

CURRICULUM VITAE

Kent A. Kiehl, Ph.D.

Executive Science Officer &
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The nonprofit Mind Research Network
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EDUCATION

1993	B.Sc., Psychology, Biology emphasis, University of California, Davis
1996	M.A., Psychology & Neuroscience, University of British Columbia
2000	Ph.D., Psychology & Neuroscience, University of British Columbia

ACADEMIC POSITIONS

2000-01	Assistant Research Professor, Department of Psychiatry, University of British Columbia, Vancouver, British Columbia
2001-07	Director, Clinical Cognitive Neuroscience Laboratory, Olin Neuropsychiatry Research Center, The Institute of Living at Hartford Hospital, Hartford, Connecticut
2001-05	Assistant Clinical Professor, Department of Psychiatry, Yale University School of Medicine, New Haven, Connecticut
2005-07	Associate Clinical Professor, Department of Psychiatry, Yale University School of Medicine, New Haven, Connecticut
2002-07	Lecturer, Department of Psychology, Yale University
2007-09	Associate Professor, Department of Psychology, University of New Mexico, Albuquerque, New Mexico
2010-13	Associate Professor (with tenure), Department of Psychology, University of New Mexico, Albuquerque, New Mexico
2007-13	Associate Professor, Department of Neuroscience, University of New Mexico School of Medicine, Albuquerque, New Mexico
2007-	Director of Mobile Imaging and Clinical Cognitive Neuroscience, the nonprofit Mind Research Network, an affiliate of Lovelace Biomedical and Environmental Research Institute, Albuquerque, New Mexico
2011-	Executive Science Officer, Mind Research Network (a nonprofit organization), an affiliate of Lovelace Biomedical and Environmental Research Institute, Albuquerque, New Mexico
2013-	Professor with tenure (primary appointment), Department of Psychology, University of New Mexico, Albuquerque, New Mexico
2013-	Professor (secondary appointment), Department of Neurosciences, University of New Mexico, Albuquerque, NM
2013-	Professor of Law (secondary appointment), University of New Mexico School of Law, Albuquerque, New Mexico

HONORS AND AWARDS

1991-93	Dean's Honor List, University of California, Davis
1993	President's Undergraduate Fellowship for honors thesis research, University of California Davis
1996-00	Nobel Laureate Michael Smith Graduate Scholarship, Medical Research Council of Canada, University of British Columbia
1999	McGeer Award for best scientific paper presentation, Department of Psychiatry, University of British Columbia
2000	Category 1 (highest attainable) ranking of doctoral dissertation. University of British Columbia
2000	Necia Elvin Award for early career contributions to schizophrenia research, inaugural recipient. University of British Columbia
2000	Best clinical poster presentation, Neuroscience Graduate student forum, University of British Columbia
2001-03	NARSAD Young Investigator Award
2004-06	NIH Student Loan Repayment Award
2004	Early Career Award - EEG & Clinical Neuroscience Society
2005	Society for Psychophysiological Research (SPR) Award for Distinguished Early Career Contributions to Psychophysiology
2006-08	NIH Student Loan Repayment Award – Competitive Renewal

PROFESSIONAL ACTIVITIES

SOCIETY MEMBERSHIPS AND SERVICE

1993 -	Society for Psychophysiological Research
1993 -	Cognitive Neuroscience Society
1994 -	International Organization of Human Brain Mapping
1995 -	International Society for Magnetic Resonance in Medicine
2005 -	Society for the Scientific Study of Psychopathy (SSSP), Charter Member
2005-07	Web developer for Society for the Scientific Study of Psychopathy (SSSP)
2007-11	Elected to the Board of Directors, Society for the Scientific Study of Psychopathy (SSSP)
2007 -	Neuroethics Society
2008 -	Society for Neuroscience
2009 -	American Psychological Association
2011 -	Elected to the Board of Directors, the nonprofit Mind Research Network
2012	Nominations Committee, SSSP
2013-	Awards Committee, SSSP
2013-	Elected to Board of Directors, Society for the Scientific Study of Psychopathy (SSSP)
2013-	Scientific Advisory Board Member, The Avielle Foundation (http://aviellefoundation.org). Avielle Rose Richman was one of twenty-six children and educators killed at Sandy Hook Elementary School in Newtown, CT on December 14th, 2012. The Avielle Foundation has been created to bring about change in the hope of honoring Avielle and all the others that have fallen to such senseless violence. The goal of the Foundation is to prevent violence through brain health research and fostering community.

2014- Texas Tech University Neuroimaging Institute (TTNI) External Advisory Board Member.

