

**EMORY UNIVERSITY SCHOOL OF MEDICINE
STANDARD CURRICULUM VITAE FORMAT**

Revised: May 23, 2018

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3. E-mail Address: pgarcia@emory.edu
4. Citizenship: United States of America
5. Current Titles and Affiliations:
 - a. Academic Appointments:
 - i. Primary Appointments:

Associate Professor of Anesthesiology, Emory University School of Medicine, 2018 – present
(effective September 1, 2018)
 - ii. Secondary Appointments:

Associate Co-Director, MD/PhD Program, Emory University School of Medicine, 2017 – present
 - b. Clinical Appointments:

Staff Physician, Anesthesiology Service, Atlanta VA Medical Center, 2010 – present

Attending Physician, Anesthesiology Department, Emory University Hospital, Emory University Hospital Midtown & Ambulatory Surgery Center, 2010 – present

Medical Director, Neuroanesthesia and the Post Anesthesia Care Unit, Anesthesiology Service, Atlanta VA Medical Center, 2015 – present

Neuroanesthesia Fellowship Co-Director (Research), Department of Anesthesiology, 2017 – present
 - c. Other Appointments:

Program Faculty, Neuroscience, Graduate Division of Biological and Biomedical Sciences, Emory University School of Medicine, 2014 – present

Program Faculty, Computational Neuroscience, Graduate Division of Biological and Biomedical Sciences, Emory University School of Medicine, 2015 – present

Academic Advisory Board, MD/PhD Program, Emory University School of Medicine, 2016 – present

Program Director, Legacy Scholars Program, Emory University School of Medicine, 2017 – present

Program Faculty, Biomedical Engineering, Georgia Institute of Technology, 2017 – present

Affiliate Graduate Faculty, The Graduate School, Virginia Commonwealth University, 2017 – present

d. Previous Appointments

Assistant Professor of Anesthesiology, Emory University School of Medicine, 2010 – 2018

6. Licensures/Boards:

Georgia Medical License, First Issued 2010 (renewed every 2 years)

7. Specialty Boards:

American Board of Anesthesiology, First Issued 2011 (renewed every 10 years)

8. Education:

B.S., (with Honors) University of Florida 1991 – 1996

M.D., Emory University 1996 – 2006 (MD/PhD Program)

Ph.D., Bioengineering, Georgia Institute of Technology 1999 – 2004 (MD/PhD Program)

9. Postgraduate Training:

Internship / Transitional Year, Medicine, Emory University Affiliated Hospitals, Atlanta, Georgia, Kimberly Manning, MD, 2006 – 2007

Residency in Anesthesiology, Research Track, Emory University Affiliated Hospitals, Atlanta, Georgia, James Zaidan, MD, MBA, 2007 – 2010

Chief Resident, Emory University Hospital, Emory University, James Zaidan, MD, MBA, 2009 – 2010

Postdoctoral Research, Department of Pharmacology, Andrew Jenkins, PhD, 2009 – 2010

10. Continuing Professional Development Activities:

ASA Leadership Spokesperson Training, San Diego, CA, October 2015

Faculty Development for Quality Improvement Course, Emory University, 2015 – 2016

Faculty Development Scientific Writing Workshop, Emory University, December 2016

Learning to be a Better Teacher, Emory University, January 2017

Faculty Development Grant Writing Workshop, Preparing NIH R-Series Awards, Emory University, January 2018

11. Committee Memberships:

a. National and International:

Member, ASA Abstract Subcommittee on Anesthetic Action / Biochemistry; 2012

Member, Steering Committee, International Consortium of Electroencephalographic Training for Anesthesia Providers (ICE-TAP); 2012 – present

Member, ASA Abstract Subcommittee on Clinical Neurosciences; 2012 – 2015

Member, ASA Abstract Subcommittee on Experimental Neurosciences; 2012 – present

Vice-Chair, ASA Abstract Subcommittee on Experimental Neurosciences; 2013 – 2015

Founding Member, POCD and Delirium Interest Group, Society for Neuroscience in Anesthesia and Critical Care (SNACC); 2013 – present

Member, Neuroanesthesia Committee, American Society of Anesthesiologists; 2014 – 2016

Chair, ASA Abstract Subcommittee on Experimental Neurosciences; 2016 – present

Member, ASA Abstract Subcommittee on Geriatric Anesthesia; 2016 – present

Member, ASA Educational Track Subcommittee on Neuroanesthesia; 2016 – present

Member, ASA Committee on Research; 2016 – present

Member, ASA Committee on Scientific Advisory; 2017 – present

Member, Scientific Affairs Committee, SNACC; 2017 – present

b. Institutional:

President, MD/PhD Student Association, Emory University; 1999 – 2000

Student Representative, Curriculum Committee, Emory University School of Medicine; 2005

Member, Education Committee, Department of Anesthesiology, Emory University; 2006 – present

Member, Research Committee, Department of Anesthesiology, Emory University; 2010 – present

IACUC Committee, Atlanta VA Medical Center, 2011 – present

Pharmaceuticals and Therapeutics Committee, Atlanta VA Medical Center; 2013 – 2017

Faculty Representative, Athletics and Recreation Committee, Emory University; 2014 – 2016

Admissions Committee, Emory MD/PhD program; 2014 – present

Frailty and Care Optimization Committee, Emory Healthcare; 2015 – 2016

Research Strategic Planning Committee, Atlanta VA Medical Center; 2015 – 2016

Physician Executive Committee, Emory Clinic; 2015 – present

12. Peer Review Activities:

a. Grants:

i. National and International:

Neurological Foundation of New Zealand; 2013 - 2015

Ad hoc Reviewer, Waikato Medical Research Foundation; 2015

Foundation for Anesthesia Education and Research (FAER); 2016

ii. Institutional:

Ad hoc Reviewer, Team-Based Science Departmental Research Awards; 2014

b. Manuscripts (All as Ad hoc Reviewer):

1. Anesthesia and Analgesia; 2010 – present (major journal in field; over 20 reviews)
2. Journal of Theoretical Biology; 2013 – present
3. FEBS letters; 2014 – present
4. Brain, Behavior, and Immunity; 2014 – present
5. Pharmacology, Biochemistry, and Behavior; 2014 – present
6. Anesthesiology; 2015 – present (premier journal in field; over 14 reviews)
7. Neuroscience; 2015 – present
8. Journal of Neuroimmunology; 2015 – present
9. Journal of Clinical Monitoring and Computing; 2015 – present
10. Journal of Clinical and Experimental Neuropsychology; 2015 – present
11. Journal of Anesthesiology and Clinical Research; 2015 – present
12. Neurological Research; 2016 – present
13. Drugs And Aging; 2016 – present
14. Sleep Medicine; 2016 – present
15. Journal of Visualized Experiments (JoVE); 2016 – present
16. Clinical Therapeutics; 2016 – present
17. eLife; 2016 – present
18. BMC Anesthesiology; 2016 - present
19. CNS Drugs; 2017 – present
20. Frontiers in Pharmacology; 2017 – present
21. Journal of Neuroinflammation; 2017 – present
22. Molecular Pharmacology; 2017 – present
23. British Journal of Anaesthesia; 2018 – present

24. Journal of Clinical Anesthesia; 2018 – present

25. Frontiers in Molecular Neuroscience; 2018 – present

c. Conference Abstracts:

i. National and International:

American Society of Anesthesiologists Annual Meeting, San Diego, October 2012

American Society of Anesthesiologists Annual Meeting, New Orleans, October 2013

American Society of Anesthesiologists Annual Meeting, San Francisco, October 2014

American Society of Anesthesiologists Annual Meeting, Washington DC, October 2015

American Society of Anesthesiologists Annual Meeting, Chicago, October 2016

International Anesthesia Research Society Annual Meeting, Washington DC, May 2017

Society for Neuroscience in Anesthesiology and Critical Care, Boston, October 2017

American Society of Anesthesiologists Annual Meeting, Boston, October 2017

13. Consultantships/Expert Witness/Advisory Boards

a) National / International

Scientific Advisory Board (SAB) for the Association of University Anesthesiologists (AUA). In 2017, I was asked to serve on this prestigious SAB. This is a three-year term that identifies topics for the joint AUA-IARS sessions at the annual meeting, identifying/contacting speakers, and reviews abstracts submitted to the AUA annual meeting.

