

Lihui Yuan, PharmD. Ph.D

Contact information:

Department of Pharmacodynamics
College of Pharmacy
University of Florida
Gainesville, FL 32610
Office: (352) 294-8594
E-mail: yuanlh@cop.ufl.edu

Education:

Pharm. D.

College of Pharmacy, University of Florida

Ph.D

Molecular Genetics and Microbiology
Department of Oral Biology
University of Florida

Master of Agronomy

Department of Horticulture
China Agricultural University, Beijing, China

Bachelor of Agronomy

Department of Horticulture
Beijing Agricultural University, Beijing, China

Ph.D Dissertation: Quorum Sensing Regulated Gene Expression in *Porphyromonas gingivalis*

Positions, Memberships and Honors

Positions:

Oct 2023-current:	Clinical Associate Professor, Department of Pharmacodynamics, College of Pharmacy, University of Florida, Gainesville, Florida
July 2023-Sep 2023	Instructional associate professor, Department of Pharmacodynamics, College of Pharmacy, University of Florida, Gainesville, Florida
2016-June 2023:	Instructional assistant professor, Department of Pharmacodynamics, College of Pharmacy, University of Florida, Gainesville, Florida
2011-2016:	Senior Biological Scientist, Department of Pathology, immunology and Laboratory Medicine, University of Florida, Gainesville, Florida
2009-2011:	Postdoc associate, Department of Pathology, immunology and Laboratory Medicine, University of Florida, Gainesville, Florida,
2005-2008:	Postdoctoral Associate, Department of Physiology and Functional Genomics, University of Florida, Gainesville, Florida, USA

Lihui Yuan, PharmD. Ph.D

- 2000-2005: Alumni Fellow of University of Florida, Department of Oral Biology, University of Florida, Gainesville, Florida
- 1999-2000: Research Assistant, Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida
- 1998-1999: Research Assistant, Department of Horticulture, University of Florida, Lake Alfred, Florida

Memberships:

- 2017-current: American Association of College of Pharmacy
- 2016-2017: American Society of Consultant Pharmacists
- 2014: Rho chi, National Honor Society
- 2013: American Association of Consultant Pharmacy

Honors:

- 2023: Teaching Service Award for College of Pharmacy, University of Florida
- 2022-2023: Outstanding Teaching Team Year 1 PHA5561, College of Pharmacy, University of Florida
- 2022-2023: Exemplary Teacher of the Year, College of Pharmacy, University of Florida
- 2022: Teaching Service Award for College of Pharmacy, University of Florida
- 2021-2022: Team teaching award for PHA5561: Pathophysiology and Patient Assessment Respiration module, College of Pharmacy, University of Florida
- 2021: Teaching Service Award for College of Pharmacy, University of Florida
- 2020-2021: Team teaching award for PHA5787C: Patient Care Men's Health module
- 2019-2020: Teacher of the Year (Highest teaching award for College of Pharmacy, University of Florida)
- 2019: Teaching Service Award for College of Pharmacy, University of Florida
- 2018/2019: Nominated for Outstanding Teaching team award, PHA5561, Pathophysiology and Patient Assessment 2, served as coordinator and instructor, College of Pharmacy, University of Florida.
- 2018/2019: Nominated as Outstanding Teaching Team Award PHA5787C Patient care V, Endocrinology and Women's and Men's health, served as instructor, College of Pharmacy, University of Florida.
- 2017/2018: Finalist for Teacher of the Year Award for 2017, College of Pharmacy, University of Florida

Lihui Yuan, PharmD. Ph.D

2017: Nominated for Outstanding Teaching team award in PHA5560, Pathophysiology and Patient Assessment 1, served as coordinator, College of Pharmacy, University of Florida.

