**Steven Andrew Robicsek, MD, PhD**

robicsek@ufl.edu

Work: Department of Anesthesiology, Box 100254, University of Florida, Gainesville, FL 32610-0254

**PRESENT APPOINTMENTS**

Professor of Anesthesiology (primary appointment), Neurosurgery (joint appointment), and Neuroscience (joint appointment), Divisions of Neurosurgical and Vascular Surgery. University of Florida, College of Medicine, Gainesville, Florida, July 2016 – present

Faculty, Movement Disorders & Neurorestoration, *Fixel Center for Neurological Diseases* at UF Health, 2011 – present

Director, Neuroanesthesiology Fellowship, Dept. of Anesthesiology, University of Florida, College of Medicine, Gainesville, Florida, 2012 – present

Medical Director of Intraoperative Electrophysiology, UF Health, Gainesville, Florida, 2021 - present

# EDUCATION

B.A. (Chemistry) University of North Carolina, Chapel Hill, NC, 1981

M.S. (Medical Sciences) University of South Florida, College of Medicine, Tampa, FL, 1989

Ph.D. (Pharmacology) Dept. of Pharmacology and Therapeutics, University of South Florida, College of Medicine, Tampa, FL, 1990. Thesis “Multiple High-affinity cAMP-phosphodiesterases in Human T-lymphocytes”

M.D. School of Medicine and Health Sciences, The George Washington University, Washington, DC, 1995

**PREVIOUS APPOINTMENTS**

* Medical Director of Intraoperative Electrophysiology, UF Health, Gainesville, Florida, 2015 – 2020
* Associate Professor Anesthesiology, University of Florida, College of Medicine, Dept. of Anesthesiology, Gainesville, Florida, May 2010 – June 2016
* Associate Professor Neuroscience (joint appointment), University of Florida, College of Medicine, Dept. Neuroscience, Gainesville, Florida, December 2012 – June 2016
* Associate Professor of Neurological Surgery (joint appointment), University of Florida, College of Medicine, Dept. Neurosurgery, Gainesville, Florida, December 2011 – June 2016
* American Heart Association Operation C.A.R.E. ACLS Training Center Faculty, 2004-2013
* Director, Medical Student Anesthesia Electives, 2004-2010
* Assistant Professor Anesthesiology, University of Florida, College of Medicine, Dept. of Anesthesiology, Gainesville, FL, May 2002-2010
* Post-Doctoral Associate, Dept. Anesthesiology, University of Florida, College of Medicine, Gainesville, FL July 2001-May 2002
* Fellowship in Neuroanesthesiology, Dept. Anesthesiology, University of Florida, College of Medicine, Gainesville, FL, July 1999-June 2001
* Resident, Dept. Anesthesiology, University of Florida, College of Medicine, Gainesville, FL, 1996-1999
* Internship, Roanoke Memorial Hospital, Carilion Health System (a.k.a. Carilion Clinic), Roanoke, VA, 1995-1996
* Research Fellowship, Dept. Dermatology, Universitätsklinikum Rudolf Virchow, Freie Universität Berlin, Germany, Jun-Aug 1992
* Research Associate, Dept. Internal Medicine, University of South Florida, Tampa, FL, Sept 1990-Aug 1991
* Research Assistant, Dept. Pharmacology and Therapeutics, University of South Florida, Tampa, FL, May 1984-Sept 1990
* Research Technician, Heineman Medical Research Center, Charlotte, NC, Oct 1983-Apr 1984
* Research Assistant, Dept. Biochemistry, University of North Carolina, Chapel Hill, NC, Sept 1979-Jul 1980
* Research Assistant, Dept. Pharmacology, Addenbrooks Hospital, Cambridge, UK, Aug 1978-June 1979

# BOARD CERTIFICATION

* American Board of Anesthesiology, Diplomat, 2008
* American Board of Anesthesiology, Recertification 2018

# LICENSURE

* Medical License, State of Florida, #ME84006, 1/3/02, active
* Medical License, State of Georgia, #50831, 11/6/01, inactive
* Mount St. John’s Medical Center, Antigua, WI, restricted medical license, 3/1/17 active

**Certifications**

Shands at University of Florida

* Intraoperative neurophysiologic monitoring privileges
* Basic (Level 2) transesophageal echocardiography (TEE)

American Heart Association

* Basic Life Support (BLS)
* Advanced Cardiac Life Support (ACLS) recertification 2014, 2016
* Advanced Cardiac Life Support (ACLS) Instructor 2001-2017

American College of Surgeons

* Advanced Trauma Life Support (ATLS) Instructor (ID 3443571), Recertification 2018, 2021-2023
* Kennedy Space Center Spaceflight Medical Support Training

The Institute for Medical Simulation, Harvard University, Boston, MA

* Comprehensive Instructor Workshop, November 2013
* Advanced Instructor Course in Healthcare Simulation, May 2015
* Advanced Instructor Course (ADC2018) at UF, August 2018

# AWARDS

University of Florida, Shands Hospital

* UF Health Shands physician service award, 2013, 2014, 2015

University of Florida, Dept. of Anesthesiology, College of Medicine, University of Florida

* UF Dept. of Anesthesiology, Lifetime achievement award 2017
* UF Dept. of Anesthesiology, Exemplary Teacher Award, 2008, 2009, 2015, 2016
* UF Dept. of Anesthesiology, Outstanding Resident of the Year, 1998
* Gulf Atlantic Anesthesia Residents’ Research Conference Oral presentation award, 1999
* Universitätsklinikum Rudolf Virchow, Freie Universität Berlin, German Research Fellowship, 1991,
* William Beaumont Research Society Oral presentation award, 1993,
* Florida Graduate Student Research Symposium Oral presentation award, 1989

**EDITORIAL BOARDS**

**Current Editorial Board Commitments**

* Anesthesia & Analgesia and A&A Case Reports, 2013 - present
* Frontiers, Editorial Board Member, 2010-present
* International Brain Mapping & Intraoperative Surgical Planning Society, Editorial Board, 2010-2011

**SOCIETY MEMBERSHIPS**

* Congress of Neurological Surgeons (2021 – present)
* International Society for Anaesthetic Pharmacology 2019 - present
* Society of NASA Flight Surgeons, 2008 - present
* Florida Society of Anesthesiologists, 1998 - present
* Alachua County Medical Society, 2001 - present
* Society Neuroscience Anesthesia Critical Care, 2000 - present
* American Society of Anesthesiologists, 1998 - present
* The William Beaumont Medical Research Society, 1993
* George Washington University Class Council, 1992 - 1993
* American Medical Association, 1991-1993, 1997, 1999 - present
* Phi Kappa Honorary Society, 1986 - 1990
* Association of Medical Science Graduate Students, University of South Florida, 1985-1987

**COURSE INSTRUCTION**

Maintenance of Certification in Anesthesiology Program (MOCA)

Instructor Faculty, Gainesville, FL, November 21, 2015

Instructor Faculty, Gainesville, FL, October 8, 2016

Advanced Trauma Life Support (ATLS) Training (American College of Surgeons), 2004-present

Certification Tampa, FL, June 18, 2004

Instructor Candidate, Tampa, FL, August 4-5, 2005

Instructor Faculty, Lecture Spine **&** Skill Station, Gainesville, FL, December 7-8, 2006

Instructor Faculty, Lecture Elderly, Gainesville, FL, June 21-22, 2007

Instructor Faculty, Lecture Spine **&** Skill Station, Gainesville, FL, August 7-8, 2008

Instructor Faculty, Lecture Airway **&** Skill Station, Gainesville, FL, December 5-6, 2008

Instructor Faculty, Lecture Spine **&** Skill Station, Gainesville, FL, December 10-11, 2009

Instructor Faculty, Lecture Head **&** Skill Station, Gainesville, FL, June 24-25, 2010

Instructor Faculty, Lecture Musculoskeletal **&** Skill Station, Gainesville, FL, December 9-10, 2010

* Instructor Faculty, Lecture Airway and Ventilation Management **&** Airway Skills. Gainesville, FL, August 2, 2012.

