

CURRICULUM VITAE

Martin Peter Paulus, MD

PRESENT TITLE AND AFFILIATION

Professor in Residence
Department of Psychiatry
Laboratory of Biological Dynamics and Theoretical Medicine
University of California San Diego
8939 Villa La Jolla Drive, Suite 200
La Jolla, CA 92037

UCSD: VA:

p: (858) 534-9444 p: (858) 642-3390

F: (858) 534-9450 F: (858) 642-1429

email: mpaulus@ucsd.edu

web page: <http://koso.ucsd.edu/~martin/index.html>

BIRTHDATE: 06/20/1961

CITIZENSHIP: German

BOARD CERTIFICATION: American Board of Psychiatry and Neurology,
valid March 2009 – December 2019

LICENSE: California A053845, valid until June 2012



TRAINING

Medical School

Johannes Gutenberg University Mainz, Germany
October, 1979 – September, 1986

Postgraduate Fellowship German Federation of Research (DFG)

University of California San Diego
October, 1986 – September, 1987

Postdoctoral Fellow

University of California San Diego
October, 1987 – July, 1990

Assistant Research Psychobiologist

University of California San Diego
July, 1990 – June, 1993

Internship

Long Island Jewish Medical Center
Hillside Hospital
July, 1993 – June, 1994

Residency in Psychiatry

University of California San Diego
July, 1994 – June, 1996

Fellowship in Biological Psychiatry and Neuroscience

University of California San Diego
July, 1996 – June, 1997

FACULTY POSITIONS

Assistant Professor in Residence

University of California San Diego
July, 1997 – June, 2000

Staff Psychiatrist

Veterans Affairs San Diego Health Care System
July, 1997 - Present

Associate Professor in Residence

University of California San Diego
July, 1997 – June, 2005

Associate Chief of Psychiatry

Veterans Affairs San Diego Health Care System
July, 1999 – Dec, 2011

Acting Chief of Psychiatry	Veterans Affairs San Diego Health Care System 2011
Director Telemental Health	Veterans Affairs San Diego Health Care System Dec, 2011- Present
Professor in Residence	University of California San Diego Jul, 2005 – Present
Training Director T32 Fellowship in Biological Psychiatry and Neuroscience	University of California San Diego Jul, 2009 – 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
- Society for Neuroscience
- European Behavioral Pharmacology Society
- American College for Neuropsychopharmacology
- Society for Biological Psychiatry
- Anxiety Disorders Association of America

EDITORIAL AND REVIEW WORK

Reviewing Editor / Editorial Board:

- Progress in Neuro-Psychopharmacology & Biological Psychiatry
- Neuroscience & Biobehavioral Reviews
- Frontiers in Neuroscience
- 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 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
- 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

- Member of the Institutional Review Board (2000 – 2010)
- Member of the Biological Psychiatry Fellowship Committee (1999-2009)
- Member Search Committee for Medicine Chair (2010-2011)

SERVICE: SCIENTIFIC COMMUNITY

- NIH Center Grant reviewer (2003/2004)
- NIMH adhoc reviewer (2000 – present)
- ZRG1-SBIB-H(40) NIH Committee – member
- Special Emphasis Panel/Scientific Review Group 2006/10 ZRG1 RPHB-H
- RPIA Study Section Member (2006 – 2009)
- Adhoc NIDA Center Review Committee Member (07/2007 – present)
- National Academies of Sciences – Panel Member: “Opportunities in Neuroscience for Future Army Applications (2008)
- DoD Grant Review Committee Member
- NIH Roadmap Reviewer (2007)
- NIDA K-committee regular member (2010- present)
- NASA - Behavioral Health & Performance (BHP) - Standing Review Panel (SRP) (2010-present)
- NIDA Intramural Program Review – Adhoc Member (2011)
- Laureate Institute Board of Scientific Advisors (2011)
- CDMRP Reviewer (2012)
- NIH Pioneer Award Reviewer (2012)

