

SNACC Secretary-Treasurer Application

Application Deadline: April 30, 2026 at 11:59pm ET

The Secretary/Treasurer is a member of the Executive Committee and in line to progress to President of the Society. The responsibilities of the Secretary/Treasurer are outlined in detail in [SNACC Bylaws](#). This includes managing the overall functioning of the society as a member of the Executive Committee, including but not limited to, the management of finances, budgeting, organizing annual meeting, fundraising, and strategically advancing SNACC, and perioperative neuroscience.

This position involves significant time commitment and attendance at all meetings of the Executive Committee and Board of Directors is required.

Minimum Prerequisites:

- At least five (5) years of active membership in SNACC in good standing is a prerequisite for nomination to this post.
- Demonstration of a track record of service to SNACC (such as service on the Board of Directors, leadership of SNACC committees/task forces, consistent service, and active contributions to committee activities)
- Dedication to the values of SNACC and its mission, and commitment to diversity, equity, and inclusion.
- Demonstration of meaningful contributions to neuroanesthesiology/neuroscience through research, education, or innovation.
- Leadership experience in nominee's institution and other relevant professional organizations will be accounted as strength for candidacy.

Self-nominations are accepted for this post. Alternatively, active members of the Society can nominate another member by describing the strengths of the nominee and highlights of their CV. The nominating committee will pursue consent from the nominee before considering their candidacy.

Nominee's Full Name	Paul Garcia
Nominee's Email Address	pg2618@cumc.columbia.edu
Credentials (e.g., MD)	MD, PhD
Current Institution	Columbia University
SNACC Member Since (Year)	2013

Upload Headshot



Upload CV



Services to SNACC, including leadership roles (limit to no more than five (5) most significant services)

- Board of Directors, SNACC (2019–2025), contributing to strategic planning, governance, and long-term positioning of the society.
- Co-Chair, ICPNT/SNACC Certification for Frontal EEG Interpretation (2021–present). I lead an international, multi-year effort to develop a standardized curriculum, case-log framework, and certification pathway (Basic and Advanced) for intraoperative EEG interpretation. CME application submitted (April 2026); anticipated launch Fall 2026.
- Chair, SNACC Diversity and Inclusion Committee (2019–2023). Led targeted initiatives to improve representation, engagement, and retention, with emphasis on measurable participation in committees and programming.
- Fundraising Director and Member, Annual Meeting Planning Committee (2020–2025). Directed fundraising strategy aligned with programmatic priorities and contributed to annual meeting design, including integration of educational and scientific programming.
- Member, Scientific Affairs Committee (2017–present). Contributed to shaping SNACC research priorities and scientific programming.

Services/Accomplishments in Perioperative Neuroscience (limit to no more than five (5) most significant services)

- Principal Investigator of multiple externally funded projects focused on the interaction between anesthesia, sleep, and neurocognitive recovery, including an NIH R01 (2026–2031) investigating EEG-guided analgesic titration to improve postoperative cognitive outcomes.
- Development and translation of EEG-based monitoring approaches. Co-inventor on multiple patents focused on quantifying emergence trajectories and cognitive vulnerability, with ongoing efforts to integrate these methods into clinical decision-making.
- Educational leadership in intraoperative EEG. Designed and delivered structured curricula and workshops

at institutional, national, and international levels, with emphasis on practical interpretation and pharmacologic application.

Clinical investigation of frontal EEG dynamics in surgical and critically ill populations. Published work demonstrating associations between intraoperative EEG features and postoperative delirium, with implications for risk stratification and management.

Mentorship of trainees in perioperative neuroscience. Supervised MD, MD-PhD, and PhD trainees who have progressed to academic and clinical leadership roles, contributing to workforce development in neuroanesthesia and perioperative brain health.

Other Leadership Experience (e.g., applicant's own institution or other professional organizations; limit to no more than five (5) services)

Division Chief, Neuroanesthesia, Columbia University Irving Medical Center (2018–present). I have led the expansion and strategic alignment of the Neuroanesthesia Division, integrating advanced neurophysiologic monitoring into clinical practice while coordinating clinical, research, and educational priorities.

Co-Chair, Department of Anesthesiology Task Force on Roles & Responsibilities, CUIMC (2022–2024). I directed a comprehensive review and restructuring of departmental administrative roles to improve operational clarity, accountability, and efficiency across a large academic department.

Vice-Chair, ASA Committee on Research (2020–present). In this national leadership role, I contribute to shaping research priorities, evaluating scientific initiatives, and advising on funding and policy decisions that impact anesthesiology research.

Associate Editor, Anesthesia & Analgesia (2025–present). I provide editorial oversight and peer-review decision-making in perioperative neuroscience and neuroanesthesia, contributing to the evaluation and prioritization of emerging scientific work.

Chair, ASA Abstract Subcommittee on Experimental Neurosciences (2016–2024). I led national abstract review and selection processes, overseeing peer review and contributing to scientific programming for a major international meeting.

Commitment to diversity, equity, and inclusion (limit 50 words)

My commitment to DEI is reflected in leadership roles within SNACC and institutional initiatives. I have prioritized measurable changes in representation and participation, and led development of Spanish-language PACU delirium screening protocols to improve equitable detection of postoperative cognitive complications in diverse patient populations.

How do you envision advancing SNACC as Secretary-Treasurer and future President? (limit 150 words)

As Secretary-Treasurer, I will focus on aligning SNACC's financial strategy with programmatic priorities that advance clinically actionable neuroscience. This includes disciplined evaluation of investments, partnerships, and educational initiatives to ensure sustainability and measurable impact.

As future President, my priority is to accelerate translation of perioperative neuroscience into routine clinical practice. Work in frontal EEG monitoring and neurophysiology has matured to the point where it can meaningfully guide anesthetic and analgesic decision-making. SNACC is uniquely positioned to lead this transition.

I will emphasize three areas: (1) development and dissemination of standardized educational frameworks (e.g., EEG certification), (2) expansion of international collaborations to broaden both membership and scientific exchange, and (3) strengthening the link between scientific output and clinical implementation.

This approach positions SNACC not only as a forum for discovery, but as a driver of practice change in brain-centered perioperative care.

Anything else you would like considered in your candidacy? (limit 50 words)

I am focused on strengthening SNACC as a durable academic community—by engaging trainees early, re-engaging prior members, and reinforcing SNACC’s role as the primary intellectual home for anesthesiologists working at the intersection of neuroscience and perioperative medicine.

**Name of Person Submitting
Nomination** Paul Garcia

**Email Address of Person Submitting
Nomination** pg2618@cumc.columbia.edu

CURRICULUM VITAE
Paul S. Garcia, M.D., Ph.D.

1) Date of preparation: March 2026

2) Personal Data:

Name: Paul S. García, M.D., Ph.D.

Alternate Names: Paul Anthony García (legal) / Paul García

Contact Information: 622 West 168th Street, PH 5-505
New York, NY 10032
pg2618@cuimc.columbia.edu

3) Academic Appointments, Hospital Appointments, and Other Work Experience:

Academic Appointments:

11/24-present Associate Professor of Anesthesiology at CUMC, Department of Anesthesiology, Columbia University

10/18 – 10/24 Associate Professor of Anesthesiology, Department of Anesthesiology, Columbia University

08/18 – 09/18 Associate Professor, Department of Anesthesiology, Emory University

08/10 – 08/18 Assistant Professor, Department of Anesthesiology, Emory University

Hospital Appointments:

10/18-present Associate Attending, Department of Anesthesiology, New York Presbyterian Hospital, Columbia University Medical Center

08/10 – 09/18 Staff Physician, Anesthesiology Service, Atlanta VA Medical Center

08/10 – 09/18 Attending Physician, Anesthesiology Department, Emory University Hospital and affiliates

Other Work Experience:

10/18-present Division Chief, Neuroanesthesia, Department of Anesthesiology, Columbia University

10/18 – 09/19 Neuroanesthesia Fellowship Director, Department of Anesthesiology, Columbia University

10/18 – 08/20 Adjunct Program Faculty, Neuroscience, Laney Graduate School, Emory University School of Medicine

10/18 – 08/20 Adjunct Faculty, Department of Bioinformatics, Emory University

09/16 – 09/18 Associate Co-Director, MD/PhD Program, Emory University

07/15 – 09/18 Neuroanesthesia Fellowship Co-Director (Research), Department of Anesthesiology, Emory University

05/15 – 09/18 Program Faculty, Computational Neuroscience, Graduate Division, Emory University

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05/14 – 09/18 Program Faculty, Neuroscience, Graduate Division, Emory University

05/18 – 09/18 Program Faculty, Biomedical Engineering, Georgia Institute of Technology

07/15 – 09/18 Medical Director, Post Anesthesia Care Unit, Anesthesiology Service, Atlanta VA

4) Education:

06/96 – 05/06 Doctor of Medicine, M.D., Emory University School of Medicine, Atlanta, Georgia, USA
- Medical Scientist Training Program (MSTP / MD-PhD Program)

01/99 – 07/04 Doctor of Philosophy, Ph.D., Georgia Institute of Technology, Atlanta, Georgia, USA
Discipline: Bioengineering

Advisors: Ronald L. Calabrese, Ph.D. & Robert Butera, Ph.D.

Citation: García, P.A. (2004). Modeling the Intersegmental Coordination of Heart Motor Neurons in the Medicinal Leech (Doctoral dissertation). Retrieved (online) from Georgia Tech Theses and Dissertations [20598]

06/91 – 05/96 Bachelor of Science, B.S. (Honors Thesis) University of Florida, Gainesville, Florida, USA.

Major: Interdisciplinary Studies in Computational Neuroscience

Title: A Quantitative Approach to the Study of Depression of Neurotransmitter Release

Advisor: Janet Zengel, Ph.D.

5) Training:

06/06 – 06/07 Internship / Transitional Year, Medicine, Emory University Affiliated Hospitals

Directed by: Kimberly Manning, M.D.

07/07 – 07/10 Anesthesiology Residency (Research Track), Emory University Affiliated Hospitals

Directed by: James Zaidan, M.D., M.B.A.

07/09 – 07/10 Chief Resident, Emory University Affiliated Hospitals

Directed by: James Zaidan, M.D., M.B.A.

01/09 – 08/10 Postdoctoral Research, Department of Pharmacology, Emory University

Advisor: Andrew Jenkins, Ph.D.

6) Explanation of any gaps in work/training/education:

Scheduled as part of Emory's Medical Scientist Training Program, I completed my Ph.D. in Bioengineering at Georgia Tech between my 2nd and 3rd years of Medical School at Emory University. Additionally, during my final two years in medical school and as part of the resident research track, I was intermittently given protected research time to complete approximately 12 months of post-doctoral research in the laboratory of Andrew Jenkins during these 6 years of clinical training.

7) Licensure and Board Certification:

Licensure:

09/18 – 09/26 New York Medical License (active, renews every 2 years)

07/10 – 07/20 Georgia Medical License

Board Qualification:

08/11 – 12/31 American Board of Anesthesiology (renewed every 10 years)

8) Honors and Awards:

Awards for Scholarship and Research

1. Best of Meeting Award – Clinical/Translational Category Award, Society for Neuroscience in Anesthesiology and Critical Care, Atlanta; September 2025. This abstract was presented by a mentee in my research group, Meah Ahmed, MS3.
2. Best Abstract, Clinical Neurosciences, American Society of Anesthesiologists (ASA) Annual Meeting, Philadelphia; October 2024
3. National Institute of Aging (NIA) Start Up Challenge and Accelerator Finalist. My spin-off company was one of 20 selected startups (over 400 applicants) by the NIH / NIA as a finalist for their accelerator 12-month program for small businesses. Based on patented technology that I am a co-inventor, Lantern Laboratory, Inc., has exclusive license by Columbia Tech Ventures to develop a novel precision medicine device that uses EEG biomarkers to guide real-time dosing of pain relievers during surgery and intensive care. July 2023.
4. Best Abstract Prize Competition First Place, Euroanaesthesia Meeting (ESA), Glasgow, UK: "Intraoperative Frontal Electroencephalogram Substitutes for Age in a Predictive Model of Post-Anesthesia Care Unit Delirium" June 2023.
5. Top Research Abstract, American Society of Anesthesiologists (ASA) Annual Meeting, Chicago; "Frontal EEG Findings In Critically-ill Covid-19 Patients: A Case-series" October 2021. This abstract was presented by a mentee in my research group, Brian Chang, MD.
6. Editor's Choice British Journal of Anaesthesia. "The Effects of Noxious Stimulation on the Electroencephalogram during General Anaesthesia" by Dr. Paul S Garcia. February 2021
7. International Anesthesia Research Society (IARS) Research Feature - Social Media. "Repetitive Anodal Transcranial Direct Current Stimulation Hastens Isoflurane-Induced Emergence and Recovery and Enhances Memory in Healthy Rats" by Dr. Paul S Garcia. December, 2020.
8. Outstanding Research Faculty of Emory School of Medicine. One of forty-three faculty nominated by their peers and recognized by the School of Medicine Awards Committee for scholarship. Presented on Researcher Appreciation Day; September 2017
9. Best Abstract, Clinical Neurosciences, American Society of Anesthesiologists (ASA) Annual Meeting, Chicago; October 2016
10. Best Abstract, Experimental Neurosciences, American Society of Anesthesiologists Annual Meeting, San Diego; October 2015
11. Featured Poster Presentation, our poster was chosen as the Department of Anesthesiology Representative for the 4th Annual Science of Graduate Medical Education Day, Emory University School of Medicine; June 2013

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12. Featured Abstract, 65th Post Graduate Assembly (PGA) of the New York State Society of Anesthesiologists (NYSSA); Ours was one of 12 selected for a special oral presentation in a Best Abstracts of the Meeting session. December 2011.
13. Top 5% User Accessed Review, Faculty of 1000, F1000.com; 2011. This post-publication peer evaluation of research recognized my editorial contributions as generating more online traffic than 95% of other contributions from an international cadre of scientists.
14. Top 10% User Accessed Review, Faculty of 1000, F1000.com; 2010, 2012. This post-publication peer evaluation of research recognized my editorial contributions as generating more online traffic than 90% of other contributions from an international cadre of scientists.
15. Resident Research, Third Place Winner. My research was recognized as one of the top three submissions from residents at the American Society of Anesthesiology Annual Meeting. New Orleans; October 2009
16. Best Abstract, Honorable Mention. My research was recognized at the International Society for Anaesthetic Pharmacology. New Orleans; October 2009
17. First Place for Resident Research, 62nd PGA, New York State Society of Anesthesiologists; My research was recognized as the top presentation of all resident projects presented that year, December 2008
18. FAER / Abbott Resident Scholar, American Society of Anesthesiology; 2008. I was one of approximately 50 total anesthesiology residents nationally selected as the academic representative of my institution
19. Medical Student Research Fellow, Foundation for Anesthesia Education and Research; 2005
20. President's Fellowship, Georgia Institute of Technology; 1999 – 2004
21. National Hispanic Scholar Award; 1991 – 1995
22. Thomas J. Watson Scholarship, IBM; 1991 – 1995

Awards for Teaching and Mentoring

1. Teaching Award, CUIMC Neuroanesthesia Division; June 2019 (awarded by anesthesiology residents)
2. Emory University School of Medicine Faculty Award, "Hidden Gem", presented at the Celebration of Faculty Excellence Ceremony; October 2015, in appreciation of mentoring medical students and residents in scholarship.
3. Mentor Award, Systems-Based Learning Project for Emory Anesthesiology Residents. At the year-end seminar for Anesthesiology residents; I was presented with this award for helping a group of residents with a QA project focused on reversal of neuromuscular blockade, June 2012.
4. Outstanding Mentor Award, Research Experience for Undergraduates Program, Georgia Institute of Technology. While in graduate school I was recognized for my mentoring of undergraduate students in research. May 2000.