Board of Directors, Society for Neuroscience in Anesthesia and Critical Care, 2018

b) Institutional

MD/PhD Advisory Board. Since 2016, I have been a member of the MD/PhD Program's Advisory Board, which evaluates and modifies the Student Handbook and Protocols/Procedures of Emory's MD/PhD Program. Members of the Advisory Board also typically mentor MD/PhD Students as well as interview potential MD/PhD Applicants.

c) Expert Witness/Consultation

Expert Witness for Airway Emergency / Hyperactive Emergence Agitation, Grady Memorial Hospital Dekalb/Fulton Counties (no fee requested), 2014

Expert Consultation for Pharmacology/Toxicology in Criminal Case, Ed Dovin, Attorney, 2017

Expert Consultation for Sleep Disturbance in Criminal Case, Steve T. Woodman, Attorney, 2017

14. Editorships and Editorial Boards:

Frontiers in Systems Neuroscience, Guest Editor Special Issue on: "The Clinical and EEG Characterization of Emergence and Recovery from Anesthesia"; 2017

15. Honors and Awards:

a. Individual Academic Awards for Scholarship, Research, and/or Mentoring

1. National Hispanic Scholar Award; 1991 – 1995
2. Thomas J. Watson Scholarship, IBM; 1991 – 1995
3. Inductee, Tau Beta Pi, Engineering Honors Society; 1993
4. Inductee, Eta Kappa Nu, Electrical Engineering Honors Society, 1993
5. Outstanding Mentor Award, Research Experience for Undergraduates Program, Georgia Institute of Technology; 2000
6. President's Fellowship, Georgia Institute of Technology; 1999 – 2004
7. Medical Student Research Fellow, Foundation for Anesthesia Education and Research; 2005
8. FAER / Abbott Resident Scholar, American Society of Anesthesiology; 2008
9. First Place for Resident Research, 62nd PGA, New York State Society of Anesthesiologists; December 2008
10. Best Abstract Honorable Mention, International Society for Anaesthetic Pharmacology, New Orleans; October 2009
11. Resident Research, Third Place Winner, American Society of Anesthesiology Annual Meeting, New Orleans; October 2009
12. Top 10% User Accessed Review, Faculty of 1000, F1000.com; 2010, 2012
13. Featured Abstract, 65th PGA of the New York State Society of Anesthesiologists; 2011
14. Top 5% User Accessed Review, Faculty of 1000, F1000.com; 2011
15. Mentor Award, Systems-Based Learning Project for Emory Anesthesiology Residents; 2012
16. Featured Poster Presentation, 4th Annual Science of Graduate Medical Education Day, Emory University School of Medicine; June 2013
17. Best Abstract, Experimental Neurosciences, American Society of Anesthesiologists Annual Meeting, San Diego; October 2015
18. Emory University School of Medicine Faculty Award, "Hidden Gem", presented at Celebration of Faculty Excellence Ceremony; October 2015
19. Nomination and Induction as Active Member into Association of University Anesthesiologists (AUA); December 2015
20. Best Abstract, Clinical Neurosciences, American Society of Anesthesiologists Annual Meeting, Chicago; October 2016
21. Outstanding Research Faculty of Emory School of Medicine, Recognized by Peers and the School of Medicine Recognition Committee on Researcher Appreciation Day; September 2017

b) Research awards presented to mentees

1. First Place, Original Research, Gulf Atlantic Anesthesia Resident Research Conference, Puerto Rico; April 2012 (Mentee Award - Anna Woodbury, MD)
 2. First Place, Original Research, Emory's Department of Medicine Research Day, Emory University School of Medicine; October 2012 (Mentee Award - Jenna McLendon, MS IV)
 3. Featured Oral presentation, Medical Student Research Day, Emory University School of Medicine; May 2013 (Mentee Award - Britany Raymond, MS IV)
 4. Featured Oral presentation, FAER Medical Student Anesthesia Research Fellowship Symposium, American Society of Anesthesiology Annual Meeting; October 2013 (Mentee Award - Davin Singh, MS IV)
 5. First Place, Original Research, Emory's Department of Anesthesiology Celebration of Research; March 2014 (Mentee Award - Christopher Ma, MS IV)
 6. Second Place, Resident Research, American Society of Anesthesiologists Annual Meeting, San Diego; October 2015 (Mentee Award - Seyed Safavynia, MD, PhD)
 7. Featured Oral presentation, Best Clinical Science Abstract; FAER Medical Student Anesthesia Research Fellowship Symposium, American Society of Anesthesiology Annual Meeting; October 2015 (Mentee Award - Eric Yang, MS II)
 8. Best Abstract, International Anesthesia Research Society Annual Meeting, Washington DC; May 2017 (Mentee Award – Matthias Kreuzer, PhD, post-doctoral fellow)
 9. Best Abstract, Basic Sciences, German Anesthesiology Congress (DAC) April 2018, Berlin, Germany (Mentee Award – Stefan Schwerin, Medical Student)
16. Society Memberships:
- Society for Neuroscience; 1999 – present
- Biomedical Engineering Society; 1999 – 2004
- American Society of Anesthesiologists; 2005 – present
- Georgia Society of Anesthesiologists; 2006 – present
- International Society of Anaesthetic Pharmacology; 2006 – 2012
- International Anesthesia Research Society; 2006 – present
- Faculty of 1000, f1000.com; 2011 – present
- Society for Neuroscience in Anesthesia and Critical Care; 2012 – present
17. Organization of Conferences:
- a. National and International:
 - i. Administrative Positions:

Founder, Organizer / Meeting Co-Chair, Local Host, James S. McDonnell Foundation (JSMF) sponsored, 1st International Collaborative Conference on "Waking Up"; Atlanta 2011

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

Organizer / Meeting Co-Chair, JSMF sponsored, 3rd International Collaborative Conference on "Waking Up" in combination with the ACCESS Group; Oxford 2014

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

Organizer / Meeting Co-Chair, JSMF sponsored, 4th International Collaborative Conference on "Waking Up" in combination with the ACCESS Group; Queenstown 2016

Meeting Co-Organizer, 11th International Symposium on Memory and Awareness in Anaesthesia (MAA11, tentatively to be held in Atlanta, Date - TBD, 2020)

Session Co-Organizer, Panel Speaker, Understanding and Making Use of the Electroencephalogram during General Anesthesia, IARS Annual Meeting, Chicago, Illinois, April 2018