Instructor Faculty, Lecture Thoracic **&** Skill Station, Gainesville, FL March 7-8, 2013

Instructor Faculty, Lecture Airway and Ventilatory Management **&** Airway Skills, Gainesville, FL, June 20-21, 2013

Instructor Faculty, Lecture Airway and Ventilatory Management, Gainesville, FL, December 3-4, 2013

Instructor Recertification, Gainesville, FL, April 30, 2014

Instructor Faculty, Lecture Spine **&** Spine Skill Station, Gainesville, FL June 19-20, 2014

Student Course CoDirector, Lecture Pediatric and Geriatric Trauma **&** Abdominal and Pelvic Trauma and Skills. Tampa, FL April 11, 2015

Instructor Faculty, Lecture Airway and Ventilatory Management **&** Airway Skills. Gainesville, FL, June 18, 2015

Student Course CoDirector, Lecture Airway and Ventilatory Management **&** Airway Skills **&** Spinal Cord Assessment. Tampa, FL June 20-21, 2015

Instructor Faculty, Lecture Thoracic **&** Skill Station, Gainesville, FL, June 23, 2016

Instructor Faculty, Lecture **&** Skill Station, Airway and Ventilatory Management, Gainesville, FL, March 30, 2017

Instructor Faculty, Lecture **&** Skill Station, Airway and Ventilatory Management, Gainesville, FL, July 18, 2018

Instructor Faculty, July 29-30, 2021, Gainesville, FL

Instructor Faculty, June 25-26, 2022, CAMLS, Tampa, FL

Instructor Faculty, March 25, 2023, CAMLS, Tampa, FL

# ACLS Training Center Faculty (American Heart Association) 2002 – 2013

# Advanced Cardiac Life Support Training Classes, 2000 - 2010

* Departments of Anesthesiology, Surgery and Oral Maxillofacial Surgery, 2000 - 2008
* First Year Medical Students, 2000 - 2009
* NASA Medical Support Team, 1997 – 2008
* International ACLS/BLS Student and Instructor Courses, Ankara, Turkey, 2005, 2006, 2007
* Local physicians, May 28, 2002
* City of Gainesville, Gainesville Fire Rescue - Simulator Training Sessions, 2000 - 2002

**TEACHING AND ADVISING**

Medical Student Anesthesia Interest Group, Founder and Faculty Advisor, 2000 – 2009

Medical Student Anesthesia Interest Group, Co-Director, 2009 – 2011

Advisor for Neuroanesthesiology Fellows

* Elizabeth B. Mahanna-, MD 2012 – 2013
* Ferenc Rabai, MD 2016 – 2017
* Gevalin Srisooksai, MD 2019 - 2021

Selected Research Mentoring

1. Furtuna Tewolde (Doctoral candidate): Examining Measurement of Clinical Outcomes in Severe Traumatic Brain Injury: Utility of and Analysis Approaches for the GOS and the DRS. Dissertation committee UF College of Public Health & Health Professions
2. Gevalin Srisooksai: Intraoperative Monitoring During Endoscopic Resection of Skull Base Tumor Involving Brainstem: Emphasis on Cranial Nerve EMG.  ICPNT webinar offered by the Neuroanesthesia Program Relations Committee on Pearls in Neuromonitoring During Neurosurgery - From the Experts. April 29, 2021. International virtual lecture.

Ferenc Rábai, MD: 1st place, Oral presentation, Department of Anesthesiology 9th Annual Anesthesiology Celebration of Research, April 2019.” “Electrophysiological monitoring during intracranial aneurysm surgery: Improving test validity by accounting for the treatment paradox affecting signal changes that reverse with intervention”

Ferenc Rábai, MD: 3rd place, American Society of Neurophysiologic Monitoring, Electrophysiologic monitoring with provocation testing in the treatment of spinal arteriovenous fistula. May 2016.

Arrant Colton, MD: 2nd place, research category, Gulf Atlantic Anesthesiology Residents' Research Conference, April 2015. “Anesthetic management for craniotomy for tumor in a patient with an anterior mediastinal mass.”

Arnold Tóth, MD, PhD candidate: Travel award to NNS, San Francisco, CA, May 2014.

Ferenc Rábai, MD: 3rd place, University of Florida, Anesthesiology Celebration of Research. Gainesville, FL, May 2014. “Contralateral and third ventricle compression are early CT signs heralding secondary infarcts in non-penetrating severe traumatic brain injury.”

Ferenc Rábai, MD: Travel award. International Neurotrauma Symposium (INTS) poster competition, Budapest, Hungary, March 2014. “Contralateral and 3rd ventricle compression are early CT signs heralding secondary infarcts in non-penetrating severe traumatic brain injury.”

Arnold Tóth, MD (PhD candidate): 3rd place, International Neurotrauma Symposium (INTS) poster competition, Budapest, Hungary, March 2014. “Lateral ventricle volume asymmetry predicts midline shift and 6-month outcome in severe traumatic brain injury.”

Ferenc Rábai, MD: 3rd place research, Gulf Atlantic Anesthesiology Residents' Research Conference, April 2013, "Predicting secondary ischemia in traumatic brain injury"

Darian Rice MD, PhD: Supervision of resident research tract. “Severe Traumatic Brain Injury” (2011-2012)

Dasia Esener: Dept. of Anaesthetics, University of Sydney. Supervision of graduate honors project “Complications of inadvertent intra-arterial injections” (2006)

Medical Student Research

Claire Dorey (Doctor of Audiology student) (2020-2021)

Victor Sylva (MSRP-2020-2021)

Adrian Svingos (Doctor of Neuropsychology student) (2019-2020)

Saeed Sadremelli (MSRP-2012)

Daniel Ngyuen (MSRP-2011)

Patrick Buchanan (2010)

Joshua Solano (2010)

Enrique Escobar (2009)

Dustin Hegland, Patrick Tighe (2002)

Medical Student I.V. Placement Laboratory

* May 2011; May 2012; May 2013; May 2014

**COMMITTEE APPOINTMENTS**

**Committee Appointments**

Minna-James-Heineman Foundation ( <https://www.heinemanstiftung.org/> )

*Board of Directors, Minna-James-Heineman-Stiftung (Max Planck Society, Germany - Weizmann Institute of Science, Israel - Heineman Medical Research Center, USA), 2012 – present*

*Heineman Medical Research (* [*https://heineman.org/*](https://heineman.org/) *)*

*President, 2020 - present*

*Vice President, 2019 - 2020*

*Board Member, 2006 - 2019*

Society for Neuroscience in Anesthesia and Critical Care (SNACC)

*Education Committee, 2006 - 2010*

*Task Force on Perioperative Stroke, 2011 - 2017*

Focus on Stroke, Traumatic Brain Injury, Neuroprotection, 2013 – 2017

International Council on Perioperative Neuroscience Training (ICPNT) 2018 - present

Dept. of Anesthesiology, College of Medicine, University of Florida

*Visiting Professor Committee 2021 - present*

*Finance and Compensation Committee 2016-2021*

*Anesthesia electives, Director, 2005 - 2010*

*Medical Student Curriculum Group 2001 - 2011*

*Operating Room Call Committee, 2004 - 2013*

*Anesthesia electives, Associate Director, 2011 - 2013*

*Dept. of Anesthesiology Call Committee, 2009 - 2013*

*Human Patient Simulator Teaching and Development Committee 2000 - 2015*

*Resident Recruitment, 2004 - present*

*Education Council, 2013 - 2020*

*Finance and Compensation Committee, 2015 - 2021*

Shands Hospital at the University of Florida, Gainesville

*Simulation Center Task Force, 2003 - 2010*

*Operating Room Call Committee, 2006 - 2007*

*Trauma Quality and Performance Improvement Committee, 2007 - 2012*

*Code Blue (Resuscitation) Committee 2009 - 2014*

University of South Florida, School of Medicine

*Association of Medical Science Graduate Students, President, 1985 - 1987*

*University Senator and Finance Committee, 1988 - 1989*

**Other Professional/Community Service**

NASA Space Shuttle Medical Support at Kennedy Space Center. I participated in over 1/3 of total shuttle missions from 1997-2011

USAID sponsored project to Romania as a first step in developing a pediatric cardiac surgery program at the Iasi Cardiology Center and among other procedures the first pediatric cardiac anesthetic in Romania; a ventricular defect repair on an 11-year-old girl. The following year I sponsored an anesthesiology resident from Romania to University of Florida. (2002)

Central American Outreach program (partially funded by Heineman Foundation). Support of outpatient medical clinic (Copan, Honduras). Personal participation in surgical anesthesia and coordination for University of Florida fellows and faculty (Darian Rice, Kent Berg, Winston Thomas, Robert Timmerman, Dustin Hegland, Mark Martin) for community outreach to Belize funded through Heineman Medical Research (Board member). Darian Rice (June 2015), Jonathan Hadaway (August 2015), William Stein and Andrew Pitkin (November 2015) (2005-2015). Amanda Fiastro (April 2016). I evaluated 4 critical care and surgical units in Guatemala for equipment (December 2015). Heather Reed (June 2016), Greg Janelle (July 2016). Amanda Fiastro (December 2016), Steven Robicsek (Mt. St. John’s Medical Center, Antigua).

