

## CURRICULUM VITAE

**Martin Peter Paulus, MD**

### **PRESENT TITLE AND AFFILIATION**

#### **Scientific Director and President**

Laureate Institute for Brain Research  
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Tulsa, OK 74136-3326  
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email: [mpaulus@laureateinstitute.org](mailto:mpaulus@laureateinstitute.org)  
web: [www.laureateinstitute.org](http://www.laureateinstitute.org)

#### **Adjunct Professor of Psychiatry**

Department of Psychiatry  
Laboratory of Biological Dynamics and Theoretical Medicine  
UC San Diego  
email: [mpaulus@health.ucsd.edu](mailto:mpaulus@health.ucsd.edu)

#### **Professor of Neuroscience**

College of Health Sciences, Community Medicine  
University of Tulsa  
web: [faculty.utulsa.edu/faculty/martin-paulus/](http://faculty.utulsa.edu/faculty/martin-paulus/)

BIRTHDATE: 06/20/1961

CITIZENSHIP: U.S., German

BOARD CERTIFICATION: American Board of Psychiatry and Neurology, March 2009 – December 2029

LICENSE: California A053845, valid until June 2022  
Oklahoma 30434, valid until April 2021

### **TRAINING**

Medical School	Johannes Gutenberg University Mainz, Germany Oct, 1979 - Sep, 1986
Postgraduate Fellowship German Federation of Research	UC San Diego Oct, 1986 - Sep, 1987
Postdoctoral Fellow	UC San Diego Oct, 1987 - Jul, 1990
Assistant Research Psychobiologist	UC San Diego Jul, 1990 - Jun, 1993
Internship	Long Island Jewish Medical Center, Hillside Hospital Jul, 1993 - Jun, 1994
Residency in Psychiatry	UC San Diego Jul, 1994 - Jun, 1996
Fellowship in Biological Psychiatry and Neuroscience	UC San Diego Jul, 1996 - Jun, 1997

### **FACULTY POSITIONS**

Assistant Professor in Residence	UC San Diego Jul, 1997 - Jun, 2000
Staff Psychiatrist	Veterans Affairs San Diego Health Care System Jul, 1997 - Jun, 2018



Associate Professor in Residence	UC San Diego Jul, 1997 - Jun, 2005
Associate Chief of Psychiatry	Veterans Affairs San Diego Health Care System Jul, 1999 - Dec, 2011
Acting Chief of Psychiatry	Veterans Affairs San Diego Health Care System 2011
Director of Telemental Health	Veterans Affairs San Diego Health Care System Dec, 2011 - May, 2014
Professor in Residence	UC San Diego Jul, 2005 - May, 2014
Training Director T32 Fellowship in Biological Psychiatry and Neuroscience	UC San Diego Jul, 2010 - May, 2014
Scientific Director and President of the	Laureate Institute for Brain Research May, 2014 - Present
Adjunct Professor of Psychiatry	UC San Diego May, 2014 - Present
Professor of Psychiatry	University of Oklahoma Health Sciences, Tulsa Campus Jan, 2015 - Present
Professor of Neuroscience	University of Tulsa, College of Community Medicine May, 2015 - Present

#### **HONORS AND AWARDS**

1996	NIMH Outstanding Resident Award
1997	Lewis Judd Resident Research Award
1997	Society for Biological Psychiatry Outstanding Resident Award
2000	National Alliance for the Mentally Ill Young Investigator Award

#### **PROFESSIONAL ORGANIZATIONS**

American Medical Association  
American College for Neuropsychopharmacology  
Anxiety Disorders Association of America  
European Behavioral Pharmacology Society  
Society for Biological Psychiatry  
Society for Neuroscience

#### **EDITORIAL AND REVIEW WORK**

Deputy Editor JAMA Psychiatry

#### **Reviewing Editor / Editorial Board:**

Biological Psychiatry  
Biological Psychiatry-Cognitive Neuroscience and Neuroimaging  
Depression and Anxiety  
Frontiers in Neuroscience  
Neuroscience & Biobehavioral Reviews  
Progress in Neuro-Psychopharmacology & Biological Psychiatry  
Social Neuroscience

**Reviewer for:**

American Journal of Geriatric Psychiatry, American Journal of Psychiatry, Archives of General Psychiatry, Behavioral Brain Research, Behavioral Neuroscience, Biological Psychiatry, Biological Psychiatry - Cognitive Neuroscience and Neuroimaging, Biological Psychology, Brain Imaging and Behavior, Brain Research, Brain Structure and Function, Cerebral Cortex, Cognitive, Affective, and Behavioral Neuroscience, Drug and Alcohol Dependence, Human Brain Mapping, Journal of Affective Disorder, Journal of Cognitive Neuroscience, Journal of Neuroscience, Journal of Neuroscience, Psychology, and Economics, Journal of Psychopharmacology, Journal of Studies on Alcohol, Journal of the American Academy of Child and Adolescent Psychiatry, Nature Neuroscience, Neuroimage, Neuroimage Clinical, Neuron, Neuropsychologia, Neuropsychopharmacology, Pharmacology Biochemistry and Behavior, Physical Review Letters, PLOS one, Proceedings of the National Academy of Science of the U.S.A., Psychiatry Research, Psychiatry Research: Neuroimaging, Psychological Medicine, Psychological Science, Psychopharmacology, Science, Trends in Cognitive Science.