Organizer, ASA Annual Meeting, Assigned Reviewers, Evaluated Submissions, Organized Moderators for all scientific sessions in Experimental Neurosciences at ASA Annual Meeting, Boston, October 2017

ii. Sessions as Chair:

Moderator / Session Co-Chair Poster Discussion, Experimental Neurosciences - "Toxicity & Development", American Society of Anesthesiologists Annual Meeting, Washington, DC; October 2012

Moderator / Session Co-Chair, Experimental Neurosciences - "Mechanisms Part II", American Society of Anesthesiologists Annual Meeting, San Francisco; October 2013

Moderator / Session Co-Chair, Experimental Neurosciences - "Cerebral Blood Flow and Neuroprotection", American Society of Anesthesiologists Annual Meeting, San Francisco; October 2013

Moderator / Session Co-Chair, Clinical Neurosciences - "Monitoring the Central Nervous System", American Society of Anesthesiologists Annual Meeting, San Francisco; October 2013

Moderator / Session Co-Chair, Experimental Neurosciences - "Inflammation, Cognitive Dysfunction and Neuroprotection", American Society of Anesthesiologists Annual Meeting, New Orleans; October 2014

Moderator / Session Co-Chair, Experimental Neurosciences - "Mechanisms", American Society of Anesthesiologists Annual Meeting, New Orleans; October 2014

Moderator / Session Co-Chair, Experimental Neurosciences - "Neurotoxicity and

Neuroprotection", American Society of Anesthesiologists Annual Meeting, San Diego; October 2015

Moderator / Session Co-Chair, Experimental Neurosciences - "CNS Injury and POCD", American Society of Anesthesiologists Annual Meeting, San Diego; October 2015

Moderator / Session Co-Chair, Experimental Neurosciences - "Neurotoxicity", American Society of Anesthesiologists Annual Meeting, Chicago; October 2016

Moderator / Session Co-Chair, Experimental Neurosciences - "Neurotoxicity and Cellular Pathways", American Society of Anesthesiologists Annual Meeting, Boston; October 2017

b. Regional:

i. Administrative Positions:

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

c. Institutional:

i. Administrative Positions:

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

ii. Sessions as Chair:

Chair, Anesthesiology Grand Rounds Committee, Emory University; 2013 – 2016

18. Clinical Service Contributions:

I am proud of my service contributions that have led to major advances in clinical practice at the VA and among the Emory affiliated hospitals. I have also served our Academic Department, and Regionally/Nationally as a meeting organizer, and on several important committees. Better described in my Service Portfolio but highlighted here is my involvement in the Pharmaceuticals and Therapeutics Committee and as Medical Director of Neuroanesthesia and the Post-Anesthesia Care Unit (PACU) at the Atlanta VA Medical Center. I was able to spearhead efforts to obtain favorable purchasing contracts for the latest peri-operative intravenous medications that previously had been considered too expensive for the VA operating rooms (including intravenous acetaminophen, remifentanyl, sugammadex, dexmedetomidine). I also liaison with the neurosurgeons at the VA in my role of medical director for neuroanesthesia; and am responsible for PACU policy and education. Not all of my service contributions have been limited to the clinical work at the Atlanta VA. Through my participation in Emory's Frailty and Care Optimization Committee, I have been able to dialogue with other local key opinion leaders in geriatric medicine about implement physiologic measures of geriatric health throughout the Emory System. Additionally, I remain an active member of the Physician Executive Committee, which is a sounding board and "think tank" for issues that affect all physicians affiliated with the Emory Clinic. As a special request from the Chair of the Department of Anesthesiology and our residency program director; I designed the Legacy Scholars Program to formalize the academic career development of residents with a proven track record of scholarship. My background in computers and engineering has led to my involvement in several technologically focused initiatives that improve the digital footprint and global influence of both the Department of Anesthesiology and Emory University School of Medicine. I am a regular contributor of content to our Department's external website as well as internal resources (for

clinical teaching). For the three years that I chaired our Departmental Grand Rounds Seminars, I drastically improved our access to these lectures by improving our videoconferencing capabilities. Through my research efforts on Anesthesiology monitors, I have successfully overseen the clinical introduction of non-invasive hemoglobin monitors and electroencephalogram devices at the VA and other Emory affiliated hospitals. My familiarity with Media Services helped establish an internet-based video webstream and archive system for Grand Rounds in the Department of Anesthesiology. On the national scale, my leadership in the Neuroanesthesia Committee through the American Society of Anesthesiology (ASA) led to the contribution of published guidelines for perioperative stroke management. Additionally, after several years as vice-Chair, In 2016, I was named chair of the ASA for the Experimental Neurosciences Abstract Review Subcommittee. Recently, I have been asked to participate in the Scientific Affairs Committee for SNACC and as a Scientific Advisory Board Member for the AUA. As a founding member of the Society for Neuroscience in Anesthesia and Critical Care (SNACC) Special Interest Group on Delirium, we are working to create the first clinical guidelines for Post-Operative Delirium. I am a regular reviewer for major Anesthesiology journals as well as grants submitted to the Foundation for Anesthesia Education and Research.

19. Community Outreach:

a. General:

Volunteer Soccer Coach, Decatur Dekalb YMCA; 2003 - 2014

Presenter Science Showcase, "Where does the brain go during sleep and anesthesia? How important is sleep for memory? Renfroe Middle School, Decatur, GA; February 2014

Decatur High School Soccer Announcer; 2014 - present

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

Volunteer, Atlanta Science Festival, Atlanta Georgia; March 2016

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.

b. Media Appearances:

"Biological Computer Born". BBC News. <http://news.bbc.co.uk/2/hi/sci/tech/358822.stm> (first online June 1999; last accessed Aug 6, 2015). Research also featured on an episode of the BBC television program: "Tomorrow's World"

"US Scientists build brainy leech computer". ZDNet News. <http://www.zdnet.com/article/us-scientists-build-brainy-leech-computer/> (first online June 1999; last accessed Aug 6, 2015)

"Emory-Georgia Tech make world's first 'leech-ulator'. Emory Report. (first online September 1999; last accessed Aug 6, 2015). Other interviews on this work were given to Business Week, ABC News, and Creative Loafing.

Radio appearance: Georgia Radio Reading Service. Interview about "Anesthesia for Elderly Veterans"; November 2013

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*.

"Educational Resources in Neuroanesthesiology". Invited Contributor to *American Society of Anesthesiologists Newsletter. Vol. 79(9) pp.54-7*; September 2015.

"Gabbing about GABA". Featured web coverage of Society for Neuroscience Posters from Emory News. (First online October 2015; last accessed January 6, 2015)
http://www.emoryhealthsciblog.com/gabbing-about-gaba-implications-for-hypersomnia-treatments/?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+EmoryHealthNowBlog+%28Lab+Land%29

Founder, Contributor of Emory University School of Medicine, Department of Anesthesiology's Twitter feed: "EmoryAnesth". 2016.