Election to Selected Professional Societies

1. Board of Directors, Society for Neuroscience in Anesthesiology and Critical Care (SNACC); September 2019 – 2025.
2. Nomination and Induction as Active Member into Association of University Anesthesiologists (AUA); December 2015
3. Foundation for Anesthesia Education and Research (FAER) Visiting Professor; 2015 - present

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4. Inductee, Tau Beta Pi, Engineering Honors Society; 1993
5. Inductee, Eta Kappa Nu, Electrical Engineering Honors Society; 1993

Special Appointments

1. Co-Chair of Working Group for ICPNT / SNACC Certification for Frontal EEG Interpretation, 2021 – present. I was asked to lead the educational content for an international multi-year initiative to provide a standard curriculum including case-logs and exam for a Basic and Advanced Certification in Frontal EEG Interpretation for intraoperative pharmacologic decision-making.
2. Vice-Chair, ASA Committee on Research, 2020 – present (re-appointed by ASA President, 2021, 2022, 2023, 2024, 2025)
3. Nominating Committee, SNACC, 2020 – 2021
4. Chair, SNACC Diversity and Inclusion Committee; 2019 – 2023
5. Fundraising Director, SNACC; 2019 – present (re-appointed by SNACC president, 2022)
6. Scientific Advisory Board, Association of University Anesthesiologists (AUA); 2017 – 2021
7. Chair, ASA Abstract Subcommittee on Experimental Neurosciences; 2016 – 2024 (re-appointed by ASA President 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024)
8. Vice-Chair, ASA Abstract Subcommittee on Experimental Neurosciences; 2013 – 2015

9) Administrative Leadership and Academic Service:

Local and Administrative Leadership at CUIMC / NYP and previous institutions

1. Board of Undergraduate Research Advisors, Columbia University. 2024 - present
2. Neurosurgery / Neuroanesthesia Efficiency Work Group. 2022 – present. Working with hospital leadership to improve efficiency and streamline clinical operations among neurosurgery, neuroanesthesia, and neuroradiology.
3. Department of Anesthesiology Task Force: Co-Chair of Roles & Responsibilities. 2022 – 2024. In a restructuring of the departmental organizational structure, I was asked to lead a team tasked with identifying gaps in department-wide administrative structure and clarify new and existing roles to better serve our mission.
4. Clinical Innovations & Technology Task Force Committee, New York Presbyterian Hospital; 2021 – 2022. At the request of Dean of the Medical School, I was appointed to this task force and the monitoring subcommittee. We provided recommendations in the form of reports/summaries to the Dean on dissemination of clinical innovation as well as facilitating collaboration among engineers and clinicians.
5. Search Committee Cardiothoracic Division Chief, Department of Anesthesiology, CUIMC; 2019 – 2020
6. Resident Recruitment Committee, Department of Anesthesiology, CUIMC; 2019 – present. I participate in interviewing residency candidates as well as candidates for our research residency (Apgar Scholars) track.
7. Education Committee, Department of Anesthesiology, CUIMC; 2019 – present
8. Service Executive Committee, Department of Anesthesiology, CUIMC; 2018 – present
9. Quality Assurance Committee, Department of Anesthesiology, CUIMC; 2018 – present
10. Clinical Competency Committee, Department of Anesthesiology, CUIMC; 2018 – present
11. Physician Executive Committee, Emory Clinic; 2015 – 2018
12. Research Strategic Planning Committee, Atlanta VA Medical Center; 2015 – 2016

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13. Frailty and Care Optimization Committee, Emory Healthcare; 2015 – 2016
14. Host / Organizer / Meeting Chair, Local Meeting on "The Overlap between Sleep and Anesthesia", sponsored by Anesthesiologists Concerned with Cognition, Emergence Sleep and Sedation (ACCESS GROUP); Emory Affiliated Hospitals; August 2014
15. Admissions Committee, Emory MD/PhD program; 2014 – 2018
16. Faculty Representative, Athletics and Recreation Committee, Emory University; 2014 – 2016
17. Chair, Anesthesiology Grand Rounds Committee, Emory University; 2013 – 2016
18. Pharmaceuticals and Therapeutics Committee, Atlanta VA Medical Center; 2013 – 2017
19. IACUC Committee, Atlanta VA Medical Center, 2011 – 2018
20. Member, Research Committee, Dept. of Anesthesiology, Emory University; 2010 – 2018
21. Member, Education Committee, Dept. of Anesthesiology, Emory University; 2006 – 2018
22. Student Representative, Curriculum Committee, Emory University School of Medicine; 2005
23. President, MD/PhD Student Association, Emory University; 1999 – 2000

Regional

1. Activity Director, Georgia Society of Anesthesiologists, Winter Meeting; January 2010

National / International

1. Member, IARS Outreach, Retention & Engagement Committee; 2023 - present
2. Member, Annual Meeting Planning Committee, SNACC; 2020 – present
3. Member, Committee on Finances, SNACC; 2019 – present
4. Member, FAER grant study section; 2018 - present
5. Member, ASA Committee on Scientific Advisory; 2017 – present
6. Member, Scientific Affairs Committee, SNACC; 2017 – present
7. Member, ASA Committee on Research; 2016 – present
8. Member, ASA Abstract Subcommittee on Geriatric Anesthesia; 2016 – present
9. Member, ASA Educational Track Subcommittee on Neuroanesthesia; 2016 – present
10. Member, Neuroanesthesia Committee, American Society of Anesthesiologists; 2014 – 2016
11. Founding Member, POCD and Delirium Interest Group, SNACC; 2013 – present
12. Member, ASA Abstract Subcommittee on Anesthetic Action / Biochemistry; 2012
13. Member, Steering Committee, International Consortium of Electroencephalographic Training for Anesthesia Providers (ICE-TAP); 2012 – 2018
14. Member, ASA Abstract Subcommittee on Clinical Neurosciences; 2012 – 2015
15. Member, ASA Abstract Subcommittee on Experimental Neurosciences; 2012 – present

10) Professional Organizations and Societies:

Memberships and Positions

Local

1. Atlanta Society of Mentors; 2018 – 2019

Regional

1. Georgia Society of Anesthesiologists; 2006 – 2018
2. New York State Society of Anesthesiologists; 2019 – present

National / International

1. American Clinical Neurophysiology Society (ACNS), 2022 – present
2. Society for Neuroscience in Anesthesia and Critical Care (SNACC); 2012 – present
3. Faculty of 1000, f1000.com; 2011 – 2018
4. International Society of Anaesthetic Pharmacology (ISAP); 2006 – 2012
5. International Anesthesia Research Society (IARS); 2006 – present
6. American Society of Anesthesiologists (ASA); 2005 – present
7. Society for Neuroscience (SFN); 1999 – present
8. Biomedical Engineering Society (BMES); 1999 – 2004

Consultative

Local/Institutional

1. MD/PhD Advisory Board. In addition to my duties as Associate Co-Director, I was also a member of the Advisory Board for the Medical Scientist Training (MD/PhD) Program at Emory University, which evaluates the program in comparison to other benchmark institutions and consults on modifications to the Student Handbook and Protocols/Procedures of the MD/PhD Program. Members of the Advisory Board also mentor a group of MD/PhD Students as well as participate in interviewing potential MD/PhD Applicants. 2016 – 2018.
2. Expert witness testimony, Grady Memorial Hospital. I was asked to educate the hospital's legal team as well as provide expert witness testimony regarding instrumenting the adult airway in a case of severe emergence agitation after general anesthesia. This was done pro-bono. 2015.

Regional

1. Ad-hoc legal consultation and/or expert witness testimony. From time to time, I am asked to review cases, consider legal strategy, and/or provide expert testimony. I have participated in less than 10 of these cases in New York, Georgia, California, Illinois, and Texas. Topics include toxicology, pharmacology, sleep disorders, spine surgery, delirium, and anesthesiology care. I have worked for both plaintiffs and defendants. 2012 - present

National/International

1. Conscious Mind Laboratories, Toronto, Canada. I have provided consultation on patient safety for this company which specializes in psychedelics for mental health wellness. 2021-2023

Editorial Board

1. Anesthesia and Analgesia, Associate Editor; 2025
2. Scientific Reports, Editorial Board; 2025
3. Current Anesthesiology Reports, Section Editor, Post-operative Delirium; 2024
4. Frontiers in Medicine, Section Editor, Intensive Care Medicine and Anesthesiology; 2024
5. Frontiers in Systems Neuroscience, Guest Editor Special Issue on: "Brain Mechanisms of Emergence and Recovery from Anesthesia: EEG and Clinical Features"; 2017

Journal Reviewer

1. Proceedings of the National Academy of Sciences, 2024 – present
2. Computers in Biology and Medicine, 2024 – present
3. Frontiers in Neurology, 2024 – present
4. MethodsX, 2023 – present
5. Brain Connectivity, 2022 – present
6. Brain Research, 2022 – present
7. PLOS Biology, 2022 – present
8. Frontiers in Aging Neuroscience, 2022 – present
9. Neuropharmacology, 2022 – present
10. Frontiers in Systems Neuroscience, 2021 – present
11. Frontiers in Human Neuroscience; 2020 – present
12. Journal of Neuroscience; 2019 – present
13. Communications Biology; 2019 – present
14. Frontiers in Immunology; 2019 – present
15. Dementia and Geriatric Cognitive Disorders; 2019 – present
16. Journal of Neuroanesthesia; 2019 – present
17. Current Biology; 2019 – present
18. Journal of Alzheimer's Disease; 2019 – present
19. British Journal of Anaesthesia; 2018 – present
20. Journal of Clinical Anesthesia; 2018 – present
21. Frontiers in Molecular Neuroscience; 2018 – present
22. PLoS ONE; 2018 – present
23. CNS Drugs; 2017 – present
24. Frontiers in Pharmacology; 2017 – present
25. Journal of Neuroinflammation; 2017 – present
26. Molecular Pharmacology; 2017 – present
27. Neurological Research; 2016 – present
28. Drugs And Aging; 2016 – present
29. Sleep Medicine; 2016 – present
30. Journal of Visualized Experiments (JoVE); 2016 – present
31. Clinical Therapeutics; 2016 – present
32. eLife; 2016 – present
33. BMC Anesthesiology; 2016 – present
34. Scientific Reports, 2015 - present
35. Anesthesiology; 2015 – present
36. Neuroscience; 2015 – present
37. Journal of Neuroimmunology; 2015 – present
38. Journal of Clinical Monitoring and Computing; 2015 – present
39. Journal of Clinical and Experimental Neuropsychology; 2015 – present
40. Journal of Anesthesiology and Clinical Research; 2015 – present
41. FEBS letters; 2014 – present
42. Brain, Behavior, and Immunity; 2014 – present
43. Pharmacology, Biochemistry, and Behavior; 2014 – present

44. Journal of Theoretical Biology; 2013 – present

45. Anesthesia and Analgesia; 2010 – present

11) Fellowship and Grant Support:

Active Research Funding

1. Role: PI (National Institute of Health, 1R01AG093122-01A1). EEG-guided analgesic titration during general anesthesia to improve early neurocognitive recovery in older patients. \$577,216 in Direct Costs annually; (2/15/2026 – 1/31/2031).
2. Role: PI/Lead Investigator, Department of Surgery Innovation Fund “Building a novel monitor and platform utilizing EEG biomarkers to specifically guide pharmacologic dosing decisions during anesthesia care”, \$150,000; 2023-2026.
3. Role: PI/Lead Investigator, Columbia Technology Ventures (CTV) / CUIMC Validation Fund, \$25,000; 2023-2026.
4. Role: PI, Merck Industries, Investigator Initiated Grant: “Efficacy of Suvorexant on Post-operative Sleep Disturbance”. Total Direct Costs: \$551,504.40; 2023-2026.

Past Support

1. Role: PI, National Institute of Health (NIH) F31 NRSA Individual Pre-Doctoral Fellowship. “Neuronal Dynamics at the Hippocampus.” (NIH MH12592); Total Award: \$75,000; 2000-2003
2. Role: PI, Atlanta Research and Education Foundation (AREF), Starter Grant. "Novel Approaches to Emergence from Anesthesia: The Role of GABA antagonism in Anesthesia Reversal." Total Award: \$50,000; 2010-2013.
3. Role: co-PI, with Andy Jenkins, Emory University School of Medicine, Department of Anesthesiology, Team-based Science Award. "GABA(A) Receptor Antagonism and Recovery from Anesthesia." Total Award: \$20,000; 2013-2014.
4. Role: co-PI, with Matt Whalin, Emory University School of Medicine, Department of Anesthesiology, Team-based Science Award. "The Overlap between Sleep and Anesthesia to Enhance Human Cognition: Focus on Trauma." Total Award: \$20,000; 2013-2014.
5. Role: co-PI with William Tyor, Shared Equipment Evaluation Program Grant (ShEEP – Equivalent to NIH Shared Equipment Grant); Disk Spinning Confocal upgrade for existing Olympus IX-71 inverted microscope. Total Equipment Cost: \$293,630.00; awarded 2013.
6. Role: co-PI, with Simon Lee, Emory University School of Medicine, Department of Anesthesiology, Team-based Science Award. "Brain-Stem Reflexes to Quantify Recovery from Anesthesia." Total Award: \$15,000; 2014 – 2015.
7. Role: co-PI with C. Michael Hart, Shared Equipment Evaluation Program Grant (ShEEP – Equivalent to NIH Shared Equipment Grant); XFe96 analyzer of mitochondrial respiration (SeahorseBio.com). Total Equipment Cost: \$184,230; awarded 2014.
8. Role: Mentor, (Iris Spiegel, graduate student PI), National Institute of Health (NIH) F31 NRSA Individual Pre-Doctoral Fellowship. “Role of Cholinergic Afferent Transmission in Spinal Synaptic Function.” (NIH NS086370); Total Award: \$115,000; 2014-2016.

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9. Role: PI, Pilot Grant from the Alzheimer's Disease Research Center, Department of Neurology, Emory University School of Medicine, "Loss of calcineurin as a mechanism for exacerbation of Alzheimer's Disease during anesthesia." Total Award: \$30,000; 2015 – 2016.
10. Role: co-PI, with Laureen Hill, Emory University School of Medicine, Department of Anesthesiology, Team-based Science Award. "Probing the overlap between sleep and anesthesia - EUH arm: Pre-operative sleep study." Total Award: \$30,000; 2015 – 2016.
11. Role: co-PI with Keith McGregor, Shared Equipment Evaluation Program Grant (ShEEP - – Equivalent to NIH Shared Equipment Grant); Equipment Request for MAGventure X100 fMRI-TMS-EEG System). Total Equipment Cost: \$164,890; awarded 2016.
12. Role: Principal Investigator (PI), Veterans Affairs Career Development Award (CDA – Equivalent to NIH K99/R00) in Basic Laboratory Science. "Effects of Anti-Retrovirals on Neuronal Health: Screening ARVs for Neurotoxicity." (Note: Mentored Award; Mentor: William R. Tyor, MD). Total Direct Costs: \$1.35 M; 2013 – 2018 (BX001677).
13. Role: PI/Lead Investigator, James S. McDonnell Foundation Research Award. "Probing the Overlap between Sleep and Anesthesia to Enhance Human Cognition." Phase 1 – Renewed in 2017 for Phase 2. Total Direct Costs: \$1.5 M; 2012 – 2017 (220020346).
14. Role: Co-Investigator/Collaborator (Seong Shim, PI), (Veteran's Affairs SPiRE grant – Equivalent to R21) "Therapeutic Action of GSK-3 Inhibition in Repetitive Mild Traumatic Brain Injury" (1I21RX002389) Total Direct Costs: \$120,000; 2017-2019.
15. Role: Co-Investigator/Collaborator (Ihab Hajjar, PI), (National Institute of Health R01) "Hypertension Angiotensin Receptor Blockers and Cognition: Effects and Mechanism" (5R01AG042127) Total Direct Costs: \$2.5 M; 2013-2019.
16. Role: Co-Investigator (Co-I), Center for Visual and Neurocognitive Rehabilitation, Center Grant – Equivalent to NIH Program Project Grant, Veterans Health Administration, Total Direct Costs: \$2.5 M; 2017 – 2022 (I50 RX002358).
17. Role: Co-I, Department of Defense (W81XWH2210416) Investigation of Nonconvulsive Electrotherapy (NET) for Chronic Pain. Total Direct Costs: \$346,789; 2022-2024.
18. Professional Diversity Mentoring Grant: Mentee: Morgan Graves, MD. 2022-2024, Total Direct Costs: \$4000.
19. Professional Diversity Mentoring Grant: Mentee: Alice Daramola, MS3. 2023-2025, Total Direct Costs: \$4000.
20. Dean's Research Fellowship: Mentee: Nicholas Beatty, MS3, 2023-2024, Total Direct Costs: \$20,000.
21. Role: PI/Lead Investigator, James S. McDonnell Foundation Research Award. "Probing the Overlap Between Sleep and Anesthesia: Locating the Cognitive Self after Unconsciousness." Phase 2 – competitive renewal. Total Direct Costs: \$1.4 M; 2017 – 2025.
22. Role: Mentor, Walter Benjamin Programme, German Research Foundation (DFG), Total Direct Costs: \$95,000. This grant provides support for Sebastian Zinn, MD, PhD (from Frankfurt Germany) to spend two years training in Clinical Research techniques in my group at Columbia University.