2000-2005: University of Florida Alumni Fellowship

1998-1999: Graduate Research Assistantship in Department of Horticulture, University of Florida

Licensure:

2016-current Licensed Pharmacist in Florida

Certificate:

APhA Train the trainer program to train pharmacist immunizers
Teaching certificate from College of Pharmacy, University of Florida, 2017

Teaching Experiences:

PharmD teaching:

- PHA5560: Pathophysiology and Patient Assessment I: Course coordinator and lecturer on patient assessment and cardiovascular module, total lectures: 19. 2017-current
- PHA5561: Pathophysiology and Patient Assessment II: Course coordinator and lecturer on patient assessment, renal and endocrine module, total lectures 17: 2017-current
- PHA5787C: Patient care 5, lecturer on diabetes, total lectures 2: 2018-current
- PHA5784C: Patient care 4, lecture on Pathophysiology of the Renal System, total lecture: 1
- PHA5878C: Patient care 3, lecture on Hypertension, total lectures: 2, started Fall 2023
- PHA5161L: Professional Practice Skills Laboratory I: Facilitator (all 13 modules) and module leader on cardiovascular section, 2017-2020
- PHA5162L: Professional Practice Skills Laboratory II: Facilitator (all 13 modules) and module leader on nervous system section 2017-2021
- PHA5759: APPE readiness, facilitator: 2020-current
- PHA5021: Personal and Professional Development, facilitator for 6 “Putting Patient First” sessions: 2018-2021

Ph.D Teaching:

- PHA 6508 Systems Physiology and Pathophysiology I: Instructor, 2017-present

Lihui Yuan, PharmD. Ph.D

- PHA 6509 Systems Physiology and Pathophysiology II: Instructor, 2018-present
- GMS 6471: Fundamentals of Physiology & Functional Genomics, Discussion leader for Spring 2007 and 2008

Online Master's Teaching:

- PHA6563: Pathophysiology of Disease I, Course coordinator and Instructor, 2020-present
- PHA6564: Pathophysiology of Disease II, Course coordinator and Instructor, 2021-present

These two online courses have been designed and offered to over 90 master degree seeking students since 2020 at College of Pharmacy, University of Florida

Teaching trainings and workshops:

- Workshop: CIPhER 2021 Summer Institute in Evidence-Based Teaching & Course Design, UNC Eshelman School of Pharmacy, May 2021
- Workshop: Inclusive Teaching Practices Workshop, UNC Eshelman School of Pharmacy, May 2021
- Interface: Learning beyond Four Walls. UF 2019
- Passport to great teaching: Adobe tools workshop for improving students' engagement: Sep 2018, Office of Faculty, Development and Teaching Excellence of University of Florida
- Situational Judgement Test (SJT) 2 day writing and critique workshop: Writing and Criticizing SJT scenarios for professionalism. College of Pharmacy, UF, Spring 2018
- Workshop on how to become a good educator? Mayo clinic 2017

Service:

- AACP Biological Section: The Secretary of Knowledge Management, Aug 2023-
- Teaching faculty search committee member of Pharmacodynamics, 2023
- Peer Teaching Evaluation Task Force: Dec 2021-Dec 2022
- Department Chair Search Committee: Dec 2021-2023
- Faculty advisor for student organization at UF COP: Asian Student Pharmacist Coalition
- Self-study focus group for accreditation of College of Pharmacy of University of Florida, 2020
- Curriculum Committee: UF College of Pharmacy 2019-current
- Curriculum Assessment Committee: UF College of Pharmacy 2020-2022
- PharmD Admission Committee: UF College of Pharmacy 2019-2020
- PharmD Student Faculty Advisor: UF College of Pharmacy 2017-current
- Speaker at the UF Operation Diabetes Student Organization 2019 and 2021
- Judge at the National Patient Counseling Competition at UF campus 2021,2022
- Judge at the 35th Annual College of Pharmacy Research Showcase 2022
- Member of Peer Review of Teaching Taskforce UF COP 2022

Lihui Yuan, PharmD. Ph.D

Faculty Advising:

- Faculty Advisor for PharmD students, University of Florida, 2017-present
- Supervised pre-medical students:
 - Girogio Negrón (graduated from Medical School of University of Florida in 2018)
 - Shuyao Zhang (graduated from Medical School of University of Florida in 2019)
- Supervised Ph.D students:
 - Sindhu. Arivazhagan (graduated 2015 from University of Florida)
- Supervised Pre-dental students for research projects in the lab, University of Florida

Clinic responsibilities:

- Clinical pharmacist at UF Health Warfarin clinic 2017-2021
- Clinical pharmacist at UF Health Diabetes clinic 2022-current

Book chapter:

- Yuan L. Integrated Critical Thinking and Clinical Reasoning in Pharmacy Practice. Ambulatory Care – Warfarin Management Clinic. In: Mobley C, and Moorman Li R (Eds.). McGraw Hill.
- Whalen K, Yuan L. Drugs for diabetes. Whalen K, Lerchenfeldt S, Giordano C, editors. Lippincott's Illustrated Reviews - Pharmacology (8th ed). Philadelphia, PA: Lippincott Williams & Wilkins; 2021

Peer-reviewed Publications:

1. Tantawy M, Chekka LM, Huang Y, Garrett TJ, Singh S, Shah CP, Cornell RF, Baz RC, Fradley MG, Waheed N, DeRemer DL, **Yuan L**, Langae T, March K, Pepine CJ, Moreb JS, Gong Y. Lactate Dehydrogenase B and Pyruvate Oxidation Pathway Associated With Carfilzomib-Related Cardiotoxicity in Multiple Myeloma Patients: Result of a Multi-Omics Integrative Analysis. *Front Cardiovasc Med*. 2021 Apr 29;8:645122. doi: 10.3389/fcvm.2021.645122. PMID: 33996940; PMCID: PMC8116486.
2. Xia CQ, Peng R, Chernatynskaya AV, **Yuan L**, Carter C, Valentine J, Sobel E, Atkinson MA, Clare-Salzler MJ. Increased IFN- α -producing plasmacytoid dendritic cells (pDCs) in human Th1-mediated type 1 diabetes: pDCs augment Th1 responses through IFN- α production. *J Immunol*. 2014 Aug 1;193(3):1024-34.
3. Xia CQ, Zhang P, Li S, **Yuan L**, Xia T, Xie C, Clare-Salzler MJ. C-Abl inhibitor imatinib enhances insulin production by β cells: c-Abl negatively regulates insulin production via interfering with the expression of NKx2.2 and GLUT-2. *PLoS One*. 2014 May 16;9(5):
4. Verma A, Shan Z, Lei B, **Yuan L**, Liu X, Nakagawa T, Grant MB, Lewin AS, Hauswirth WW, Raizada MK, Li Q. ACE2 and Ang-(1-7) confer protection against development of diabetic retinopathy. *Mol Ther*. 2012 Jan;20(1):28-36.
5. Yamazato M, Ferreira AJ, Yamazato Y, Diez-Freire C, **Yuan L**, Gillies R, Raizada MK. Gene transfer of angiotensin-converting enzyme 2 in the nucleus tractus

Lihui Yuan, PharmD. Ph.D

solitarius improves baroreceptor heart rate reflex in spontaneously hypertensive rats. J Renin Angiotensin Aldosterone Syst. 2011 Dec;12(4):456-61.