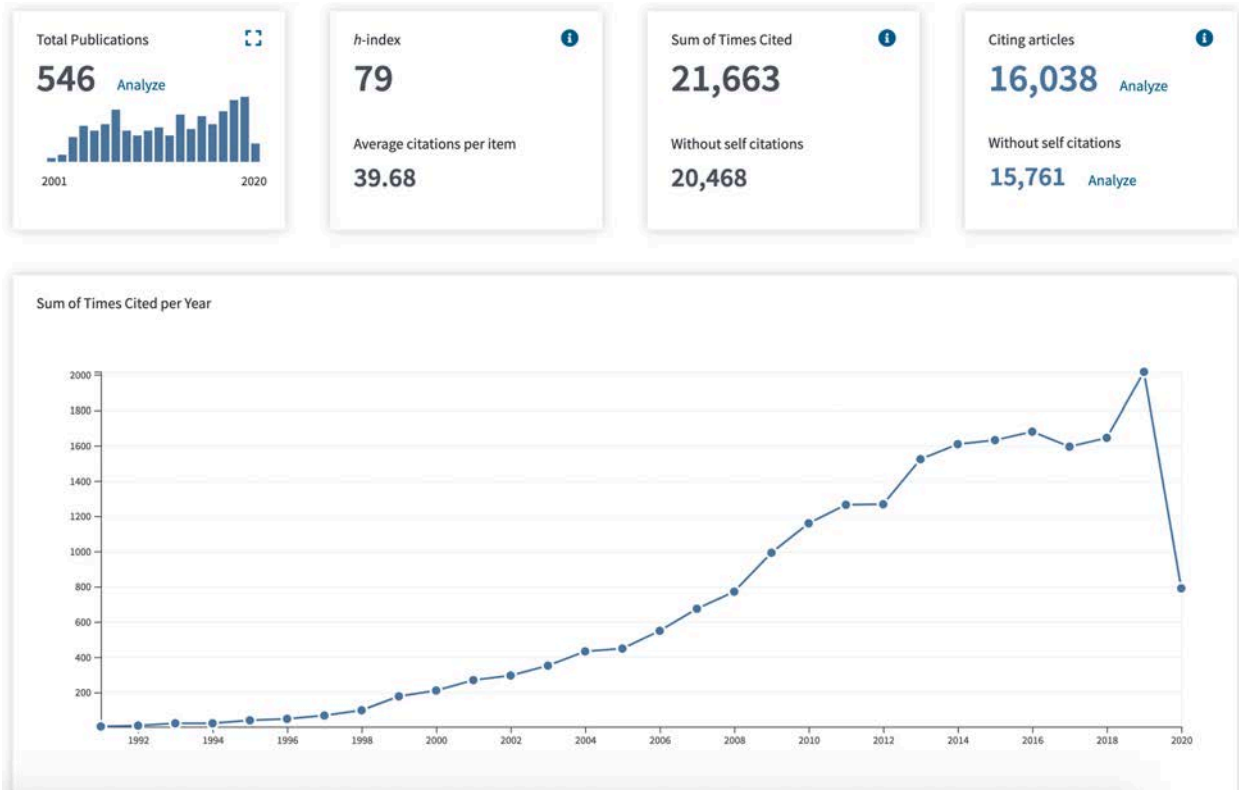
**SERVICE: UNIVERSITY OF CALIFORNIA SAN DIEGO**

1999-2009 Member, Biological Psychiatry Fellowship Committee  
2000-2010 Member, Institutional Review Board  
2010-2011 Member, Search Committee for Medicine Chair