SHORT NARRATIVE OF RESEARCH INTERESTS:

I am currently a Professor in Residence 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). My research focuses on the interface between interoception, i.e. the processing of sensory information coming from the inside of the body, and decision-making, i.e. how to process preferences to arrive at making choices. In particular, I am interested how interoception and decision-making go awry in individuals with psychiatric disorders. For example, how do decision-making dysfunctions contribute to transition from casual use of drugs to drug dependence and how these dysfunctions contribute to relapse in individuals with stimulant dependence. Moreover, I am interested in the use of functional magnetic resonance imaging (fMRI) as a tool to discover new drugs for psychiatric disorders.

I am collaborating with several investigators at UCSD and other institutions to study the neural basis of psychiatric disorders. Specifically, I am working with Drs. Susan Tapert and Gerhard Schulteis on NIDA supported P-20 Center Grant to examine the role of interoception for drug addiction. Interoception consists of the afferent information the brain processes coming from the inside of the body, which is integrated in the insula cortex to provide “a general state of the body” contributing to how an individual feels at any given moment in time. The goal of this center is to determine whether modulation of interoceptive processing can be used to develop novel treatments for drug addiction.

In collaboration with Dr. Murray Stein, I am working on determining whether fMRI can be used as a biomarker in the development of novel anxiolytic drugs. We also utilize fMRI as a tool to elucidate basic affective processing dysfunctions in individuals with different types of anxiety disorders. In particular, we are focusing on dysfunctions of affective processing in social phobia and the effect of both pharmacological and behavioral treatment on these processes.

In collaboration with the Naval Health Research Center (NHRC), the NAVY SEAL psychologist, and the Olympic Training Center, we are currently examining the neural basis of optimal performance. The goal of these studies is to identify the brain systems that are important for optimal performance so as to be able to train these systems in the future.

In collaboration with Dr. Walt Kaye, we have been establishing various neuroimaging approaches to determine dysfunctions in reward processing and decision-making in recovered anorectic and bulimic individuals. In particular, we currently examine whether there is a dysfunction of interoceptive processing in these individuals that contributes to the altered reward processing of primary reinforcers.

Over the past years, I have focused on helping young academic investigators to establish a program of research in psychiatry. As part of these efforts, I have worked in the areas of pain and depression, time perception and drug abuse, anticipatory processing dysfunctions in anxiety disorders, novel models for stop signal behavior, and social science methods to quantify interactions between individuals at risk for drug addiction.

As a consequence of my interest in fostering young academics, I have taken over the directorship of the NIMH supported T-32 Fellowship on Biological Psychiatry and Neuroscience, which provides 5 post-doctoral fellow positions.

SHORT NARRATIVE OF CLINICAL INTERESTS:

My main clinical focus at this time is to develop novel ways of providing mental health care to Veterans. Specifically, we have been awarded special funds from the Department of Veterans Affairs to establish evidence-based psychotherapy for individuals with post-traumatic stress disorder. More recently, the VASDHS has been identified as a Regional Center of Excellence for Telemental Health. As the Director of this center, we will 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.

I am the Director of the Mood Clinic at the VASDHS, a large outpatient service that focuses on treating patients with unipolar and bipolar depressive disorder. My patient case-load has varied




between 250-400 patients over the past two years. I have regularly scheduled clinic hours during which I see patients for both medication management and treatment plan coordination with a multi-disciplinary treatment team. I also continue to determine the efficacy of a standardized treatment class for patients with anger management problems. Working with several clinicians at the VASDHS, we have developed a standardized treatment manual and are in the process of training various clinicians in the VA hospital to lead this standardized anger management program.