Featured Alumni, Foundation for Anesthesia Education and Research (FAER) website, annual fund, ASA posters, 2016 – 2017

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}

20. Formal Teaching:

a. Medical Student Teaching:

1. Teaching Assistant, M1 Embryology, Emory University School of Medicine; 1998; 15 hours per week; 3 week course Summer Semester 1998
2. Teaching Assistant / Lab Assistant, M2 Clinical Neuroscience, Emory University School of Medicine; 1999; 3 hours per week Spring Semester
3. Faculty Advisor, Crawford Long Society / Anesthesia Interest Group for Medical Students, Emory University School of Medicine; 2010-present, approximately 0.5 hours weekly
4. Discovery Phase Mentor, Sarah Burke, Emory University School of Medicine; April - September 2011, approximately 7 hours direct contact weekly
5. Lecturer, Clinical Research Conference, MD-PhD Program, Emory University School of Medicine; April 2011, 3 hour case conference
6. Discovery Phase Mentor, Britany Raymond, Emory University School of Medicine; April - September 2012, approximately 5 hours direct contact weekly
7. Discovery Phase Co-Mentor, York Chen, Emory University School of Medicine; April - September 2012, approximately 3 hours direct contact weekly
8. Discovery Phase Co-Mentor, Jenna Mclendon, Emory University School of Medicine; April - September 2012, approximately 3 hours direct contact weekly
9. Lecturer, M2 Neuroscience, "General Anesthetics", Emory University School of Medicine; October 2012, 1 hour lecture
10. Lecturer, Clinical Research Conference, MD-PhD Program, Emory University School of Medicine;

December 2012, 3 hour case conference

11. Pod leader, Emory Department of Anesthesiology Residency Training Program; 2013 – present
12. Discovery Phase Mentor, Davin Singh, Emory University School of Medicine; April - September 2013, approximately 5 hours direct contact weekly
13. Mentor, Davin Singh, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research; June – July, 2013; approximately 5 hours direct contact weekly
14. Discovery Phase Co-Mentor, Chris Ma, Emory University School of Medicine; April - September 2013, approximately 3 hours direct contact weekly
15. Discovery Phase Mentor, Courtney Cron, Emory University School of Medicine; April - September 2014, approximately 5 hours direct contact weekly
16. Discovery Phase Co-Mentor, Margaret Ann "Peggy" Kearns, Emory University School of Medicine; May - October 2014, approximately 1 hours direct contact weekly
17. Discovery Phase Co-Mentor, Clayton Adams, Emory University School of Medicine; May - October 2014, approximately 1 hours direct contact weekly
18. Discovery Phase Co-Mentor, Katie Loh, Emory University School of Medicine; May - October 2014, approximately 1 hours direct contact weekly
19. Lecturer, Clinical Research Conference, MD-PhD Program, Emory University School of Medicine; August 2014, 3 hour case conference
20. Course Director of IBS 508R, MD/PhD Journal Club Series, Emory University School of Medicine, MD/PhD Student Journal Club; 2014 – present; 1 hour per week (Fall and Spring Semester)
21. Mentor, Eric Yang, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research; June – August 2015; approximately 8 hours direct contact weekly
22. Discovery Phase Co-Mentor, Vincent LaBarbera, Emory University School of Medicine; April - September 2015, approximately 1 hour direct contact weekly
23. Discovery Phase Mentor, Ian McCullough, Emory University School of Medicine; April - September 2015, approximately 3 hours direct contact weekly
24. Discovery Phase Co-Mentor, Maria Victoria García, Emory University School of Medicine; May - October 2015, approximately 5 hours direct contact weekly
25. Discovery Phase Co-Mentor, Amy Ottensmeyer, Emory University School of Medicine; May - October 2015, approximately 2 hours direct contact weekly
26. Course Director of IBS 500R, Special Topics in Self-Directed Seminar, Emory University School of Medicine, MD/PhD Program; 2016 – present; 1 hour per week (Fall and Spring Semester)
27. Training Faculty & Leadership Team, Medical Scientist Training Program (MSTP), NIH T32 grant that supports MD/PhD Students at Emory/Georgia Tech; 2016 – present, approximately 0.5 hours weekly
28. Faculty Advisor, SACNAS (Society for Advancing Chicanos/Hispanics & Native Americans in Science), Emory University; 2017 – present, approximately 0.25 hours weekly

29. Training Faculty & Leadership Team, Initiative for Maximizing Student Development, (IMSD), NIH T32 grant that supports under-represented minorities in science; 2017 – present, approximately 0.25 hours weekly

30. Mentor, Emily Nesbitt, Medical Student Anesthesia Research Fellowship, Foundation for Anesthesia Education and Research; June – August 2017; approximately 2 hours direct contact weekly

b. Graduate Programs:

i. Residency Programs:

Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Uptake and Distribution." 2012 – 2017

Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Neurophysiology Part 1 and Anesthesia for Neurosurgery." 2013 – 2017

Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Neurophysiology Part 2 and Anesthesia for Patients with Neurologic Disease." 2013 – 2017

Pod leader, Emory Department of Anesthesiology Residency Training Program; 2013 – present

Emory University School of Medicine, Resident Lecture Series, Department of Anesthesiology, "Physics, Machines, and Monitors. " 2014 – 2017

ii. Master's and PhD Programs:

Lecturer, Systems Pathophysiology, Georgia Institute of Technology, Biomedical Engineering Graduate Program, "Seizures, EEG, and the Engineer"; September 2000; 1 hour lecture

Problem-Based Learning Facilitator, Georgia Institute of Technology, Biomedical Engineering Graduate Program; 2002; 3 hours per week Fall Semester

Lecturer, Pharmacology, MSP 501 "The Ethical Considerations Regarding Non-Therapeutic Use of Therapeutics"; April 2014; 1 hour lecture

Lecturer, IBS 514 Cellular Neuroscience, Module 3, Electrophysiology and Excitable cells "Oscillations and rhythmic networks" and "EEG, information, and coherence"; February 2017; 2, 2 hour lectures

Lecturer, Computational Neuroscience IBS 516 "EEG analysis Parts 1 and 2"; April 2016, April 2017; 2, 1 hour lectures

c. Other Categories:

Lecturer, Introduction to Biomedical Engineering, Georgia Institute of Technology, Undergraduate Biomedical Engineering, "Neuroscience and the Role of the Bioengineer"; September 2003

Emory University Nell Hodgson Woodruff School of Nursing, VA Nursing Partnership, Faculty Lecturer, "Delirium: Incidence, Types, & Cost"; April 2014, May 2015, March 2016, April 2017

Emory Undergraduate Medical Review, Faculty Advisory Board, November 2017 - present

21. Supervisory Teaching:

a. PhD Students Directly Supervised:

Iris Speigel, 2014 – 2017, Neuroscience PhD Student; postdoctoral fellow, Cornell University

Christopher Sinon, 2015 – present, Computational Neuroscience PhD Student

Yasmin Marrero-García, 2017 – present, Neuroscience PhD Student

b. Postdoctoral Fellows Directly Supervised:

Glenda Keating, PhD, 2014 – 2015, Research Staff, Department of Neurology, Emory University

September Hesse, PhD, 2014 – 2016, Quantitative Safety Specialist, Novartis Pharmaceutical Corporation

Matthias Kreuzer, PhD, 2015 – 2017, Assistant Professor, Department of Anesthesiology, Technical University of Munich, Munich, Germany

c. Residency and Clinical Fellows:

