Stephan G. Anagnostaras, Ph.D.

Curriculum Vitae (May 2017)

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Research Interests

Integration of molecular genetics and cognitive neuroscience in mice, in the areas of:

Cognitive Enhancers
Psychostimulants and ADHD
Memory processes and addiction
Systems Memory Consolidation
Fear and Anxiety

Education

Ph.D., University of California, Los Angeles, Behavioral Neuroscience	1998
M.A., University of California, Los Angeles, Behavioral Neuroscience	1995
B.S., University of Michigan, Ann Arbor, Psychology/Natural Science	1993

Primary Appointments

University of California, San Diego

Associate Professor (with tenure) of Psychology and Neurosciences 2010-

- Experimental Psychology Program
- Cognitive and Behavioral Neuroscience program
- Neurosciences Interdisciplinary Graduate Program
- Cognitive Science Interdisciplinary Program
- Warren Undergraduate College

Assistant Professor of Psychology and Neurosciences 2003-2009

Other Appointments

University of California, Irvine 2004-

Faculty Fellow, Center for the Neurobiology of Learning and Memory

Member, Scientific Advisory Board

Med-Associates, Inc., Georgia, VT	2004-
Catamount Research and Development, St. Albans, VT	2008-
Florida Research Instruments, Cocoa Beach, FL	2010-

Previous Experience

Emory University, Atlanta, GA
Assistant Professor of Psychology, Neuroscience & Behavioral Biology, and Center for Behavioral Neuroscience — 2001-2003

UCLA Medical School
Research Associate in Neurobiology — 2000-2001
Co-director UCLA Mouse Behavioral Core Facility
Postdoctoral Fellow (Alcino Silva's laboratory) — 1998-2001

University of California, Los Angeles
Graduate Student Researcher in Psychology (Michael Fanselow's laboratory) 1993-1998

University of Michigan, Ann Arbor — 1991-1993
Research Assistant in Neuroscience (Terry Robinson's laboratory)

Grants & Awards

NIH/NIDA R21 R21DA045355 ($412,500),
Psychostimulants: Use and Abuse, pending — 2017-2019

Chancellor's Academic Integrity Award — 2014

NIH/NIDA R01 DA020041 ($1,514,085), Molecular Cognition of Addiction — 2007-2013

Chancellor's Interdisciplinary Collaboratory Grant ($60,000) — 2011-2012
Structural Remodeling in the mouse brain following chronic and acute administration of cocaine as detected by ultra-high field strength MRI

Chancellor's Interdisciplinary Collaboratory Grant ($120,000) — 2009-2011
Neural mechanisms of sleep-dependent memory consolidation

Hellman Fellowship ($10,000), Memory processes in stimulant addiction — 2007-2008

NIH/NIA R03 AG22183 ($76,000) — 2003-2005
Role of cholinergic M1 receptor in memory and cognition

NIH/NIDA R03 DA16635 ($76,000) — 2003-2005
Memory processes governing stimulant sensitization

NARSAD Young Investigator Award ($90,000) — 2003-2005
Unlearned anxiety, conditioned fear, and the hippocampus

NIH/NINDS-NIA F32 NS10932 ($111,232) 1999-2002
CREB, protein synthesis, and spatial map stability

UCLA Claudia Mitchell Kernan Dissertation Year Fellowship 1997-1998

NIMH Institutional predoctoral National Research Service Award 1993, 1996

UCLA University Fellowship 1993-1994

University of Michigan, Walter B. Pillsbury Prize 1993
"Most distinguished undergraduate dissertation"

Mentored Grants

Kristin Howell, NSF Graduate Fellowship 2010-2013

Suzanne C. Wood, NIH/NIDA NRSA F31DA026259 2008-2010

Aimee M. Wilson, NIH/NIMH NRSA F31MH074292 2005-2008

Suzanne C. Wood, NSF Graduate Fellowship 2005-2008

Languages Spoken

English – fluent/advanced

Greek – fluent

German – fair

Teaching Experience

Note: CAPE is a student survey instructor evaluation system. Key questions include whether or not the student recommends the class or the instructor; these percentages are shown for each class as an average of all of the times I have taught that class. Further data are available at http://cape.ucsd.edu/scripts/statistics.asp?Name=anagnostaras