Pending Funding

1. Role: PI (National Institute of Health, 1R43AG094497-01A1) Precision medicine brain monitor to identify EEG biosignals of nociception and oversedation to optimize anesthesia care in the aged and those at risk for Alzheimer's Disease and Related Dementias. (A1 submitted, awaiting decision).
2. Role: Co-I (National Institute of Health, R01). Neural Basis of Motor and Cognitive Processes in the Human Cerebellum. (A1 re-submission in preparation)
3. Role: Co-I (National Institute of Health, R21). The Effect of Dexmedetomidine on the Choice to Self-Administer Alcohol. (A1 re-submission in preparation).

12) Educational Contributions:

Direct Teaching/Precepting/Supervising

1. Course Director, Neurosurgery Residency Program, Columbia University Medical Center. For > 8 years I have trained the Neurosurgery residents in the Fundamentals of Neuroanesthesiology. This is 5 - 10 hours bedside teaching with first year Neurosurgery residents for one month each year.
2. Clinical Preceptor, Anesthesiology Residency Program, Columbia University Medical Center. For > 10 years as a faculty member, at both CUIMC and at my previous institution, Emory, my clinical teaching mainly focuses on perioperative care for patients with Neurological Illness or Neurosurgery. In addition to my bedside teaching, I have also devoted 1 – 5 hours weekly to small group teaching/lecturing that helps develop the clinical acumen of our medical students, residents, and fellows. Specific topics include: difficult airway management, intravenous anesthetic pharmacology, intraoperative monitoring, sleep disorders, delirium, Alzheimer's disease, awareness under anesthesia, and consciousness. Many of these topics have grown from my clinical research using EEG techniques to guide patients towards preferred recovery trajectories after general anesthesia.
3. Co-Director, Neuroanesthesia AM Conference, Anesthesiology Department, Columbia University Medical Center. I lead a brief (15 – 20 minute) morning conference four days a week for residents and fellows. This conference is focused on Clinical Neurosciences, Intraoperative Monitoring, Journal Club, and Case Reports.
4. Course Director, June 2018, 2019. Gaden Monastery, Mundgod, India. I taught Neuroscience and Neurophysiology to Tibetan Monks in Exile (3rd year and 5th year) at Gaden Monastery in Karnataka India. This is in conjunction with the Emory Tibet Science Initiative as conceived by His Holiness the 14th Dalai Lama.
5. Faculty Advisor, SACNAS (Society for Advancing Chicanos/Hispanics & Native Americans in Science), Emory University; 2017 – 2018, approximately 0.25 hours weekly.
6. Training Faculty & Leadership Team, Initiative for Maximizing Student Development, (IMSD), NIH T32 grant that supports under-represented minorities in science; 2017 – 2018, approximately 0.25 hours weekly.
7. Lecturer, IBS 514 Cellular Neuroscience, Module 3, Electrophysiology and Excitable cells "Oscillations and rhythmic networks" and "EEG, information, and coherence"; February 2017, March 2018; two, 2-hour lectures. IBS 514 is a requirement for all Neuroscience PhD students

and has many other students enrolled (Pharmacology, Biomedical Engineering) – approximately 30 students.

8. Lecturer, Computational Neuroscience IBS 516 "EEG analysis Parts 1 and 2"; April 2016, April 2017, April 2018; two, 1-hour lectures. IBS 516 is an elective for Neuroscience PhD students many other students from Pharmacology and Biomedical Engineering are typically in attendance – approximately 15 students.
9. Lecturer, Pharmacology, MSP 501 "The Ethical Considerations Regarding Non-Therapeutic Use of Therapeutics"; April 2014; 1-hour lecture, MSP 501 is a required class for Pharmacology PhD students many other students from Biomedical Engineering are typically in attendance – approximately 15 students.
10. Lecturer, Emory University Nell Hodgson Woodruff School of Nursing, VA Nursing Partnership, "Delirium: Incidence, Types, & Cost"; April 2014, May 2015, March 2016, April 2017. This is a required course for Nurses enrolled in the VA Nursing Education partnership – approximately 75 students annually.
11. Lecturer, Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Physics, Machines, and Monitors. " 2014 – 2017. The resident lecture series typically involves a lecture and discussion with approximately 16 residents.
12. Lecturer, Clinical Research Conference, MD-PhD Program, Emory University School of Medicine; August 2014, 3-hour case conference. The MD-PhD Program has a monthly clinical research conference that involves all 90 students and select faculty.
13. Pod leader, Emory Department of Anesthesiology Residency Training Program; 2013 – 2018. The residents at Emory are assigned to multi-year "pods" that meet 3-4 times a year (typically for a dinner and informal discussions) with a faculty member who serves as an academic and career mentor.
14. Lecturer, Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Neurophysiology Part 1 and Anesthesia for Neurosurgery." 2013 – 2017. The resident lecture series typically involves a lecture and discussion with approximately 16 residents.
15. Lecturer, Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Neurophysiology Part 2 and Anesthesia for Patients with Neurologic Disease." 2013 – 2017. The resident lecture series typically involves a lecture and discussion with approximately 16 residents.
16. Lecturer, Clinical Research Conference, MD-PhD Program, Emory University School of Medicine; December 2012, 3-hour case conference. The MD-PhD Program has a monthly clinical research conference that involves all 90 students and select faculty.
17. Lecturer, M2 Neuroscience, "General Anesthetics", Emory University School of Medicine; October 2012, 1-hour lecture. The M2 class at Emory University School of Medicine is approximately 115 students.
18. Lecturer, Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Uptake and Distribution." 2012 – 2017. The resident lecture series typically involves a lecture and discussion with approximately 16 residents.
19. Lecturer, Clinical Research Conference, MD-PhD Program, Emory University School of Medicine; April 2011, 3-hour case conference. The MD-PhD Program has a monthly clinical research conference that involves all 90 students and select faculty.

20. Lecturer, Introduction to Biomedical Engineering, Georgia Institute of Technology, Undergraduate Biomedical Engineering, “Neuroscience and the Role of the Bioengineer”; September 2003. This course is open to graduate students and undergraduate students, approximately 40 students.
21. Problem-Based Learning Facilitator, Georgia Institute of Technology, Biomedical Engineering Graduate Program; 2002; 3 hours per week Fall Semester. This course was mandatory for Biomedical Engineering graduate students and undergraduate students, approximately 10 students in each problem-based learning session.
22. Lecturer, Systems Pathophysiology, Georgia Institute of Technology, Biomedical Engineering Graduate Program, “Seizures, EEG, and the Engineer”; September 2000; 1-hour lecture. This course is open to graduate students and undergraduate students, approximately 40 students.
23. Teaching Assistant / Lab Assistant, M2 Clinical Neuroscience, Emory University School of Medicine; 1999; 3 hours per week Spring Semester. The M2 class at Emory University School of Medicine is approximately 115 students.
24. Teaching Assistant, M1 Embryology, Emory University School of Medicine; 1998; 15 hours per week; 3 week course Summer Semester 1998. The M1 class at Emory University School of Medicine is approximately 115 students.

Advising and Mentorship

Graduate Students (PhD students)

1. Kamyra Edokopolor, 2018 – 2022, PhD Thesis Co-Mentor, Emory Neuroscience Program; Emory University, Department of Cell & Developmental Biology. This mentee has one first author paper from research in my group.
2. Christopher Sinon, 2015 – 2019, PhD Thesis Mentor, Emory Computational Neuroscience Program; Currently Research Associate Scientist, Johns Hopkins University. This mentee has one first author paper and two co-author papers from research in my group.
3. Iris Spiegel, PhD, 2014 – 2017, PhD Thesis Mentor, Emory Neuroscience Program; Currently scientific writer for Industry. This mentee has two first author papers and two co-author papers from research in my group.
4. Darren Hight, PhD, Thesis Co-Mentor, Emory Neuroscience Program and University of Auckland, 2014 – 2017; Currently research faculty in Switzerland. This mentee finished with two first author and two co-author publications. I now have over thirteen publications with this individual.

Post-Doctoral Fellows

1. Sebastian Zinn, MD, PhD, 2024 – present, post-doctoral Fellowship Mentor; Walter Benjamin Programme, German Research Foundation (DFG). This mentee already has one first author publication from working in my group.
2. Bushra Yasin, MD, PhD, 2022 – 2023, Currently Anesthesiology Resident, Rutgers. This mentee has one first author paper from research in my group.
3. Matthias Kreuzer, PhD, 2015 – 2017, Post-doctoral Fellowship Mentor; Currently Assistant Professor, Department of Anesthesiology, Technical University of Munich, Munich, Germany. This mentee won an award for Best Abstract, at the International Anesthesia Research Society

(IARS) Annual Meeting, Washington DC; May 2017. This mentee has established his own funded research program. We have over 38 publications together.

4. Edyta Murlin, PhD, 2014 – 2016, Post-doctoral Fellowship Mentor; Currently Associate Research Scientist, Emory University. This mentee co-authored four publications and had one first author publication from research in my group.
5. September Hesse, PhD, 2014 – 2016, Post-doctoral Fellowship Mentor; Currently Quantitative Safety Specialist, Novartis Pharmaceutical Corporation. This mentee co-authored two publications and had one first author publication from research in my group.
6. Glenda Keating, PhD, 2014 – 2015, Post-doctoral Fellowship Mentor; Currently Research Staff, Department of Neurology, Emory University. This mentee co-authored three publications from research in my group.

Clinical Residents & Fellows

1. Melissa Liu, MD; 2025- present, Columbia University Neuroanesthesiology Fellow.
2. Shmuel Bejell, MD; 2025- present, Columbia University Neuroanesthesiology Fellow.
3. Kelin Brace, MD, PhD; 2025 – present, Columbia University Apgar Scholars Program. Dr. Brace has committed to work on neurophysiology research within my group.
4. Jasper Yan, MD; 2021 – 2024, Columbia University Apgar Scholars Program. Dr. Yan completed his residency and Clinical Fellowship in Regional Anesthesia at Columbia. He is working in California. This mentee has a co-author manuscript under review from their work in my group.
5. Herie Sun, MD; 2020 – 2023, Columbia University Apgar Scholars Program. Dr. Sun is currently a PGY4 Anesthesiology chief resident at Columbia. He is working on statistical analysis for several clinical research projects. This mentee has a co-author manuscript under review from their work in my group.
6. Morgan Graves, MD; 2019 – 2023, Columbia University Apgar Scholars Program. Dr. Graves is currently a PGY4 Anesthesiology resident at Columbia. He is working in the laboratory analyzing rodent behavioral data related to emergence and recovery behavior. This mentee has two co-author publications from their work in my group.
7. Brian Chang, MD; 2018 – 2022, Columbia University Apgar Scholars Program. Dr. Chang is currently an ICU fellow at Columbia. This mentee is first-author on two articles from their work in my group.
8. Joseph Pena, MD; 2018 – 2020, Columbia University Apgar Scholars Program. Dr. Joseph Pena is currently working in Private Practice in the New York Area.
9. Stephen Soong, MD; 2017, Research Mentor; Currently Private Practice pain physician in Atlanta Area. This mentee is a co-author on a review article in a major Anesthesiology journal.
10. Helen Vo, MD; 2016, Research Mentor; Currently Private Practice, Orlando, FL.
11. Peiman Lahsaei, MD; 2015 – 2016, Research Mentor; Currently Assistant Professor, UT Southwestern.
12. David McDaniel, MD; 2013 – 2014, Research Mentor; Currently Private Practice, Houston, TX
13. Seyed Safavynia, MD, PhD; 2013 – present, Research Mentor; Currently Assistant Professor, Cornell University. This mentee won Second Place for Resident Research, at the American Society of Anesthesiologists Annual Meeting, San Diego; October 2015. I have two publications with this mentee as a co-author. This mentee has established his own funded research program and remains an active collaborator.

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14. Ellen Richter, MD; 2012 – 2013, Research Mentor; Currently Assistant Professor, Emory University Hospital.
15. Kevin Blackwood, MD; 2012 – 2015, Research Mentor; Currently Private Practice, Baton Rouge, Louisiana.
16. Mark Caridi-Scheible, MD; 2011 – 2012, Research Mentor; Currently Associate Professor, Critical Care Fellowship Director, Emory University.
17. Jeff Prinsell, MD; 2011 – 2012, Research Mentor; Currently Private Practice, Columbus, GA
18. Melissa Hirsu, MD; 2011 – 2012, Research Mentor; Currently Assistant Professor, Emory University / Grady.
19. Anna Woodbury, MD; 2010 – 2014, Research Mentor; Currently Vice-Chair for Research, Emory University / Atlanta VA. This mentee won First Place for Original Research, at the Gulf Atlantic Anesthesia Resident Research Conference, in Puerto Rico; April 2012. I have four publications with this mentee as a co-author or first author. This mentee has established her own funded research program.

Medical Students

1. Research Mentor, Javier Vilcapoma, Columbia University Medical Student; April 2026 – present; approximately 5 hours direct contact weekly;
2. Research Mentor, Alec Wang, Columbia University Medical Student; April 2026 – present; approximately 5 hours direct contact weekly;
3. Research Mentor, Rodrigo Salinas, Columbia University Medical Student; May 2025 – present; approximately 5 hours direct contact weekly; This mentee is working on two manuscripts based on this work.
4. Research Mentor, Kylie Pecord, Columbia University Medical Student; May 2025 – present; approximately 5 hours direct contact weekly; This mentee is working on two manuscripts based on this work.
5. Research Mentor, Sofia Mouchtaris, Columbia University Medical Student, 2024-present. Sofia is working on *The Role of Pharmacological Decision-Making during Maintenance on PACU Delirium*. This mentee has already two international poster presentations and is a co-author on several manuscripts in preparation.
6. Research Mentor, Carla Martinez, Medical Student, 2022-2024, Technical University of Munich. Carla is working on quantitative EEG projects related to cognitive dysfunction. This mentee has one first author publication and is a co-author on several manuscripts under review based on this work.
7. Research Mentor, Oliver Isik, Columbia University Medical Student; February 2022 – present; approximately 5 hours direct contact weekly; This mentee has one first author publication and is working on two additional manuscripts based on this work.
8. Research Mentor, Nicholas Beatty, Columbia University Medical Student; February 2022 – 2024; approximately 5 hours direct contact weekly; This mentee is co-author on a manuscript under review based on this work.
9. Research Mentor, Alice Daramola, Columbia University Medical Student; November 2021 – present; approximately 5 hours direct contact weekly; This mentee is a co-author on a manuscript based on this work.