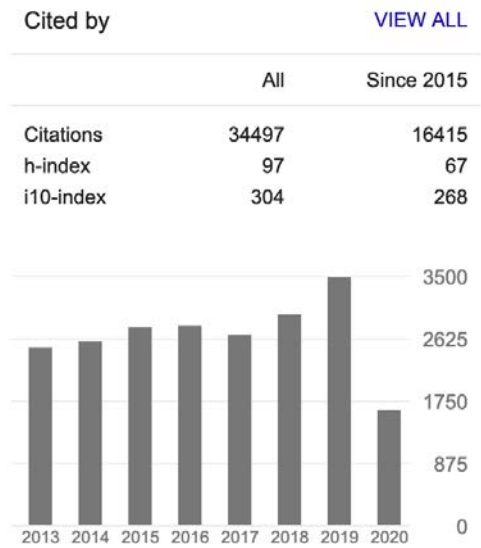
**SERVICE: SCIENTIFIC COMMUNITY**

2000-present Adhoc reviewer, NIMH  
2003-2004 Center grant reviewer, NIH  
2006, 2010 Committee member, ZRG1-SBIB-H(40) Special Emphasis Panel, NIH  
2006, 2010 Committee member, ZRG1 RPHB-H Scientific review group, NIH  
2006-2009 Study section member, Risk, Prevention and Intervention for Addictions (RPIA), NIH  
2007 Roadmap reviewer, NIH  
2007-present Adhoc member, Center Review Committee, NIDA  
2008 Panel Member: "Opportunities in Neuroscience for Future Army Applications, National Academies of Sciences  
2008 Member, Grant Review Committee, DoD  
2010- 2012 Regular member, K-Committee, NIDA  
2010-present Standing review panel member, Behavioral Health & Performance, NASA  
2011 Adhoc member, Intramural Program Review, NIDA  
2011 Member, Board of Scientific Advisors, Laureate Institute for Brain Research  
2012 Reviewer, CDMRP  
2012 Pioneer award reviewer, NIH  
2013 Reviewer, Tobacco Regulation Research, FDA/NIH  
2013 Eureka award reviewer, NIH  
2013 Ad-hoc reviewer, Interventions Committee for Adult Disorders (ITVA), NIH  
2013 Scientific review group member, Special Emphasis Panel 2014/01 ZMH1 ERB-S, NIH  
2013 Scientific review group member, Special Emphasis Panel 2014/01 ITVA S, NIH  
2015 Special Emphasis Panel member, RFA Dimensional Approaches to Research Classification in Psychiatric Disorders, NIMH  
2015 Review panel member, Behavioral Science, NASA  
2015 Member, Merit Behavioral Science Panel, Veterans Affairs  
2015, 2018 Adhoc reviewer, Center for Scientific Review, Adult Psychopathology and Disorders of Aging Study Section, NIH  
2016-present Adhoc reviewer, Center for Scientific Review, MHBA Study Section, NIH  
2018-present Member, Board of Scientific Counselors, NIMH

**Web of Science (5/27/2020):**



**Google Scholar (5/27/2020):**



Dr. Martin Paulus joined the Laureate Institute for Brain Research (LIBR) in Tulsa Oklahoma as the Scientific Director and President in May 2014. Prior to this transition, he had been a Professor in the Department of Psychiatry at the University of California San Diego (UCSD) and the Director of Telemental Health at the Veterans Affairs San Diego Health Care System (VASDHS). Dr. Paulus has published over 300 peer-reviewed publications (some in top tier journals like *Science*, *Nature Reviews Neuroscience*, *PNAS*, *JAMA Psychiatry*, *Lancet Psychiatry*, *Biological Psychiatry*, *Neuropsychopharmacology*, and *the American Journal of Psychiatry*). Dr. Paulus received the UCSD Lew Judd young investigator award, the NAMI young investigator award, and the NIMH Outstanding Resident Award. He is the Deputy Editor of *JAMA Psychiatry* and is on several editorial boards of top-tier psychiatric journals. He has served on

numerous NIH and International Study Sections. Dr. Paulus aims to build research programs that integrate neuroscience with pragmatic goals, i.e. “how can we build the EKG for the psychiatrist?”. To that end, LIBR focuses on using neuroscience approaches to develop better assessments for diagnosis or prognosis of mental health problems and to develop neuroscience based novel interventions. Dr. Paulus’ research focuses on pragmatic academic psychiatry, i.e. that is how to use neuroscience-based measurements to generate individual level predictions that can be useful for clinicians. Moreover, Dr.

Paulus is interested in whether computational approaches can be useful to better develop explanatory basis for psychiatric disorders that can be submitted to rigorous scientific examination.

**SHORT NARRATIVE OF CLINICAL INTERESTS:**




Dr. Paulus' main clinical focus over the past 20 years has been to develop novel ways of providing mental health care to Veterans. Specifically, during his tenure as a VA Psychiatrist, the VA San Diego Healthcare System (VASDHS) was awarded special funds from the Department of Veterans Affairs to establish evidence-based psychotherapy for individuals with post-traumatic stress disorder. Moreover, the VASDHS has been identified as a Regional Center of Excellence for Telemental Health. As the Director of this Center, he was able to utilize these additional funds to determine whether novel treatment delivery using tablet computers and video interface can be useful for both psychotherapy and medication management of psychiatric disorders in Veterans.







**TEACHING AND TRAINING**

- 1997-2014 Psychiatry Resident Instructor, UC San Diego
- 1997-2014 Medical Student Instructor, UC San Diego
- 1997-2015 Supervisor to Postgraduate Fellows, UC San Diego
- 2000-present Member of Neuroscience Faculty, Neuroscience 200C Instructor, UC San Diego
- 2010-2014 T32 Program Director, Fellowship for Biological Psychiatry and Clinical Neuroscience, UC San Diego
- 2017-present Director, NIGMS Center of Biological Research Excellence Program, LIBR





**SUPERVISED STUDENTS, POSTDOCTORAL FELLOWS OR JUNIOR FACULTY**

The following table summarizes my mentorship activity in promoting young researchers to establish themselves in various fields.