University of California, San Diego 2003-

Undergraduate

Drugs and Behavior, Psychopharmacology (Psyc 181) [class, 92%; instructor, 90%]
Neurobiology of Learning and Memory (Psyc 171) [class, 89%; instructor, 92%]
Memory and Amnesia (Psyc 144) [class, 96%; instructor 100%]
Neuroscience, Psychol., & Pharm. of Antiquity (Psyc 193) [class, 100%; instructor 100%]

Graduate

Neurobiology of Learning and Memory [Psyc 271]

Other teaching:

Anxiety Disorders Clinic (VAMC La Jolla/UCSD Psychiatry Residents)
Behavioral and cognitive neuroscience of fear

UCSD Summer Global Seminars (Athens, Greece) 2012-

Neuroscience, Psychology, & Pharmacology of Antiquity

Study abroad summer program. I lead 28 students to Greece for 5 weeks to study the origins of pharmacology and medicine. This is an highly stimulating program I developed myself that includes visits to the medical school of Hippocrates on Kos and temple of Asclepius at Epidaurus. The students attend classes and take extensive field trips that constitute the *Drugs and Behavior* (Psyc 181) and *Neuroscience, Psychology, and Pharmacology of Antiquity* (Psyc 193) courses for 8 credit units. The program is rigorous: students learn the pharmacology of over 300 psychoactive drugs; they reenact the death of Socrates as described by Plato in order to evaluate the accuracy of the behavioral effects described for poison hemlock; they write a paper comparing the ancient pharmacopeia of Dioscorides with modern drugs in the USP; they evaluate claims that volatile psychoactive gases found in certain caves in Greece could have contributed to the prophesies of the Oracle of Delphi and those of John of Patmos when he wrote *Revelation*. Students often describe the program as the best educational experience of their lives. CAPE average: 100% recommend Class and 100% recommend Instructor (5 years).

Med-Associates Inc., St. Albans, VT
Annual summer course organizer

Classical Fear Conditioning as a Tool for Assessing Learning and Memory: the Acoustic Startle Reflex and The Freeze Response (with Eddie Meloni, Harvard-McLean) 2006-2007

Classical Fear Conditioning and Morris Water Maze (with Gerry Herrera, Catamount Research) 2008-2011

Measuring Behavior, 2010, Eindhoven, Netherlands August 2010

Pavlovian Conditioned Freezing: A Practical Tutorial (full day tutorial for 90 students)

American Psychological Association Summer Institute July/Aug 2008

Summer program to promote entry of top scholars and underrepresented minorities into psychological science.

Emory University, Atlanta, GA 2001-2003

Undergraduate

Psychology 323/Neuroscience & Behavioral Biology 476: Drugs and Behavior
Psychology/Biology 322: Biological Basis of Learning and Memory

Graduate

Psychology 770: Neurobiology of Learning and Memory

Cold Spring Harbor Laboratory, Cold Spring Harbor, NY 2000-2003

Summer Course Organizer
Mouse Behavior (Organized with A Silva, M Gallagher, M Fanselow, or M Mayford)

University of California, Los Angeles 1993-1998

Psychology 42: Research Methods in Psychology
Psychology 110: Fundamentals of Learning
Psychology 115: Principles of Behavioral Neuroscience
Psychology 116: Behavioral Neuroscience Laboratory

Teaching Interests

Pharmacology/Neuropharmacology/Behavioral Pharmacology
Neurobiology of Learning and Memory
Learning and Animal Behavior
Behavioral and Systems Neuroscience
Fear and Emotion
Behavior Genetics
History of Medicine/Pharmacology/Neuroscience

Research Sponsorship

University of California, San Diego

Graduated PhD students (primary advisor):

Kristin Howell, PhD, 2009-2016, Currently Associate Consultant at ZS Associates

Stephanie Carmack, PhD, 2008-2014, Currently Post-doctoral Research Fellow, NIDA IRTA

Suzanne Wood, PhD, 2004-2010. Currently Assistant Teaching Professor at University of Toronto, Department of Psychology.