FEDERAL GOVERNMENT AND OTHER ADVISORY PANELS

1999-00 Canada Foundation for Innovation (CFI) grant program
 2001 General Electric (GE) Medical Advisory Board Committee Member on functional magnetic resonance imaging (fMRI)
 2003 NIH Study Section, Exploratory/Developmental grants in Social Neuroscience
 2004 NIH Study Section, Ad hoc member, Language and Communication Disorders (LCOM)
 2004 NIDA Special Emphasis Panel, Developing Efficacious Behavioral Therapies for Criminal Justice-Involved Populations.
 2005 NIH Study Section, Ad hoc member, Cognitive Neuroscience (COG)
 2005 NIH Study Section, Ad hoc member, Adult Psychopathology and Disorders of Aging (APDA).
 2005 NIH Study Section, Ad hoc member, Mood Disorders.
 2005 NIDA Grant Reviewer for the Imaging - Science Track Award for Research Transition Program (I-START).
 2006 NIH Study Section for the Extramural Student Loan Repayment Program
 2006 NIH Study Section for the NIH Blueprint initiative: Training in Neuroimaging: Integrating First Principles and Applications (T90)
 2007-09 National Science Foundation (NSF) Cognitive Neuroscience Study Section – standing member for 2007-2009.
 2007-10 Chair, Psychopathy Working Group and Panel Member of the John T. and Catherine D. MacArthur Foundation ‘Law and Neuroscience Project’ (PI: Michael Gazzaniga) www.lawandneuroscienceproject.org
 2008 NIMH Study Section for Conte Centers
 2009 NIDA Study Section ‘Physical Activity and Drug Abuse’
 2010 -14 NIH Adult Psychopathology and Disorders of Aging (APDA) Study Section, Charter Member
 2010 NICHD Special Emphasis Panel on Cognition, Brain Function, and Learning in Incarcerated Youth
 2010 Google Sci Foo Conference. An invited gathering of 200 scientists to discuss science and policy at the Google campus in California. <http://www.nature.com/natureconferences/scifoo/index.html>
 2010 John T. and Catherine D. MacArthur Foundation Advisory Board for Phase II project on Law and Neuroscience
 2011 Google Sci Foo Conference. An invited gathering of 200 scientists to discuss science and policy at the Google campus in California. <http://www.nature.com/natureconferences/scifoo/index.html>
 2012 NIDA Study Section for RFA DA11-006 Training in Neuroimaging (T90/R90) Applications
 2012 Google Sci Foo Conference. An invited gathering of 200 scientists to discuss science and policy at the Google campus in California. <http://www.nature.com/natureconferences/scifoo/index.html>
 2013 National Institute on Drug Abuse (NIDA)’s Cutting-Edge Basic Research Awards (CEBRA) program <<http://grants.nih.gov/grants/guide/pa-files/PAR-12-086.html>> review panel.

2013-14 National Science Foundation(NSF)-Department of Defense (DOD)-
National Institutes of Health (NIH) Worldwide survey of the state-of-the-art
neuroimaging centers.

EDITORIAL POSITIONS

2006-07 Associate Editor, *Psychophysiology*
2014- Editor, *Journal of Science and Law*

AD HOC REVIEWER

American Journal of Neuroradiology, Assessment, Archives of General Psychiatry,
Biological Psychiatry, Biological Psychology, Brain, Cognitive Brain Research, Emotion,
Frontiers in Human Neuroscience, Human Brain Mapping, International Journal of
Psychophysiology, Journal of Abnormal Psychology, Journal of Cognitive Neuroscience,
Molecular Psychiatry, Nature Neuroscience, Nature Reviews Neuroscience,
NeuroImage, Neuropsychology, NeuroReport, PLOS One, Psychological Assessment,
Psychological Bulletin, Psychological Science, Psychophysiology, Psychopharmacology,
Neuropsychopharmacology, Neuropsychology, Science, Trends in Cognitive Sciences

UNIVERSITY SERVICE (UNM)

2007-11 Colloquium Committee, Department of Psychology
2008-11 Graduate Admissions Committee, Department of Psychology
2008- Grant writing workshop for graduate students, Department of Psychology
2009-11 Web Site Committee, Department of Psychology
2009-11 Psychology Department (Logan Hall) Renovation project (Primary
Investigator and Director of Neuroimaging)
2010-11 Human Subjects Review Committee, Department of Psychology
2011- Chair, Human Subjects Review Committee, Department of Psychology
2011-13 Chair, Grice Awards Committee, Department of Psychology
2012-13 ECE faculty search committee member
2013-14 Co-chair Behavioral Neuroscience Faculty Search Committee,
Department of Psychology
2013- Colloquium Committee, Department of Psychology

NONPROFIT MIND RESEARCH NETWORK SERVICE

2009-11 Space Committee Member
2009 - Research Safety Committee Member
2009 - Director of Development for MRN Mobile MRI Research Network
2011- NIH Grant Writing Workshop Panel Member

TEACHING EXPERIENCE AND EDUCATIONAL WORKSHOPS

1993 Research Methods Tutor, Department of Psychology, University of
California, Davis
1993 Laboratory Teaching Assistant for Physiological Psychology,
Department of Psychology, University of California, Davis