1. Anna Woodbury, MD; 2010 – 2014, Assistant Professor, Emory University / Atlanta VA

2. Mark Caridi-Scheible, MD; 2011 – 2012, Assistant Professor, Emory University

3. Jeff Prinsell, MD; 2011 – 2012, Private Practice, Columbus, GA

4. Melissa Hirsu, MD; 2011 – 2012, Assistant Professor, Emory University / Grady

5. Ellen Richter, MD; 2012 – 2013, Assistant Professor, Emory University Hospital

6. Kevin Blackwood, MD; 2012 – 2015, Private Practice, Baton Rouge, Louisiana

7. David McDaniel, MD; 2013 – 2014, Private Practice, Houston, TX

8. Seyed Safavynia, MD, PhD; 2013 – 2016, Van Poznak Resident Scholar, Cornell University

9. Helen Vo, MD; 2016, Private Practice, Orlando, FL

10. Peiman Lahsaei, MD; 2015 – 2016, Assistant Professor, UT Southwestern

11. Sarah Burke, MD; 2016 – present, Cardiothoracic Anesthesiology and Critical Care Fellow, Emory University

d. Thesis Committees:

1. Jennifer Rha, PhD, Biochemistry, Cell and Developmental Biology, Emory University, 2014 – 2017, current MD/PhD Student

2. Jessica Martin, PhD, Swinburne Institute of Technology, 2014 – 2017

3. Darren Hight, PhD, University of Auckland, 2014 – 2017

4. Olivia Moody, Neuroscience, Emory University, 2015 – 2017, current PhD Student
 5. Stephanie Jones, Biochemistry, Cell and Developmental Biology, Emory University, 2015 – present, current PhD Student
 6. Mekelayaie Dorsett, CRNA, PhD, Nursing, Virginia Commonwealth University, 2016 – 2017
 7. Anzar Abbas, Biomedical Engineering, Emory / Georgia Tech, 2017 – present, current PhD student
- e. Other:
1. Nick Taylor, Undergraduate Researcher (Emory), 2013 – 2017, Undergraduate, Emory University
 2. Shavonne Teng, Undergraduate Researcher (Emory), 2013 – 2014, Research Technician, New York City
 3. Chenyin Lin, MS Biostatistics Practicum Project, May – July 2014, Statistician, Beijing, China
 4. Qiangguo Xu, MD, Siping Ailingqi Hospital (China); 2014 – 2016, Visiting Scientist, Emory University
 5. Seth Eisenberg, MD, Post-Bacclaireate Researcher, 2015 – 2016, Anesthesiology Resident, Hershey, PA
 6. Sal Hemani, MD, Post-Bacclaireate Researcher, 2016 – 2017, Anesthesiology Resident, Emory University
 7. Emily Gebhardt, MS Biostatistics Practicum Project, 2017 – present
22. Lectureships, Seminar Invitations, and Visiting Professorships:
- a. National and International:
 1. "Neurocomputing", Squishy Physics Seminar Series. Physics Department, Harvard University, Cambridge, Massachusetts; 5/10/2000
 2. "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
 3. "On the overlap between sleep and anesthesia", Brain and Psychological Sciences Centre, Swinburne University of Technology, Melbourne Australia; 7/14/2014
 4. "Flumazenil and its effect on anesthetic recovery", Schools of Science and Engineering, Waikato University, Hamilton New Zealand; 7/23/2014
 5. "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
 6. "Delirium for the Clinical Anesthesiologist: Incidence, Types, and Cost", University of Alabama, Birmingham, Department of Anesthesiology Grand Rounds, Birmingham, Alabama; 4/27/2015

7. "Waking Up Wrong: Experimental Models of Abnormal Cognitive Trajectories after General Anesthesia", University of Alabama, Birmingham, Resident Lecture Series, Birmingham, Alabama; 4/27/2015
 8. "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
 9. "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
 10. "Essential Qualities for a Career in Clinical Academics and Bioscience", BH Robbins Scholars seminar series, Vanderbilt University, Anesthesiology Department 11/5/2015
 11. "The overlap between sleep and anesthesia for preferred post-anesthesia trajectories", Vanderbilt University, Anesthesiology Department Grand Rounds, 11/6/2015
 12. "Anesthetic Management and Intraoperative Neuromonitoring", April Webinar, SpecialtyCare, Nashville, TN 4/16/2016.
 13. "Waking up Wrong: EEG Predictors of Delayed Arousal after General Anesthesia", Duke University, Anesthesiology Department Grand Rounds, 8/22/2016
 14. "Delirium in the Post-Anesthesia Care Unit: Is Delayed Arousal Dangerous for the Elderly?" University of Washington, Anesthesiology Department Grand Rounds, 5/31/2017
 15. "The role of GABA antagonism in wakefulness" Harborview Medical Center, Seattle, WA, Anesthesiology Department Morning Lecture, 6/1/2017
 16. "Can We Predict PACU Delirium from Intraoperative EEG?", Technical University Munich, Anesthesiology Department, Munich, Germany, 6/23/2017
 17. "What can sleep tell us about the brain during surgical anesthesia?", University of Innsbruck, Department of Pharmacology, Innsbruck, Austria, 6/27/2017
- b. Regional:
1. "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
 2. "Post-Operative Delirium: Diagnosis, Treatment, Prevention, and Pharmaco-economics", Northside Hospital Anesthesia Conference, Atlanta, Georgia; 8/12/2013
 3. "What can sleep tell us about safe surgery?", Departments of Chemistry, Biology, and Psychology, Morehouse College, Atlanta, Georgia; 2/3/2015
- c. Institutional:
1. "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
 2. "Post-Operative Cognitive Dysfunction", Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 9/25/2008

3. "How to Review a Journal Article", Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 9/21/2010
 4. "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
 5. "Anesthesia Considerations for the Geriatric Patient", Emory University School of Medicine, Geriatrics and Gerontology Research Seminar; 5/14/2012
 6. "Post-Operative Delirium and Recovery from General Anesthesia", Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 12/4/2012
 7. "Update on ACCESS Group." Atlanta VA Medical Center, Anesthesiology Division, Educational Lecture Series; 10/3/2013
 8. "EEG variation During Maintenance And Emergence From Surgical Anaesthesia", Atlanta VA Medical Center, Anesthesiology Division, Educational Lecture Series; 9/25/2014
 9. "EEG variation During Maintenance And Emergence From Surgical Anaesthesia" Emory University School of Medicine, Grand Rounds, Department of Neurosurgery; 12/8/2014
 10. "Delirium for the Clinical Anesthesiologist: Incidence, Types, and Cost." Emory University School of Medicine, Grand Rounds, Department of Anesthesiology; 4/28/2015
 11. "Neurotoxic effects of Antiretroviral Agents", Atlanta VA Medical Center, Research Staff Meeting; 8/5/2015
 12. "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
 13. "EEG Features for Clinical Anesthesiologists" Emory University Orthopedics and Spine Hospital; Morning Seminar Series, 4/18/2017
23. Invitations to National/International, Regional, and Institutional Conferences:
- a. National and International:
 1. "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
 2. "A Conserved H-Bond Donor in the GABA(A) Receptor β 2 subunit of the M4 segment Controls Propofol Sensitivity", 62nd PGA, New York State Society of Anesthesiologists; New York, New York; 12/13/2008
 3. "Lessons from the failure to emerge from anesthesia", JSMF sponsored, 2nd International Collaborative Conference on "Waking Up" in combination with the ACCESS Group, Atlanta, Georgia; 2/10/2011
 4. "Targeting GABA receptors to reverse general anesthesia", 65th PGA of the New York State Society of Anesthesiologists, New York, New York; 12/12/2011
 5. "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