Denise Cai, PhD, 2006-2010. Currently Assistant Professor, Mount Sinai School of Medicine, Department of Neuroscience

Tristan Shuman, PhD, undergraduate honors thesis student (2005-6); PhD student 2006-2011. Currently Assistant Professor, Mount Sinai School of Medicine, Department of Neuroscience

Current Students

Maddie Pantoni, MA, PhD student (Psychology), research advisor, 2016–

Lori Mandjikian, BS-MS student (Biology), research advisor 2017-

Leen Hammam, BS-MS student (Biology), research advisor 2017-

Molly Lobsinger, BS Honors Thesis Student (Psychology), research advisor 2017-

Bradley Monk, MA, PhD student (Psychology), research advisor, 2011–

Michael Claffey, MA, PhD student (Psychology), research advisor, 2009–

Other Completed PhD, MA, or honors theses

Oliver Mrowczynski, Biology Joint BS/MS student, 2010-2012

Emilie Schwager (Raes), Neurosciences IDP PhD Rotations student, 2010

Jeremy Biane, Neurosciences IDP PhD Rotations student, 2007

Jeesun Kim, undergraduate honors thesis, 2006; Psyc Joint BS/MA Student, 2006-2007

Aimee Wilson, MA, 2004, NIMH NRSA fellow, research advisor, 2002–2008.

Anne Marie Ferruzi, undergraduate honors thesis student, 2009-2010

Kelly Cavanaugh, undergraduate honors thesis student, 2008–2009

Michael Newnam, MA student, 2006-2007

Pierre Apostolides, undergraduate honors thesis student, 2004–5

Undergraduate supervised research advisor

Psychology, Biology, or Cognitive Science directed study 99/196/199:
Over 160 students, serving over 210 quarters

Volunteers over 15

Structured Academic Internship (placements at local Biotech companies) 9

Diversity Programs
STARS (minority summer internship): Melissa Guaderrama (CSUSM), Shane Allen (CSUSM), Lilian Patron (U. Arizona), Michelle Autry (Agnes-Scott College), Carina Block (UCSD)

Bridges to the Future (Mesa College, minority internship): Alice Coutinho, Nathan Nowak

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Invited Colloquia

Forum on Education Abroad: Crazy Like Us — June 2014
Panel debate on globalization of "American" mental illness.

Psychostimulants and Memory
University of California, Riverside (Neuroscience Program) — Oct 2012
ASPET, 2013, Boston MA — Apr 2013

Behavioral Measures of Pavlovian Fear Conditioning — Nov 2010
"Fear conditioning" symposium, Noldus Inc., 2010 Society for Neuroscience

Pavlovian Conditioned Freezing: Practical Tutorial — Aug 2010
Measuring Behavior 2010, 7th International conference on methods and techniques in behavioral research, Eindhoven, Holland

Retrograde amnesia as a Therapeutic for Conditioned Fear — Aug 2010
American Psychological Association, 2010 Convention, San Diego, CA

Sleep and Memory — Dec 2009
Office of the Special Activities, Chief Scientist for the Director of National Intelligence, Molecular Biology Series, held at MITRE Inc., McLean, VA

Cognitive, Systems and Molecular Approaches to Memory Consolidation
Scripps Florida, Jupiter, FL — Nov 2009

Sleep and Pavlovian Fear Conditioning — June 2009
UCLA Brain Research Institute

Amnesia in animals; the hippocampus and context conditioning
Med-Associates Inc., St. Albans, VT. — Aug 2008

The role of the anterior cingulate in fear conditioning
"Cortical Networks in Memory" symposium, 2007 Society for Neuroscience Aug 2007

Pavlovian conditioned freezing: methods and theory
Med-Associates Inc., St. Albans, VT July 2006

The Hippocampus and Pavlovian Fear Conditioning Oct 2005
Merck Neurosciences Seminar Series

Emotional experience and memory formation April 2005
International Union of Physiological Scientists (IUPS), San Diego

Hippocampus and memory June 2004

UCLA Brain Research Institute

Neuroscience in the genomics era, Brain Expo, Coronado, CA Jan 2005
Memory: from genes to cognition, Brain Expo, Coronado, CA

High throughput reverse genetic screen for enduring memory defects in mice
Med-Associates Inc., St. Albans, VT July 2007
UCSD Cognitive Science May 2005
University of Tennessee, Memphis, Anatomy & Neurobiology March 2003
University of Washington, Seattle, Psychology Feb 2003