6. Yamazato Y, Ferreira AJ, Hong KH, Sriramula S, Francis J, Yamazato M, Yuan L, Bradford CN, Shenoy V, Oh SP, Katovich MJ, Raizada MK. Prevention of pulmonary hypertension by Angiotensin-converting enzyme 2 gene transfer. Hypertension. 2009 Aug;54(2):365-71.
7. Ferreira AJ, Shenoy V, Yamazato Y, Sriramula S, Francis J, Yuan L, Castellano RK, Ostrov DA, Oh SP, Katovich MJ, Raizada MK. Evidence for angiotensin-converting enzyme 2 as a therapeutic target for the prevention of pulmonary hypertension. Am J Respir Crit Care Med. 2009 Jun 1;179(11):1048-54.
8. Yuan L, Rodrigues PH, Bélanger M, Dunn WA Jr, Progulske-Fox A. Porphyromonas gingivalis htrA is involved in cellular invasion and in vivo survival. Microbiology. 2008 Apr;154(Pt 4):1161-9.
9. Der Sarkissian S, Grobe JL, Yuan L, Narielwala DR, Walter GA, Katovich MJ, Raizada MK. Cardiac overexpression of angiotensin converting enzyme 2 protects the heart from ischemia-induced pathophysiology. Hypertension. 2008 Mar;51(3):712-8.
10. Yuan L, Rodrigues PH, Bélanger M, Dunn W Jr, Progulske-Fox A. The Porphyromonas gingivalis clpB gene is involved in cellular invasion in vitro and virulence in vivo. FEMS Immunol Med Microbiol. 2007 Nov;51(2):388-98.
11. Díez-Freire C, Vázquez J, Correa de Adjoulian MF, Ferrari MF, Yuan L, Silver X, Torres R, Raizada MK. ACE2 gene transfer attenuates hypertension-linked pathophysiological changes in the SHR. Physiol Genomics. 2006 Oct 3;27(1):12-9.
12. Yuan L, Hillman JD, Progulske-Fox A. Microarray analysis of quorum-sensing-regulated genes in Porphyromonas gingivalis. Infect Immun. 2005 Jul;73(7):4146-54.

Poster Presentations at Scientific Conferences:

1. Yimei Huang, Timothy J Garrett, Lihui Yuan, Michael G Fradley, Robert F Cornell, Rachid C Baz, Chintan P Shah, Taimour Langaee, Nida Waheed, Carl J Pepine, Moreb S Jan, Yan Gong, Originally published 11 Nov 2019 Circulation. 2019;140:A989 Abstract 9892: Global Metabolomic Profiling Reveals Lower Lysophospholipids Levels in Multiple Myeloma Patients With Carfilzomib-Related Cardiotoxicity
2. S. Arivazhagan, L. Yuan, R.H. Khan, C. Alvarez, M.J. Clare-Salzler. Genetic Regulation of elevated heightened Interferon- α/β responses in NOD mice Abstract for Poster Presentation. University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2014
3. Lihui Yuan, Shuyao Zhang, Clayton Mathews, Michael Clare-Salzler, Type I Interferon and Virus Involvements in Type I Diabetes, University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2014