2016 Medical Student Research Judge, Celebration of Research Day, College of Medicine, University of Florida, Gainesville, FL February 22, 2016.

Hosted Janok Paniagua De Diego MD, a clinical neurophysiology resident, from Nuestra Señora La Candelaria University Hospital, Tenerife, Spain as an observer of interoperative neuromonitoring. March-April 2018.

Organized 1-week medical mission to Mt. St. John’s Medical Center (St. John's, Antigua) with 3 additional physicians. Cared for over 30 patients with dialysis needs and selected vascular surgery intervention. Two regional anesthesiology workshops for local physicians. February, 2019.

Equipped and opened 3 operating rooms at Obras Sociales Santo Hermano Pedro, Antigua, Guatemala. <https://hermanopedrogt.org/>; May, 2022. Additional information in Annual report: <https://heineman.org/wp-content/uploads/2022/12/IMO-Annual-Report-2021.pdf>

Heineman-Robicsek Foundation, Inc. Annual reports: <https://heineman.org/annual-reports/>

2023 **International Education of Anesthesiologists in Regional Anesthesia and POCUS.** Project to train existing anesthesiologists practicing at Ruth Paz Hospital for Children, San Pedro Sula, Honduras (https://en.fundacionruthpaz.org/) with basic and advanced techniques in **R**egional **A**nesthesia (RA) and **P**oint of **C**are **U**ltra**S**ound (POCUS)

**TEXTBOOKS, CONTRIBUTOR OF A CHAPTER**

1. Mahanna-Gabrielli E , **Robicsek SA**, Gravenstein D, Gravenstein N,McDonagh DL. Neurointensive Care. *Textbook of Neurointensive Care,*eds. Gabrielli, Kumar, Mahanna, O’Phelan, LeRoux, Levine and Layon. *submitted*
2. Berg K, Kiley S, Buchanan PJ, **Robicsek S**. Regional Anesthesia: Neuraxial Techniques for Major Vascular Surgery *in Urman RD, Kaye AD eds. Vascular Anesthesia Procedures*. 1st ed., Oxford University Press, NY, 2021, pp. 187-208.

# Robicsek S, Mahla ME, Gravenstein D, Seubert CN: Neurologic Monitoring, *in Gabrielli A, Layon AJ, Yu M (eds): Critical Care, 5th ed.* Philadelphia, Lippincott Williams and Wilkins, 2017, pp.310-333*.*

# Mahanna E, Gravenstein D, Gravenstein N, Robicsek SA. Intraoperative Neuroanesthesia *in Layon AJ, Gabrielli A, Friedman WA (eds): Textbook of Neurointensive Care, 2nd ed.* NY, Springer, 2013, pp. 843-861.

# LeClaire AC, Bushwitz JR, Robicsek SA: Pharmacotherapy in the Neurosurgical Intensive Care Unit *in Layon AJ, Gabrielli A, Friedman WA (eds)*: Textbook of Neurointensive Care, 2nd ed. NY, Springer, 2013, pp. 941-64.

# Seubert CN, Gravenstein D, Robicsek S, Mahla ME: Neurologic Monitoring *in Gabrielli A, Layon AJ, Yu M (eds): Critical Care, 4th ed.* Philadelphia, Lippincott Williams and Wilkins, 2009, pp. 317-42.

# Robicsek S, Layon AJ, Gabrielli A: Cardiac Arrest *in Lobato EB, Gravenstein N, Kirby RR (eds): Complications in Anesthesiology, 3rd ed.* Philadelphia, Lippincott Williams & Wilkins, 2008, pp 295-309.

# Robicsek SA, Rogers RJ, Hemmings HC: Pharmacotherapy in the neurosurgical intensive care unit *in Layon AJ, Gabrielli A, Friedman WA (eds): Textbook of Neurointensive Care.* NY, WB Saunders, 2004, pp 649-682.

1. **Robicsek SA**, Nolan MF, Prockop LD: The Pharmacology of Increased Intracranial Pressure *in Klawans HL, Goetz CG, Tanner CM (eds), Textbook of Clinical Neuropharmacology and Therapeutics, 2nd ed.* NY, Raven Press, 1992, pp 349-63.