TEACHING AND TRAINING

- Psychiatry Resident Instructor (1997 – present)
- Medical Student Instructor (1997 – present)
- Supervisor to Postgraduate Fellows (1997 – present)
- Member of Neuroscience Faculty at UCSD (2000 – present)
- Neuroscience 200C Instructor
- T32 Program Director: Fellowship for Biological Psychiatry and Clinical Neuroscience

SUPERVISED STUDENTS, POSTDOCTORAL FELLOWS OR JUNIOR FACULTY

The following table summarizes my mentorship activity in promoting young researchers to establish themselves in various fields. These activities have resulted in 15 awards of various types over the past three years. The goal of this endeavor is to provide young investigators with a clearer path to be an independent researcher in the field of psychiatry.

Faculty / Postdoctoral Fellows	Research Topic	Supervision	Funding Support
Scott Matthews, M.D. 	The use of fMRI to characterize the neural correlates of emotional, behavioral and autonomic control	7/2003–Current	NARSAD Young Investigator Award APA Young Investigator Award Department of Defense Young Investigator Award VA Career Development Award
Alan Simmons, Ph.D. 	Neural system dysfunctions in combat veterans returning from Iraq and Afghanistan	7/2003–Current	NARSAD Young Investigator Award Department of Defense Young Investigator Award
Tony Yang, M.D. Ph.D. 	Neural systems dysfunction in adolescent depression	7/2004–Current	K-Award NARSAD Young Investigator Award

Amanda Bishoff-Grethe, Ph.D.



Relationship between reward mechanisms and motor control in the basal ganglia.

7/2003–7/2010

K-Award

Marc Wittmann, Ph.D.



Neural systems underlying the experience of time.

9/2004–7/2010

Kavli Award
NIDA R03 Grant

Irina Strigo, Ph.D.



Neural networks of affective processing in depression

9/2004–7/2009

NARSAD Young Investigator Award
K/R Award
NIH R21 Grant

Sara Mednick, Ph.D.



Pharmaco Imaging to determine the neural basis of napping.

7/2007–7/2011

K Award

Estibaliz Arce, Ph.D.



Neural systems underlying resilience

7/2005–7/2009

NARSAD Young Investigator Award

David Leland, Ph.D.



Neural system
underlying risk-taking
in stimulant users

3/2004–3/2008

Adjunct Assistant
Professor Pitzer College

Jennifer Aron



Tactile c-fiber
afferents: a system
for probing affective
processing,
anticipation, and
models of drug abuse

10/2005–7/2011

Minority Supplement
Award

Justin Feinstein



Insula Function and
Emotion

10/2001–2/2006

NSF Graduate Student
Training Award

Guido Frank, M.D.



Reward Processing
and Eating Disorders

10/2005–6/2007

K Award

Martina Reske, Ph.D.



Inhibitory Processing
in Stimulant Using
Individuals

1/2008 – 1/2010

Dharol Tankersley



Pharmac-fMRI:
Benzodiazepine
effects on emotion
processing

7/2008–7/2009

Adrienne Moore



Interoception and
Empathy

6/2008–7/2009

Sarah Wu

Genetics and
Neuroimaging in
Anxiety

1/2009–7/2009

Jennifer Stewart, Ph. D.



Decision-making and
Stimulant use

2/2010–Current

Project Scientist
UCSD, Dept of
Psychiatry

Colm Connoly, Ph.D.

Risk-taking and
Methamphetamine
dependence

1/2010–Current

Tali Ball



Neural processing
underlying Anxiety
disorders

7/2009–Current

Robin Aupperle, Ph.D.



Approach-Avoidance
Conflict in Anxiety
disorders

7/2009 – 7/2011

Assistant Professor
Dept. of Psychology
University of Kansas

Charlie Taylor, Ph.D.



Neural Basis of
Computerized
Attention Training

7/2011–Current

M. Scott Mackey, Ph.D.



Structural Brain
Changes associated
with stimulant use

8/2011–Current

PUBLICATIONS

1. Paulus MP, Gass SF, Mandell AJ (1989). A realistic, minimal 'middle layer' for neural networks. *Physica D* 40: 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 Psych* 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: 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. The extension of the scaling hypothesis. *Psychopharmacology (Berl)* 113: 177-186.