The strange case of the M1 muscarinic receptor knockout mice
Cold Spring Harbor Laboratory, NY July 2003

Cognitive molecular neuroscience of memory
University of Michigan, Ann Arbor, Psychology March 2003
University of Washington, Seattle, Psychology Feb 2003
University of Vermont, Burlington, Psychology Feb 2003
Dartmouth College, Psychology Feb 2003
University of Indiana, Bloomington, Psychology Feb 2003
University of California, San Diego, Psychology Feb 2003
University of Michigan, Ann Arbor, Mental Health Research Institute Jan 2003
University of Pittsburgh, Psychology Jan 2003
University of British Columbia, Vancouver, Psychology Jan 2003

Neuroanatomic and genetic substrates of memory
University of Wisconsin, Madison, Psychology Dec 2000
University of Texas, Arlington, Psychology Dec 2000
Carnegie-Mellon University, Biological Sciences Jan 2001
Oregon Health Sciences University, Behavioral Neuroscience Feb 2001
Emory University, Psychology Feb 2001
Boston College, Psychology Feb 2001
State University of New York, Stony Brook, Psychology March 2001

Retrograde amnesia of fear
University of Texas, Austin, Psychology Feb 2000
University of Hawaii, Manoa, Psychology Feb 2000
University of Oregon, Eugene, Psychology March 2000

Review Service

Journal reviewer

Review Editor: Frontiers in Neuroscience/Frontiers in Behavioral Neuroscience.

Ad hoc: Addictive Behaviors, Behavioral Brain Research, Behavioral Neuroscience, Brain Research, Current Biology, Genes Brain and Behavior, Hippocampus, Integrative Physiological and Behavioral Science, Journal of Neuroscience, Learning and Memory, Molecular Psychiatry, Pharmacology Biochemistry and Behavior; Nature Medicine; Neurobiology of Learning and Memory, Neurobiology of Aging, Neuropharmacology, Neuropsychopharmacology, Neuroscience Letters, PNAS-USA, Progress in Neuropsychopharmacology, Psychopharmacology, Quarterly Journal of Experimental Psychology

Grant reviewer NIDA/SEP CEBRA grant reviewer (2005); NIMH/SEP B/START grant reviewer (2005-2006); Marsden Fund Reviewer [Australia] (2006); UCLA CNS Pilot and Feasability program reviewer (2006); NIDA CSR SEP Panel–Member (2011, 2013, 2014), Italian Ministry of Health Grant reviews (2010, 2013-2015, 2017)

University Service

University of California, San Diego

Chancellor's Academic Integrity Awards Committee, 2016-

Teaching Professor Search Committee, 2014/15, 2015/16

Academic Integrity Review Board, 2013-

Study Abroad Departmental Representative, 2013-

Diversity Committee, 2012-

Psychology Colloquium Committee, 2012-2015

Institutional Animal Care and Use Committee (IACUC), 2008-

Undergraduate Affairs Committee, 2010-2012, 2014-

Computer and Website committee, 2004-2010

Neuroscience and Behavior Search Committee, 2007/8

Cognitive Neuroscience Atkinson Endowed Chair Search Committee, 2004/5

Biopsychology Faculty Search Committee, 2003/4

Student Committees (non-advisor)

Maria Delgadillo (Literature), MFA Committee, 2016-
Thijs Walbeek (Psychology), PhD Committee, 2016-
Andre Desouza (Neurosciences) minor prop committee, 2017
Jennifer Winward (Psychology), PhD committee, 2011–2014
Christina Nigro (Neurosciences), minor prop committee, 2011-2012
Cara Buck (Psychology), PhD committee co-chair, minor prop committee, 2010–2014
Note: co-advisor with George Koob
Liz Harrison (Psychology), PhD committee, 2010–2014