# REFEREED PUBLICATIONS

1. Porche K, Malnik SL, Yue S, Maciel C, Lucke-Wold B, **Robicsek SA**, Decker M, Busl K. Leveraging Machine Learning to Develop a Postoperative Predictive Model for Postoperative Urinary Retention Following Lumbar Spine Surgery. The European Spine Journal *submitted*
2. Levy S, Srisooksai G, **Robicsek S**, Heithaus RE Bipolar radiofrequency ablation of a C2 osteoblastoma using motor evoked potentials for intraprocedural neuromonitoring. *Submitted JVIR*
3. Dagra A, Barpujari A, Bauer SZ, Olowofela BO, Mohamed S, McGrath K, Robinson C, **Robicsek S**, Snyder A, Lucke-Wold B. Epigenetics of Neurotrauma. Neurology (Chic). 2022;2(2):42-47. PMID: 36507115; PMCID: PMC9732507.
4. Cordero R, Barlow E, Hunter E, Robinson CP, Andoniadis MM, Van Meter TE, **Robicsek SA**, Heaton S, Dore S. Assessing heightened occurrence and severity of stroke through deviation of biomarkers in COVID-19. Molecular Neurobiology. *submitted*
5. Eckert M, Bhakta N, Cohen SA, Babi MA, Elghareeb M, Gatica S, Pizzi MA, **Robicsek SA**; Robinson CP, Koch M, Laurent D, Trippensee A, Mohamed B, Busl KM, Maciel CB. Perioperative practices in Moyamoya syndrome revascularization: An international transdisciplinary survey. Stroke: Vascular and Interventional NeurologyVolume 3, Issue 2, March 2023. <https://doi.org/10.1161/SVIN.122.000521>
6. Small C, Lucke-Wold B, Patel C, Abou-Al-Shaar H, Moor H, Mehkri Y, Still M, Goldman M, Miller P, **Robicsek S**. Cerebral Dysregulation: A refined look at the process of disrupted autoregulation. Clinical Neurology and Neurosurgery. Clin Neurol Neurosurg. 2022 Jul 27;221:107389. doi: 10.1016/j.clineuro.2022.107389. PMID: 35961231.
7. Rabai F, Dorey CM, Fox WC, Fitzgerald KM, Seubert CN, **Robicsek SA**. Utility of evoked potentials during anterior cerebral artery and anterior communicating artery aneurysm clipping. Clin Neurophysiol Pract. 2022 Jul 16;7:228-238. doi: 10.1016/j.cnp.2022.07.001. PMID: 35935596; PMCID: PMC9352509.
8. Svingos AM, **Robicsek SA**, Hayes RRL, Wang KK, Robertson CS, Brophy GM, Papa L, Gabrielli A, Hannay HJ, Bauer RM, Heaton SC. Acute Cerebrospinal Fluid Concentrations of UCH-L1 and MAP-2 Improve Prediction of Clinical Outcomes 7-10 Years after Severe Traumatic Brain Injury. Neurocrit Care, Mar 1, 2022. doi.org/10.1007/s12028-022-01461-y. (IF=3.21)
9. Eckert M, Bhakta N, Cohen SA, Babi MA, Elghareeb M, Gatica S, Pizzi MA, **Robicsek SA**; Robinson CP, Koch M, Trippensee A, Mohamed B, Busl KM, Maciel CB Perioperative Practices of Moyamoya Syndrome Undergoing Revascularization. Neurology, 96 (15) Supplement 4680, April 13, 2021.
10. Porche K, Maciel CB, Lucke-Wold B, **Robicsek SA**, El Chalouhi N, Brennan M, Busl KM. Preoperative prediction of postoperative urinary retention in lumbar surgery: a comparison of regression to multilayer neural network. J Neurosurg Spine, Sept 10, 2021. doi: 10.3171/2021.3.SPINE21189 (IF 3.602)
11. Vlisides PE, Moore LE, Whalin MK, **Robicsek SA**, Gelb AW, Lele AV, Mashour GA.  Perioperative Care of Patients at High Risk for Stroke During or After Non-cardiac, Non-neurological Surgery: 2020 Guidelines from the Society for Neuroscience in Anesthesiology Critical Care. J Neurosurg Anesth. 32(3):210-226, July 2020.
12. Tinica G, Tarus A, Bacusca A, Furnica C Chistol RO, **RobicsekSA.** “*Carpe Diem*” Professor – In Memorium of Francis Robicsek (1925-2020). Ann Thoracic Surg. 110 (5):1774-1777, 2020.
13. **Robicsek SA**, Bhattacharya A, Rabai F, Shukla K, Doré S. Blood-related toxicity after Traumatic Brain Injury: Potential targets for neuroprotection. Molecular Neurobiol.  **57,** 159–178 Oct 16, 2019. https://doi.org/10.1007/s12035-019-01766-8.
14. Papa L, **Robicsek SA**, Brophy GM, Wang KKW, Hannay HJ, Heaton S, Schmalfuss I, Gabrielli A, Hayes RL, Robertson CS.  Temporal Profile of Microtubule Associated Protein (MAP-2) - A Novel Indicator of Brain Injury Severity After Trauma. J Neurotrauma 1;35(1):32-40, 2018.
15. Garcia JM, Stillings SA, LeClerc JL, Phillips H, Edwards NJ, **Robicsek SA**, Hoh B, Blackburn S, Dore S. Role of interleukin-10 in acute brain injuries. Front. Neurol., 12 June 2017. [*https://doi.org/10.3389/fneur.2017.00244*](https://doi.org/10.3389/fneur.2017.00244)
16. Tóth A, Schmalfuss I, Heaton S, Gabrielli A, Hannay HJ, Papa L, Brophy G, Wang KKW, Büki A, Schwarcz A, Hayes R, Robertson CS, **Robicsek SA**.  Lateral ventricle volume asymmetry predicts midline shift and 6-month outcome in severe traumatic brain injury. J Neurotrauma, 32:1–5, 2015. [IF 3.714]
17. Papa L, Robertson CS, Wang KKW, Brophy GM, Hannay HJ, Heaton S, Schmalfuss I, Gabrielli A, Hayes R, **Robicsek SA.** Biomarkers Improve Clinical Outcome Predictors of Mortality Following Non-Penetrating Severe Traumatic Brain Injury Neurocrit Care 22(1):52-64, 2015. [PMID:25052159] [IF 3.714]
18. Mashour GA, Moore LE, Lele AV, **Robicsek SA**, Gelb AW. Perioperative Care of Patients at High Risk for Stroke after Non-Cardiac, Non-Neurologic Surgery: Guidelines from the Society for Neuroscience in Anesthesiology and Critical Care. *SNACC Task Force on Perioperative Stroke.* J Neurosurg Anesthesiol. *26: 273-85, 2014*. [PMID:24978064] [IF 2.347]
19. Zhang Z, Zoltewicz J S, Mondello S, Newsom KJ, Yang Z, Yang B, Kobeissy F, Guingab J, Glushakova O, **Robicsek S**, Heaton S, Büki A, Hannay J, Gold MS, Rubenstein R, Lu XM, Dave JR, Schmid K, Tortella F, Robertson CS, Wang KKW. Human traumatic brain injury induces autoantibody response against glial fibrillary acidic protein and its breakdown products. PloS One, 9(3), 2014. [IF 3.53]
