ventricular dysfunction. *Circulation* 134:A18384, 2016.
182. Gupta G, Tang H, Rafikova O, Rafikov R, Black SM, Machado RF, Jacobson JR, Mathew B, Mitra S, **Yuan JX**, Garcia JG. GADD45a deficiency protects from hypoxic pulmonary hypertension via down-regulation of UCHL1. *Am J Respir Crit Care Med.* 193:A3052, 2016.
183. Nair V, Whitekar ME, Sinari S, Natarajan B, Trutter L, Dherange P, Brittain EL, Hemnes AR, Austin E, Patel K, Kadakia A, Black SM, Garcia JGN, **Yuan JX**, Rischard F, Makino A, Bedrick EJ, Desai AA. Effects of diabetes mellitus on pulmonary vascular stiffness and right ventricular remodeling. *Am J Respir Crit Care Med.* 195: A7480, 2017.
184. Babicheva A, McDermott KM, Ayon RJ, Dash S, Sun X, Tang H, Cordery AG, Desai AA, Black SM, Garcia JGN, Makino A, **Yuan JX**. PHD2 mediates endothelial-to-mesenchymal transition in lung microvascular endothelial cells from patients with idiopathic pulmonary arterial hypertension. *Am J Respir Crit Care Med.* 195: A2254, 2017.

185. Babicheva A, McDermott KM, Tang H, Song S, Sun X, Cordery AG, Desai AA, Black SM, Garcia JGN, Makino A, **Yuan JX**. Inhibition of PHD2 induces endothelial-to-mesenchymal transition in pulmonary vascular endothelial cells. *FASEB J*. 31:1016.95, 2017.
186. Ayon RJ, Song S, Tang H, Makino A, **Yuan JX**. Capsaicin-sensitive TRPV1 currents are enhanced in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. *FASEB J*. 31:1017.26, 2017.
187. Wang Z, Qian J, Tang H, Makino A, **Yuan JX**, Wang J. Sodium tanshinone IIA sulfonate regulates cytosolic $[Ca^{2+}]$ in the development and progression of pulmonary hypotension. *Am J Respir Crit Care Med*. 195:A4220, 2017.
188. Gupta A, Lynn HD, Nair V, Gupta G, Cordery A, Patel K, Kadakia A, Knox K, Larsen B, Duarte J, Rischard F, Garcia JGN, **Yuan JX**, Desai AA. Exome sequencing reveals a novel SNP in UCHL1 in pulmonary arterial hypertension. *Am J Respir Crit Care Med*. 195:A4259, 2017
189. Song S, Carr SG, McDermott KM, Makino A, **Yuan JX**. STIM2 contributes to the proliferative characteristics via increasing basal $[Ca^{2+}]_{cyt}$ in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. *FASEB J*. 31:1016.10, 2017.
190. Song S, Ayon RJ and **Yuan JX**. Calcium-sensing receptor-mediated effects on store-operated Ca^{2+} entry and Kv1.5 channel activity. *Circulation* 136(Suppl. 1):A16589, 2017.
191. Wu K, Tang H, Gu Y, Balistreri A, Wang J, Makino A, and **Yuan JX**. Deletion of Rictor in smooth muscle cells negligibly affects the development of pulmonary hypertension. *Circulation* 136(Suppl. 1):A17695, 2017
192. Wang Z, Tang H, Wu K, Gu Y, Balistreri A, **Yuan JX**, and Wang J. Pathogenic role of p53 in the development and progression of pulmonary hypertension. *Circulation* 136(Suppl. 1):A19457, 2017.
193. Song S, Carr S, McDermott KM, Rodriguez M, Balistreri A, Ayon RJ, Makino A, and **Yuan JX**. STIM2-mediated increase in the resting $[Ca^{2+}]_{cyt}$ contributes to enhancing pulmonary arterial smooth muscle cell proliferation in patients with pulmonary arterial hypertension. *Circulation*. 136 (Suppl. 1):A16675, 2017.
194. Karnes JH, Batai K, Arora A, Kaye JB, Steiner HE, Nair V, Garcia JGN, **Yuan JX**, Pauciulo MW, Nichols WC, Kittles R, Desai AA. Genome-wide association study of vasodilator response in pulmonary arterial hypertension. *Circulation* 136 (Suppl. 1):A24015, 2017.
195. Qi, X, M.J. Gonzalez-Garay, R. Vanderpool, S. Song, H. Tang, R.J. Ayon, A. Desai, and **J.X.-J. Yuan**. Circulating transcriptome as a signature for the diagnosis of pulmonary arterial hypertension. *FASEB J*. 32:586.4, 2018.