10. Research Mentor, David Bachoy, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research (FAER); June – August 2021; approximately 5 hours direct contact weekly; Currently an anesthesiology resident in Vermont.
11. Research Mentor, Kevin George, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research (FAER); June – August 2020; approximately 5 hours direct contact weekly; Currently an anesthesiology resident in Florida.
12. Research Mentor, Megan McCrohan, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research (FAER); June – August 2018; approximately 5 hours direct contact weekly; Currently a medical student in Michigan. This mentee co-authored a book chapter in my group.
13. Research Mentor, Stefan Schwerin, MD-PhD Student Technical University of Munich, Germany. July – September 2017; Currently an anesthesiology resident in Munich, Germany. This mentee was recognized for a Best Abstract (Basic Sciences) at the German Anesthesiology Congress in April 2018, Berlin, Germany. This mentee is a co-author on a manuscript based on this work.
14. Research Mentor, Paran Davari, Medical Student, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research (FAER); June – August 2017; approximately 5 hours direct contact weekly; Currently a Radiology Resident. This mentee has two co-author publications for their work in my group.
15. Research Co-Mentor, Emily Nesbitt, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research (FAER); June – August 2017; approximately 2 hours direct contact weekly; Currently a medical student in Ohio.
16. Research Mentor, Eric Yang, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research; June – August 2015; approximately 8 hours direct contact weekly; Currently a dermatology resident at Brown. This mentee was awarded as Best Clinical Science Abstract; FAER Medical Student Anesthesia Research Fellowship Symposium, American Society of Anesthesiology Annual Meeting; October 2015. This mentee has a first author paper from their work in my group.
17. Discovery Phase Co-Mentor, Vincent LaBarbera, Emory University School of Medicine; April - September 2015, approximately 1 hour direct contact weekly; Currently a Neurology resident at Brown. This mentee has a first author paper from their work in my group.
18. Discovery Phase Mentor, Ian McCullough, Emory University School of Medicine; April - September 2015, approximately 3 hours direct contact weekly; Currently an anesthesiology resident at Emory University. This mentee has a co-authored publication from their work in my group.
19. Discovery Phase Co-Mentor, Maria Victoria García, Emory University School of Medicine; May - October 2015, approximately 5 hours direct contact weekly; Finished an anesthesiology residency at Emory University.
20. Discovery Phase Co-Mentor, Amy Ottensmeyer, Emory University School of Medicine; May - October 2015, approximately 2 hours direct contact weekly; Finished an obstetrics residency.
21. Discovery Phase Mentor, Davin Singh, Emory University School of Medicine; April - September 2013, approximately 5 hours direct contact weekly; Completed an OB anesthesia fellow at Northwestern. This mentee was recognized as a featured Oral presentation at the FAER Medical

Student Anesthesia Research Fellowship Symposium, American Society of Anesthesiology Annual Meeting; October 2013. This mentee is co-author on a research paper.

22. Discovery Phase Co-Mentor, Chris Ma, Emory University School of Medicine; April - September 2013, approximately 3 hours direct contact weekly; Currently Assistant Professor, Emory University. This mentee won first place at Emory's Department of Anesthesiology Celebration of Research; March 2014. This mentee is co-author on a research paper.
23. Discovery Phase Mentor, Courtney Cron, Emory University School of Medicine; April - September 2014, approximately 5 hours direct contact weekly; Currently Assistant Professor at Emory University. This mentee is co-author on two papers based on work performed in my laboratory.
24. Discovery Phase Co-Mentor, Margaret Ann "Peggy" Kearns, Emory University School of Medicine; May - October 2014, approximately 1 hours direct contact weekly; Currently in Private Practice in Arizona.
25. Discovery Phase Co-Mentor, Clayton Adams, Emory University School of Medicine; May - October 2014, approximately 1 hours direct contact weekly; Completed an anesthesiology resident at University of Florida.
26. Discovery Phase Co-Mentor, Katherine Loh, Emory University School of Medicine; May - October 2014, approximately 1 hours direct contact weekly; Completed a fellowship in pediatrics anesthesiology at University of Pennsylvania, Children's Hospital of Pennsylvania.
27. Discovery Phase Mentor, Britany Raymond, Emory University School of Medicine; April - September 2012, approximately 5 hours direct contact weekly; Completed OB Anesthesia Fellowship, Currently an Assistant Professor at Vanderbilt University. This mentee was recognized with a featured oral presentation at Medical Student Research Day, Emory University School of Medicine; May 2013.
28. Discovery Phase Co-Mentor, York Chen, Emory University School of Medicine; April - September 2012, approximately 3 hours direct contact weekly; Currently an Assistant Professor at Emory University Dept. of Anesthesiology.
29. Discovery Phase Co-Mentor, Jenna McIendon, Emory University School of Medicine; April - September 2012, approximately 3 hours direct contact weekly; Currently private practice Atlanta Area. This mentee won first place at Emory's Dept. of Medicine Research Day, Emory University School of Medicine; October 2012.
30. Discovery Phase Mentor, Sarah Burke, Emory University School of Medicine; April - September 2011, approximately 7 hours direct contact weekly; Attended UCSF as a research track resident; Currently Assistant Professor, Emory University. I have one publication with this individual as a co-author.

Thesis Committee Participation

1. Tuan Cassim, PhD, University of Utah; 2022 – 2027, Currently finishing PhD in Clinical Neuropsychology.
2. Connor Brenna, MD, PhD, University of Toronto; 2022 – 2026, Currently an anesthesiology resident (Research Track) at University of Toronto,
3. Sebastian Corlette, PhD, 2023 – 2025; University of Melbourne; Currently a research fellow in Australia.

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4. Sergio Vide, MD, PhD, 2020 – 2023, University of Porto, Porto, Portugal; Currently a faculty member in Portugal
5. Charles Ford, MD, PhD, Neuroscience, Emory University, 2017 – 2022; Currently a Medical Student at Emory University. This individual is a co-author on a manuscript from my group.
6. Stephen Yarmoska, MD, PhD, Biomedical Engineering, 2017 – 2021. Currently a Neurosurgery Resident at University of Maryland.
7. Stephanie Jones, Biochemistry, Cell and Developmental Biology, Emory University, 2015 – 2022; Currently pursuing career as a medical illustrator. I have one publication with this individual as a co-author.
8. Stephanie Jones, Biochemistry, Cell and Developmental Biology, Emory University, 2015 – 2022; Currently pursuing career as a medical illustrator. I have one publication with this individual as a co-author.
9. Jennifer Rha, MD, PhD, Biochemistry, Cell and Developmental Biology, Emory University, 2014 – 2017; Currently Surgery resident. I have one publication with this individual as a co-author.
10. Jessica Martin, PhD, Swinburne Institute of Technology, 2014 – 2017; Currently a research fellow at the University of Melbourne, Australia.
11. Olivia Moody, Neuroscience, Emory University, 2015 – 2017; Completed post-doctoral research fellowship, Harvard University. I have one publication with this individual as a co-author.
12. Mekelayaie Dorsett, CRNA, PhD, Nursing, Virginia Commonwealth University, 2016 – 2017; Currently Chief CRNA, Atlanta VA Medical Center.
13. Anzar Abbas, Neuroscience Program, Emory / Georgia Tech, 2017 – 2019; Currently working in data analytics in a New York Biotech firm.
14. Lauren Edwards, Neuroscience Program, Emory 2018 – 2019; Completed Medical School.

Undergraduates and Post-Baccalaureate Students

1. Meah Ahmed, Undergraduate and Medical Student Researcher, 2021 – current; Currently Jefferson Medical Student.
2. Grace Edgerton, Emory Undergraduate Researcher, 2017 – 2018; Finished medical school.
3. Research Mentor, Sal Hemani, MD, Post-Baccalaureate Researcher, 2016 – 2017; Currently Pain Physician, Atlanta Area.
4. Faculty Preceptor, Emily Gebhardt, MS Biostatistics Practicum Project, 2017 – 2018; Currently a statistician in Dallas, Texas.
5. Research Mentor, Peter-Jon Williams, Post-Baccalaureate Researcher, 2017 – 2018; Completing medical school.
6. Austin Sloane, Vanderbilt Undergraduate Researcher, 2017; Completed medical school.
7. Research Mentor, Daniel Kim, Emory Undergraduate Researcher, 2016 – 2018; Completed medical school.
8. Co-Mentor Research, Abi Rejimon, BS, Summer Research Associate, 2016, from Indiana University; Currently MD/PhD Student at Emory.
9. Research Mentor, Seth Eisenberg, MD, Post-Baccalaureate Researcher, 2015 – 2016; Completed Anesthesiology Residency, Hershey, PA.
10. Faculty Preceptor, Chenyin Lin, MS Biostatistics Practicum Project, May – July 2014; Currently a statistician, Beijing, China.

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11. Research Mentor, Qiangguo Xu, MD, Siping Ailingqi Hospital (China); 2014 – 2016, Visiting Scientist, Emory University; Currently an anesthesiologist in Siping, China.
12. Research Mentor, Nicholas Taylor, Undergraduate Researcher (Emory), 2013 – 2017; Matriculated to medical school. This student is a co-author on a research paper.
13. Research Mentor, Shavonne Teng, Undergraduate Researcher (Emory), 2013 – 2014; Recently completed PhD at Columbia University in New York City. This student is a co-author on one paper.

Educational Administration and Leadership

1. EEG Workshop Co-Director, SNACC Annual Meeting, Neuroanesthesia Essential Skills Boot Camp. This is a requirement of all Neuroanesthesia Fellows credentialed through the International Consortium of Perioperative Neuroanesthesia Training Programs; 2019 – present
2. Course Director of IBS 500R, Special Topics in Self-Directed Seminar, Emory University School of Medicine, MD/PhD Program; 2016 – 2018; 1 hour per week (Fall and Spring Semester). This is a required seminar course for MD/PhD students in their first 2 years. Approximately 24 students total.
3. Course Director of IBS 508R, MD/PhD Journal Club Series, Emory University School of Medicine, MD/PhD Student Journal Club; 2014 – 2018; 1 hour per week (Fall and Spring Semester). This is a required research discussion course for MD/PhD students in their first 2 years. Approximately 24 students total.
4. Faculty Advisor, Crawford Long Society / Anesthesia Interest Group for Medical Students, Emory University School of Medicine; 2010-2018, approximately 0.5 hours weekly

Instructional/Educational Materials used in Print or other Media

Local / Institutional

1. Neuroanesthesia Resident Handbook, Columbia University Medical Center, updated annually
2. Faculty Advisory Board, Emory Undergraduate Medical Review, November 2017 - 2018

National / International

1. Co-author of "Educational Resources in Neuroanesthesiology". Published in American Society of Anesthesiologists September Newsletter, 2015

Community Education

1. Volunteer, Atlanta Science Festival, Atlanta Georgia; March 2016
2. DREAMS Speaker: "Cognition, Anesthesia, and Older Adults"; sponsored by Department of Medicine, Division of General Medicine and Geriatrics and the Patient Centered Outcomes Research Institute, at Wesley Woods Health Center on March 7, 2016 and March 10, 2016. DREAMS is a lecture and subsequent discussion to a lay audience of older adults interested in a variety of relevant health topics.
3. Presenter Science Showcase, "Where does the brain go during sleep and anesthesia? How important is sleep for memory? Renfro Middle School, Decatur, GA; February 2014

13) Report of Clinical Care and Public Health Activities and Interventions:

Clinical Practice or Public Health Activities

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1. 10/18 – now CUMC/NewYork-Presbyterian Hospital; Division Chief of Neuroanesthesia, 10 – 20 days/month (on average).
2. 08/10 – 09/18 Staff Physician, Anesthesiology Service, Atlanta VA Medical Center, 10 – 20 days/month (on average)
3. 08/10 – 09/18 Attending Physician, Anesthesiology Department, Emory University Hospital and affiliates , 10 – 20 days/month (on average)

Clinical or Public Health Innovations

1. Delirium Incidence in the PACU at Columbia University. 2021-2023. This project investigates the general incidence of PACU delirium at Columbia University and the incidence in Spanish Speakers.
2. Neuromodulation for post-operative pain control. 2022. This project investigated the feasibility of transauricular vagal nerve stimulation on post-operative pain at Columbia University Medical Center.
3. Pre-operative Cognitive Examination Feasibility. 2015. Through collaboration with the leadership of the Anesthesiology Pre-operative Clinic, I led an initiative to screen patients at high-risk for post-operative complications (cognitive, pulmonary, and cardiac) with an abbreviated screen of cognitive status.
4. Post-operative Cognitive Examination Tool Development. 2015-2017. As Medical Director of the Post-Anesthesia Care Unit at the Atlanta VA Medical Center, I led an initiative to investigate specific tools for utility in assessing cognitive status post-operatively in the recovery room at all of the Emory-affiliated sites. This involved cognitive scientists, anesthesiologists (local and international), and nursing.

Clinical and / or Public Health Administration and Leadership

1. Pre-operative Frailty Screening. 2016 – 2018. Through collaboration with educational leadership, residents working at Emory's Anesthesiology Pre-operative Clinic investigated several objective and functional assessments of frailty as screens of potential post-operative complications. The cognitive assessments were determined to be the most convenient and have been worked into clinical work flow in select patients.
2. Post-operative Delirium Screening. 2016 – 2018. Through collaboration among Directors of Post Anesthesia Care Units in the Emory System, the medical record was amended to include CAM-ICU as an entry for nursing to increase our awareness, early detection, and treatment of post-operative delirium.

Additional Clinical or Public Health Service Activities

1. Volunteer Soccer Coach, Decatur-Dekalb YMCA; 2003 – 2014. USSF D License, NSCAA Youth Soccer License, Coerver Training Youth Soccer National Certification
2. Volunteer, medical consultation, Decatur-Dekalb YMCA; 2003 – 2014. Youth Sports concussion screening, advice, First Aid, physicals and well-checks.
3. Volunteer, medical consultation, Decatur High School; 2014 – 2018. Youth Sports concussion screening, advice, and follow-up.