20. Mashour GA, Avitsian R, Lauer KK; Soriano, SG, Sharma D; Koht A, Crosby G: Neuroanesthesiology Fellowship Training, J Neurosurg Anesthesiol 25(1) 1-7 2013. doi: 10.1097/ANA.0b013e3182785d5d (acknowledgement of participation).
21. Rice D, Wang KK, **Robicsek SA**. Biomarkers of traumatic brain injury in the geriatric population. Curr Tran Geriatr Gerontol Rep 1:129-134, 2012.
22. Mondello S, Akinyi L, Büki A, **Robicsek S**, Gabrielli A, Tepas J, Papa L, Brophy G, Tortella FC, Hayes RL Wang KK: Clinical utility of serum levels of ubiquitin C-terminal hydrolase as a biomarker for severe traumatic brain injury. Neurosurgery 70:666-675, 2012. [IF 4.252]
23. Lee LA, Roth S, Todd MM, Posner KL, Polissar NL, Neradilek MB, Torner J, Newman NJ, Domino KB, Lauer KK, Buddithi R, Gollapudy S, Pajewski TN, Scalzo DC, Avitsian R, Brown MJ, Buenvenida S, Mashour GA, Moore LE, Samra SK, Lieberman J, Lane RK, Ramani R, Wagner J, Tempelhoff R, Monsey CM, **Robicsek SA**, Vu MM, Weeks J, Manninen PH, Fu ES, Sanchez-Yanes GC, Peterfreund RA, Albrecht MA, Sapire KJ, Baughman VL, Caplan RA, Cheney FW, Metzner J. Risk factors associated with ischemic optic neuropathy after spinal fusion surgery. Anesthesiology 116:15-24, 2012. [PMID:22185873] [IF 5.163]
24. Brophy GM, Mondello S, Papa L, **Robicsek S**, Gabrielli A, Tepas J, Büki AK, Robertson C, Tortella FC, Hayes RL, Wang KK: Biokinetic analysis of ubiquitin C-terminal hydrolase-L1 (UCH-L1) in severe traumatic brain injury patient biofluids. J Neurotrauma 28:861–870, 2011. [IF 3.654]
25. Przkora R, Euliano TY, Roussos-Ross K, Zumberg M, **Robicsek SA**: Labor and delivery in a patient with hemophilia B. Int J Obstet Anesth 20:250-253, 2011. [IF 1.395]
26. Mondello S, **Robicsek SA**, Gabrielli A, Brophy GM, Papa L, Tepas JJ, Robertson C, Büki A,Scharf D,Jixiang M,Akinyi L,Muller U,Wang KKW, Hayes RL: αII-Spectrin breakdown products (SBDPs): diagnosis and outcome in severe traumatic brain injury patients. J Neurotrauma 27:1203-1213, 2010. [PMID:20408766] [IF: 3.426]
27. Euliano TY, **Robicsek SA**, Banner MJ: The value of anesthesiology in undergraduate medical education as assessed by medical school faculty. J Educ Perioperative Med 12:1-8, 2010. <http://www.asahq.org/jepm/current.html>
28. Papa L, Akinyi L, Liu MC, Pineda JA, Tepas JJ 3rd, Oli MW, Zheng W, Robinson G, **Robicsek SA**, Gabrielli A, Heaton SC, Hannay HJ, Demery JA, Brophy GM, Layon J, Robertson CS, Hayes RL, Wang KK: Ubiquitin C-terminal hydrolase is a novel biomarker in humans for severe traumatic brain injury. Crit Care Med 38:138-144, 2010. [PMID: 19726976] [IF 6.254]
29. Laudanski K, **Robicsek S**: Anaesthesia management of acute aortic dissection type B in Marfan syndrome complicating end-stage pregnancy. South Afr J Anaesth Analg 15:29-30, 2009.
30. Hooper A, Okun MS, Foote KD, Haq IU, Fernandez HH, Hegland D, **Robicsek SA**: Venous embolism in deep brain stimulation. Stereotact Funct Neurosurg. 87:25-30, 2009. [IF 1.477]
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36. Lampotang S, Lizdas DF, Gravenstein N, **Robicsek S**: An audible indication of exhalation increases delivered tidal volume during bag valve mask ventilation of a patient simulator. Anesth Analg. 102:168-171, 2006. [IF 2.59]
37. **Robicsek SA**, Robicsek F: János Balassa and the first CPR. Am J Emerg Med 22:622-623, 2004.
38. **Robicsek SA**, Lobato EB: Repair of pectus excavatum. Anesthetic considerations. Chest Surg Chest Surg Clin N Am. 10:253-259, 2000.
39. Paus R, Heinzelmann T, **Robicsek S**, Czarnetzki BM, Maurer M: Substance P stimulates murine epidermal keratinocyte proliferation and dermal mast cell degranulation *in situ*. [Arch Dermatol Res.](http://www.ncbi.nlm.nih.gov/pubmed?term=Paus%20%2B%20Robicsek) 287:500-502, 1995. [IF 2.062]
40. Robicsek F, Lawhorn R, **Robicsek S**, Norton HJ. Comparison of knitted and woven aortoiliac and aortofemoral Dacron prostheses in the same patient: a 10-year prospective study. J Long-term Effects Med Implants 2(2-3):127-136, 1992. [PMID:10148320]
41. **Robicsek SA**, Blanchard DK, Djeu JY, Krzanowski JJ, Szentivanyi A, Polson JB: Multiple high affinity cAMP-phosphodiesterases in human T-lymphocytes. Biochem Pharmacol. 42:869-877, 1991. [IF 2.2]
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43. Robicsek F, Duncan D, Hawes AC, Rice HE, Harrill S, **Robicsek SA**: Biological thresholds of cold-induced phrenic nerve injury. J Thorac Cardiovascular Surg 89:167-170, 1990.
44. Robicsek F, Duncan D, Masters TN, **Robicsek SA**, Rice HE: Can AIDS be prevented after injury with contaminated instruments? Ann Thorac Surg. 49:984-986, 1990.
45. **Robicsek SA**, Krzanowski JJ, Szentivanyi A, Polson JB: High-pressure liquid chromatography of cyclic nucleotide phosphodiesterase from purified human T-lymphocytes. Biochem Biophys Res Commun. 163:554-560, 1989.
46. Robicsek F, Duncan GD, Rice HE, **Robicsek SA**: Experiments with a bowl of saline: the hidden risk of hypothermic-osmotic damage during topical cardiac cooling. J Thorac Cardiovasc Surg. 97:461-466, 1989.
47. Robicsek F, Tarjan P, Harbold Jr NB, Masters TN, **Robicsek SA**, Ferrari HA. A new self-anchoring endocardial electrode. Coll Works Cardiopulm Dis. 23:77-82, 1982. [PMID:7094566]
48. Robicsek F, **Robicsek SA**, Ferrari HA: A new temporary pacing electrode. Ann Thorac Surg. 30:493-4, 1980.