<b>Faculty/Postdoctoral Fellows</b>	<b>Research Topic</b>	<b>Supervision</b>	<b>Funding Support or Current Position</b>
<b>Scott Matthews, MD</b> 	The use of fMRI to characterize the neural correlates of emotional, behavioral and autonomic control	7/2003-6/2014	Staff Psychiatrist, VA San Diego Healthcare System Aspire Center
<b>Alan Simmons, PhD</b> 	Neural system dysfunctions in combat veterans returning from Iraq and Afghanistan	7/2003-7/2014	Associate Professor, UCSD
<b>Tony Yang, MD, PhD</b> 	Neural systems dysfunction in adolescent depression	7/2004-6/2012	Associate Professor, UCSF



<p><b>Amanda Grethe, PhD</b></p> 	<p>Relationship between reward mechanisms and motor control in the basal ganglia.</p>	<p>7/2003-7/2010</p>	<p>Associate Professor, UCSD</p>
<p><b>Marc Wittmann, PhD</b></p> 	<p>Neural systems underlying the experience of time.</p>	<p>9/2004-7/2010</p>	<p>Staff Scientist Institute for Frontier Areas of Psychology, Freiburg</p>
<p><b>Irina Strigo, PhD</b></p> 	<p>Neural networks of affective processing in depression</p>	<p>9/2004-7/2009</p>	<p>Associate Professor of Psychiatry, UCSF School of Medicine</p>
<p><b>Sara Mednick, PhD</b></p> 	<p>Pharmac Imaging to determine the neural basis of napping.</p>	<p>7/2007-7/2011</p>	<p>Associate Professor, UC Riverside</p>
<p><b>Estibaliz Arce, PhD</b></p> 	<p>Neural systems underlying resilience</p>	<p>7/2005-7/2009</p>	<p>Director, Clinical, Neuroscience and Pain Research Unit, Pfizer</p>
<p><b>David Leland, PhD</b></p> 	<p>Neural system underlying risk-taking in stimulant users</p>	<p>3/2004-3/2008</p>	<p>Associate Professor, University of Wisconsin-Eau Claire</p>




<p><b>Jennifer Aron, PhD</b></p> 	<p>Tactile c-fiber afferents: a system for probing affective processing, anticipation, and models of drug abuse</p>	<p>10/2005-7/2011</p>	<p>Postdoctoral Scholar Research Associate, Keck School of Medicine of USC</p>
<p><b>Justin Feinstein, PhD</b></p> 	<p>Insula Function and Emotion</p>	<p>10/2001-2/2006</p>	<p>Assistant Professor, University of Tulsa, Department of Psychology and Oxley College of Health Sciences</p>
<p><b>Guido Frank, MD</b></p> 	<p>Reward Processing and Eating Disorders</p>	<p>10/2005-6/2007</p>	<p>Associate Professor, University of Colorado, Denver</p>
<p><b>Martina Reske, PhD</b></p> 	<p>Inhibitory Processing in Stimulant Using Individuals</p>	<p>1/2008-1/2010</p>	<p>Staff Scientist, Forschungszentrum Jülich, Computational and Systems Neuroscience (INM-6)</p>
<p><b>Dharol Tankersley, PhD</b></p> 	<p>Pharmac-fMRI: Benzodiazepine effects on emotion processing</p>	<p>7/2008-7/2009</p>	<p>Business Intelligence Analyst, Enerpact LLC</p>
<p><b>Adrienne Moore</b></p> 	<p>Interoception and Empathy</p>	<p>6/2008-7/2009</p>	<p>Clinical Coordinator, UC San Diego, Autism Center of Excellence</p>

<p><b>Sarah Wu</b></p> 	<p>Genetics and Neuroimaging in Anxiety</p>	<p>1/2009-7/2009</p>	<p>Graduate Student Researcher, University of Colorado, Denver</p>
<p><b>Jennifer Stewart, PhD</b></p> 	<p>Decision-making and Stimulant use</p>	<p>2/2010-7/2014</p>	<p>Assistant Professor, Queens College, New York</p>
<p><b>Colm Connolly, PhD</b></p> 	<p>Risk-taking and Methamphetamine dependence</p>	<p>1/2010-6/2012</p>	<p>Associate Specialist, UCSF</p>
<p><b>Tali Ball, PhD</b></p> 	<p>Neural processing underlying Anxiety disorders</p>	<p>7/2009-7/2014</p>	<p>Postdoctoral Research Fellow, Stanford University</p>
<p><b>Robin Aupperle, PhD</b></p> 	<p>Approach-Avoidance Conflict in Anxiety disorders</p>	<p>7/2009-7/2011</p>	<p>Assistant Professor, Laureate Institute for Brain Research and University of Tulsa</p>
<p><b>Charlie Taylor, PhD</b></p> 	<p>Neural Basis of Computerized Attention Training</p>	<p>7/2011-12/2012</p>	<p>Assistant Adjunct Professor, UCSD</p>