Aleena Garner (Neurosciences), PhD committee, 2010–2012
Mandy Sinning (Psychology), PhD committee, 2010–2014
Emily Mankin (Neurosciences), PhD committee 2010-2012
Katherine Meltzhoff (Psychology), PhD committee, 2010–2014
Tresa McGranahan (Neurosciences), PhD committee, 2009–2010
Jason Thompson (Neurosciences), PhD committee, 2008-2010
Adam Koerner (Neurosciences), minor prop committee, 2009–2010
Gena Glickman (Psychology), PhD committee 2008–2013
Rayna Brooks (Neurosciences), minor prop committee, 2009–2010
Peter Wais (Psychology), PhD Committee and qualifying committee 2006-2008
Jeremy Biane (Neurosciences), minor prop committee, 2008
Dan Knudson (Neurosciences), PhD and minor prop committee, 2008–1012
Evan Raiewski (Psychology), PhD and qualifying committee, 2008–2013
Kevin Dooley (Psychology), PhD and minor prop committee, 2007–201.
Kadimah Elson (Psychology), qualifying committee, 2007
Jennifer Trujillo (Psychology), PhD and qualifying committee, 2007–2009
Jena Hales (Neurosciences), minor prop committee, 2008
Hanie Elfenbein (Neurosciences) minor prop committee, 2008
Ali Fenstermaker (Neurosciences), minor prop committee, 2007
Austin Nelson (Neurosciences), pre-candidacy committee, 2006
Sam Nummela (Neurosciences), minor prop committee, 2006
Laura Mickes (Psychology), PhD and qualifying committee, 2006–2010
Daniel Bajic (Psychology), PhD & qualifying committee, 2005–2008
Alecia Schweinsburg (Psychology), PhD & qualifying committee, 2005–2007
Santino Gaitan (Psychology), PhD committee, 2004
John Morgan (Neurosciences), minor prop committee, 2005
Stephanie Boyer (Neurosciences), minor prop committee, 2003

Emory University
Computer Committee, 2001-2003
Faculty Secretary, 2001-2002
Cognitive Neuroscience Faculty Search Committee, 2002/3
PhD committees (non-advisor): Colin William (2002), SangHee Kim (2002), Karyn Myers (2003), Rebecca Herman (2003)
Qualifying exam committees: Deb Shear (2002), Dan Mullins (2001)

Center for Behavioral Neuroscience, Atlanta, GA

Graduate Affairs Committee, 2001-2003
Behavioral Core Facility Committee, 2001-2003

University of California, Los Angeles
Behavioral Core Facility Director, 2000-2001

Professional Membership

American Association for the History of Medicine, American Society for Pharmacology and Experimental Therapeutics, Molecular & Cellular Cognition Society, Pavlovian Society, Society for Neuroscience

Short Courses Taken

DNA Microarrays: The New Frontier in Gene Discovery and Gene Expression Analysis, San Diego, CA, 2001

Single and Multiunit Recording and Analysis, Longmont, CO, 1998

IACUC 101, San Francisco, CA, 2008

Publications

Currently Submitted

Carmack SA, Scudder SL, Howell KK, Patrick GN, Gu HH, Anagnostaras SG (submitted). Obligatory role for the dopamine transporter in learning and memory. (research article)

Cai DJ, Shuman T, Sage JR, Anagnostaras SG (under revision). Zolpidem-induced sleep and amnesia are functionally coupled: dose-effect analysis on Pavlovian fear conditioning. (research article)

Howell KK, Gonzales FR, Dozier LE, Anagnostaras SG, Patrick GN (under revision). Proteasome phosphorylation regulates cocaine-induced sensitization. (research article)

Shuman T, Cai DJ, Monk BR, Howell KK, Claffey MP, Baumgärtel K, Mayford M, Anagnostaras SG (under revision). Dorsal striatum contains a stable neural correlate of drug-seeking behavior after a single exposure to cocaine. (research article)

Published

Total citations as of May 2017: 5,430 H-Index: 29

When available, {#} following reference indicates Google Scholar citations as of May 2017

Full-text .pdf downloads available at http://mocolab.ucsd.edu/Publications.html

Carmack SA, Koob GF, Anagnostaras SG (in press). Learning and Memory in Addiction. In Learning and Memory: A comprehensive Reference, 2nd Edition, John H. Byrne, ed. Academic Press: Cambridge, MA. (review, book chapter)

Harrison EM, Carmack SA, *Block CL*, Sun J, Anagnostaras SG, Gorman MR (2017). Circadian waveform bifurcation, but not phase-shifting, leaves cued fear memory intact. Physiology & Behavior, 169, 106-113. {1} (research article)