12. Paulus MP, Kadtko JB, Menkelo FV (1993). Statistical mechanics of biological and other complex experimental time series: assessing geometrical and dynamical properties. *Int J Bifurcat Chaos Appl Sci Eng* 3: 717-727.
13. Judd LL, Rapaport MH, Paulus MP, Brown JL (1994). Subsyndromal symptomatic depression: A new mood disorder? *J Clin Psychiatry* 55: 18-28.
14. 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.
15. 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.
16. Zisook S, Shuchter SR, Sledge PA, Paulus M, Judd LL (1994). The spectrum of depressive phenomena after spousal bereavement. *J Clin Psychiatry* 55: 29-36.
17. 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: 1411-1417.
18. Paulus MP, Geyer MA (1996). Assessing the organization of motor behavior: New approaches based on the behavior of complex physical systems. In: Ossenkopp KP, Kavaliers M, Sanberg PR (Eds). *Measuring Movement and Locomotion: From Invertebrates to Humans* (pp. 273-295). RG Landes Co.
19. 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.
20. Paulus MP, Paulus MP, GSFMAJ (1996). Models and predictability of biological systems: A realistic, minimal 'middle layer' for neural networks. In: Kravtsov YA, Kadtko JB (Eds). *Models and predictability of biological systems* (pp 153-168). Karlsruhe: Springer-Verlag.
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: 5-17.
22. Paulus MP (1997). Long-range interactions in sequences of human behavior. *Physical Review E* 55: 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: 327-337.
24. Zisook S, Paulus M, Shuchter SR, Judd LL (1997). The many faces of depression following spousal bereavement. *J Affect Disord* 45: 85-94.
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: 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: 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, Lehmann-Masten V, Naiem S, Paulus MP, Geyer MA (1998). Modulation of phencyclidine-induced changes in locomotor activity and patterns in rats by serotonin. *Eur J Pharmacol* 343: 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_{2A} and 5-HT_{2C} receptors. *Neuropsychopharmacology* 18: 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: 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. *Physiol Behav* 65: 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: 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: 764-765.
34. Paulus MP, Bilder RL (1999). Complex dysregulation in sequential organization and dysregulation in dopaminergic modulation in first episode schizophrenia patients. In: Pradhan N, Screenivasan L, Rapp PE (Eds). *Nonlinear Dynamics and Brain Functioning*. Nova Science Publishers, Inc.
35. 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: 27-36.
36. Paulus MP, Geyer MA, Braff DL (1999). Long-range correlations in choice sequences of schizophrenic patients. *SchizophrRes* 35: 69-75.
37. 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: 662-670.
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: 375-380.
39. Judd LL, Paulus MJ, 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: 1501-1504.
40. 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: 389-394.
41. 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: 864-873.
42. Paulus MP, Hozack N, Zauscher B, McDowell JE, Frank L, Brown GG, Braff DL (2001). Prefrontal, parietal, and temporal cortex networks underlie decision-making in the presence of uncertainty. *Neuroimage* 13: 91-100.
43. Paulus MP, Rapaport MH, Braff DL (2001). Trait contributions of complex dysregulated behavioral organization in schizophrenic patients. *Biol Psychiatry* 49: 71-77.
44. Ralph RJ, Paulus MP, Fumagalli F, Caron MG, Geyer MA (2001). Prepulse inhibition deficits and perseverative motor patterns in dopamine transporter knock-out mice: Differential effects of D1 and D2 receptor antagonists. *J Neurosci* 21: 305-313.
45. Ralph RJ, Paulus MP, Geyer MA (2001). Strain-specific effects of amphetamine on prepulse inhibition and patterns of locomotor behavior in mice. *J Pharmacol Exp Ther* 298: 148-155.
46. Feinstein JS, Goldin PR, Stein MB, Brown GG, Paulus MP (2002). Habituation of attentional networks during emotion processing. *Neuroreport* 13: 1255-1258.
47. McDowell JE, Brown GG, Paulus M, Martinez A, Stewart SE, Dubowitz DJ, Braff DL (2002). Neural correlates of refixation saccades and antisaccades in normal and schizophrenia subjects. *Biol Psychiatry* 51: 216-223.
48. Paulus MP, Hozack N, Frank L, Brown GG (2002). Error rate and outcome predictability affect neural activation in prefrontal cortex and anterior cingulate during decision-making. *Neuroimage* 15: 836-846.
49. Paulus MP, Hozack NE, Zauscher BE, Frank L, Brown GG, Braff DL, Schuckit MA (2002). Behavioral and functional neuroimaging evidence for prefrontal dysfunction in methamphetamine-dependent subjects. *Neuropsychopharmacology* 26: 53-63.
50. Paulus MP, Hozack NE, Zauscher BE, Frank L, Brown GG, McDowell J, Braff DL (2002). Parietal dysfunction is associated with increased outcome-related decision-making in schizophrenia patients. *Biol Psychiatry* 51: 995-1004.