6. "Anesthetic Management and Intraoperative Monitoring", American Clinical Neurophysiology Society Annual Meeting, Atlanta, Georgia; 2/4/2014
 7. "Delirium interventions save lives, save resources", Global Health Summit on Health Technology and Education, Atlanta Georgia; 5/11/2015
 8. "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
 9. "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
 10. "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
 11. "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
 12. "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
 13. "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
 14. "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
- b. Regional:
- "New Insights into Propofol Mechanisms" Georgia Society of Anesthesiologists, Winter Meeting, Stone Mountain, Georgia; 1/19/2008
- "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
24. Abstract Presentations at National/International, Regional, and Institutional Conferences:
* denotes presenter
- a. National and International:
 1. **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.
 2. 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
 3. **García PS***, Calabrese RL, Ellis RT, DeWeerth SP, Ditto W. (2001) Computing with Neuronal Dynamics. *APS Meeting Abstracts* 1, Seattle, Washington; March 2001. 23007

4. **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.
5. **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
6. **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.
7. **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.
8. **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.
9. 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
10. 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.
11. 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
12. **García PS***, Bell S, Jenkins A. A Conserved H-Bond Donor in the GABA(A) Receptor β 2 subunit of the M4 Segment Confers Propofol Sensitivity. American Society of Anesthesiologists Annual Meeting. Poster Presentation, San Francisco, California; October 2007.
13. 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.
14. **García PS***, Bell S, Jenkins A. A Conserved H-Bond Donor in the GABA(A) Receptor β 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.
15. **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.
16. 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
17. 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

18. 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
19. 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
20. 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.
21. 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.
22. **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.
23. 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. A241
24. 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
25. 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.
26. 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
27. **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
28. **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
29. **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

30. 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.
31. Hesse S*, Singh D, Hight D, Pitre NC, Kreuzer M, Sleigh 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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, 2015
41. 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.

42. 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
43. 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
44. 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.
45. 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.
46. **García PS***, Hesse S, Hight D, Kreuzer M, Gaskell A, Lee S, Taylor N, Devari P, Whalin MK, Sleigh JW, Delirium in the Post-Anesthesia Care Unit: Risk Factors and Clinical Significance American Society of Anesthesiologists Annual Meeting. Chicago, IL; October 2016.
47. 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.
48. 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.
49. 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.
50. Speigel 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.
51. Hesse S*, **García PS**, Hight D, Kreuzer M, Gaskell A, Lee S, Taylor N, Devari P, Whalin MK, Sleigh 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.
52. 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.
53. 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.
54. Speigel 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.

55. **García PS***, Hesse S, Kreuzer M, Hight D, Sleight 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
56. Kreuzer M*, Hesse S, Kreuzer M, Hight D, Sleight 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
57. **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.
58. 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.
59. 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.

b. Regional:

1. **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.
2. **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.
3. 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
4. **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

c. Institutional:

1. 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
2. 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
3. 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

4. Hemani S*, Hesse S, Hill LL, **Garcia PS**. Frailty Assessments in Emory's Anesthesiology Pre-Operative Clinic. Emory Quality Forum June 2016

25. Research Focus:

Sleep and anesthesia use the most abundant inhibitory neurotransmitter in the CNS, GABA, as their chief signaling molecule. I rely on pharmacologic, electrophysiologic, and modeling approaches to answer how the brain re-establishes cognitive function and consciousness after quiescence. This work overlaps with investigations into neuroprotection, aging, and neurodegenerative disease pathways. ORCID: 0000-0001-5544-6251

Link to a complete list of publications PubMed:

www.ncbi.nlm.nih.gov/sites/myncbi/paul.garcia.1/bibliography/40359181/public/?sort=date&direction=descending

26. Grant Support:

a. Active Support:

i. Federally Funded (PI, and Co-PI only):

Role: Principal Investigator (PI), (Note: Mentored Award; Mentor: William R. Tyor, MD). Veterans Affairs Career Development Award (CDA) in Basic Laboratory Science. "Effects of Anti-Retrovirals on Neuronal Health: Screening ARVs for Neurotoxicity." Total Direct Costs: \$1.35 M (includes PI salary); 2013 – 2018 (BX001677)

ii. Private Foundation Funded (PI):

Role: PI/Lead Investigator, James S. McDonnell Foundation Research Award. "Probing the Overlap Between Sleep and Anesthesia: Locating the Cognitive Self after Unconsciousness." Total Direct Costs: \$1.4 M; 2017 – 2021

iii. Other (not PI):

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; 2013-2018 Funds a graduate student.

Role: Co-Investigator/Collaborator (David Rye, PI), (National Institute of Health R01) "Characterization Of An Endogenous GABA-ergic Mechanism Underlying Hypersomnia." (5R01NS089719) Total Direct Costs: \$1.25 M; 2015-2019. Partial funding for lab personnel.

Role: Co-Investigator/Collaborator (Anita Corbett, PI), (National Institute of Health R21) "A Novel RNA Binding Protein Modulates tau Pathology." (1R21AG054206) Total Direct Costs: \$125,000; 2017-2019 Funds 50% of a graduate student stipend.

Role: Co-Investigator/Collaborator (Seong Shim, PI), (Veteran's Affairs SPiRE grant) "Therapeutic Action of GSK-3 Inhibition in Repetitive Mild Traumatic Brain Injury" (1I21RX002389) Total Direct Costs: \$120,000; 2017-2019 Funds 50% of a shared technician.

Role: Co-Investigator (Co-I), Center for Visual and Neurocognitive Rehabilitation, Center Grant, Veterans Health Administration, Total Direct Costs: \$2.5 M; 2017 – 2022 (I50

RX002358) Funds partial salary support for Research Scientist, equipment, laboratory supplies, administrative support.

b. Previous Support (PI, Co-PI, Co-I, and other):

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

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; 2011-2013

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

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

Role: co-PI with William Tyor, Shared Equipment Evaluation Program Grant (ShEEP); Disk Spinning Confocal upgrade for existing Olympus IX-71 inverted microscope. Total Equipment Cost: \$293,630.00; awarded 2013

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

Role: co-PI with C. Michael Hart, Shared Equipment Evaluation Program Grant (ShEEP); XFe96 analyzer of mitochondrial respiration (SeahorseBio.com). Total Equipment Cost: \$184,230; awarded 2014

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

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

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

Role: co-PI with Keith McGregor, Shared Equipment Evaluation Program Grant (ShEEP); Equipment Request for MAGventure X100 fMRI-TMS-EEG System). Total Equipment Cost: \$164,890; awarded 2016

Role: PI/Lead Investigator, James S. McDonnell Foundation Research Award. "Probing the Overlap between Sleep and Anesthesia to Enhance Human Cognition." Total Direct Costs: \$1.5 M; 2012 – 2017 (220020346)

c. Pending Support:

i. Federal:

Role: Co-I and Electrophysiology Core Co-Director (National Institute of Health, P01)
"Evaluating the Physiologic Effects of Anesthesia in a Murine Model of Myotonic Dystrophy" \$2.5 M; 2018 – 2022 (submitted February 2018)

Role: Principal Investigator (PI), (Veteran's Affairs, SPiRE Award) "Modifying Neural Tissue Excitability with tDCS" \$160,000; 2018-2020 (submitted March 2018)