Anagnostaras SG, Sage JR, Carmack SA (2015). Pavlovian Fear Conditioning. In Encyclopedia of Psychopharmacology, 2nd Ed. Springer: Berlin. {3} (book chapter)

Carmack SA, *Block CL*, Howell KK, Anagnostaras SG (2014). Methylphenidate enhances acquisition and retention of spatial memory. Neuroscience Letters, 567, 45-50. {8} (research article)

Howell KK, Monk BR, Carmack SA, Mrowczynski OD, Clark RE, Anagnostaras SG (2014). Inhibition of PKC disrupts addiction related memory. Front Behav Neurosci 8, 1-9. doi: 10.3389/fnbeh.2014.00070. {8} (research article)

Carmack SA, Howell KK, Rasaei K, Reas ET, Anagnostaras SG (2014). Animal model of methylphenidate's memory enhancing effects. Learning & Memory, 21:82-89. {17} (research article)

Wood SC, Sage JR, Shuman T, Anagnostaras SG (2014). Psychostimulants and Cognition: A Continuum of Behavioral and Cognitive Activation. Pharmacological Reviews, 66, 193-221. {91} (major review)

Nelson PA*, Sage JR*, Wood SC, Davenport CM, Anagnostaras SG, Boulanger LM (2013). MHC class I immune proteins are critical for hippocampus-dependent memory and gate NMDAR-dependent hippocampal long-term depression. Learning & Memory 20, 505-17. doi: 10.1101/lm.031351.113. *co-first author. {14} (research article)

Carmack SA, Kim JS, Sage JR, *Thomas AW, Skillicorn KN*, SG Anagnostaras SG (2013). The competitive NMDA receptor antagonist CPP disrupts cocaine-induced conditioned place preference, but spares behavioral sensitization. Behavioural Brain Research, 239, 155-63. doi: 10.1016/j.bbr.2012.10.042. {15} (research article)

Shuman T, Cai DJ, Sage JR, Anagnostaras SG (2012). Interactions between modafinil and cocaine during the induction of conditioned place preference and locomotor sensitization in mice: Implications for addiction. Behav Brain Res, 235, 105-12. doi: 10.1016/j.bbr.2012.07.039. {18} (research article)

Mednick SC, Cai DJ, Shuman T, Anagnostaras SG, & Wixted JT (2011), An opportunistic theory of cellular and systems consolidation. Trend Neurosci. 34, 504-14. doi: 10.1016/j.tins.2011.06.003. {100} (review and theoretical paper)

Wood SC, & Anagnostaras SG (2011). Interdependence of measures in Pavlovian conditioned freezing. Neuroscience Letters, 505, 134-9. doi: 10.1016/j.neulet.2011.10.006. {13} (research article)

Anagnostaras SG, Sage JR, & Carmack SA (2010) Pavlovian fear conditioning. In Encyclopedia of Psychopharmacology (Ed: Ian Stolerman), Springer. (tutorial)

Anagnostaras SG & Sage JR (2010) Ch. 18. Motivation. In Encyclopedia of Behavioral Neuroscience (Ed: George Koob, Michel Le Moal, & Richard Thompson), Elsevier. (tutorial)

Carmack SA, Wood SC, & Anagnostaras SG (2009) Amphetamine and extinction of cued fear. Neuroscience Letters, 468, 18-22. doi:10.1016/j.neulet.2009.10.049 {20} (research article)

Anagnostaras SG, Wood SC, Shuman T, Cai DJ, LeDuc AD, Zurn KR, Zurn JB, Sage JR and Herrera GM (2010) Automated assessment of Pavlovian conditioned freezing and shock reactivity in mice using the VideoFreeze system. Frontiers in Behavioral Neuroscience:158. doi: 10.3389/fnbeh.2010.00158 {62} (research article)

Cai DJ, Shuman T, Harrison EM, Sage JR, & Anagnostaras SG (2009), Sleep deprivation and Pavlovian fear conditioning. Learning & Memory, 16, 595-99. doi: 10.1101/lm.1515609 {14} (research article)