Lihui Yuan, PharmD. Ph.D

4. S. Arivazhagan, L. Yuan, R.H. Khan, R.Peng, M.J. Clare-Salzler. Genetic Regulation of elevated heightened Interferon- α/β responses by Chromosome 1 loci in NOD mice Abstract for Poster Presentation. Experimental Pathology Post-Doctoral Meeting, University of Florida, October 2013.
5. S. Arivazhagan, L. Yuan, R.H. Khan, R.Peng, M.J. Clare-Salzler. Genetic Regulation of elevated heightened Interferon- α/β responses by Chromosome 1 loci in NOD mice Abstract for Poster Presentation. Federation of Clinical Immunological Societies, Boston, Massachusetts, June 2013.
6. S. Arivazhagan, L. Yuan, R.H. Khan, R.Peng, M.J. Clare-Salzler.. Genetic Regulation of elevated heightened Interferon- α/β responses by Chromosome 1 loci in NOD mice Abstract for Poster Presentation. University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2013.
7. S. Arivazhagan, L. Yuan, R.H. Khan, R.Peng, M.J. Clare-Salzler. Chromosome 1 loci regulate the heightened Interferon- α/β responses in NOD mice. Abstract for Poster Presentation. 12th International Conference on Immunology of Diabetes Society, Victoria, B.C, Canada, June 2012.
8. S. Arivazhagan, L. Yuan, R.H. Khan, R.Peng, M.J. Clare-Salzler. Heightened Interferon- α/β responses are regulated by Chromosome 1 of NOD mice. Abstract for Poster Presentation. University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2012.
9. Anderson J Ferreira, Vinayak Shenoy, Lihui Yuan, Michael Katovich, Timothy Reudelhuber Mohan K Raizada. XNT, An ACE2 activator, prevents monocrotaline induced pulmonary hypertension. 62nd High Blood pressure Research Conference 2008 Annual meeting, Atlanta, GA, Sep 17-20, 2008
10. M Yamazato, C Diez-Freire, Y, Yamazato, L Yuan, A Ferreira, Mohan Raizada. Overexpression of ACE2 in the Nucleus Tractus Solitarius Improves Baroreflex Function in the Spontaneously Hypertensive Rat, International Society of Hypertension. Berlin, Germany, June 14-19.
11. Lihui Yuan, Xia Li, Judith Sved, Alan Sved, Li Liu, Mohan Raizada. Network of Paraventricular Nucleus Gene Expression in Angiotensin-salt Hypertension. Experimental Biology 2008 Annual meeting, San Diego, CA, April, 2008
12. Lihui Yuan, Xia Li, Judith Sved, Alan Sved, Mohan Raizada, Li Liu. Gene Expression Networks in Rostral Ventrolateral Medulla (RVLM) of Rats with Angiotensin-Salt Hypertension. Experimental Biology 2008 Annual meeting, San Diego, CA, April, 2008
13. Lihui Yuan, Xia Li, Judith C. Sved, Alan F. Sved, Mohan K Raizada Identification of Hypertension Associated Genes in the Rostral Ventrolateral Medulla of a Neurogenic Rat Model of Hypertension, Endocrine meeting, 2007, Toronto, June 2-5.
14. Q. Li, R. Miller, J. Oang, A. Dinculescu, Z. Shan, L.Yuan, A. Lewin, W. Hauswirth, M. Raizada. Prevention of Choroidal neovascularization by AAV-mediated P22phox

Lihui Yuan, PharmD. Ph.D

siRNA delivery in a murine model.

15. J.L. Grobe, S. Der Sarkissian, Y. Lihui, J.M. Stewart¹, M.K. Raizada, and M.J. Katovich ACE2 Overexpression Inhibits Hypoxia-Induced Collagen Production by Cardiac Fibroblasts 60th Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in association with the Council on the Kidney in Cardiovascular Disease, San Antonio, TX, Oct 4-7, 2006
16. Lihui Yuan and Ann Progulske-Fox. Analysis of an htrA Mutant in *Porphyromonas gingivalis*, 105th American Society for Microbiology, Atlanta, GA, June 2005
17. Lihui Yuan and Ann Progulske-Fox. Functional Analysis of a LuxS Regulated Protein, 83rd General Session & Exhibition of the IADR (International Association of Dental Research), Baltimore, MD, March 2005
18. Lihui Yuan and Ann Progulske-Fox. Identification and Characterization of ClpB and HtrA Mutants of *Porphyromonas. gingivalis*, 104th American Society for Microbiology, New Orleans, LA, May 2004
19. Lihui Yuan and Ann Fox-Fox. RT-PCR Confirmation of Quorum Sensing Regulated Genes in *Porphyromonas gingivalis* 82nd General Session & Exhibition of the IADR (International Association of Dental Research), Honolulu, Hawaii, March 2004
20. Lihui Yuan and Ann Progulske-Fox. Quorum Sensing Regulated Gene Expression in *Porphyromonas gingivalis* 103rd American Society for Microbiology, Washington DC, May 2003
21. Lihui Yuan and Ann Progulske-Fox. Detection of Quorum Sensing Molecules from Periodontal Pathogens 102nd American Society for Microbiology, Salt Lake City, UT, May 2002