14) Patents & Inventions:

Patents

1. System, Method And Computer Accessible Medium Which Takes Into Consideration Change(s) Of Spectral And Entropic Features Age In The Electroencephalogram In Patients Under Sevoflurane Anesthesia. U.S. Patent Application No. 62/914,183 filed on October 11, 2019 with the United States Patent and Trademark Office.
2. System, Method, And Computer-Accessible Medium For Visualization And Analysis Of Electroencephalogram Oscillations In The Alpha Band. U.S. Provisional Patent Application No. 62/925,650 filed on October 24, 2019 and International Patent Application No. PCT/US2020/057370 filed on October 26, 2020 with the United States Patent and Trademark Office
3. Electrode Conversion System And Apparatus U.S. Patent Application No. 62/928,885, filed on October 31, 2019,
4. Method For Monitoring The Quality Of Emergence From Anesthesia. Provisional patent, European Union, US

15) Publications:

Peer-Reviewed Research Publications in Print or other Media (*García PS corresponding author)

1. Papangelou, A, Boorman, DW, Sharifpour, M, **García, PS**. A Self-administered Preoperative Visual Paired Comparison Task is Associated with Postanesthesia Care Unit Delirium. *J. Neurosurg Anes* (accepted in press).
2. Berger-Estilita J, Baron Shahaf D, Barreto Chang OL, Bonhomme V, Crisan I, Fernández-Candil JL, **García PS**, Gisselbaek M, Glezeron BA, Hight D, Jakobsen K, Rimstad IJ, Kaiser HA, Kratzer S, Koch S, Dilmen OK, Kreuzer M, Helfrich J, Lersch F, Lobo FA, Marty AP, Marcolino I, Meco BC, Palanca B, Pilge S, Radtke FM, Rasulo F, Raz A, Romagnoli S, Romero CS, Schneider G, Sepúlveda PO, Shmukler D, Sinner B, Soehle M, Thyrsos de Lara FS, Vacas S, Vide S, von Dincklage F, Saxena S, Absalom AR. Consensus document on electroencephalography education in anaesthesiology: defining learning outcomes: A modified four-round Delphi study. *Eur J Anaesthesiol*. 2026 Feb 19. Epub ahead of print. PMID: 41709666.
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Reviews, Chapters, Monographs, Editorials

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10. Arora S, Gooch J, **García PS***. Postoperative Cognitive Dysfunction, Alzheimer's Disease, and Anesthesia. *The International Journal of Neuroscience* 124(4):236-242. PMID: 23931049.
11. Woodbury A, Yu SP, Wei L, **García PS***. Neuro-modulating effects of honokiol: a review. *Front Neurol*. 2013;4:130. PMID:24062717.
12. Farish SE and **García PS***. Capnography Primer for Oral and Maxillofacial Surgery: Review and Technical Considerations. *J Anesth Clin Res*. 2013;4(3):295. PMID:24459603.
13. Thaler AM, Siry R, Cai L, **García PS**, Chen L, Liu R. Memory Loss, Alzheimer's Disease and General Anesthesia: A Preoperative Concern. *J Anesth Clin Res*. 2012;3(2):1000192. PMID:23853740
14. **García PS**, Gulati A, Levy JH The role of thrombin and protease-activated receptors in pain mechanisms. *Thromb Haemost*. 2010;103(6):1145-1151. PMID:20431855.
15. **García PS**, Vide S, Mergeche J, Heyer E. (2020) Electrophysiological Studies for Evaluation and Procedure Monitoring , Chapter 412: Youmans & Winn Neurological Surgery, 8th ed., Elsevier
16. Arora S, Bowman A, **García PS***. (2018) Chapter XX: Geriatric Anesthesia in Anesthesia Secrets. Brian Keech Editor ed., Elsevier
17. Sinon CG, McCrohan M, Rodriguez AD, **García PS***. (2018) Chapter XX: Alzheimer's Disease in Geriatric Anesthesia. Hemanshu Prabhakar Editor. Springer
18. **García PS***, Whalin MK, Sebel P. (2017) Chapter 10: Intravenous Anesthetics in Anesthetic Pharmacology Hemmings and Egan eds., Elsevier
19. Whalin, MK, Haack CI, Buchman T, **García PS***. (2012) Chapter 7: Airway Management in Acute Care Surgery Britt ed. Lippincott, Williams, & Wilkins
20. **García PS**, Whalin MK, Sebel P. (2012) Chapter 9: Intravenous Anesthetics in Anesthetic Pharmacology Hemmings and Egan eds., Elsevier
21. **García PS***, Brown CH. Phenylephrine or Ephedrine for Intraoperative Hypotension? Consider the Cerebral Microcirculation. *Anesthesiology*. 2021 Nov 1;135(5):775-777. PMID: 34597387.
22. **García PS***. (2020) Meta-analysis and Megadata in EEG-based Techniques for Delirium Prevention. *Anesth Analg*. 2020 Sep;131(3):709-711. PMID: 32940441.
23. Berger M, **García PS***. (2016) Anesthetic Suppression of Thalamic High-Frequency Oscillations: Evidence that the Thalamus Is More Than Just a Gateway to Consciousness? *Anesth Analg*. Jun;122(6):1737-9. PMID: 27195617.
24. **Garcia P**, Sleight JW. (2017) Ketamine a drug at war with itself. *Anesthesiology*. Mar;126(3):371-372. PMID: 28099245.

Books/Textbooks for Medical or Scientific Community

1. **García PS**, Sebel P. (2010) Current Controversies in Intraoperative Awareness I. in Consciousness, Awareness and Anesthesia, George A. Mashour ed., Cambridge University Press.

16) Meetings/Invited oral and poster presentations (First author is presenter unless noted)

Local/Institutional

Paul S. García, M.D., Ph.D. (CV)

1. Troyas C, Graves MS, Beatty NC, Cassim TZ, Kreuzer M, Mansouri MT, **García PS***. Alpha-4 subunit containing GABA-A receptors modulate burst suppression during propofol and isoflurane anesthesia. Academic Evening at Columbia University Irving Medical Center 2024.
2. Lee, D, Yan J, **García PS***. Adverse effects of sub-anesthetic administration of ketamine. Academic Evening at Columbia University Irving Medical Center 2024.
3. Troyas C, Ahmed MT, Yan J, Berman MF, Kreuzer M, **García PS***. Characterization of quantitative EEG features during opioid-free anesthesia in spinal surgery: A retrospective cohort study. Academic Evening at Columbia University Irving Medical Center 2024.
4. Graves M, **García PS***. ECT: An Essential Mental Health Service During a Crisis. 23rd Annual Academic Evening at Columbia University Irving Medical Center 2020.
5. Chang B, Safavynia SA, Coyle-Burke S, Korb PJ, Gebhardt E, Weiss P, Haider HA, Ruiz AR, LaRoche SM, Levy JH, **García PS***. Electroencephalographic Features Associated with Seizure Risk and Outcome Following Tranexamic Acid Administration for Cardiothoracic Surgery. 23rd Annual Academic Evening at Columbia University Irving Medical Center 2020.
6. Scher E, **García PS***, Mittel A. Postoperative Speech-Language Dysfunction as an Indicator of Impaired Early Cognitive Dysfunction Compared to the CAM-ICU Assessment of Delirium. 23rd Annual Academic Evening at Columbia University Irving Medical Center 2020.
7. Pena J, Shi X, Gaskell A, Sleigh J, **García PS***. Intraoperative Frontal EEG Substitutes For Age in a Predictive Model Of PACU-Delirium. 23rd Annual Academic Evening at Columbia University Irving Medical Center 2020.
8. Cassim T, **García PS***. Effects of Aerobic Exercise on Sleep Micro-Architecture in Elderly Population. 23rd Annual Academic Evening at Columbia University Irving Medical Center 2020.
9. Hemani S, Hesse S, Hill LL, **García PS***. Frailty Assessments in Emory's Anesthesiology Pre-Operative Clinic. Emory Quality Forum June 2016.
10. Kreuzer M, Keating G, Rye DB, Cohen RM, **García PS***. Rats Genetically modified to model Alzheimer's Disease demonstrate different spectral EEG properties after 12 - 15 months when compared to similarly aged healthy controls. Emory University Post-Doctoral Celebration of Research; May 2016.
11. Hemani S, Hesse S, Kreuzer M, Hill LH, **García PS***. Walking Speed as a Predictor of Length of Hospital Stay in a High-Risk Surgical Population. 3rd Annual Advancing Health Care Quality Research at Emory University; May 2016.
12. Hirsu M, Lukins C, Richter E, Sramek K, Soong S, Theusch B, **García PS***. The Aesthetics of Anesthetics. The Science of Graduate Medical Education. Emory University School of Medicine. Atlanta, Georgia; March 2013.

Regional

1. **García PS**, Jenkins A. Inhibition of the GABA(A) Receptor by Antibiotics: Implications for a General Anesthetic Reversal Agent. Gulf Atlantic Residents Research Conference; Oral Presentation, Miami, Florida; June 2009.
2. Wright, TM, Wenning, A, **García, PS**, Norris, BJ, Calabrese, RL. Contribution of Motor Neurons to Fictive Motor Pattern Generation. SouthEast Nerve Net (SENN) Annual Meeting, Poster Presentation, Atlanta, Georgia; July 2008.
3. **García PS**, Calabrese RL. A Model of Intersegmental Coordination with Leech Heart Motor Neurons. SouthEast Nerve Net (SENN) Annual Meeting, Poster Presentation, Atlanta, Georgia; July 2004.
4. **García PA**, Zengel JE. A Quantitative Approach to the Study of Depression of Neurotransmitter Release, Presented at SouthEast NerveNet, (SENN) Annual Meeting. Poster Presentation. Saint Augustine, Florida; May 1996.

National / International

1. Zinn S, Sekula R, **García PS**. *Asleep - Awake - Asleep Procedure for Suboccipital Craniotomy in a Patient with Anxiety Disorder*, ASA Annual Meeting 2025, San Antonio, TX, October 2025.
2. Zinn S, Mouchtaris S, Seemann JM, Walk A, Toennes SW, Kloka J, Zacharowski K, Kreuzer M, , **García PS**. *Cannabis Use in Surgical Patients: Implications for Propofol Dosing and Burst Suppression Monitoring*, Paper poster presentation, IARS Annual Meeting 2025, Honolulu, HA, March 2025.
3. Mouchtaris S, Zinn S, Lujan OA, Aaronson J, Daramola A, **García PS**., *The Role of Pharmacological Decision-Making during Maintenance on PACU Delirium*. Paper poster presentation, IARS Annual Meeting 2025, Honolulu, HA, March 2025.
4. Zinn S; Kreuzer M; Dragovic S; Kloka J; Zacharowski K; Schneider G; **García PS**; *A parametrization of the dying brain: Revelations from bed side ICU EEG monitoring*, e-poster presentation, 78th PostGraduate Assembly in Anesthesiology, New York, NY, USA, Dec 2024.
5. Joseph N, Zinn S, Sniecincki RM, **García PS**, *Clinical Investigation of Near-Infrared Spectroscopy for Detection of Spinal Cord Ischemia*, SNACC Annual meeting, September 2024, Denver, Colorado.
6. Dragovic S, **García PS**, Kratzer S, Ostertag J, Schneider G, Schwerin S, Sleight S, Kreuzer M, *Spectral Differences of Anaesthetic Agents: Addressing Old Problems with New Methods*, IARS Annual Meeting 2024, Seattle, WA, March 2025
7. **Pawar N**, Zhou S, Duarte K, Wise A, **García PS**, Kreuzer K, Barreto Chang O, *Intraoperative Burst Suppression by Analysis of Raw Electroencephalogram is a Strong Predictor of Postoperative Delirium in Older Adults*, ASA Annual Meeting, Philadelphia, October 2024.
8. Yasin B, Williams D, Troyas C, Harrison NL, Makinson C, **García PS**. *Modulation of AMPA receptors in the somatosensory cortex: a novel potential role in ketamine-induced unconsciousness*. ASA Annual Meeting, San Francisco, October 2023.
9. Troyas C, **García PS**, Yan J, Ahmed M. *Opioid-free Versus Opioid-inclusive Anesthesia: Effect on the Frontal EEG During Spinal Surgery*. SNACC Annual Meeting Alexandria, DC, Sep. 8-10, 2023.
10. Troyas C, **García PS**, Mansouri M, Graves M, Beatty N, Cassim T, Kreuzer M. *Elimination of Alpha-4 Subunit Containing GABA-A Receptors Induces Burst Suppression but Hastens Emergence during Propofol and Isoflurane Anesthesia*. SNACC Annual Meeting Alexandria, DC, Sep. 8-10, 2023.
11. Yasin B, Williams D, Troyas C, Harrison N, Makinson C, **García PS**. *Modulation of AMPA Receptors in the Somatosensory Cortex: A Novel Potential Role in Ketamine-induced Unconsciousness*. SNACC Annual Meeting Alexandria, DC, Sep. 8-10, 2023.
12. **García PS**, H. Sin, A. Mittel, M. Kreuzer, J Sleight. *Intraoperative Frontal Electroencephalogram Substitutes for Age ni Predictive Model of Post-Anesthesia Care Unit Delirium*. Euroanesthesia Annual Meeting. Glasgow, Scotland; June 2023. *Awarded as best abstract 1th place*
13. Beatty N, Mansouri M, Graves M, Yang G, **García PS**. *Brain Distribution of GABA(A) Receptor Subunits in Wild Type and gabra4 -/- Mice*. IARS 2023 Annual Meeting, Denver, CO, April 13-16 2023.
14. Daramola A, Yasin B, Cassim T, Isik O, **García PS**. *A Pilot Study of Incidence and Risk Factors Associated with Post-Anesthesia Care Unit Delirium*. IARS 2023 Annual Meeting, Denver, CO, April 13-16 2023.

15. Ahmed M, Daramola A, Troyas C, Isik O, Banerji A, Sleigh J, **García PS**. Evaluating Speech and Language in The Post-Anesthesia Care Unit; Implications for Perioperative Neurocognitive Disorders. IARS 2023 Annual Meeting, Denver, CO, April 13-16 2023.
16. Dragovic S, Schneider G, **García PS**, Hinzmann D, Sleigh J, Kratzer S, Kreuzer M. Predictors of Low Risk for Postoperative Neurocognitive Disorder during Anaesthesia Emergence. IARS 2023 Annual Meeting, Denver, CO, April 13-16 2023.
17. Isik O, Chauhan V, Chang B, Cassim T, Graves M, Ahmed M, **García PS**. Alternate Electrode Placement to Facilitate Frontal Electroencephalography Monitoring in Sedated, Critically Ill Patients. IARS 2023 Annual Meeting, Denver, CO, April 13-16 2023.
18. Troyas C, Ostertag J, **García PS**, Schneider G, Kreuzer M, Sleigh J. Changes in Directed Functional Connectivity in the Frontal Electroencephalographic Signals during Propofol-Induced Loss of Consciousness. IARS 2023 Annual Meeting, Denver, CO, April 13-16 2023.
19. Wiesinger C, Kreuzer M, **García PS**, Schneider G. Differences in Global Brain Activity During the Emergence of Anesthesia Between Patients With and Without Neurocognition Disorder. IARS 2023 Annual Meeting, Denver, CO, April 13-16 2023.
20. Chang B, Cassim T, Mittel AM, Brambrink A, **García PS**. Frontal EEG Findings in Critically-ill COVID-19 Patients: A Case-series. ASA Annual Meeting 2022, Oct 21 - 25, 2022 at New Orleans.
21. Chauhan V, Chang B, Cassim T, Rajan S, Graves M, **García PS**. Alternative Electrode Placement to Facilitate Abbreviated Frontal EEG Monitoring in Surgeries Involving the Head and Face. SNACC Annual Meeting Seattle, Washington September 8-10, 2022.
22. Graves M, Mansouri M, Cassim T, **García PS**. Consequences on Recovery from Anesthesia in Global GABA α 4 Knock-Out Mice. SNACC Annual Meeting Seattle, Washington September 8-10, 2022.
23. Daramola A, Yasin B, Cassim T, Isik O, **García PS**. Pilot Study of Post-Anesthesia Care Unit Delirium at Columbia University Medical Center. SNACC Annual Meeting Seattle, Washington September 8-10, 2022.
24. Mansouri M, Cassim T, Graves M, **García PS**. Aging delays emergence and recovery from general anesthesia in mice genetically modified to knockout the alpha-4 subunit of the GABA-A receptor. IARS 2022 Annual Meeting Honolulu, Hawaii, March 18-21, 2022.
25. Obert DP, Kratzer SA, Schneider G, von Dincklage F, **García PS**, Kreuzer M. Performance of the SedLine Monitor: Age dependency and time delay. IARS 2022 Annual Meeting Honolulu, Hawaii, March 18-21, 2022.
26. Taetow R, Obert DP, Kratzer SA, von Dincklage F, **García PS**, Schneider G, Kreuzer M. The impact of the EEG emergence trajectory on commercial indices monitoring the hypnotic component of anesthesia. IARS 2022 Annual Meeting Honolulu, Hawaii, March 18-21, 2022.
27. Rabbin-Birnbaum C, **García PS**, Kuo P, Jiang SY, Weiss A, Kandula P, Safavynia S. Electroencephalographic features in the cardiothoracic intensive care unit following intraoperative aminocaproic acid administration. IARS 2022 Annual Meeting Honolulu, Hawaii, March 18-21, 2022.
28. Chang BA, Cassim T, Kreuzer M, Mittel A, **García PS**. Inter-patient vs intra-patient variability in spectral EEG information during critical illness. IARS 2022 Annual Meeting Honolulu, Hawaii, March 18-21, 2022.