27. Bibliography:

- a. Published and Accepted Research Articles (clinical, basic science, other) in Refereed Journals:
 1. Norris BJ, Weaver AL, Morris LG, Wenning A, **García PA**, Calabrese RL. (2006) A central pattern generator producing alternative outputs: temporal pattern of premotor activity. *J Neurophysiol.* Jul; 96(1):309-26. PMID: 16611849.
 2. Norris BJ, Weaver AL, Wenning A, **García PS**, Calabrese RL. (2007) A central pattern generator producing alternative outputs: phase relations of leech heart motor neurons with respect to premotor synaptic input. *J Neurophysiol.* Nov; 98(5):2983-91. PMID: 17728387.
 3. Norris BJ, Weaver AL, Wenning A, **García PS**, Calabrese RL. (2007) A central pattern generator producing alternative outputs: pattern, strength, and dynamics of premotor synaptic input to leech heart motor neurons. *J Neurophysiol.* Nov; 98(5):2992-3005. PMID: 17804574.
 4. Richardson JE, **García PS**, O'Toole KK, Derry JM, Bell SV, Jenkins A. (2007) A conserved tyrosine in the beta2 subunit M4 segment is a determinant of gamma-aminobutyric acid type A receptor sensitivity to propofol. *Anesthesiology* Sep; 107(3):412-8. PMID: 17721243.
 5. **García PS**, Wright TM, Cunningham IR, Calabrese RL. (2008) Using a model to assess the role of the spatiotemporal pattern of inhibitory input and intrasegmental electrical coupling in the intersegmental and side-to-side coordination of motor neurons by the leech heartbeat central pattern generator. *J Neurophysiol.* Sep; 100(3):1354-71. PMID: 18579654.
 6. **García PS**, Kolesky SE, Jenkins, A. (2010) General Anesthetic Actions on GABAA Receptors. *Current Neuropharmacology* Mar; 8(1):2 – 9. PMID: 20808541
 7. **García PS**, Cabbabe A, Kambadar K, Nicholas G, Csete M. (2010) Elevated myostatin levels in patients with liver disease: A potential contributor to skeletal muscle wasting. *Anesthesia and Analgesia* Sep;111(3):707-9. PMID: 20686014.
 8. Liu R, **García PS**, Fleisher LA. (2012) Interest in anesthesia as reflected by keyword searches using common search engines *Journal of Anesthesia and Clinical Research* Jan; 3(1): 187-95. PMID: 23853739
 9. Rye DB, Bliwise DL, Parker K, Trotti LM, Saini P, Fairley J, Freeman A, **García PS**, Owens MJ, Ritchie JC, Jenkins A. (2012) Endogenous enhancement of GABAA receptors modulates vigilance in the primary hypersomnias. *Science: Translational Medicine* Nov 21;4(161). PMID: 23175709.
 10. Trotti LM, Saini P, Freeman A, Bliwise DL, **García PS**, Jenkins A, Rye DB. (2014) Improvement in daytime sleepiness with clarithromycin in patients with GABA-related hypersomnia: Open label experience. *Journal of Psychopharmacology* Jul;28(7):697-702. PMID: 24306133.
 11. Hight DF, Dadok VM, Szeri A, **García PS**, Voss L, Sleight JW. (2014) Emergence from general anesthesia and the sleep manifold. *Frontiers in Systems Neuroscience.* Aug. 13(8) 146. PMID: 25165436

12. Chander D*, **García PS***, (*co-first author) McColl JN, Iling S, Sleight JW. (2014) Electroencephalographic variation during maintenance and emergence from surgical anaesthesia. *PLoS One*. Sep. Vol. 9(9). PMID: 25264892
13. **García PS**, Ciavatta VT, Fidler JA, Woodbury A, Levy JH, Tyor WR. (2015). Concentration-Dependent Dual Role of Thrombin in Protection of Cultured Rat Cortical Neurons. *Neurochemical Research* Nov;40(11):2220-9. PMID: 26342829.
14. Woodbury A, Yu SP, Chen D, Gu X, Lee J, Zhang J, Espinera A, **García PS**, Wei L. (2015). Honokiol for the Treatment of Neonatal Pain and Prevention of Consequent Neurobehavioral Disorders. *Journal of Natural Products* Nov 25;78(11):2531-6. PMID: 26539813.
15. Wu F, Torre E, Cuellar-Giraldo D, Cheng L, Yi H, Murlin E, **García PS**, Yepes M. (2015). Tissue-type Plasminogen Activator Regulates the Synaptic Vesicle Cycle. *Journal of Cerebral Blood Flow and Metabolism* Dec; 35(12):1966-76. PMID: 26126868.
16. Whalin MK, Kreuzer M, Halenda K, **García PS**. (2015). Missed Opportunities for Intervention in a Patient with Prolonged Postoperative Delirium. *Clinical Therapeutics* Dec1;37(12):2706-10. PMID: 26492795.
17. Safavynia SA, Keating G, Spiegel I, Fidler JA, Kreuzer M, Rye DB, Jenkins A, **García PS**. (2016). Effects of γ -Aminobutyric Acid Type A Receptor Modulation by Flumazenil on Emergence from General Anesthesia. *Anesthesiology* Jul;125(1):147-58. PMID: 27111534.
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19. Bichler E, Cron CC, **García PS**. (2017) Clarithromycin Increases Neuronal Excitability by Reducing GABA-ergic Signaling Modulation of Neuronal Firing Properties. *J Neurophysiol*. Jan 1;117(1):93-103. PMID: 27733592.
20. Mueller JN, Kreuzer M, **García PS**, Schneider G, Hautmann H. (2017) Monitoring depth of sedation– Evaluation of agreement between Bispectral Index, qCON and the Entropy Module’s State Entropy during flexible bronchoscopy *Minerva Anesthesiol*. Feb 8. PMID: 28177205.
21. Kreuzer M, Whalin MK, Hesse S, Riso MA, **García PS**. (2017) Anesthetic Management of a Patient with Multiple Prior Episodes of PACU Delirium *A & A Case Rep*. Mar 1. PMID: 2825254.
22. Yang E, Kreuzer M, Davari P, Lee S, **García PS**. (2017) Infrared pupillometry in the postoperative care unit helps to detect and predict delirium *J Clin Monit Comput*. Mar 8. PMID: 28275978.
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25. Moody OA, Jenkins MA, Trotti LM, **García PS**, Rye DB, Jenkins A (2017) Rigor and Reproducibility in Preclinical Studies of GABAA Receptor-CSF Interactions: the devil in the details. *Annals of Neurology* Jun;81(6):904-907 PMID: 28440033.
26. Rha J, Jones SK, Fidler JA, Gross C, Morris KJ, Santoro MR, Hanif AM, Pardue MT, Warren ST,

Moberg KH, Bassell GJ, **García PS**, Corbett AH. (2017) The RNA-binding protein, ZC3H14, is enriched in axons of primary hippocampal neurons and required for proper brain function in mice. *Human & Molecular Genetics* Oct 1;26(19):3663-3681. PMID: 28666327.