<p><b>M. Scott Mackey, PhD</b></p> 	<p>Structural Brain Changes associated with stimulant use</p>	<p>8/2011-7/2014</p>	<p>Assistant Professor, University of Vermont</p>
<p><b>Ashley Juavinett, PhD</b></p> 	<p>Neural processing of aversive interoceptive stimuli in stimulant users</p>	<p>7/2011- 6/2012</p>	<p>Assistant Teaching Professor, UCSD, Division of Biological Sciences</p>
<p><b>Joshua Gowin, PhD</b></p> 	<p>Behavioral and neuroimaging of Risk-taking</p>	<p>2/2012-8/2013</p>	<p>Assistant Professor, University of Denver</p>
<p><b>Cedric Hysek, PhD</b></p> 	<p>Effects of methylphenidate on brain function: A placebo-controlled dose-response fMRI study with an active control</p>	<p>8/2013-8/2015</p>	<p>Owner, Apotheke, Biel, Switzerland</p>
<p><b>Katia Marina Harle,</b></p> 	<p>Neural systems underlying emotion regulation in stimulant dependence</p>	<p>7/2012-9/2016</p>	<p>Assistant Clinical Professor, UC San Diego</p>
<p><b>Lori Hasse, PhD</b></p> 	<p>Neural systems underlying optimal performance and stress-resilience</p>	<p>7/2012-7/2014</p>	<p>Assistant Clinical Professor of Psychiatry, UC San Diego</p>

<p><b>Max Schiff MD, PhD</b></p> 	<p>Bayesian Models of Decision-making in Psychiatry</p>	<p>07/2013-7/2014</p>	<p>Instructor in Psychiatry, Vanderbilt University</p>
<p><b>He Crane Huang, PhD</b></p> 	<p>Inverse Optimization Models of Reward in Depression</p>	<p>07/2013-11/2016</p>	<p>Machine Learning Researcher, Apple</p>
<p><b>Jonathon Howlett, MD</b></p> 	<p>The influence of counterfactual comparisons on decision making in depression</p>	<p>07/2012-present</p>	<p>Associate Physician, UCSD</p>
<p><b>Hamed Ekhtiari, MD, PhD</b></p> 	<p>Precision Addiction Medicine</p>	<p>11/2015-present</p>	<p>Visiting Scientist, Postdoctoral Researcher, Laureate Institute for Brain Research (LIBR)</p>
<p><b>Maria Puhl, PhD</b></p> 	<p>Application of Drift Diffusion Models in Computational Psychiatry</p>	<p>07/2017- 07/2018</p>	<p>Statistician, Statistica, Palo Alto, CA</p>
<p><b>Trang Le, PhD</b></p> 	<p>Machine Learning Approach to Determine Brain Age</p>	<p>07/2016-07/2018</p>	<p>Postdoctoral Fellow, U Penn</p>

<p><b>Chunliang Fen, PhD</b></p> 	<p>Neighborhood Influence on Mental Health</p>	<p>01/2017-11/2018</p>	<p>Associate Professor, South China Normal University</p>
<p><b>Katie Forthman, MS</b></p> 	<p>Dimensions of neighborhood tracts and their associations with mental health problems</p>	<p>07/2016-05/2019</p>	<p>Data Scientist, Laureate Institute for Brain Research</p>
<p><b>Janna Colaizzi, PhD</b></p> 	<p>Sign and goal tracking in youth as a risk factor for drug addiction</p>	<p>08/2018-present</p>	<p>Postdoctoral Fellow, Laureate Institute for Brain Research</p>
<p><b>Philip Spechler, Ph.D</b></p> 	<p>Brain Systems underlying Cannabis and Mood Disorders</p>	<p>07/2019-present</p>	<p>Postdoctoral Fellow, Laureate Institute for Brain Research</p>
<p><b>Leandra Figueroa-Hall, Ph.D.</b></p> 	<p>TLR4 and exosomal pathways in depression</p>	<p>07/2019-present</p>	<p>Postdoctoral Fellow, Laureate Institute for Brain Research</p>
<p><b>Haixia Zheng, Ph.D.</b></p> 	<p>Gray and white matter abnormalities associated with inflammation in depression.</p>	<p>07/2019-present</p>	<p>Postdoctoral Fellow, Laureate Institute for Brain Research</p>