196. Babicheva, A. R.J. Ayon, A. Makino and **J.X.-J. Yuan**. Increased expression of microRNA-29b attenuates function of Ca^{2+} -activated K^+ channels in human PASMC from idiopathic PAH patients. *FASEB J*. 32:581.11, 2018.
197. Wu, K, H. Tang, X. Wu, R. Lin, Z. Wang, Q. Zhang, R.J. Ayon, J. Wang, A. Makino, and **J.X.-J. Yuan**. Endothelial-dependent activation of smooth muscle PDGF receptors enhances PASMC proliferation in IPAH. *FASEB J*. 32:Ib444, 2018.
198. Carr, S.G., S. Song, K. Wu, Z. Wang, and **J.X.-J. Yuan**. Oveactivation of Ca^{2+} /calmodulin-dependent protein kinase IV and II δ contributes to enhancing pulmonary arterial smooth muscle cell proliferation in patients with idiopathic pulmonary arterial hypertension. *FASEB J*. 32:847.16, 2018.
199. Wang Z, Ayon RJ, Tang H, **Yuan JX** and Wang J. p53 plays an important role in the development and progression of pulmonary hypertension. *Am J Respir Crit Care Med*. 196: A2082, 2018.
200. Rodriguez M and **Yuan JX**. Up-regulation of calcium homeostasis modulator-1 in pulmonary artery smooth muscle cells with idiopathic pulmonary arterial hypertension. *Am J Respir Crit Care Med*. 196: A2098, 2018.
201. Tang H, Wu K, Gu Y, Wang J, Makino A, and **Yuan JX**. Inhibition of mTORC2 upregulates PDGFR expression and contributes to the development of pulmonary hypertension. *Am J Respir Crit Care Med*. 196: A2107, 2018.

202. Sun X, Tang H, Sun A, Awuah P, Black SM, **Yuan JX** and Garcia JGN. Lung EC NAMPT promoter activity is induced by PAH-relevant stimuli and promotes EC-to-mesenchymal transition. *Am J Respir Crit Care Med*. 196: A2875, 2018.
203. Babicheva A, Song S, Carr S, Makino A, and **Yuan JX**. TGF- β -induced endothelial-to-mesenchymal transition in normal human lung vascular endothelial cells is Ca^{2+} dependent. *Am J Respir Crit Care Med*. 196: A3735, 2018.
204. Sears S, Acosta M, Tang H, Klinger C, **Yuan JX**, Mansour HM, and Black SM. Inhaled L-carnitine attenuates the development of pulmonary arterial hypertension in rats. *Am J Respir Crit Care Med*. 196: A3743, 2018.
205. Vanderpool RR, Rosado-Toro A, Wickstrom K, Puri R, Airhart S, Altbach MI, Avery RJ, **Yuan JX** and Rischard FP. Simplified pressure volume loops overestimate RV function in a load dependent fashion in patients with PAH. *Am J Respir Crit Care Med*. 196: A6141, 2018.
206. Karnes, J.H., Batai, K., Arora, A., Kaye J., Steiner H., Nair V., Joe G.N. Garcia, **J.X.-J. Yuan**, M.W. Paucilio, W.C. Nichols, and A.A. Desai. Genome-wide association study of vasodilator response in pulmonary arterial hypertension. *Circulation*. 137 (Suppl. 1): A24015, 2017.
207. Karnes, J.H., B. Natarajan, A. Arora, K. Batai, V. Nair, M. Hosseini, P. Suryanarayana, K. Lutz, A. Walsworth, S.M. Black, J.G.N. Garcia, M.W. Paucilio, R. Kittles, **J.X.-J. Yuan**, R. Vanderpool, J. Feldman, F. Rischard, W.C. Nichols, and A.A. Desai. Genetic admixture and clinical profiles in minority populations with pulmonary arterial hypertension: Pulmonary hypertension in minority populations. *Circulation* 138 (Suppl. 1):A14984, 2018
208. Zhang, Q., M. Watanabe, A. Tsuji-Hosokawa, S. Hosokawa, **J.X.-J. Yuan**, J. Wang, and A. Makino. Decreased connexin 40 expression in the small distal pulmonary artery leads to pulmonary hypertension during hypoxia. *Circulation* 138 (Suppl. 1):A14318, 2018.
209. Eccles, C.A., S. Kurdyukov, A.A. Desai, M. Gonzalez-Garay, **J.X.-J. Yuan**, J.G.N. Garcia, O. Rafikova and R. Rafikov. Glucose-6-phosphate dehydrogenase deficiency in pulmonary arterial hypertension. *Circulation* 138 (Suppl. 1):A12567, 2018.