Cai DJ, Shuman T, Gorman MR, Sage JR, & Anagnostaras SG (2009). Sleep selectively enhances hippocampus-dependent memory in mice. Behavioral Neuroscience, 123, 713-19. doi: 10.1037/a0016415 {55} (research article)

Shuman T, Wood SC & Anagnostaras, SG (2009). Modafinil and Memory: Effects of Modafinil on Morris Water Maze Learning and Pavlovian Fear Conditioning. Behavioral Neuroscience, 123, 257-66. doi: 10.1037/a0014366 {48} (research article)

Wood SC & Anagnostaras SG (2009). Memory and psychostimulants: modulation of Pavlovian fear conditioning by amphetamine in C57BL6/J mice. Psychopharmacology, 202, 197-206. doi: 10.1007/s00213-008-1185-9 {35} (research article)

Matynia A, Anagnostaras SG, Wiltgen BJ, Lacuesta M, Fanselow MS, & Silva AJ (2008). A high through-put reverse genetic screen identifies two genes involved in remote memory in mice. Public Library of Science (PLoS) ONE, 3, e2121, 1-11. doi:10.1371/journal.pone.0002121 {22} (research article)

Wood SC, *Fay J*, Sage JR, & Anagnostaras SG (2007). Cocaine and pavlovian fear conditioning: dose-effect analysis. Behavioral Brain Research, 176, 244-50. doi:10.1016/j.bbr.2006.10.008 {29} (research article)

Wiltgen BJ, Sanders MJ, Anagnostaras SG, Sage JR, Fanselow MS (2006). Context fear learning in the absence of the hippocampus. Journal of Neuroscience, 26, 5484-91. {230} (research article)

Gale GD, Anagnostaras SG, Godsil BP, Mitchell S., Nozawa T, Sage JR, Wiltgen B, & Fanselow MS (2004) Role of the Basolateral Amygdala in the Storage of Fear Memories Across the Adult Lifetime of Rats. Journal of Neuroscience, 24, 3810-5. {307} (research article)

Frankland PW, Josselyn SA, Anagnostaras SG, Kogan JH, Takahashi E & Silva AJ (2004) Consolidation of CS and US representations in associative fear conditioning. Hippocampus, 14, 557-69. {130} (research article)

Sage JR, Anagnostaras SG, Mitchell S., Masterman D, Bronstein JM, DeSalles A, & Knowlton BJ (2003) Analysis of probabilistic classification learning in patients with Parkinson's disease before and after pallidotomy surgery. Learning & Memory, 10, 226-36. {46} (research article)

Anagnostaras SG, Murphy GG, Hamilton SE, Mitchell SL, Rahnama NP, Nathanson, NM, & Silva AJ (2003) Selective cognitive dysfunction in acetylcholine M_1 muscarinic receptor mutant mice. Nature Neuroscience, 6, 51-8. {405} (research article)

Anagnostaras SG, Schallert T, & Robinson TE (2002) Memory processes governing amphetamine-induced psychomotor sensitization. Neuropsychopharmacology, 26, 703-15. {162} (research article)

Anagnostaras SG, Gale GD, & Fanselow MS (2002) The hippocampus and Pavlovian fear conditioning: Reply to Bast et al. Hippocampus, 12, 561-5. {30} (theoretical paper)

Matynia A, Anagnostaras SG, & Silva AJ (2001) Weaving the molecular and cognitive strands of memory. Neuron, 32, 557-9. {16} (minor review)

Gale GD, Anagnostaras SG, & Fanselow MS (2001) Cholinergic modulation of Pavlovian fear conditioning: effects of intrahippocampal scopolamine infusion. Hippocampus, 11, 371-6. {87} (research article)

Hamilton SE, Hardouin S.N., Anagnostaras SG, Murphy GG, Richmond KN, Silva AJ, Feigl EO, & Nathanson NM (2001) Alteration of cardiovascular and neuronal function in M_1 knockout mice. (mini-review) Life Sciences, 68, 2489-93. {27} (research article)

Anagnostaras SG, Gale GD, & Fanselow MS (2001) The hippocampus and contextual fear conditioning: recent controversies and advances. Hippocampus, 11, 8-17. {542} (review and theoretical paper)