51. Eyler Zorrilla LT, Jeste DV, Paulus M, Brown GG (2003). Functional abnormalities of medial temporal cortex during novel picture learning among patients with chronic schizophrenia. *Schizophr Res* 59: 187-198.
52. Ludewig K, Paulus MP, Vollenweider FX (2003). Behavioural dysregulation of decision-making in deficit but not nondéficit schizophrenia patients. *Psychiatry Res* 119: 293-306.
53. Ludewig S, Paulus MP, Ludewig K, Vollenweider FX (2003). Decision-making strategies by panic disorder subjects are more sensitive to errors. *J Affect Disord* 76: 183-189.
54. Paulus MP, Braff DL (2003). Chaos and schizophrenia: Does the method fit the madness? *Biol Psychiatry* 53:3-11.
55. Paulus MP, Frank L, Brown GG, Braff DL (2003). Schizophrenia subjects show intact success-related neural activation but impaired uncertainty processing during decision-making. *Neuropsychopharmacology* 28: 795-806.
56. Paulus MP, Frank LR (2003). Ventromedial prefrontal cortex activation is critical for preference judgments. *Neuroreport* 14: 1311-1315.
57. Paulus MP, Hozack N, Frank L, Brown GG, Schuckit MA (2003). Decision making by methamphetamine-dependent subjects is associated with error-rate-independent decrease in prefrontal and parietal activation. *Biol Psychiatry* 53: 65-74.
58. Paulus MP, Rogalsky C, Simmons A, Feinstein JS, Stein MB (2003). Increased activation in the right insula during risk-taking decision making is related to harm avoidance and neuroticism. *Neuroimage* 19: 1439-1448.
59. Powell SB, Paulus MP, Hartman DS, Godel T, Geyer MA (2003). RO-10-5824 is a selective dopamine D4 receptor agonist that increases novel object exploration in C57 mice. *Neuropharmacology* 44: 473-481.
60. Ralph-Williams RJ, Paulus MP, Zhuang X, Hen R, Geyer MA (2003). Valproate attenuates hyperactive and perseverative behaviors in mutant mice with a dysregulated dopamine system. *Biol Psychiatry* 53: 352-359.
61. Tapert SF, Cheung EH, Brown GG, Frank LR, Paulus MP, Schweinsburg AD, Meloy MJ, Brown SA (2003). Neural response to alcohol stimuli in adolescents with alcohol use disorder. *Arch Gen Psychiatry* 60: 727-735.
62. Verney SP, Brown GG, Frank L, Paulus MP (2003). Error-rate-related caudate and parietal cortex activation during decision making. *Neuroreport* 14: 923-928.
63. Barr AM, Lehmann-Masten V, Paulus M, Gainetdinov RR, Caron MG, Geyer MA (2004). The selective serotonin-2A receptor antagonist M100907 reverses behavioral deficits in dopamine transporter knockout mice. *Neuropsychopharmacology* 29: 221-228.
64. Feinstein JS, Stein MB, Castillo GN, Paulus MP (2004). From sensory processes to conscious perception. *Conscious Cogn* 13: 323-335.
65. Matthews SC, Paulus MP, Dimsdale JE (2004). Contribution of functional neuroimaging to understanding neuropsychiatric side effects of interferon in hepatitis C. *Psychosomatics* 45: 281-286.
66. Matthews SC, Paulus MP, Simmons AN, Nelesen RA, Dimsdale JE (2004). Functional subdivisions within anterior cingulate cortex and their relationship to autonomic nervous system function. *Neuroimage* 22: 1151-1156.
67. Matthews SC, Simmons AN, Lane SD, Paulus MP (2004). Selective activation of the nucleus accumbens during risk-taking decision making. *Neuroreport* 15: 2123-2127.
68. Minassian A, Paulus MP, Perry W (2004). Increased sensitivity to error during decision-making in bipolar disorder patients with acute mania. *J Affect Disord* 82: 203-208.
69. Ogden CA, Rich ME, Schork NJ, Paulus MP, Geyer MA, Lohr JB, Kuczenski R, Niculescu AB (2004). Candidate genes, pathways and mechanisms for bipolar (manic-depressive) and related disorders: an expanded convergent functional genomics approach. *Mol Psychiatry* 9: 1007-1029.
70. Paulus MP, Feinstein JS, Simmons A, Stein MB (2004). Anterior cingulate activation in high trait anxious subjects is related to altered error processing during decision making. *Biol Psychiatry* 55: 1179-1187.