210. Jain, P.P., T. Zhao, S. Song, M. Xiong, A. Babicheva, S. Rahimi, F. Balistreri, A. Makino and **J.X.-J. Yuan**. Halofuginone induces pulmonary vasodilation by activating KCNA5 channels and inhibiting extracellular Ca^{2+} -induced Ca^{2+} influx. *Am J Respir Crit Care Med*. 201:A7841, 2020.
211. Jain, P.P., A. Babicheva, S. Hosokawa, M. Xiong, F. Balistreri, S. Rahimi, A. Makino and **J.X.-J. Yuan**. Hypoxic pulmonary vasoconstriction in isolated mouse lungs. *FASEB J*. 34 (S1):04231, 2020
212. Xiong, M., P.P. Jain, A. Babicheva, T. Zhao, N. Lai, M. Rodriguez, S. Rahimi, F. Balistreri, J. Wang, A. Makino and **J.X.-J. Yuan**. Using pulmonary angiogram to estimate vascular remodeling in mice. *FASEB J*. 34(S1):04345, 2020
213. Rodriguez, M., A. Babicheva, M. Xiong, P.P. Jain, T. Zhao, N. Lai, S. Rahimi, F. Balistreri, M. Hernandez, P.A. Thistlethwaite, A. Makino, and **J.X.-J. Yuan**. Calcium Homeostasis Modulator (CALHM1/2) and pulmonary arterial hypertension. *FASEB J*. 34 (S1):07561, 2020
214. Babicheva, A., P.P. Jain, T. Zhao, M. Xiong, N. Lai, A. Makino and **J.X.-J. Yuan**. Decreased microRNA-153 promotes endothelial-to-mesenchymal transition in idiopathic pulmonary arterial hypertension. *FASEB J*. 34 (S1):07429, 2020.
215. Rahimi, S., A. Babicheva, M. Rodriguez, P.P. Jain, S. Rahimi, and **J.X.-J. Yuan**. Upregulation of G protein-coupled receptor 68 (GPCR68) in pulmonary artery smooth muscle cells from animals and humans with pulmonary hypertension. *FASEB J*. 34 (S1):09754, 2020.
216. Rafikov, R., F. Rischard, M. Zemskova, **J.X.-J. Yuan**, A.A. Desai, J.G.N. Garcia, and O. Rafikova. The role of plasma redox status and gender in cytokine profiling in pulmonary arterial hypertension. *Am J Respir Crit Care Med*. 203:A3645, 2021.
217. Jain, P.P., N. Lai, M. Xiong, J. Chen, D. Valdez-Jasso, P.A. Thistlethwaite, J.Y.-J. Shyy, J. Wang, A. Makino and **J.X.-J. Yuan**. Oral TRPC6 inhibitor BI-749237 ameliorates experimental pulmonary hypertension. *Am J Respir Crit Care Med*. 203:A3671, 2021.

218. Lai, N., P.P. Jain, M. Xiong, J. Chen, D. Valdez-Jasso, P.A. Thistlethwaite, J.Y.-J. Shyy, J. Wang, A. Makino and **J.X.-J. Yuan**. Blockade of TRPC6 channels attenuates growth factor-mediated activation of AKT/mTOR signaling in human pulmonary arterial smooth muscle cells. *Am J Respir Crit Care Med*. 203:A3674, 2021.
219. Chen, J., M. Rodriguez, N. Lai, P.P. Jain, A. Babicheva, M. Xiong, J. Li, A. Makino, J. Wang, and **J.X.-J. Yuan**. Mechanosensitive ion channel Piezo1 in the transition of pulmonary artery smooth muscle cells from a contractile to a proliferative phenotype. *Am J Respir Crit Care Med*. 203:A3669, 2021.
220. Zhen, X., E.A. Moya, M. Gautane, H. Zhao, T.S. Simonson, **J.X.-J. Yuan**, P.P. Jain, M. Xiong, A. Malhotra, and O. Mesarwi. Superimposed intermittent and sustained hypoxia presents a novel cardio-metabolic phenotype. *Am J Respir Crit Care Med*. 203:A4729, 2021.
221. Morrisroe, S.A., A. Gupta, H. Tang, T.-H. Schwantes-An, G. Gupta, V. Elangovan, J. Zagorski, S. Sangam, Y. Shi, S. Ciftci-Yilmaz, N. Andrew-Warfel, L. Hecker, S. Mitra, A. Coleman, K. Lutz, M. Pauciulo, **J.X.-J. Yuan**, J. R. Jacobson, W.C. Nichols, J.G.N. Garcia and A.A. Desai. Deficiency of the deubiquitinase UCHL1 attenuates pulmonary hypertension. *Am J Respir Crit Care Med*. 203:A1070, 2021.