## **PUBLICATIONS**

### ***Peer-Reviewed Data-Based Papers:***

1. **Paulus MP**, Gass SF, Mandell AJ (1989). A realistic, minimal 'middle layer' for neural networks. *Physica D* 40(2): 135-155.
2. **Paulus MP**, Geyer MA, Gold LH, Mandell AJ (1990). Application of entropy measures derived from the ergodic theory of dynamical systems to rat locomotor behavior. *Proc Natl Acad Sci USA* 87: 723-727.
3. **Paulus MP**, Geyer MA (1991). A scaling approach to find order parameters quantifying the effects of dopaminergic agents on unconditioned motor activity in rats. *Prog Neuropsychopharmacol Biol Psychiatry* 15: 903-919.
4. **Paulus MP**, Geyer MA (1991). A temporal and spatial scaling hypothesis for the behavioral effects of psychostimulants. *Psychopharmacology (Berl)* 104: 6-16.
5. **Paulus MP**, Geyer MA, Mandell AJ (1991). Statistical mechanics of a neurobiological dynamical system: the spectrum of local entropies ( $S(\alpha)$ ) applied to cocaine-perturbed behavior. *Physica A* 174(2-3): 567-577.
6. Geyer MA, **Paulus MP** (1992). Multivariate and nonlinear approaches to characterizing drug effects on the locomotor and investigatory behavior of rats. *NIDA Res Monogr* 124: 203-235.
7. **Paulus MP**, Geyer MA (1992). The effects of MDMA and other methylenedioxy-substituted phenylalkylamines on the structure of rat locomotor activity. *Neuropsychopharmacology* 7: 15-31.
8. Weiss F, **Paulus MP**, Lorang MT, Koob GF (1992). Increases in extracellular dopamine in the nucleus accumbens by cocaine are inversely related to basal levels: Effects of acute and repeated administration. *J Neurosci* 12: 4372-4380.
9. **Paulus MP**, Callaway CW, Geyer MA (1993). Quantitative assessment of the microstructure of rat behavior: II. Distinctive effects of dopamine releasers and uptake inhibitors. *Psychopharmacology (Berl)* 113: 187-198.
10. **Paulus MP**, Geyer MA (1993). Three independent factors characterize spontaneous rat motor activity. *Behav Brain Res* 53: 11-20.
11. **Paulus MP**, Geyer MA (1993). Quantitative assessment of the microstructure of rat behavior: I,  $f(d)$ , the extension of the scaling hypothesis. *Psychopharmacology (Berl)* 113: 177-186.
12. **Paulus MP**, Kadtke JB, Menkello FV (1993). Statistical mechanics of biological and other complex experimental time series: assessing geometrical and dynamical properties. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering* 3(3): 717-727.
13. Judd LL, Rapaport MH, **Paulus MP**, Brown JL (1994). Subsyndromal symptomatic depression: a new mood disorder? *J Clin Psychiatry* 55 Suppl: 18-28.
14. Keller DS, Bennett ME, McCrady BS, **Paulus MP**, Frankenstein W (1994). Treating college substance abusers. The New Jersey Collegiate Substance Abuse Program. *J Subst Abuse Treat* 11(6): 569-81.
15. **Paulus MP**, Geyer MA, Braff DL (1994). The assessment of sequential response organization in schizophrenic and control subjects. *Prog Neuropsychopharmacol Biol Psychiatry* 18: 1169-1185.
16. Weinger MB, Herndon OW, Zornow MH, **Paulus MP**, Gaba DM, Dallen LT (1994). An objective methodology for task analysis and workload assessment in anesthesia providers. *Anesthesiology* 80: 77-92.
17. Zisook S, Shuchter SR, Sledge PA, **Paulus M**, Judd LL (1994). The spectrum of depressive phenomena after spousal bereavement. *J Clin Psychiatry* 55 Suppl: 29-36.
18. Bennett ME, McCrady BS, Keller DS, **Paulus MP** (1996). An intensive program for collegiate substance abusers. Progress six months after treatment entry. *J Subst Abuse Treat* 13(3): 219-25.
19. Judd LL, **Paulus MP**, Wells KB, Rapaport MH (1996). Socioeconomic burden of subsyndromal depressive symptoms and major depression in a sample of the general population. *Am J Psychiatry* 153(11): 1411-7.
20. **Paulus MP**, Geyer MA, Braff DL (1996). Use of methods from chaos theory to quantify a