**Invited Articles and Editorials**

* University of Florida, Gust Front Funnel Cloud (Gustnado) Event, Alachua Co. SKYWARN News, University of Florida, Gainesville, FL, June 29, 2010. <http://www.fireline.org/skywarn/gustnado/>
* Gabrielli A, **Robicsek S**: New concepts in ACLS. ASA Newsletter 70(4): 2006. <http://www.asahq.org/Newsletters/2006/04-06/gabrielli04_06.html>
* **Larner SF, Want KKW, Oli M, Robinson G, Gabrielli A, Robicsek SA, Hayes RL:** Biomarkers: the future of diagnosis and therapy for traumatic brain injury. <http://internationalbrain.org/news.php?dep=3&page=14&list=123>

**Articles Written by Others**

* Medical students teach peers: anesthesiology interest group offers Advanced Cardiac Life Support class. ACLS News, 2008. (Served as mentor to medical students)

### SELECTED LECTURES PRESENTED:

* Basics on Neuromonitoring for spine and cranial surgery Department of Anesthesiology, University of Florida. March 9, 2023
* Intraoperative neuromonitoring: A Primer. Intern residents Department of Anesthesiology, University of Florida. February 8. 2023.
* Intraoperative neuromonitoring: A Primer. UAB Winter Course: Anesthesiology and Care of Surgical Patients. Vail, CO. January 25. 2023.
* Anesthetic Management of Aneurysmal Subarachnoid Hemorrhage. UAB Winter Course: Anesthesiology and Care of Surgical Patients. Virtual lecture. January 27. 2022.
* Gevalin Srisooksai and Steven Robicsek: Intraoperative Monitoring During Endoscopic Resection of Skull Base Tumor Involving Brainstem: Emphasis on Cranial Nerve EMG.  ICPNT webinar offered by the Neuroanesthesia Program Relations Committee on Pearls in Neuromonitoring During Neurosurgery - From the Experts. April 29, 2021. International virtual lecture.
* Resident Neuroanesthesiology Review. Department of Anesthesiology. Gainesville, FL January 22, 2021
* Protein & Physiological Biomarkers in Traumatic Brain Injury. “Traumatic Brain Injury Across the Lifespan” class for clinical psychology doctoral students. UF, Gainesville, FL, August 13, 2020.
* Intraoperative Narcotics Re-evaluated. Anesthesiology and Care of Surgical Patients. Vail, CO, January 31, 2020.
* Endoscopic Transclival Resection of Chordoma: Anesthesia Consideration with Emphasis on Cranial Nerve EMG Monitoring, Srisooksai G & Robicsek S. Dept Anesthesiology Case Conference. January 17, 2020.
* Neuroanesthesia. 2nd European Association of Neurosurgical Societies Trauma & Critical Care Update Meeting”, Milazzo, Italy, October 4, 2019
* Autoregulation and Anesthesia. Anesthesiology and Care of Surgical Patients. Vail, CO, January 24, 2019.
* Practice guidelines for the supervising professional: intraoperative neurophysiological monitoring. Dept. of Anesthesiology, UF Gainesville, FL. January 3, 2019.
* Anesthetic management of vascular patients with intraoperative neuromonitoring. Resident discussion. Dept. Anesthesiology, UF, Gainesville. October 10, 2019.
* Reversing neuromuscular blockade in the emergency room. Depts of Neurosurgery and Emergency Medicine. UF Gainesville, FL. November 8, 2018
* Neurotrauma Practice Symposium *Moderator*, Society of Neuroscience in Anesthesiology and Critical Care (SNACC) October 11, 2018.
* “Getting to Professor” – Guidance for Associate Professors. Panel discussion. College of Medicine, UF, March 7, 2018.
* Anesthetic Management during Intraoperative Neuromonitoring. Anesthesia and Perioperative Medicine, Vail, CO, January 26, 2018.
* Cerebral Reperfusion, Autoregulation and Anesthesia. Int Conf Israeli Society of Anesthesiologists and Israeli Soc Crit Care Medicine. November 8, 2017.
* Is there a routine anesthetic for severe head injury with particular emphasis on polytrauma cases? 7th Pannonian Symposium on Central Nervous System Injury. Pecs, Hungary, August 31, 2017.
* Cricothyrotomy workshop. Dept of Anesthesiology, UF, Gainesville, FL, June ,7 2017.
* Anesthesiology centric ACLS. Resident lecture (PGY-2) Dept of Anesthesiology, UF, Gainesville, FL, June 7, 2017.
* Updated Guidelines for the Management of Traumatic Brain Injury. Dept of Anesthesiology, April 20, 2017.
* CNS effects of anesthetic adjuncts/neuroprotection. Dept of Anesthesiology, UF, Gainesville, FL, March 9, 2017.
* Sugammadex vs neostigmine for reversal of neuromuscular antagonists. Anesthesia and Perioperative Medicine, Vail, CO, January 26, 2017.
* Considerations for intraoperative neuromonitoring. Dept of Neurosurgery, UF, Gainesville, FL, 2017.
* Neurosurgical emergencies. Dept of Anesthesiology, UF, Gainesville, FL, November 7, 2017.
* Anesthesia Centric-ACLS Workshop for Perioperative Resuscitation. Am Soc Anesthesiologists, Chicago, IL, October 24, 2016.
* Clinical Curveballs in Neuroanesthesia (Moderator). Soc Neuroscience Anesthesiology & Critical Care. Oct 21, 2016.
* Anesthetic pharmacokinetics and pharmacodynamics. Dept of Anesthesiology, UF, Gainesville, FL, September 27, 2016.
* Mechanisms of primary & secondary insult, coma, medications, monitoring, protein & physiological biomarkers. Traumatic Brain Injury Across the Lifespan class for clinical psychology doctoral students. UF, Gainesville, FL, July 8, 2016.
* Cardiac life support for respiratory therapists. GatorBreath Symposium (State Symposium). Gainesville, FL, June 24, 2016.
* Awake airway intubation. Gator Anesthesia Technical Skills Workshop. Orlando, FL, March 5, 2016.
* Neuroanesthesiology board review. Dept of Anesthesiology, UF, Gainesville, FL, February 17, 2016.
* Anesthetic considerations during neurophysiologic intraoperative monitoring. American Clinical Neurophysiology Society. Orlando, FL, February 10, 2016.
* What’s new in perioperative resuscitation? Anesthesia and Perioperative Medicine. Vail, CO, January 28, 2016.
* Anesthetic considerations for awake craniotomy and transphenoidal resection of pituitary tumors. Dept. Anesthesiology, UF, Gainesville FL, December 17, 2015.
* Perioperative Anesthesia-Centric Resuscitation - What's New? ASA Workshop (Director). Am Soc Anesthesiologists, New Orleans, LA, October 24, 2015.
* Perioperative hypothermia. College of Nursing. UF, Gainesville, FL, September 15 **&** 18, 2015.
* Anesthesiology Centric Advanced Cardiac Life Support (A-ACLS). Lecture and interactive simulation for incoming anesthesiology residents. Gainesville, FL, July 9 & 21, 2015.
* The Guatemalan echocardiography network. 11th Global Forum on Humanitarian Medicine in Cardiology and Cardiac Surgery, Geneva, CH, June 24-27, 2015.
* What we [don’t] know about traumatic brain injury and how it relates to perioperative management. Feinberg School of Medicine, Chicago, IL. March 16, 2015. *Visiting Professor*
* Neuroanesthesiology Board Review. Dept of Anesthesiology, UF, Gainesville FL. February 16, 2015.
* Cerebral autoregulation and anesthesia. Anesthesia and Perioperative Medicine, Vail, CO, January 25-30, 2015.
* Perioperative Resuscitation - What’s New? ASA Workshop (Director). Am Soc Anesthesiologists, New Orleans, LA, October 11, 2014.
* Awake fiberoptic intubations. Dept Emerg Med, Univ Florida, Gainesville, FL. September 11, 2014.
* Cerebral autoregulation and dysregulation during brain injury. Dept. of Anesthesiology, Weill Cornell Medical College, July 9, 2014. *Visiting Professor*
* Cerebral autoregulation and anesthetic concepts in traumatic brain injury. Int Neurotrauma Soc (INTS) Ann Meeting. Budapest, Hungary. March 22, 2014. *Invited lecturer*
* Perioperative stroke management - An anesthesiologist’s perspective. Anesthesia and Perioperative Medicine, Vail, CO, January 26-31, 2014.
* Resuscitation Workshop (Director). Am Soc Anesthesiologists, San Francisco, CA, October 13, 2013.
* Biomarkers of brain injury and their relevance in neuroanesthesia. UniversitätsSpital Zürich, Switzerland. September 1, 2013. *Visiting Professor*
* Traumatic brain injury: Across the Lifespan. Doctoral course #CLP7934, Univ Florida, Gainesville, FL. October 29, 2013.
* Perioperative resuscitation **&** Postoperative nausea and vomiting **&** Regional anesthesia for the head and neck & Management of traumatic brain injury. Roseau, Commonwealth of Dominica, February 11-15, 2013. *Special envoy for health care development and promotion for the Commonwealth of Dominica.*
* Neuroanesthesiology Board Review. Dept. Anesthesiology, Univ Florida, February 2013.
* Postoperative visual loss update. Anesthesia and Perioperative Medicine, Vail, CO, January 27-February 1, 2013.
* Biomarkers in Traumatic Brain injury - Clinical Implications **&** Anesthetic management of endovascular thoracic and abdominal aortic aneurysm repair **&** Major spine procedures and risk factors for POVL. 6th International Baltic Congress of Anaesthesiology Intensive Care. Vilnius, Lithuania, October18-20, 2012.
* Resuscitation Workshop (Director). Am Soc Anesthesiologists, Washington, DC, October 14, 2012.
* Biomarkers in severe traumatic brain injury. National Neurotrauma Society. Phoenix, AZ. July 23, 2012.
* Biomarkers in traumatic brain injury. BJA Special Workshop on Anaesthesia, Neurotoxicity and Neuroplasticity. Salzburg, Austria, June 13 -16, 2012. *Invited lecturer*