71. Paulus MP, Feinstein JS, Tapert SF, Liu TT (2004). Trend detection via temporal difference model predicts inferior prefrontal cortex activation during acquisition of advantageous action selection. *Neuroimage* 21: 733-743.
72. Powell SB, Geyer MA, Gallagher D, Paulus MP (2004). The balance between approach and avoidance behaviors in a novel object exploration paradigm in mice. *Behav Brain Res* 152: 341-349.
73. Powell SB, Lehmann-Masten VD, Paulus MP, Gainetdinov RR, Caron MG, Geyer MA (2004). MDMA "ecstasy" alters hyperactive and perseverative behaviors in dopamine transporter knockout mice. *Psychopharmacology (Berl)* 73: 310-317.
74. Schweinsburg AD, Paulus MP, Barlett VC, Killeen LA, Caldwell LC, Pulido C, Brown SA, Tapert SF (2004). An fMRI study of response inhibition in youths with a family history of alcoholism. *Ann NY Acad Sci* 1021: 391-394.
75. Simmons A, Matthews SC, Stein MB, Paulus MP (2004). Anticipation of emotionally aversive visual stimuli activates right insula. *Neuroreport* 15: 2261-2265.
76. Tapert SF, Pulido C, Paulus MP, Schuckit MA, Burke C (2004). Level of response to alcohol and brain response during visual working memory. *J Stud Alcohol* 65: 692-700.
77. Anderson KG, Schweinsburg A, Paulus MP, Brown SA, Tapert S (2005). Examining personality and alcohol expectancies using functional magnetic resonance imaging (fMRI) with adolescents. *J Stud Alcohol* 66: 323-331.
78. Ernst M, Paulus MP (2005). Neurobiology of decision making: A selective review from a neurocognitive and clinical perspective. *Biol Psychiatry* 58: 596-604.
79. Filoteo JV, Maddox WT, Simmons AN, Ing AD, Cagigas XE, Matthews S, Paulus MP (2005). Cortical and subcortical brain regions involved in rule-based category learning. *Neuroreport* 16: 111-115.
80. Leland DS, Paulus MP (2005). Increased risk-taking decision-making but not altered response to punishment in stimulant-using young adults. *Drug Alcohol Depend* 78: 83-90.
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