- fundamental dysfunction in the behavioral organization of schizophrenic patients. *Am J Psychiatry* 153: 714-717.
21. Judd LL, Akiskal HS, **Paulus** MP (1997). The role and clinical significance of subsyndromal depressive symptoms (SSD) in unipolar major depressive disorder. *J Affect Disord* 45(1-2): 5-17; discussion 17-8.
  22. **Paulus** MP (1997). Long-range interactions in sequences of human behavior. *Physical Review E* 55(3, Pt B): 3249-3256.
  23. **Paulus** MP, Geyer MA (1997). Environment and unconditioned motor behavior: Influences of drugs and environmental geometry on behavioral organization in rats. *Psychobiology* 25(4): 327-337.
  24. Zisook S, **Paulus** M, Shuchter SR, Judd LL (1997). The many faces of depression following spousal bereavement. *J Affect Disord* 45(1-2): 85-94; discussion 94-5.
  25. Judd LL, Akiskal HS, Maser JD, Zeller PJ, Endicott J, Coryell W, **Paulus** MP, Kunovac JL, Leon AC, Mueller TI, Rice JA, Keller MB (1998). Major depressive disorder: A prospective study of residual subthreshold depressive symptoms as predictor of rapid relapse. *J Affect Disord* 50(2-3): 97-108.
  26. Judd LL, Akiskal HS, Maser JD, Zeller PJ, Endicott J, Coryell W, **Paulus** MP, Kunovac JL, Leon AC, Mueller TI, Rice JA, Keller MB (1998). A prospective 12-year study of subsyndromal and syndromal depressive symptoms in unipolar major depressive disorders. *Arch Gen Psychiatry* 55(8): 694-700.
  27. Judd LL, Kessler RC, **Paulus** MP, Zeller PV, Wittchen HU, Kunovac JL (1998). Comorbidity as a fundamental feature of generalized anxiety disorders: Results from the National Comorbidity Study (NCS). *Acta Psychiatr Scand Suppl* 393: 6-11.
  28. Krebs-Thomson, K., V. Lehmann-Masten, S. Naiem, **Paulus** MP, Geyer MA (1998). Modulation of phencyclidine-induced changes in locomotor activity and patterns in rats by serotonin. *Eur J Pharmacol* 343(2-3): 135-143.
  29. Krebs-Thomson K, **Paulus** MP, Geyer MA (1998). Effects of hallucinogens on locomotor and investigatory activity and patterns: influence of 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptors. *Neuropsychopharmacology* 18(5): 339-351.
  30. **Paulus** MP, Bakshi VP, Geyer MA (1998). Isolation rearing affects sequential organization of motor behavior in post-pubertal but not pre-pubertal Lister and Sprague-Dawley rats. *Behavioural Brain Research* 94(2): 271-280.
  31. **Paulus** MP, Geyer MA, Sternberg E (1998). Differential movement patterns but not amount of activity in unconditioned motor behavior of Fischer, Lewis, and Sprague-Dawley rats. *Physiology & Behavior* 65(N): 601-606.
  32. Dulawa SC, Grandy DK, Low MJ, **Paulus** MP, Geyer MA (1999). Dopamine D4 receptor-knock-Out mice exhibit reduced exploration of novel stimuli. *J Neurosci* 19(21): 9550-9556.
  33. Judd LL, **Paulus** MP, Zeller P (1999). The role of residual subthreshold depressive symptoms in early episode relapse in unipolar major depressive disorder [letter]. *Arch Gen Psychiatry* 56(8): 764-765.
  34. **Paulus** MP, Dulawa SC, Ralph RJ, Mark AG (1999). Behavioral organization is independent of locomotor activity in 129 and C57 mouse strains. *Brain Res* 835(1): 27-36.
  35. **Paulus** MP, Geyer MA, Braff DL (1999). Long-range correlations in choice sequences of schizophrenic patients. *Schizophr Res* 35(1): 69-75.
  36. **Paulus** MP, Perry W, Braff DL (1999). The nonlinear, complex sequential organization of behavior in schizophrenic patients: neurocognitive strategies and clinical correlations. *Biol Psychiatry* 46(5): 662-670.
  37. Solomon, A., D.T. Weiss, M. Schell, R. Hrnčić, C.L. Murphy, J. Wall, M.D. McGavin, H.J. Pan, G.W. Kabalka, **Paulus** MP (1999). Transgenic mouse model of AA amyloidosis. *Am J Pathol* 154(4): 1267-72.
  38. Judd LL, Akiskal HS, Zeller PJ, **Paulus** M, Leon AC, Maser JD, Endicott J, Coryell W, Kunovac JL, Mueller TI, Rice JP, Keller MB (2000). Psychosocial disability during the long-term course of unipolar major depressive disorder. *Arch Gen Psychiatry* 57(4): 375-80.
  39. Judd LL, **Paulus** MP, Schettler PJ, Akiskal HS, Endicott J, Leon AC, Maser JD, Mueller T, Solomon DA,

- Keller MB (2000). Does incomplete recovery from first lifetime major depressive episode herald a chronic course of illness? *Am J Psychiatry* 157(9): 1501-1504.
40. **Paulus M**, Gay-Balmaz P, Martin OJ (2000). Accurate and efficient computation of the Green's tensor for stratified media. *Phys Rev E Stat Phys Plasmas Fluids Relat Interdiscip Topics* 62(4 Pt B): 5797-807.
  41. **Paulus MP**, Varty GB, Geyer MA (2000). The genetic liability to stress and postweaning isolation have a competitive influence on behavioral organization in rats. *Physiol Behav* 68(3): 389-394.
  42. Varty GB, **Paulus MP**, Braff DL, Geyer MA (2000). Environmental enrichment and isolation rearing in the rat: Effects on locomotor behavior and startle response plasticity. *Biol Psychiatry* 47(10): 864-873.
  43. Easterly ME, Foltz CJ, **Paulus MP** (2001). Body condition scoring: Comparing newly trained scorers and micro-computed tomography imaging. *Lab Anim (NY)* 30(3): 46-49.
  44. **Paulus M**, Martin O (2001). Scattering experiments with a diving cylinder. *Opt Express* 9(6): 303-11.
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### **Book Chapters and Review Articles**

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3. **Paulus** MP, Bilder RL (1999). Complex dysregulation in sequential organization and dysregulation in dopaminergic modulation in first episode schizophrenia patients. In N Pradhan, L Screenivasan, PE

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  5. **Paulus** MP & **Tapert** SF (2008). Neurocognition and social cognition in adolescent drug users: Vulnerability and consequences. *State-of-Science Review: SR-E8 commissioned for the Foresight Mental Capital and Wellbeing Project, Government Office for Science, United Kingdom*.
  6. **Paulus** MP, Tapert SF, Schulteis G (2009). The role of interoception and alliesthesia in addiction. *Pharmacol Biochem Behav* 94(1): 1-7.
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  11. **Paulus** MP, Stewart JL (2020). Neurobiology, clinical presentation, and treatment of methamphetamine use disorder: A review. *JAMA Psychiatry* Apr 8.