* \*Perioperative resuscitation **&** Preventing postoperative nausea and vomiting **&** Regional anesthesia for the head and neck. Can Dental Soc Anesthesiology, Toronto, Canada, April 2012. *Invited lecturer*
* ACLS update **&** Neurosurgical emergencies **&** Anesthetic management for endovascular TAA and AAA; **&** Anesthetic management of traumatic brain injury. Winter Anesthesia Conference, Snowmass Village, CO, March 4-9, 2012.
* Neuroanesthesiology Board Review. Dept. of Anesthesiology, Univ Florida, February 2012.
* Anesthetic management of TBI **&** Anesthetic management of neurosurgical emergencies. Anesthesia and Perioperative Medicine, Vail, CO, January 23-28, 2012.
* Resuscitation Workshop (Director). Am Soc Anesthesiologists, Chicago, IL, October15-19, 2011.
* Anesthetic management of traumatic brain injury **&** ACLS Review. Univ Missouri Kansas City, Kansas City, KS. *Visiting professor.* June 16-17, 2011.
* ACLS Workshop (Director). Am Soc Anesthesiologists, San Diego, CA, October16-20, 2010.
* Neuronal biomarkers in severe traumatic brain injury: implications for medical management. International Brain Mapping Intraoperative Surgical Planning Society, Bethesda, MD, May 24, 2010. *Invited lecturer*
* Postoperative visual loss **&** Anesthetic care of TBI Patients **&** Anesthesia for endovascular repair of aortic aneurysms **&** Management of arterial catheter complications. Winter Anesthesia Conference. Snowmass, CO, March 7-12, 2010.
* Traumatic brain injury. Anesthesia and Perioperative Medicine, Vail, CO, January 17-22, 2010.
* ACLS Workshop (Director). Am Soc Anesthesiologists, New Orleans, LA, October 18-23, 2009.
* Traumatic brain injury. Anesthesia and Perioperative Medicine, Vail, CO, January 25-30, 2009.
* ACLS Workshop (Co-director): Am Soc Anesthesiologists, Orlando, FL, October18, 2008.
* Contemporary anesthetic approaches during surgery for traumatic brain injury. 4th Pannonian Symposium on CNS Injury. Pecs, Hungary, September 26-27, 2008
* Management of postoperative nausea and vomiting; **&** Intraoperative management of traumatic brain injury; **&** Management of inadvertent intra-arterial injection complications. Winter Anesthesia Conference. Snowmass, CO, March 9-14, 2008.
* Anesthesia for traumatic brain injury. Mayo Clinic, Jacksonville, FL, February 18, 2008. *Visiting Professor.*
* Advanced cardiac life support update and certification; **&** Management of ARDS; **&** Management of respiratory failure. 4th Yoğun Bakim Kongresi Intensive Care Congress. Ankara, Turkey, October 31- November 3, 2007.
* ACLS Workshop (Co-director): Am Soc Anesthesiologists, San Francisco, CA, October 14, 2007.
* Advanced cardiac life support update and certification **&** Mass casualties **&** Ventilation management in the intensive care unit. 3rd Ulusal Dahii ve Cerrahi Bilimler Yoğun Bakim Sempozyumu. Ankara, Turkey, October 1-3, 2006.
* ACLS Workshop: Am Soc Anesthesiologists, San Francisco, CA, October 15, 2006.
* Anesthetic management of traumatic brain injury. Anesthesia and Perioperative Medicine, Vail, CO, January 23-28, 2005.
* Advanced cardiac life support (October 1). Ulusal Dahii ve Cerrahi Bilimler Yoğun Bakim Sempozyumu. Ankara, Turkey, October 1-3, 2005.
* The stressed aortic valve. 26th World Cong Int Soc Cardiovascular Surg. Maui, HI March 21-25, 2004.
* ACLS update. Anesthesia and Perioperative Medicine, Vail CO, January 26-31, 2003.
* Practicing the cardiopulmonary resuscitation algorithms **&** Acute respiratory failure (September 23); **&** Management of postoperative nausea and vomiting: complications in the PACU; **&** Anesthesia for CNS injury (September 24). Premier Anesthesia Seminars, Orlando, FL, September 23-24, 2002.
* Practicing the cardiopulmonary resuscitation algorithms **&** Acute respiratory failure (July 16); **&** Management of postoperative nausea and vomiting; Complications in the PACU; **&** Anesthesia for CNS injury (July 17). Contemporary Anesthesia Review & ACLS Retraining. Premier Anesthesia Seminars, Inc., Orlando, FL, July 14-18, 2002.
* Diastolic dysfunction in patients undergoing aneurysm clipping for subarachnoid hemorrhage. Int Anesthesia Res Society, Annual Meeting. San Diego, CA, March 18, 2002.
* ACLS update. Anesthesia and Perioperative Medicine, Vail, CO, January 26-31, 2002.
* Perioperative management of postoperative nausea and vomiting. Beijing Tong Ren Hospital, Capital University Medical Sciences, Beijing, China, September 15, 2001. *Visiting Professor.*
* Intraoperative somatosensory evoked potential monitoring during temporary clipping improves neurological outcome. Am Assoc Neurological Surgeons, Toronto, Canada, April 2001.
* Tachycardia predicts acidemia during barbiturate cerebral protection. Postgraduate Assembly Anesthesiology, NY, December 2000.
* Acidosis following barbiturate administration for focal ischemia during EC-IC bypass. Society of Neurosurgical Anesthesia Critical Care, San Francisco, CA, October 2000.
* The anesthetic management of intracranial aneurysms using hypothermia and circulatory arrest. Gulf Atlantic Anesthesia Residents Research Conference, Chapel Hill, NC, May 2000.
* Mixed expired gas monitoring during cardiopulmonary bypass. Gulf Atlantic Anesthesia Residents Research Conference, Charleston, SC, March 1998.
* Electroconvulsive therapy for the treatment of neuroleptic malignant syndrome. Gulf Atlantic Anesthesia Residents Research Conference, New Orleans, LA, May 1997.
* Accidental HIV exposure in the healthcare setting may be treated in loco at the injury site. 4th Conference on Retro and Opportunistic Infection. Washington, DC, January 22-26, 1997.
* Attenuation of IL-2 and IL-2 receptor expression by selective PDE inhibitors in human T-lymphocytes. 9th Int Conf Second Messengers Phosphoproteins. Nashville, TN, October 1995.
* Castleman's disease. Dept. of Pathology, George Washington University, Washington. DC, July 1994.
* Cyclic nucleotide phosphodiesterase regulation of lymphocytes. William Beaumont Medical Research Society. Washington, DC, January 1993.
* Clinical considerations in asthma management. Dept. Family Medicine, George Washington University, Washington, DC, June 1993.
* Immunoregulation by cyclic nucleotide phosphodiesterases. Freie Universitat, Berlin, Germany, July 1991.
* Attenuation of IL-2 and Tac receptor expression by selective PDE inhibitors in human T-lymphocytes. **&** Impaired capacity of lymphocyte proteins to upregulate ß-adrenoceptors in A549 human lung adenocarcinoma cells in respiratory and cutaneous atopic disease. 5th Int Conf Immunopharmacology. Tampa, FL, May 1991.
* Synergistic effect on T-lymphocyte blastogenesis by selective cAMP-phosphodiesterase inhibitors. Federation American Societies Experimental Biology. Washington, DC, April 1990.
* Analysis of human T-lymphocyte cyclic nucleotide phosphodiesterase activity by high-pressure liquid chromatography and type III inhibitors Am Soc Biochemistry Molecular Biology/Am Assoc Immunologists. New Orleans, LA, June 1990.
* The six-minute night: The July 1990 solar eclipse. College of Medicine, Univ South Florida, Tampa, FL, March 1990.
* Cyclic nucleotide phosphodiesterases in human lymphocytes. Dept. of Immunology, Univ California, Los Angeles, CA, February 1990.
* Analysis of human T-lymphocyte cyclic nucleotide phosphodiesterase activity by high-pressure liquid chromatography and type III inhibitors. Federation American Societies Experimental Biology. New Orleans, LA, March 1989.
* Inhibition of cyclic AMP-phosphodiesterases and the mechanism of action of theophylline in bronchial asthma. Southeastern Pharmacology Society, Augusta, GA, August 1989.
* Evaluation of theophylline therapy for asthma. Am College Clin Pharmacology, Baltimore, MD, October 1989.
* Phosphodiesterases and atopic dermatitis. Dept Dermatology, University Michigan, Ann Arbor, MI, July 1989.
* Synergy. Dept. of Pharmacology, Univ South Florida, Tampa, FL, November 1989.
* Analysis of human T-lymphocyte cyclic nucleotide phosphodiesterases activity by high-pressure liquid chromatography and type III phosphodiesterase inhibitors. Florida Student Research Symposium, Tampa, FL, October 1989.
* Prolactin and the skin. Dept. of Pharmacology, Univ South Florida, Tampa, FL, November 1988.
* High Pressure liquid chromatography of T-lymphocyte phosphodiesterases. Am Soc Clin Pharmacology Therapeutics. San Diego, CA, March 1988.
* Study of lymphocyte phosphodiesterases using high-pressure liquid chromatography. Am Acad Allergy Immunology, Washington, DC, November 1987.
* The neurotoxicity of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP): A model for the study of Parkinson's disease. Dept. of Pharmacology, Univ South Florida, Tampa, FL, 1987.
* Separation of human lymphocyte cyclic nucleotide phosphodiesterase by DEAE high-pressure liquid chromatography. Florida Student State Symposium, Tampa, FL, June 1986.
* Autoantibodies and asthma. Dept. of Pharmacology, Univ South Florida, Tampa, FL, 1986.
* Separation of lymphocyte cyclic nucleotide phosphodiesterases by ionic exchange high-pressure liquid chromatography. 6th Int Conf Cyclic Nucleotides, Calcium, Protein Phosphorylation. Bethesda, MD, September 1986.