29. Kane ED, Garcia M, Mostafiz S, **García PS**. Hemodynamic safety of sub-anesthetic ketamine therapy in an out-of-hospital setting. IARS 2022 Annual Meeting Honolulu, Hawaii, March 18-21, 2022.
30. Chang BA, Cassim T, Goldstein E, Navare SR, Wanar H, Kreuzer M, Mittel A, **García PS**. Feasibility of Remote EEG Neuromonitoring in the ICU. The 2021 IARS Annual Meetings were held virtually on May 13-16, 2021
31. Mansouri MT, **García PS**. Repetitive Anodal Transcranial Direct Current Stimulation Hastens Isoflurane-Induced Emergence, Recovery and Enhances Memory in Healthy Rats. Society for Neuroscience Annual Meeting. Poster Presentation. Chicago, Illinois; October 2019.
32. Naus C, **García PS**. Can't Intubate Can't Ventilate After a Ground Level Fall. American Society of Anesthesiologists Annual Meeting. Orlando, FL; October 2019
33. Safavynia SA, Burke SC, Korb PJ, Gebhardt E, Weiss P, Haider HA, Rodriguez-Ruiz A, LaRoche SM, Levy JH, **García PS**. When is continuous EEG monitoring indicated in the CT-ICU? Postsurgical cardiothoracic patients receiving tranexamic acid are at increased risk for interictal epileptiform discharges, which confer increased seizure risk and poor outcome. Society for Neuroscience in Anesthesiology and Critical Care Annual Meeting. Phoenix, Arizona; September 2019.
34. Obert D, Berger S, **García PS**, Sleigh JW, Schneider G, Kreuzer M. Optimizing the visual detection of EEG alpha oscillations in the perioperative setting. IARS 2019 Montreal Canada, May 2019
35. Schwerin S, Kratzer S, **García PS**, Kreuzer M, Schneider G, Haseneder R. The Volatile Anesthetic Sevoflurane Enhances GABAA Receptor-Mediated Phasic And Tonic Inhibition Of Mouse Thalamocortical Relay Neurons. German Anesthesiology Congress (DAC), Berlin, Germany April 2018.
36. Kreuzer M, Keating G, Sinon C, Rye D, Cohen RM, **García PS***. Isoflurane Exposure Affects Sleep Architecture in a Rat Model of Alzheimer's Disease. American Society of Anesthesiologists Annual Meeting. Boston, MA; October 2017.
37. **García PS***, Mees L, Fidler J, Fu S, Pardue M. Emergence And Recovery From Ketamine-Xylazine Anesthesia Using Alpha2 Receptor Antagonists. American Society of Anesthesiologists Annual Meeting. Boston, MA; October 2017.
38. **García PS***, Hesse S, Kreuzer M, Hight D, Sleigh JW, Frontal EEG Information Can Substitute For Age In A Predictive Model For Delirium In The Post Anesthesia Care Unit. International Anesthesia Research Society Annual Meeting and International Science Symposium. Poster Presentation. IARS 2017 Washington DC, May 2017
39. Kreuzer M, Hesse S, Kreuzer M, Hight D, Sleigh JW, **García PS***. Weak EEG alpha power during General Anesthesia as a marker of Delirium in the PACU, International Anesthesia Research Society Annual Meeting, Washington DC; May 2017
40. Fidler J, Jamal YA, Shapiro LA, **García PS***. Flumazenil, a GABA antagonist, delays return of righting reflex in mice after isoflurane anesthesia but does not significantly alter dendritic spine density Society for Neuroscience Annual Meeting. Poster Presentation. San Diego, CA; November 2016.
41. Spiegel I, Fidler J, Ma C, Hesse S, Bichler EK, Gooch JL, **García PS***. Behavioral Effects of Chronic Calcineurin Inhibition are not Mediated by Changes in GABA(A) Receptor Expression Levels. Society for Neuroscience Annual Meeting. Poster Presentation. San Diego, CA; November 2016.
42. Hamilton A, **García PS***. Use of Flumazenil to Rapidly Reverse PACU Delirium: Beyond Benzodiazepine Emergencies. American Society of Anesthesiologists Annual Meeting. Medically Challenging Cases Poster Presentation. Chicago, IL; October 2016.

43. Kratzer S, **García PS**, Kreuzer M, Kochs E, Hasender R. Sevoflurane Dose-dependently Reduces the Cortical Contribution in the Initiation of Up-states. American Society of Anesthesiologists Annual Meeting. Chicago, IL; October 2016.
44. **García PS***, Hesse S, Hight D, Kreuzer M, Gaskell A, Lee S, Taylor N, Davari P, Whalin MK, Sleight JW, Delirium in the Post-Anesthesia Care Unit: Risk Factors and Clinical Significance American Society of Anesthesiologists Annual Meeting. Chicago, IL; October 2016.
45. Hemani S, Hesse S, Kreuzer M, Hill LH, **García PS***, Walking Speed as a Predictor of Length of Stay in a High-Risk Surgical Population American Society of Anesthesiologists Annual Meeting. Chicago, IL; October 2016.
46. Kreuzer M, Yang E, Davari P, Hesse S, Lee SC, **García PS***. Infrared Pupillometry During Postoperative Care is a Useful Tool to Detect and Predict Hypoactive Delirium. American Society of Anesthesiologists Annual Meeting. Chicago, IL; October 2016.
47. Kratzer S, Kreuzer M, **García PS**, Kochs E, Haseneder R, Adelsberger H. The appearance of synchronous calcium waves the thalamus and cortex at sevoflurane-induced loss of consciousness. Society for Neuroscience in Anesthesiology and Critical Care Annual Meeting. Chicago, IL; October 2016.
48. Spiegel I, Fidler J, Hesse S, Gooch JL, **García PS***. Chronic Calcineurin Inhibition Impairs Visuospatial Learning Performance After Isoflurane Anesthesia Society for Neuroscience in Anesthesiology and Critical Care Annual Meeting. Chicago, IL; October 2016.
49. Hesse S, **García PS**, Hight D, Kreuzer M, Gaskell A, Lee S, Taylor N, Davari P, Whalin MK, Sleight JW, Delirium in the Post-Anesthesia Care Unit: Risk Factors and Clinical Significance Society for Neuroscience in Anesthesiology and Critical Care Annual Meeting. Chicago, IL; October 2016.
50. Kreuzer M, Yang E, Davari P, Hesse S, Lee SC, **García PS*** Infrared Pupillometry During Postoperative Care is a Useful Tool to Detect and Predict Hypoactive Delirium Society for Neuroscience in Anesthesiology and Critical Care Annual Meeting. Chicago, IL; October 2016.
51. Safavynia SA, Keating G, Spiegel I, Fidler J, Kreuzer M, Rye DB, Jenkins A, **García PS***. The effects of GABAA receptor modulation by flumazenil on emergence from general anesthesia 69th Post Graduate Assembly of the New York State Society of Anesthesiologists. Poster Presentation. New York, New York; December 2015
52. Yang E, Kreuzer M, Davari P, Lee SC, **García PS***. Pupillometry can be used for early detection of postoperative nausea. 69th Post Graduate Assembly of the New York State Society of Anesthesiologists. Poster Presentation. New York, New York; December 2015
53. Whalin MK, Riso M, Hesse S, Kreuzer M, **García PS***. Quantitative EEG analysis and anesthetic management of a patient with multiple episodes of PACU delirium. Society for Neuroscience in Anesthesia and Critical Care Annual Meeting. Poster Presentation. San Diego, California; October 2015.
54. Hesse S, Singh D, Hight D, Pitre NC, Kreuzer M, Sleight JW, **García PS***. Predictors of Delirium in the Immediate Postoperative Period in Surgical Patients Receiving General Anesthesia at Two Sites: a Prospective Cohort Study. Society for Neuroscience in Anesthesia and Critical Care Annual Meeting. Poster Presentation. San Diego, California; October 2015.
55. Safavynia SA, Keating G, Spiegel I, Fidler J, Kreuzer M, Rye DB, Jenkins A, **García PS***. The effects of GABAA receptor modulation by flumazenil on emergence from general anesthesia, American Society of Anesthesiologists Annual Meeting. Poster Presentation. San Diego, CA; October 2015.
56. Kreuzer M, Kratzer S, Rammes G, Kochs EF, **García PS**, Haseneder R. Xenon Affects the Thalamic Input in Cortical Layer IV and Attenuates Cortical Processing in Layer II/III: A VSDI In Vitro Study American Society of Anesthesiologists Annual Meeting. Poster Presentation. San Diego, CA; October 2015.

57. Xu Q, Spiegel I, Jenkins A, **García PS***. Flumazenil Influences Post-synaptic GABA(A) Receptor Expression Through Compensation for Increased Excitability. American Society of Anesthesiologists Annual Meeting. Poster Presentation. San Diego, CA; October 2015.
58. Whalin MK, Kreuzer M, Hesse S, Riso MA, **García PS***. Anesthetic Management of a Patient With Multiple Prior Episodes of PACU Delirium. American Society of Anesthesiologists Annual Meeting. Poster Presentation. San Diego, CA; October 2015.
59. Yang E, Kreuzer M, Davari P, Lee SC, **García PS***. Pupillometry can be used for early detection of postoperative delirium. American Society of Anesthesiologists Annual Meeting. Poster Presentation. San Diego, CA; October 2015.
60. Spiegel I, Xu Q, Ciavatta VT, Jenkins A, **García PS***. Flumazenil alters GABAergic neurotransmission via direct channel modulation and changes in post-synaptic protein expression. Society for Neuroscience Annual Meeting. Poster Presentation. Program No. 477.14. A90. Chicago, Illinois; October 2015.
61. Ciavatta VT, Cron CC, Teng S, Tyor WR, **García PS***. Investigating In vitro neurotoxicity of antiretroviral agents. Society for Neuroscience Annual Meeting. Poster Presentation. Program No.692.11. L34. Chicago, Illinois; October 2015.
62. Bichler EK, Cron CC, **García PS***. Clarithromycin Increases Neuronal Excitability by Reducing GABA-ergic Signaling Modulation of Neuronal Firing Properties. Society for Neuroscience Annual Meeting. Poster Presentation. Program No.672.06. C39. Chicago, Illinois; October 2015.
63. Fidler J, Rha J, Jones SK, Corbett AH, **García PS***. Cognitive dysfunction in a Novel Knockout Mouse Model of ZC3H14 Learning and Memory. Society for Neuroscience Annual Meeting. Poster Presentation. Program No.536.10. BB42. Chicago, Illinois; October 2015.
64. Vaughan CH, Keating GL, Guillot TS, Rogers A, **García PS**, Miller GW, Rye DB, Willie JT. Preliminary characterization of sleep-wake behavior and locomotor activity in the VMAT2 deficient mouse model of Parkinson's disease. Sleep, 38 (Suppl), A38. SLEEP meeting, Seattle, WA, June 2015.
65. **García PS***, Fidler J. A Predictable Sequence Of Brain Stem Network Reactivation In Rodents Anesthetized With Either Propofol Or Isoflurane. Association of University Anesthesiologists Annual Meeting. Poster Presentation. Nashville, Tennessee; April 2015.
66. **García PS***, Fidler J, Murlin EB, Nash A, Trotti LM, Rye DB, Jenkins A. GABA(A) Receptor Antagonism By The Macrolide Antibiotic, Clarithromycin Mediates Excitation Of The Hippocampus, But Does Not Hasten Emergence In A Rodent Model Of Emergence From General Anesthesia. International Anesthesia Research Society Annual Meeting and International Science Symposium. Poster Presentation. IARS 2015 Honolulu, Hawaii; March 2015.
67. **García PS***, Keating GL, Fidler JA, Burke SC, Raymond BL, Safavynia SA, Baber SR, Karlapalem C, Rye DB, Jenkins A. The Benzodiazepine Antagonist, Flumazenil, Mitigates Post-Anesthesia Effects Of Isoflurane By Improving Vigilance In A Rat Model. International Anesthesia Research Society Annual Meeting and International Science Symposium. IARS 2014 Poster Presentation. Montreal, Canada; May 2014.
68. Korb P, Ehrenberg A, Arif H, Al Kasab S, Cholleti S, Kandiah P, Rudzinski L, **García PS**, LaRoche S. Use of Bispectral Index in monitoring depth of sedation in the Neuro-ICU: correlation with quantitative EEG. American Epilepsy Society Annual Meeting, Poster Presentation, Washington D.C.; December 2013.
69. Ma C, Fidler JA, Gooch JL, **García PS***. Chronic Calcineurin Inhibition Impairs Both Recovery from Isoflurane Anesthesia and Visuospatial Learning Performance. 67th Post Graduate Assembly of the New York State Society of Anesthesiologists. Poster Presentation. New York, New York; December 2013.

70. Fidler J, Raymond BL, Burke SC, Baber S, Karlapalem C, **García PS***. The benzodiazepine antagonist, flumazenil, mitigates the post-anesthesia effects of the inhaled anesthetic, isoflurane. Program no. 580.21, Poster Presentation, Society for Neuroscience Annual Meeting, San Diego, CA; November 2013.
71. Sleigh J, Chander D, **García PS**, Sanders R. Variations in EEG Pattern During Emergence From General Anesthesia. Society for Neuroscience in Anesthesia and Critical Care Annual Meeting. Poster Presentation, Washington, DC; October 2012.
72. **García PS***, Fidler J. A Dual Effect of Isoflurane on Circulating Levels of Thrombin in a Rodent Model of Anesthesia. American Society of Anesthesiologists Annual Meeting. Poster Presentation. Washington, DC; October 2012.
73. Woodbury A, Yu SP, Wei L, **García PS***. Neonatal Pain and Neuro-Psychiatric Disorders: Honokiol for Prevention and Treatment. American Society of Anesthesiologists Annual Meeting. Oral Presentation. Washington, DC; October 2012.
74. Trotti LM, Stout AK, Saini P, Freeman A, Jenkins A, **García PS**, Rye DB. Clarithromycin Reduces Sleepiness and Improves Vigilance in Patients with Central Nervous System Hypersomnias. Sleep Meeting. Boston, Massachusetts June 2012.
75. Burke SC, Fidler J, **García PS***. GABA Antagonists As Potential Reversal Agents for General Anesthesia. 65th Post Graduate Assembly of the New York State Society of Anesthesiologists Poster Presentation. New York, New York; December 2011.
76. Woodbury A, Maddi M, Fidler J, Fritz-French C, Tyor WR, **García PS***. An Optimal Thrombin Concentration Preserves Dendritic Branching in Cortical Neuron Cultures. American Society of Anesthesiologists Annual Meeting. Poster Presentation. Chicago, Illinois; October 2011.
77. Thaler AM, Siry R, Cai L, **García PS**, Chen L, Liu R. Memory Loss, Alzheimer's Disease and General Anesthesia: Scientific Evidence vs Public Concern. American Society of Anesthesiologists Annual Meeting. Poster Presentation. Chicago, Illinois; October 2011.
78. Rye DB, Parker K, Trotti LM, **García PS**, Ritchie JC, Owens MJ, Morrow L, Bliwise DL, Jenkins A. Endogenous GABA(A) Receptor Enhancement Modulates Vigilance in the Primary Hypersomnias. American Association of Neurologists Annual Meeting. Oral Presentation, Honolulu, Hawaii; April 2011.
79. **García PS**, Jenkins A. Inhibition of the GABA(A) Receptor by a Macrolide but not by a Lincosamide Antibiotic. American Society of Anesthesiologists Annual Meeting Annual Meeting. Oral Presentation; New Orleans, Louisiana; October 2009.
80. **García PS**, Bell S, Jenkins A. A Conserved H-Bond Donor in the GABA(A) Receptor $\beta 2$ subunit of the M4 segment Controls Propofol Sensitivity. 62nd Post Graduate Assembly of the New York State Society of Anesthesiologists. Poster Presentation; New York, New York; December 2008.
81. Wright TM, Cunningham IR, **García PS**, Norris BJ, AA Wenning and RL Calabrese. The contribution of motor neurons to the elaboration of the fictive heartbeat motor pattern of the leech: Experimental and computational approaches. Program No. 925.9, Poster Presentation, San Diego, CA: Society for Neuroscience Annual Meeting, November 2007.
82. **García PS**, Bell S, Jenkins A. A Conserved H-Bond Donor in the GABA(A) Receptor $\beta 2$ subunit of the M4 Segment Confers Propofol Sensitivity. American Society of Anesthesiologists Annual Meeting. Poster Presentation, San Francisco, California; October 2007.
83. Calabrese RL, **García PS**, Norris BJ, Wright TM. Modeling the output of a central pattern generator. Computational Neuroscience Meeting, Oral Presentation. Toronto, Canada; July 2007
84. Jenkins A, García PA, Derry JMC. A Conserved Isoleucine Residue in the GABA(A) Receptor Determines Direct Activation by Pregnanolone. American Society of Anesthesiologists Annual Meeting, Poster Presentation, Chicago, Illinois; October 2006.