## **FUNDING HISTORY**

Dr. **Paulus** has received a total of **\$27,947,299** of federal funding according to NIH Reporter. (Access 4/27/2020: NIH Reporter: [//projectreporter.nih.gov/Reporter\\_Viewsh.cfm?sl=15EDCA034D8EC0D57598B8961CAA4A01A2FFCEB861BF](http://projectreporter.nih.gov/Reporter_Viewsh.cfm?sl=15EDCA034D8EC0D57598B8961CAA4A01A2FFCEB861BF))

<b>Active</b>						
<b>Project Title</b>	<b>Source</b>	<b>Project Number</b>	<b>PI(s)</b>	<b>Project Period</b>	<b>Institution</b>	<b>Total Award</b>
15/21 ABCD-USA Consortium: Research Project Site at LIBR ( <i>MPI</i> )	NIDA	U01 DA050989	<b>Paulus, Aupperle</b>	2020-2027	LIBR	\$2,138,910
CoBRE: The Center for Neuroscience-based Mental Health Assessment and Prediction (NEUROMAP) ( <i>Center PI; Admin Core PI</i> )	NIGMS	P20 GM121312	<b>Paulus</b>	2017-2022	LIBR	\$6,976,756

<b>Completed</b>						
<b>Project Title (<i>Role on Project</i>)</b>	<b>Source</b>	<b>Project Number</b>	<b>PI(s)</b>	<b>Project Period</b>	<b>Institution</b>	<b>Total Award</b>
ABCD-USA Consortium: Research Project ( <i>MPI; LIBR Site PI</i> )	NIDA	U01 DA041089	Tapert, Fox, <b>Paulus</b>	2015-2020	UCSD	\$16,811,171
Latent Constructs: Negative-Positive Valence Domains in Anxiety & Depression ( <i>PI</i> )	NIMH	R01 MH101453	<b>Paulus</b>	2013-2017	UCSD	\$1,855,413
Does amphetamine use impair brain systems in OEF/OIF veterans with PTSD? ( <i>PI</i> )	VA	I01 CX000273	<b>Paulus</b>	2011-2015	VASDHS	\$586,148
Neural Mechanisms Underlying Resilience and Its Modification ( <i>PI</i> )	ONR	N000141110958	<b>Paulus</b>	2011-2014	UCSD	\$465,166
Center on Interoceptive Dysregulation in Addiction (CIDIA) ( <i>Center PI; Admin Core PI; Project 2 PI</i> )	NIDA	P20 DA027843	<b>Paulus</b>	2010-2015	UCSD	\$3,459,308
Fellowship in Biological Psychiatry and Neuroscience ( <i>PI; Training Director</i> )	NIMH	T32 MH018399	<b>Paulus</b>	2010-2014	UCSD	\$1,105,749
Negative Reinforcement and Interoceptive Dysfunction in Stimulant Dependence ( <i>PI</i> )	NIDA	R01 DA027797	<b>Paulus</b>	2009-2015	UCSD	\$1,676,681
Neural Substrates Underlying Behavior Organization ( <i>PI</i> )	NCRR	M01 RR000827	<b>Paulus</b>	2009-2010	UCSD	\$3,549
fMRI Study Comparing Emotion-Induced Brain Activation Patterns ( <i>PI</i> )	NCRR	M01 RR000827	<b>Paulus</b>	2008-2009	UCSD	\$916
Time Processing in Stimulant Users: Impulsivity and Temporal Discounting ( <i>PI</i> )	NIDA NCRR	R03 DA020687 M01 RR000827	<b>Paulus</b>	2007-2010	UCSD	\$156,352
Stimulant Dependence: Neural Mechanisms of Relapse ( <i>PI</i> )	NIDA	R01 DA018307	<b>Paulus</b>	2004-2010	UCSD	\$1,302,794

<b>Completed cont.</b>						
<b>Project Title (<i>Role on Project</i>)</b>	<b>Source</b>	<b>Project Number</b>	<b>PI(s)</b>	<b>Project Period</b>	<b>Institution</b>	<b>Total Award</b>
Neurobiology of Transition to Stimulant Dependence ( <i>PI</i> )	NIDA NCRR	R01 DA016663 M01 RR000827	<b>Paulus</b>	2004-2010	UCSD	\$2,921,563
Behavioral Organization in Mood or Cognition Disorders ( <i>PI</i> )	NCRR	M01 RR000827	<b>Paulus</b>	2004-2008	UCSD	\$33,902
MDMA & Amphetamine--Behavioral Organization in Mice ( <i>PI</i> )	NIDA	R21 DA014200	<b>Paulus</b>	2001-2005	UCSD	\$455,875
Neuroimaging of Decision Making In Stimulant Addiction ( <i>PI</i> )	NIDA	R21 DA013186	<b>Paulus</b>	2001-2004	UCSD	\$453,074
Non Linear Dysregulation In Schizophrenia ( <i>PI</i> )	NIMH	R03 MH058358	<b>Paulus</b>	1998-2000	UCSD	\$147,686
Drugs of Abuse Effects on Behavioral Organization ( <i>PI</i> )	NIDA	R01 DA011277	<b>Paulus</b>	1997-2001	UCSD	\$531,835