27. Ciavatta VT, Bichler EK, Speigel IA, Elder CC, Teng SL, Tyor WR, **García PS**. (2017) In vitro and ex vivo neurotoxic effects of efavirenz are greater than those of other common antiretrovirals *Neurochemical Research* Nov;42(11):3220-3232. PMID: 28770436
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31. McGregor KM, Crosson B, Mammino K, **García PS**, Nocera JR. (2018) Influences of 12-Week Physical Activity Interventions on TMS Measures of Cortical Network Inhibition and Upper Extremity Motor Performance in Older Adults-A Feasibility Study. *Frontiers in Aging Neuroscience* Jan 4;9:422. PMID: 29354049
32. LaBarbera V, **García PS**, Trotti LM. (2018) Central disorders of hypersomnolence, restless legs syndrome, and surgery with general anesthesia: Patient perceptions. *Frontiers in Systems Neuroscience* Mar 20;12:99. PMID: 29615884
33. Hight DF, Sleigh JW, Winders J, Voss LJ, Gaskell A, Rodriguez AD, **García PS**. Inattentive delirium versus disorganized thinking: a new axis to subcategorize PACU delirium. (accepted: *Frontiers in Systems Neuroscience*)

b. Manuscripts Submitted

1. **García PS**, Hight D, Kreuzer M, Sleigh JW. Influence of noxious stimulation on anesthetic “depth” (invited revision: *British Journal of Anaesthesia*)
2. Hesse S, Singh D, Kreuzer M, Whalin MK, Lee S, Hight D, Gaskell A, Sleigh JW, **García PS**. Predictors of PACU Delirium in the Immediate Postoperative Period in Surgical Patients Receiving General Anesthesia a Prospective Cohort Study (invited revision: *British Journal of Anaesthesia*)
3. Speigel, I, Fidler J, Ma CM, Bichler EK, Gooch JL **García PS**. Chronic Calcineurin Inhibition Impairs Visuospatial Learning After Isoflurane Anaesthesia. (invited revision: *Anesthesia & Analgesia*)
4. Moore L, Pardue M, Liu J, Fidler J, **García PS**. Comparing the effects of yohimbine and atipamezole after anesthesia with ketamine combined with xylazine. (Under review: *PLOSOne*)
5. Voss LJ, **García PS**, Hentcshe H, Banks, M. Understanding the effects of general anesthetics on cortical network activity using ex vivo preparations (invited revision: *Anesthesiology*)

6. Kreuzer M, Keating G, Haertner L, Sinon CG, Hajjar I, Ciavatta VT, Fenzl T, Rye DB, Cohen RM, **García PS** Sleep/Wake Behavior and Electroencephalographic Signatures of the TgF344-AD Rat Model: Findings from the Early Disease Onset Stage (invited revision: *Neurobiology of Aging*)
7. Rajamani N, **García PS**, Sleigh JW, Kreuzer M. EEG time-domain normalization can facilitate the use of absolute spectral power in diverse data sets (in revision: *Physiological Reports*)
8. Safavynia SA, Arora S, Pryor KO, **García PS**. An update on postoperative delirium: Clinical features, neuropathogenesis, and perioperative management. (Under review: *Current Anesthesiology Reports*)

c. Review Articles:

1. **García PS**, Gulati A, Levy JH. (2010) The role of thrombin and protease-activated receptors in pain mechanisms. *Thrombosis and Haemostasis*. 2010 Jun;103(6):1145-51. PMID: 20431855.
2. Thaler AM, Siry R, Cai L, **García PS**, Chen L, Liu R. (2012) Memory Loss, Alzheimer's Disease and General Anesthesia: Scientific Evidence vs Public Concern. *Journal of Anesthesia and Clinical Research* 3(2): 192-6. PMID: 2385374.
3. Farish SE and **García PS**. (2013) Capnography: A Timely Review. *Journal of Anesthesia and Clinical Research* 4(3): March 18; 4(3):295-303. PMID: 24459603.
4. Woodbury A, Yu SP, Wei L, **García PS**. (2013) Neuromodulating Effects of Honokiol: A review. *Frontiers in Neurology* Sep 11;4:130. PMID: 24062717.
5. Arora S, Gooch J, **García PS**. (2014) Postoperative Cognitive Dysfunction, Alzheimer's Disease, and Anesthesia. *The International Journal of Neuroscience* 124(4):236-242. PMID: 23931049.
6. **García PS**, Duggan E, McCullough I, Lee S, Fishman D. (2015) Post-Anesthesia Care for the Elderly Surgical Patient. *Clinical Therapeutics* Dec 1; 37(12):2651-65. PMID: 26598176.
7. Woodbury A, Soong SN, Fishman D, **García PS**. (2016). A review of complementary and alternative medicine techniques for the anesthesiologist and pain practitioner: a narrative review. *Canadian Journal of Anesthesiology* Jan; 63(1):69-85. PMID: 26467546.
8. Hernandez BA, Lindroth H, Rowley P, Boncyk C, Gaskell A, **García PS**, Raz A, Sleigh JW, Sanders RD. (2017) Post Anesthesia Care Unit Delirium: Incidence, Risk Factors and Associated Adverse Outcomes. *British Journal of Anaesthesia* Aug 1;119(2):288-290. PMID: 28854553
9. Spiegel I, Bichler EK, **García PS**. (2017) "The Influence of Regional Distribution and Pharmacologic Specificity of GABAAR Subtype Expression on Anesthesia and Emergence" *Frontiers in Systems Neuroscience* Aug 22;11:58 PMID: 28878632

d. Book Chapters:

1. **García PS**, Sebel P. (2010) Current Controversies in Intraoperative Awareness I. in *Consciousness, Awareness and Anesthesia*, George A. Mashour ed., Cambridge University Press.
2. **García PS**, Whalin MK, Sebel P. (2012) Chapter 9: Intravenous Anesthetics in *Anesthetic Pharmacology* Hemmings and Egan eds., Elsevier
3. Whalin, MK, Haack CI, Buchman T, **García PS**. (2012) Chapter 7: Airway Management in *Acute Care Surgery* Britt ed. Lippincott, Williams, & Wilkins

4. **García PS**, Whalin MK, Sebel P. (2017) Chapter 10: Intravenous Anesthetics in *Anesthetic Pharmacology* Hemmings and Egan eds., Elsevier

e. Book Reviews:

García PS, (2013) The Genome Generation by Elizabeth Finkel, PhD, reviewed in *Anesthesia and Analgesia* 2013 116;(6):1395

f. Manuals, Videos, Computer Programs, and Other Teaching Aids:

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.

g. Published Abstracts:

1. **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.
2. Csete ME, **García P**, Alvarez A, Kambadur R. (2006) Myostatin levels in liver transplant patients. *LIVER TRANSPLANTATION*, May; 12(5), C121
3. 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

h. Editorials & Other Correspondences:

1. 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;
2. **García PS**. Safavynia SA, Keating G, Spiegel I, Fidler J, Kreuzer M, Rye DB, Jenkins, A. (2017) Response to Letter to Editor *Anesthesiology* Feb;126(2):352-353. PMID: 28098616
3. **García P**, Sleigh JW. (2017) Ketamine a drug at war with itself. *Anesthesiology*. Mar;126(3):371-372. PMID: 28099245
4. Kreuzer M, Schneider G, **García PS**. (2017) Response to Peterson et al., The Input Is Reflected in the Output: Evaluating Neurophysiologic Monitors With Simulated Data. *Anesth Analg*. Apr 17 12(4). PMID: 28319506