Ferguson GD, Anagnostaras SG, Silva AJ, & Herschman HR (2000) Deficits in Memory and Motor Performance in Synaptotagmin IV mutant mice. Proceedings of the National Academy of Sciences (USA), 97, 5598-603. {112} (research article)

Anagnostaras SG, Josselyn SA, Frankland PW, & Silva AJ (2000) Computer-assisted behavioral assessment of Pavlovian fear conditioning in mice. Learning & Memory, 7, 58-72. {137} (research article)

Anagnostaras SG, Maren S, Sage JR, Goodrich S., & Fanselow MS (1999) Scopolamine and Pavlovian fear conditioning in rats: dose-effect analysis. Neuropsychopharmacology, 21, 731-744. [Minor erratum appears in Neuropsychopharmacology, v.22, #3]. {114} (research article)

Li HH, Yu WH, Rozengurt N., Zhao HZ, Lyons K., Anagnostaras SG, Fanselow MS, Suzuki K, Vanier M, & Neufeld EF (1999) Mouse model of Sanfillippo syndrome type B produced by targeted disruption of the gene encoding alpha-n-acetylglucosaminidase. Proceedings of the National Academy of Sciences (USA), 96(25), 14505-10. {161} (research article)

Mihalek RM, Banerjee PK, Korpi ER, Quinlan JJ, Firestone LL, Mi ZP, Lagenaur C, Tretter V, Sieghart W, Anagnostaras SG, Sage JR, Fanselow MS, Guidotti A, Spiegelman I, Li Z, DeLorey TM, Olsen RW, & Homanics GE (1999) Attenuated sensitivity to neuroactive steroids in gamma-aminobutyrate type A receptor delta knockout mice. Proceedings of the National Academy of Sciences (USA), 96(22), 12905-10. {454} (research article)

Anagnostaras SG, Craske MG & Fanselow MS (1999) Anxiety: at the intersection of genes and experience. (mini-review & commentary) Nature Neuroscience, 9, 780-2. {48} (commentary)

Anagnostaras SG, Maren S, & Fanselow MS (1999) Temporally-graded retrograde amnesia of contextual fear after hippocampal damage in rats: within-subjects examination. Journal of Neuroscience, 19, 1106-14. {580} (research article)

DeLorey TM, Handforth A., Anagnostaras SG, Homanics GE, Minassian BA, Astourian A, Fanselow MS, Ellison GD, Delgado-Escueta A, & Olsen RW (1998) Mice lacking the beta-3 subunit of the GABA-A receptor have the epilepsy phenotype and many of the behavioral characteristics of the Angelman syndrome. Journal of Neuroscience, 18, 8505-14. {395} (research article)

Anagnostaras SG, Maren S, DeCola JP, Lane NI, Gale GD, Schlinger BA, & Fanselow MS (1998) Testicular hormones do not regulate sexually-dimorphic Pavlovian fear conditioning or perforant-path long-term potentiation in adult male rats. Behavioural Brain Research, 92, 1-9. {38} (research article)

Maren S, Anagnostaras SG, & Fanselow MS (1998) The startled seahorse: Is the hippocampus necessary for contextual fear conditioning? (review) Trends in Cognitive Sciences, 2, 39-42. {107} (review and theoretical paper)

Kim JJ, Shih JC, Chen K, Chen L., Bao S, Maren S, Anagnostaras SG, Fanselow MS, DeMaeyer E, Seif I, & Thompson RF (1997) Selective enhancement of emotional, but not motor, learning in monoamine oxidase A-deficient mice. Proceedings of the National Academy of Sciences (USA), 94, 5929-33. {157} (research article)

Anagnostaras SG, & Robinson TE (1996) Sensitization to the psychomotor stimulant effects of amphetamine: modulation by associative learning. Behavioral Neuroscience, 110, 1397-1414. {308} (research article)

Badiani A, Anagnostaras SG, & Robinson TE (1995) The development of sensitization to the psychomotor stimulant effects of amphetamine is enhanced in a novel environment. Psychopharmacology, 117, 443-52. {163} (research article)

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Note: authors underlined are my graduate student co-authors; authors indicated in *italics* are my undergraduate co-authors.

PhD Dissertation

Neural basis of Pavlovian fear conditioning: Hippocampal and cholinergic contributions.

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