85. Csete ME, **García P**, Alvarez A, Kambadur R. Myostatin levels in liver transplant patients. International Liver Transplant Society Annual Meeting, Poster Presentation, Chicago, Illinois; May 2006.
86. **García PS**, O'Leary T, Bell S, Jenkins A. Multiple Actions of Propofol on Cerebellar Purkinje Neurons. American Society of Anesthesiologists Annual Meeting. Poster Presentation, Atlanta, Georgia; October 2005.
87. **García PS**, Calabrese RL. (2004) A Model of Intersegmental Coordination with Leech Heart Motor Neurons. SouthEast Nerve Net (SENN) Annual Meeting, Atlanta, Georgia; July 2004. Vol. 20, 9.
88. **García PS**, Calabrese RL. An Experimentally-Based Model of Intersegmental Coordination in Heart Motor Neurons of the Leech. Program No. 605.11. Poster Presentation, New Orleans, LA: Society for Neuroscience Annual Meeting, November 2003.
89. **García PS**, Butera RJ, Calabrese RL. A Conductance-Based Model of the Heart Motor Neuron Network in the Medicinal Leech. Biomedical Engineering Society Annual Fall Meeting, Nashville, Tennessee. Poster Presentation; October 2003.
90. **García PS**, Sinha S, Ditto WL. Regulation of Neuronal Firing Frequencies with Real-time Feedback Control. Program No. 730.23. Poster Presentation, San Diego, CA: Society for Neuroscience Annual Meeting, November 2001.
91. Breen BJ, **García PS**, Furman MD, Lindner J, Ditto W. (2001) Dynamics of Hybrid Electronic-Neuronal Systems. APS Meeting Abstracts 1, Seattle, Washington; March 2001. 23011
92. **García PS**, Calabrese RL, Ellis RT, DeWeerth SP, Ditto W. (2001) Computing with Neuronal Dynamics. APS Meeting Abstracts 1, Seattle, Washington; March 2001. 23007
93. **García PS**, Ellis RT, Calabrese RL, DeWeerth SD, Ditto WL. Computing with Neuronal Dynamics. Program No. 591.10. Oral Presentation, New Orleans, LA: Society for Neuroscience Annual Meeting, November 2000.

Case Reports

1. Barroso A, Torres-Díaz MV, **García PS**. Profound and Sustained Electroencephalographic Silence During Hemicolectomy Guided by the Electroencephalogram: A Case Report. *A A Pract.* 2026 Jan 14;20(1):e02146. PMID: 41533001.
2. Zinn S, Dragovic SZ, Klocka JA, Willems LM, Harder S, Kratzer S, Zacharowski KD, Schneider G, **García PS**, Kreuzer M. Parametrization of the dying brain: A case report from ICU bed-side EEG monitoring. *Neuroimage.* 2025 Jan;305:120980. PMID: 39701335.
3. Kreuzer M, Whalin MK, Hesse S, Riso MA, **García PS***. Anesthetic Management of a Patient with Multiple Prior Episodes of PACU Delirium A & A Case Rep. Mar 1. PMID: 2825254.
4. Whalin MK, Kreuzer M, Halenda K, **García PS***. Missed Opportunities for Intervention in a Patient with Prolonged Postoperative Delirium. *Clinical Therapeutics* Dec1;37(12):2706-10. PMID: 26492795.

Letters to the Editor

1. Kreuzer M, Schneider G, **García PS***. Response to Peterson et al., The Input Is Reflected in the Output: Evaluating Neurophysiological Monitors With Simulated Data. *Anesth Analg.* Apr 17 12(4). PMID: 28319506.
2. Kreuzer M, **García PS**, Gutierrez R, Purdon PL. For EEG-Guided Anesthesia, We Have to Go Beyond the Index. *Anesth Analg.* 2024 Sep 1;139(3):e21-e22. Epub 2024 Aug 16. PMID: 38885144.

Paul S. García, M.D., Ph.D. (CV)

3. Kreuzer M, Schneider G, **García PS**. Using Spectral Edge Frequency to Target Equivalent Brain States Under General Anesthesia Is Like Asking for Apples and Getting Oranges. *Anesthesia and Analgesia*. 2023 Dec 1;137(6):e49-e50. Epub 2023 Nov 16. PMID: 37973136.
4. Kreuzer M, Schneider G, **García PS**. The Input Is Reflected in the Output: Evaluating Neurophysiologic Monitors With Simulated Data. *Anesth Analg*. 2017 May;124(5):1734-1735. PubMed PMID: 28319506.
5. Safavynia SA, Keating G, Spiegel I, Fidler JA, Kreuzer M, Rye DB, Jenkins A, **García PS***. In Reply. *Anesthesiology*. 2017 Feb;126(2):352-353. PubMed PMID: 28098616.
6. **García PS***. Safavynia SA, Keating G, Spiegel I, Fidler J, Kreuzer M, Rye DB, Jenkins, A. Response to Letter to Editor *Anesthesiology* Feb;126(2):352-353. PMID: 28098616.

Other Media contributions

Published Abstracts and Conference Proceedings (Peer-Reviewed)

1. Korb P, **García PS**, Levy JH, Demma L, Brown GF, LaRoche S.(2011). Tranexamic acid and post-operative seizures. *Epilepsy Currents*, December 2011. Volume 12: Supplement 1.
2. Calabrese RL, **García PS**, Norris BJ, Wright TM. (2007). Modeling the output of a central pattern generator. *BMC Neuroscience*, Toronto, Canada; July 2007 Volume 8: Supplemental 2:1
3. Csete ME, **García P**, Alvarez A, Kambadur R. (2006) Myostatin levels in liver transplant patients. *LIVER TRANSPLANTATION*, May; 12(5), C121.
4. **García PS**, Calabrese RL, DeWeerth SP, Ditto W. (2003). Simple Arithmetic with Firing Rate Encoding in Leech Neurons: Simulation and Experiment. *Proceedings of the XXVI Australian Computer Science Conference*, Adelaide Australia; February 2003. Volume 16, 55-60.
5. **García PS***, (2013) The Genome Generation by Elizabeth Finkel, PhD, reviewed in *Anesthesia and Analgesia* 2013 116;(6):1395, Book Review, *not peer-reviewed*.

Thesis

1. **García, P.A.** (2004). Modeling the Intersegmental Coordination of Heart Motor Neurons in the Medicinal Leech (Doctoral dissertation). Retrieved (online) from Georgia Tech Theses and Dissertations [20598] .
2. **García, P.A.** (1996). A Quantitative Approach to the Study of Depression of Neurotransmitter Release (Honors Thesis) University of Florida, Gainesville, Florida, USA.

Other Non-Peer Reviewed Publications in Print or Other Media

1. Featured Alumni, Georgia Institute of Technology Alumni Magazine, Spring 2020.
2. Featured Alumni, Foundation for Anesthesia Education and Research (FAER) website, annual fund, ASA posters, 2016 – 2017.
3. Founder, Contributor of Emory University School of Medicine, Department of Anesthesiology's Twitter feed: "EmoryAnesth". 2016.
4. Radio appearance: Georgia Radio Reading Service. Interview about "Anesthesia for Elderly Veterans"; November 2013.

Other Non-Peer Reviewed Publications in Print or Other Media

Paul S. García, M.D., Ph.D. (CV)

1. The Underground Guide to Anesthesiology: A Pocket Primer for Medical Students. Edited by **García PS**, and the Crawford Long Society Emory University School of Medicine Class of 2012. Distributed locally to rotating medical students.

Non-authored Publications (News Organizations and Other Media)

1. Featured Research, Euroanesthesia Video Podcast. EA2023 Best Abstract Prize Competition- Interview with the winner. <https://www.youtube.com/watch?v=4nFs4Aljtuk> (last accessed July 24, 2024).
2. Featured Scientist Nautilus online magazine "Under Anesthesia where do our minds go?" June 2022 <https://nautil.us/under-anesthesia-where-do-our-minds-go-238501/> (last accessed July 24, 2024).
3. COVID-19 Virtual Symposium, Columbia Zuckermann Institute; "Frontal electroencephalographic features to aid in sedation for mechanical ventilation during coronavirus pandemic" April 15, 2020; <https://www.youtube.com/watch?v=9yY6RzvCM5w> (last accessed July 24, 2024).
4. Expert Opinion via Phone Interview for Anesthesiology News magazine: Comment on recent published results on the "Intraoperative Opioids"; Article published in November 2019 issue of Anesthesiology News Vol. 45(11) p.8.
5. Expert Opinion on propofol safety "The Best Medicine" for Modern Luxury magazine: March Issue, 2018. https://digital.modernluxury.com/publication/?i=479953&ver=html5&p=22#{%22page%22:%2222%22,%22issue_id%22:479953}; (last accessed July 24, 2024).
6. Expert Opinion via Phone Interview for Anesthesiology News magazine: Comment on recent published results on the "Safety and Efficacy of Serotonin Receptor Antagonists"; Article published in September 2015 issue of Anesthesiology News Vol. 41(9) p.8.
7. "Gabbing about GABA". Featured web coverage of Society for Neuroscience Posters from Emory News. (First online October 2015; last accessed July 24, 2024) http://www.emoryhealthsciblog.com/gabbing-about-gaba-implications-for-hypersomnia-treatments/?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+Emory+HealthNowBlog+%28Lab+Land%29.
8. "Educational Resources in Neuroanesthesiology". Invited Contributor to American Society of Anesthesiologists Newsletter. Vol. 79(9) pp.54-7; September 2015.
9. "Biological Computer Born". BBC News. <http://news.bbc.co.uk/2/hi/sci/tech/358822.stm> (first online June 1999; last accessed July 24, 2024). Research also featured on an episode of the BBC television program: "Tomorrow's World".
10. "US Scientists build brainy leech computer". ZDNet News. <http://www.zdnet.com/article/us-scientists-build-brainy-leech-computer/> (first online June 1999; July 24, 2024)
11. "Emory-Georgia Tech make world's first 'leech-ulator'. Emory Report. (https://www.emory.edu/EMORY_REPORT/erarchive/1999/September/erseptember.27/9_27_99leech.html ; first online September 1999; last accessed July 24, 2024). Other interviews on this work were given to Business Week, ABC News, and Creative Loafing.

17) Invited and/or Peer-Selected Presentations:

Local/Institutional/Regional Invited Lectures

1. "Sleep, Anesthesia, and Pain: Thalamocortical Control of Consciousness under Surgical Stress" Visiting Professor / Grand Rounds Speaker, Mayo Clinic Scottsdale, AZ; 2/23/2026
2. "Fragile Rhythms: Frontal Alpha, Brain Vulnerability, and the Neurophysiology of Anesthesia, Pain, & Delirium " Visiting Professor / Grand Rounds Speaker, Mass General Brigham, Boston, MA; 2/4/2026
3. "Monitoring Depth of Anesthesia (DOA) Using EEG Improves Patient Safety: A Pro-con Debate" 79th PGA of the New York State Society of Anesthesiologists, New York, New York; 12/13/2025.
4. "Reading Your Patients' Mind Under Anesthesia: EEG Made Easy-Workshop for the Curious" 79th PGA of the New York State Society of Anesthesiologists, New York, New York; 12/14/2025.
5. "An Update on Postoperative Delirium" 79th PGA of the New York State Society of Anesthesiologists, New York, New York; 12/15/2025.
6. "Unruly in the PACU/Recovery Room: Managing the Agitated Neurosurgical Patient" NACCS CPD Webinar, Edinburgh, Scotland. 11/14/2025.
7. "EEG & Sedline Clinical Application" Columbia University Irving Medical Center, Department of Anesthesiology Grand Rounds. 10/23/2025.
8. "Post-Operative Delirium and EEG: Insights into Emergence and Cognitive Outcomes", University of Colorado Anschutz Medical School Grand Rounds, 9/29/2025.
9. "Age-Related Changes in Intraoperative EEG Monitoring", Northwestern University, Department of Anesthesiology Grand Rounds, 9/19/2025.
10. "Beyond the Index: Unveiling the Nuances of EEG for Personalized Anesthesia Management", Yale University, Department of Anesthesiology Grand Rounds, 9/06/2024.
11. "Intraoperative Neuromonitoring: The Promise of EEG", 77th PGA of the New York State Society of Anesthesiologists, New York, New York; 12/08/2023.
12. "The Experts Opine", Featured Panelist, CUIMC Department of Anesthesiology Grand Rounds, 9/19/2019.
13. "The Woke Experience", Featured Researcher, CUIMC Department of Anesthesiology Research Retreat, 3/30/2019.
14. "Investigating Emergence and Recovery from General Anesthesia", Presenter, CUIMC Department of Anesthesiology Grand Rounds, 1/31/2019.
15. "Emergence and Recovery after Neurosurgery", Presenter, CUIMC Department of Neurosurgery Grand Rounds, 11/15/2018.
16. "EEG Features for Clinical Anesthesiologists" Emory University Orthopedics and Spine Hospital; Morning Seminar Series, 4/18/2017.
17. "The role of GABA in cortical and subcortical networks that mediate transitions to wakefulness" Emory University Neuroscience Program; Frontiers in Neuroscience Seminar Series; 4/15/2016
18. "Neurotoxic effects of Antiretroviral Agents", Atlanta VA Medical Center, Research Staff Meeting; 8/5/2015.
19. "What can sleep tell us about safe surgery?", Departments of Chemistry, Biology, and Psychology, Morehouse College, Atlanta, Georgia; 2/3/2015.
20. "Delirium for the Clinical Anesthesiologist: Incidence, Types, and Cost." Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 4/28/2015.
21. "EEG variation During Maintenance And Emergence From Surgical Anaesthesia" Emory University School of Medicine, Grand Rounds, Department of Neurosurgery; 12/8/2014

22. "EEG variation During Maintenance And Emergence From Surgical Anaesthesia", Atlanta VA Medical Center, Anesthesiology Division, Educational Lecture Series; 9/25/2014.
23. "Update on ACCESS Group." Atlanta VA Medical Center, Anesthesiology Division, Educational Lecture Series; 10/3/2013.
24. "Post-Operative Delirium: Diagnosis, Treatment, Prevention, and Pharmacoeconomics", Northside Hospital Anesthesia Conference, Atlanta, Georgia; 8/12/2013.
25. "Post-Operative Delirium and Recovery from General Anesthesia", Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 12/4/2012.
26. "Anesthesia Considerations for the Geriatric Patient", Emory University School of Medicine, Geriatrics and Gerontology Research Seminar; 5/14/2012.
27. "Negative modulators of the GABA(A) receptor in a rodent model of emergence from general anesthesia", Atlanta VA Medical Center, Research Staff Meeting; 5/2/2012.
28. "GABA antagonists and their potential role in reversal of general anesthesia", IEEE / Engineering in Medicine and Biology Society (EMBS), Atlanta Chapter Special Lecture. Atlanta, Georgia; 4/21/2011.
29. "How to Review a Journal Article", Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 9/21/2010.
30. "Inhibition of the GABA(A) Receptor by a Macrolide but not by a Lincosamide Antibiotic" Georgia Society of Anesthesiologists, Winter Meeting, Peachtree City, Georgia; 1/23/2010.
31. "Post-Operative Cognitive Dysfunction", Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 9/25/2008.
32. "New Insights into Propofol Mechanisms" Georgia Society of Anesthesiologists, Winter Meeting, Stone Mountain, Georgia; 1/19/2008.
33. "Walking, Breathing, and Chewing Gum: Modeling the Heartbeat Of The Leech To Study Rhythmic Motor Patterns", Anesthesiology Research Seminar, Emory University School of Medicine; 8/10/2004.