**POSTERS PRESENTED at PROFESSIONAL MEETINGS and *PUBLISHED ABSTRACTS***

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1. International Education of Anesthesiologists in Regional Anesthesia and POCUS Jimenez-Ruiz F, Garcia K, Acosta J, Walker E, Ihnatsenka B, **Robicsek S**. Celebration of Research, Department of Anesthesiology, University of Florida, Gainesville. February 27, 2023.
2. Cordero R, Barlow E, Hunter E, Robinson CP, Andoniadis MM, Van Meter TE, **Robicsek SA**, Heaton S, Dore S. Assessing heightened occurrence and severity of stroke through deviation of biomarkers in COVID-19. Univ Florida, College of Medicine, Celebration of Research. April 5, 2022.
3. **Srisooksai G, Mohamed B, Gatica-Moris S, Rabai F, White P, Algarra N, Berkow L, Seubert C, Robicsek S, Goettel N.** Anaesthesiological Routine Care for Thrombectomy in Cerebral Ischaemia (ARCTIC-I): an international prospective observational study. Univ Florida, College of Medicine, Celebration of Research. April 5, 2022.
4. Srisooksai G, **Robicsek, SA.** Transclival Endoscopic Chordoma Resection with Emphasis on Cranial Nerve Monitoring. Am Soc Anesthesiology, October, 2021.
5. Rabai F, Fox C, Polifka A, Hoh B, **Robicsek S**, Seubert C. Electrophysiological Monitoring During Intracranial Aneurysm Surgery: Improving Test Validity by Accounting for the Treatment Paradox Affecting Signal Changes that Reverse with Intervention. Anesthesiology Celebration of Research March 20, 2019 **&** International Anesthesia Research Society. Vancouver May 16-20, 2019.
6. Elhady D, Nimma S, Garcia-Pereira F, **Robicsek S**. Horse Sense: Anesthetic lessons from horse to human. Univ Florida Celebration of Research. March 21, 2018 **&** FSA Annual Meeting, Palm Beach, FL. June 8-10, 2018.
7. Ching YH, **Robicsek SA**. New onset left bundle branch block: Revisited. Univ Florida Celebration of Research. March 21, 2018 **&** FSA Annual Meeting, Palm Beach, FL. June 8-10, 2018.
8. Lagrew JE, **Robicsek SA**. To Intubate or Not to Intubate? The Case of Anesthesia in a Patient with Stiff Persons Syndrome and Vagal Mediated Sinus Pauses. Univ Florida Celebration of Research. March 21, 2018 **&** FSA Annual Meeting, Palm Beach, FL. June 8-10, 2018.
9. Strekalova Y, Levites Z, **Robicsek S**. Assessing the feasibility of introducing shared decision-making and patient-reported outcomes in anesthesia care: Anesthesia providers' perspective. Int Conf Communication Healthcare & Health Literacy Ann Res Conference (ICCH/HARC 2017). Baltimore, MD, October 8-11, 2017.
10. Rabai F, Seubert C, **Robicsek SA**: Do Motor Evoked Potentials Enhance the Diagnostic Performance of Somatosensory Evoked Potentials in Anterior Cerebral Artery Aneurysm Surgery? SNACC Annual Meeting, Boston, MA, Oct. 19-20, 2017*.*
11. Papa L, **Robicsek SA**, Brophy GM, Wang KKW, Hannay HJ, Heaton S, Schmalfuss I, Gabrielli A, Hayes RL, Roberston CS.  Temporal Profile of Microtubule Associated Protein (map-2) - A Novel Indicator of Brain Injury Severity After Trauma.  Acad Emerg Med; 24 (Suppl.1): S27 (Abstract 55); May 2017.
12. Rabai F, **Robicsek SA**: Do motor-evoked potentials enhance the diagnostic performance of somatosensory-evoked potentials in anterior cerebral artery aneurysm surgery? Celebration of Research, Dept. Anesthesiology, Gainesville, FL, May 3, 2017
13. Battles RE, Davies LK, **Robicsek SA**. Post-operative acute quadriplegia after spinal cord injury in a patient with DISH. 43rd Gulf Atlantic Resident Research Conference, Atlantic Beach, FL, April 8, 2017.
14. Rabai F, Shaw G, **Robicsek S**: Development of enzyme-linked immunosorbent assay for the detection of microtubule-associated protein-2 a potential biochemical marker of spinal cord ischemia. Univ Florida Dept. of Anesthesiology Celebration of Research Gainesville, FL, May 11, 2016.
15. Rabai F, Stetler W, Polifka A, Algarra N, Seubert C, **Robicsek S**: Electrophysiologic monitoring with provocation testing in the treatment of spinal arteriovenous fistula. Am Soc Neurophysiologic Monitoring 2016 Ann Meeting, Chicago, Il, May 12-15, 2016 (E-poster Scientific Achievement Award and 2nd Prize for best poster) *http://www.asnm.org/page/2016AnnualEPosters* **&** Univ Florida Celebration of Research Event, Gainesville, Fl, May 11, 2016 (3rd place poster)
16. Stillings SM, Leclerc JP, **Robicsek SA,** Doré S. Haptoglobin phenotype and clinical outcomes after severe traumatic brain injury. Celebration of Research, Univ. Florida, February 9, 2015.
17. Tóth AR, Schmalfuss I, Heaton S, Gabrielli A, Hannay HJ, Papa L, Brophy G, Wang KKW, Büki A, Schwarcz A, Hayes R, Robertson CS, **Robicsek SA**. Lateral Ventricle Volume Asymmetry Predicts Midline Shift in Severe Traumatic Brain Injury. [A2-28] Nat Neurotrauma Society, San Francisco, CA, June 2014. *Published in* J Neurotrauma, 2015. *Epub ahead of print.*
18. Brophy GM, Papa L, Robertson C, Wang K, Hannay J, Heaton S, Gabrielli A, Schmalfuss I, Hayes R, **Robicsek S**.Microtubule-associated protein 2 (MAP2) CSF biokinetic characteristics are associated with poor outcomes in severe TBI patients. Nat Neurotrauma Society, San Francisco, CA, June 2014. *Published in* J Neurotrauma 31(12):A38, 2014.
19. Seller AF, Timmerman RR, **Robicsek S**, and Janelle GM. Thromboembolic Complications and Transesophageal Echocardiography. Soc Cardiovascular Anesthesiologists 36th Annual Meeting. New Orleans, LA, April 2014.
20. Tóth AM, Schmalfuss I, Heaton S, Gabrielli A, Hannay HJ, Papa L, Brophy G, Wang KKW, Büki A, Schwarcz A, Hayes R, Robertson CS, **Robicsek SA**. Prognostic value of hyperacute lateral ventricular volume asymmetry and midline shift in blunt severe traumatic brain injury.Int Neurotrauma Society (*INTS*), Budapest, Hungary, March 2014. *Published in* J Neurotrauma 31:A1–73, 2014.
21. Tóth AM, Schmalfuss I, Heaton SC, Gabrielli A, Hannay HJ, Papa L, Brophy GM, Wang KKW, Büki A, Schwarcz A, Hayes RL, Robertson CS, **Robicsek SA**. Conventional vs Quantitative Approach in Assessing Post-Traumatic Ventriculomegaly and its Relation to 6-month Outcomes in Severe Traumatic Brain Injury. Int Neurotrauma Soc (*INTS*), Budapest, Hungary, March 2014. *Published in* J Neurotrauma 31:A1–73, 2014. [PMID 24568293]
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**CONTRACTS AND GRANTS**

National Institutes of Health, RO1 NS052831 (2006 – 2012)

“Biochemical Markers of Traumatic Brain Injury”

Since 2002, I have been involved in a multicenter investigation to evaluate selected biochemical markers of neuronal damage. While biological markers exist to assess damage to the heart (troponin, CK-MB), the kidney (creatinine), pancreas (alkaline phosphatase) there are no established markers that exist to evaluate damage to neurons to guide clinical practice. This National Institute of Health funded project evaluating cerebral spinal fluid (CSF) and serum samples obtained from patients following a severe traumatic brain insult. Challenging parts of this project included (1) obtaining very early samples to evaluate their prognostic value in long-term patient outcomes and (2) to understand the temporal relationship with the markers to neuronal injury to assess the markers for value in determining secondary damage i.e. did the detection of any markers precede later injury occurring after hospital admission or did they indicate prior damage.

Goals of this project were to:

1. determine whether selected neuronal biomarkers (breakdown products of α-spectrin break down products (SBDP); ubiquitin C-terminal hydrolase-L1 (UCH-L1); microtubule-associated protein 2a and 2b (MAP2a/b); myelin basic protein (MBP); and glia-derived, neurotropic protein S100β) can be used to (1) assess the diagnostic and prognostic utility of candidate biomarkers by examining relationships between levels of specific biomarkers and injury magnitude (e.g. Glasgow Coma Scale, injury type (e.g. diffuse injury vs. mass lesion) (2) occurrence of secondary insults (e.g. hypotension, elevated intracranial pressure) and (3) outcome (e.g. neurobehavioral assessments, global outcome and MRI)
2. assess the utility of SBDPs for assessment of oncotic and apoptotic cell death by examining relationships between levels of SBDPs and specific pathological events that occur after traumatic brain injury.
3. conduct a prospective validation of patients using a diagnostic/prognostic panel of biomarkers selected on the basis of data from the first aspect of the study, by determining if the biomarker information will add diagnostic/prognostic information to the clinical data that is currently available, and the information provided by individual biomarkers.

We demonstrated that individual neuronal biomarkers can be useful to evaluate both primary and secondary injuries of patients and may be useful in long-term outcome prediction (please refer to 11 peer reviewed manuscripts and 46 abstracts). Additionally, we were the first to evaluate intracranial ventricular volumes in initial computed tomography (CT) scans and link pending deterioration of patients and poor outcome (Tóth, Schmalfuss, Heaton *et al.* Lateral ventricle volume asymmetry predicts midline shift and 6-month outcome in severe traumatic brain injury. J Neurotrauma 32:1–5, 2015). This novel finding is currently being validated in an adult patient cohort containing both severe and moderate brain injury as well as a pediatric population. If validated, this finding could have immediate implications in patient management. Further investigations are necessary and are ongoing. These data provide information of intracranial pathophysiology to gain insight into patient assessment, management and prediction of outcomes. Further evaluation on samples is in process.

Role: Principal Investigator

Total award: $4,929,626