National / International Invited Lectures

- 1.
2. "Innovations on EEG Interpretation and Clinical Assessment of Anesthesia Quality via the Interactions Between Nociception, Hemodynamic Responses, and Brain States", ASA, San Antonio, TX; 10/12/2025.
3. "EEG Monitoring", SNACC Annual meeting, 9/12/2025, Atlanta, Georgia.
4. "Innovations in Neuroanesthesia", SNACC Annual meeting, 9/13/2025, Atlanta, Georgia.
5. "Abandoning BISology in high-risk patients" Electroencephalography In Perioperative Medicine - Co-sponsored by Society for Neuroscience in Anesthesiology and Critical Care (SNACC) IARS Meeting 2025, Honolulu, Hawaii, 03/23/2025.
6. "SBI Research Group's EEG Bootcamp" IARS Meeting 2025, Honolulu, Hawaii, 03/22/2025.
7. "Receptor Antagonists & Behavioral Assessment of Anesthetic Emergence and Recovery" Facilitating Anesthetic Emergence and Recovery: Update on Mechanisms and Clinical Applications IARS Meeting 2025, Honolulu, Hawaii, 03/21/2025.
8. "Beyond the Index: Unveiling the Nuances of EEG for Personalized Anesthesia Management", (ISNACC), Kerala, India, 01/15/2025.

9. "SBI Research Group's EEG Bootcamp" for Anesthesia global consortium meeting, ESAIC Meeting 2024, TU Munich, 6/7/2024.
10. "ICPNT Master Class Track E: EEG Monitoring", SNACC Annual meeting, 9/12/2024, Denver, Colorado.
11. "Modifying Our Own Processing of Intraoperative EEG", ASA Annual Meeting, Philadelphia, Pennsylvania; 10/20/2024.
12. "The EEG as a Window to the Sedated Brain", ACNS Annual Meeting, Orlando, Florida, 2/2/2024.
13. "Intraoperative frontal EEG Workshop: Troubleshooting and Knobology", Workshop, SNACC 51th Annual Meeting, Alexandria, Virginia, 9/8/2023.
14. "Pro-con Debate: Is Anesthetic Depth a Useful Concept?", SNACC 51th Annual Meeting, Alexandria, Virginia, 9/9/2023.
15. "Established and Emerging Indications for Intraoperative EEG Monitoring", American Society of Anesthesiology, Annual Meeting, San Francisco, 10/15/2023.
16. "Inducing Emergence from General Anesthesia with Flumazenil and Atipamezole", IARS 2022 Annual Meeting Honolulu, Hawaii, 3/20/2022.
17. "The Eyes Have It - The Role of Pupillometry in Brain Monitoring", ASA Annual Meeting, Philadelphia, Pennsylvania; 10/20/2021.
18. "Interrogating state changes: sleep and anesthesia", JSMF Annual Meeting on Functional Metabolism Everything in (Neuro)Modulation, Tarrytown, NY; 11/8/2019.
19. "Pro: Every Anesthetic Should Include EEG Monitoring", Pro-Con Debate, SNACC 47th Annual Meeting, Phoenix, Arizona; 9/14/2019.
20. "Monitoring the Nervous System", American Clinical Neurophysiology Society Fall Meeting, Atlanta, Georgia; 9/21/2019.
21. "Rethinking Emergence and Recovery from General Anesthesia", Lecturer for the Annual Alpert Lecture for George Washington University's Department of Anesthesiology, Academic Evening; 5/23/19.
22. "Delirium in the PACU: What does it mean for patient safety", Invited Lecture at IARS Annual Meeting, Montreal, Canada; 5/20/2019.
23. "Monitoring the Nervous System During Surgery. What an Anesthesiologist needs to know", Concepts in Anesthesiology, Steamboat Springs, Colorado; 2/5/2019.
24. "Delirium for the Clinical Anesthesiologist: Incidence, Types, and Cost", Concepts in Anesthesiology, Steamboat Springs, Colorado; 2/6/2019.
25. "What Can Sleep Tell Us About Safely Administering Anesthesia for Surgery", Concepts in Anesthesiology, Steamboat Springs, Colorado; 2/7/2019.
26. "Anesthesia Considerations for the Geriatric Patient", Concepts in Anesthesiology, Steamboat Springs, Colorado; 2/08/2019.
27. "Glutamate, GABA and disruptions in anesthetic unconsciousness", JSMF Annual Meeting on Functional Metabolism, Glutamate/GABA and Brain Health: It's More Than a Balancing Act Tarrytown, NY 11/2/2018.
28. "Reversal of General Anesthesia with GABA Antagonists", Invited Lecture at the Indian Society for Neuroscience in Anesthesia and Critical Care (ISNACC), Mumbai, India, January 2018.
29. "Using EEG to Improve Perioperative Outcomes", Invited SNACC Lecture at the Indian Society for Neuroscience in Anesthesia and Critical Care (ISNACC), Mumbai, India, January 2018.

30. "Clinical EEG phenotypes and emergence trajectories related to delirium and pain", Society for Neuroscience in Anesthesia and Clinical Care Special Session, American Society of Anesthesiology, Annual Meeting, Boston, 2017.
31. "The Effects of Flumazenil on Recovery after General Anesthesia: Insights from Sleep Disorders", Invited Lecture in Reshaping Anesthesia through Neuroscience, American Society of Anesthesiology, Annual Meeting, Boston, 2017.
32. "Insights on an Academic Clinical Career in Anesthesiology", Invited Lecture in Mentoring Session, Foundation for Anesthesiology Education and Research, American Society of Anesthesiology, Annual Meeting, Boston, 2017.
33. "What can sleep tell us about the brain during surgical anesthesia?", University of Innsbruck, Department of Pharmacology, Innsbruck, Austria, 6/27/2017.
34. "Can We Predict PACU Delirium from Intraoperative EEG?", Technical University Munich, Anesthesiology Department, Munich, Germany, 6/23/2017.
35. "The role of GABA antagonism in wakefulness" Harborview Medical Center, Seattle, WA, Anesthesiology Department Morning Lecture, 6/1/2017.
36. "Delirium in the Post-Anesthesia Care Unit: Is Delayed Arousal Dangerous for the Elderly?" University of Washington, Anesthesiology Department Grand Rounds, 5/31/2017.
37. "Waking up Wrong: EEG Predictors of Delayed Arousal after General Anesthesia", Duke University, Anesthesiology Department Grand Rounds, 8/22/2016.
38. "Re-constructing consciousness: in search of the networks that produce the cognitive self after anesthesia"; Networks of Networks Meeting; Network Science and Cognitive Neuroscience: Explaining How the Brain Works?; Sedona, Arizona; 5/24/2016.
39. "Anesthetic Management and Intraoperative Neuromonitoring", April Webinar, SpecialtyCare, Nashville, TN 4/16/2016.
40. "Fighting Neurotoxicity with a Double-Edged Sword: The Dual Role of Thrombin in Neuron Health", The 15th International Conference On Dose-Response Preconditioning: Adaptive Responses In Biology And Medicine - Building Biological Shields Against Disease And Injury. Annual Meeting Of The International Hormesis Society; Amherst, Massachusetts, 4/10/2016.
41. "The overlap between sleep and anesthesia for preferred post-anesthesia trajectories", Vanderbilt University, Anesthesiology Department Grand Rounds, 11/6/2015.
42. "Essential Qualities for a Career in Clinical Academics and Bioscience", BH Robbins Scholars seminar series, Vanderbilt University, Anesthesiology Department 11/5/2015.
43. "The role of GABA in cortical and subcortical networks that mediate transitions to wakefulness", University of Wisconsin, Cortex, Consciousness, and Anesthesia, Madison, Wisconsin; 10/2/2015.
44. "Delirium interventions save lives, save resources", Global Health Summit on Health Technology and Education, Atlanta Georgia; 5/11/2015.
45. "Delirium for the Clinical Anesthesiologist: Incidence, Types, and Cost", University of Alabama, Birmingham, Department of Anesthesiology Grand Rounds, Birmingham, Alabama; 4/27/2015.
46. "Waking Up Wrong: Experimental Models of Abnormal Cognitive Trajectories after General Anesthesia", University of Alabama, Birmingham, Resident Lecture Series, Birmingham, Alabama; 4/27/2015.

47. "Delirium for the Clinical Anesthesiologist: Incidence, Types, and Cost", Medical University of South Carolina, Department of Anesthesiology Grand Rounds, Charleston, South Carolina; 3/30/2015.
48. "Waking Up Wrong: Experimental Models of Abnormal Cognitive Trajectories after General Anesthesia", Medical University of South Carolina, Resident Lecture Series, Charleston, South Carolina; 3/30/2015.
49. "Flumazenil and its effect on anesthetic recovery", Schools of Science and Engineering, Waikato University, Hamilton New Zealand; 7/23/2014.
50. "On the overlap between sleep and anesthesia", Brain and Psychological Sciences Centre, Swinburne University of Technology, Melbourne Australia; 7/14/2014.
51. "Anesthetic Management and Intraoperative Monitoring", American Clinical Neurophysiology Society Annual Meeting, Atlanta, Georgia; 2/4/2014.
52. "Is it time to standardize emergence?", JSMF sponsored, 2nd International Collaborative Conference on "Waking Up" in combination with the ACCESS Group, Atlanta, Georgia; 4/26/2013.
53. "Targeting GABA receptors to reverse general anesthesia", 65th PGA of the New York State Society of Anesthesiologists, New York, New York; 12/12/2011.
54. "Waking Sleeping Beauty: GABA antagonists and their role in reversal of general anesthesia" University of Pennsylvania, Department of Anesthesiology Research in Progress Seminar, Philadelphia, Pennsylvania; 3/24/2011.
55. "Lessons from the failure to emerge from anesthesia", JSMF sponsored, First International Collaborative Conference on "Waking Up" in combination with the ACCESS Group, Atlanta, Georgia; 2/10/2011.
56. "A Conserved H-Bond Donor in the GABA(A) Receptor $\beta 2$ subunit of the M4 segment Controls Propofol Sensitivity", 62nd PGA, New York State Society of Anesthesiologists; New York, New York; 12/13/2008.
57. "Multiple Actions of Propofol on Cerebellar Purkinje Neurons", American Society of Anesthesiologists Annual Meeting, FAER Medical Student Research Fellowship Conference, Atlanta, Georgia; 10/24/2005.
58. "Neurocomputing", Squishy Physics Seminar Series. Physics Department, Harvard University, Cambridge, Massachusetts; 5/10/2000.

National/International Meeting Duties as Organizer/Panelist/Moderator

1. Panelist, SNAP Panel on Post-Operative Delirium, ASA Annual Meeting, San Antonio, Texas, 10/13/2025.
2. Moderator, Session, Delirium Pathophysiology and Risk Factors Across the Perioperative Journey, ASA Annual Meeting, Philadelphia, Pennsylvania; 10/22/2024.
3. Moderator, Oral Presentation, Experimental Neurosciences I, ASA Annual Meeting, Philadelphia, Pennsylvania; 10/22/2024.
4. Moderator / Session Co-Chair, Poster session, Experimental Neurosciences, SNACC 47th Annual Meeting, Phoenix, Arizona; 9/13/2019.
5. Panelist, International Conference on Bridging Neuroscience with Buddhist Teachings on Science. Ganden Monastery, Mundgod, Karnataka, India. June 2019.
6. Panelist, for "Waves of Delirium", IARS Annual Meeting, Montreal, Canada; 5/20/2019

7. Featured Panelist, International Conference on Buddhist Psychology and Modern Neuroscience. Drepung Monastery, Mundgod, Karnataka, India. June 2018.
8. Session Co-Organizer, Panel Speaker, Understanding and Making Use of the Electroencephalogram during General Anesthesia, IARS Annual Meeting, Chicago, Illinois, April 2018.
9. Moderator / Session Co-Chair, Experimental Neurosciences - "Neurotoxicity and Cellular Pathways", American Society of Anesthesiologists Annual Meeting, Boston; October 2017.
10. Organizer / Meeting Co-Chair, JSMF sponsored, 5th International Collaborative Conference on "Waking Up" in combination with the ACCESS Group; Hahei, New Zealand 2016.
11. Moderator / Session Co-Chair, Experimental Neurosciences - "Neurotoxicity", American Society of Anesthesiologists Annual Meeting, Chicago; October 2016.
12. Organizer / Meeting Co-Chair, JSMF sponsored, 4th International Collaborative Conference on "Waking Up" in combination with the ACCESS Group; Queenstown 2016.
13. Moderator / Session Co-Chair, Experimental Neurosciences - "CNS Injury and POCD", American Society of Anesthesiologists Annual Meeting, San Diego; October 2015.
14. Moderator / Session Co-Chair, Experimental Neurosciences - "Neurotoxicity and Neuroprotection", American Society of Anesthesiologists Annual Meeting, San Diego; October 2015.
15. Workshop Organizer / Co-Chair, "Waking up to a world of pain: How external stimuli and their perception influence unconsciousness", The 9th International Conference on Mechanisms of Anaesthesia (MAC 2015), Bonn, Germany; 2015.
16. Moderator / Session Co-Chair, Experimental Neurosciences - "Inflammation, Cognitive Dysfunction and Neuroprotection", American Society of Anesthesiologists Annual Meeting, New Orleans; October 2014.
17. Moderator / Session Co-Chair, Experimental Neurosciences - "Mechanisms", American Society of Anesthesiologists Annual Meeting, New Orleans; October 2014.
18. Organizer / Meeting Co-Chair, JSMF sponsored, 3rd International Collaborative Conference on "Waking Up" in combination with the ACCESS Group; Oxford 2014.
19. Moderator / Session Co-Chair, Experimental Neurosciences - "Mechanisms Part II", American Society of Anesthesiologists Annual Meeting, San Francisco; October 2013.
20. Moderator / Session Co-Chair, Experimental Neurosciences - "Cerebral Blood Flow and Neuroprotection", American Society of Anesthesiologists Annual Meeting, San Francisco; October 2013.
21. Moderator / Session Co-Chair, Clinical Neurosciences - "Monitoring the Central Nervous System", American Society of Anesthesiologists Annual Meeting, San Francisco; October 2013.
22. Organizer / Meeting Chair, Local Host, JSMF sponsored, 2nd International Collaborative Conference on "Waking Up" in combination with the ACCESS Group (Anesthesiologists Concerned with Cognition, Emergence, Sleep, and Sedation); Atlanta 2013.
23. Moderator / Session Co-Chair Poster Discussion, Experimental Neurosciences - "Toxicity & Development", American Society of Anesthesiologists Annual Meeting, Washington, DC; October 2012.
24. Founder, Organizer / Meeting Co-Chair, Local Host, James S. McDonnell Foundation (JSMF) sponsored, 1st International Collaborative Conference on "Waking Up"; Atlanta 2011.