- 1994 - 00 Teaching Assistant for Abnormal Psychology, Introductory Psychology, Personality Psychology, and Biological Psychology, Department of Psychology, University of British Columbia
- 2002 Statistical Parametric Mapping for Functional Brain Imaging, Department of Psychology, Yale University (Psychology 755).
- 2002 Clinical Cognitive Neuroscience, Department of Psychology, Yale University (Psychology 673a/473a).
- 2003, 2005 Neuroimaging Analysis Course, Department of Psychology, Yale University (Psychology 412a/612a).
- 2005 Statistical Parametric Mapping (SPM) Short Course Faculty and local host, Yale University, New Haven, CT.
- 2005-07 fMRI Image Acquisition and Analyses Course, Co-sponsored by the Olin Neuropsychiatry Research Center and Yale University. Faculty lecturer and primary coordinator. With Vince Calhoun, Tom Nichols, and Rik Henson; Three-day course held three times a year.
- 2007 - fMRI Image Acquisition and Analyses Course, Co-sponsored by the Mind Research Network and University of New Mexico. Faculty lecturer and primary coordinator. With Vince Calhoun and Tor Wager. Three-day course held three times a year.
- 2007 - Three-day training workshop on research and assessment of psychopathy. The Mind Research Network and the University of New Mexico. Primary lecturer and coordinator. Offered annually and as requested.
- 2007 Clinical Cognitive Neuroscience Undergraduate/Graduate Seminar, Department of Psychology, University of New Mexico (Psychology 450/650).
- 2008 Diagnostic Interview Training Workshop on Schedule for Affective Disorders and Schizophrenia for School-Aged Children-Present and Lifetime Version (K-SADS-PL). Primary coordinator and lecturer. With Katie Herzig as primary lecturer.
- 2008-12 Lecturer - Judicial Education Outreach Seminars on Psychopathy (Assessment, Risk Assessment, Treatment, & Neuroscience); Sponsored by the Gruter Institute for Law and Behavioral Research (<http://www.gruterinstitute.org>) and the John T. and Catherine D. MacArthur Foundation 'Law and Neuroscience Project' <http://lawandneuroscienceproject.org>
- 2009 - Introduction to Neuroimaging Analysis, Department of Psychology, University of New Mexico (Psychology 450/650).
- 2009-11 Lecturer - Judicial Education Outreach Seminars on Psychopathy (Assessment, Risk Assessment, Treatment, & Neuroscience) and Functional and Structural Brain Imaging in Forensic and Legal System, Sponsored by The Advanced Science and Technology Adjudication Resource Center (ASTAR), Inc.
- 2011 - Psychology, Neuroscience and Law Laboratory, Department of Psychology, University of New Mexico (Psychology 335L)
- 2013 - Psychology, Neuroscience and Law Seminar (Psychology 450/650 and UNM law), University of New Mexico

RESEARCH EXPERIENCE & CONSULTING

- 1988-93 Research Laboratory Technician (Work Study position), Department of Anesthesiology, School of Medicine, University of California, Davis
- 1992-94 Post Graduate Researcher to Michael R. Levenson, Ph.D., Human Development & Family Studies, Applied Behavioral Sciences, University of California, Davis
- 1992-94 Research Assistant to Rosemarie Kraft, Ph.D., Applied Behavioral Sciences, University of California, Davis
- 1992-94 Assistant Cetacean Researcher, Marine World Africa USA, Vallejo, CA
- 1993-94 Post-Graduate Researcher to George R. Mangun, Ph.D., Center for Neuroscience, University of California, Davis
- 1995 Graduate Research Assistant to James T. Enns, Ph.D., Department of Psychology, University of British Columbia
- 1996 Psychology Internship, Assistant to Johann Brink, M.D., Regional Health Centre (Pacific), A division of Correctional Services of Canada, Abbotsford, B.C., Canada
- 1994-97 Graduate Research Assistant to Robert D. Hare, Ph.D. Department of Psychology, University of British Columbia
- 1996-00 Graduate Research Assistant to Peter F. Liddle, Ph.D., M.D. Department of Psychiatry, University of British Columbia
- 1997 Clinical Psychology Internship, Assistant to Carson Smiley, Ph.D. Regional Health Centre (Pacific), A division of Correctional Services of Canada, Abbotsford, B.C., Canada
- 1997-01 Clinical Functional Magnetic Resonance Imaging Technician, Department of Radiology, University Hospital, University of British Columbia
- 1998 Clinical Psychology Internship, Assistant to Carson Smiley, Ph.D. Regional Health Centre (Pacific), A division of Correctional Services of Canada, Abbotsford, B.C., Canada
- 1999-01 Consultant to Lakshmi Yatham, M.D., Department of Psychiatry, University of British Columbia
- 2001-02 Consultant to Karen Bolla, Ph.D., Department of Neurology, Psychiatry and Behavioral Services, and Environmental Health Services, Johns Hopkins Bayview Medical Center
- 2001-02 Consultant to Vince Clark, Ph.D., Functional Brain Imaging Program, University of Connecticut Health Science Center
- 2002-04 Consultant to Anna Rose Childress, Ph.D., Department of Psychiatry, University of Pennsylvania.
- 2004-05 Consultant to Lynn Hasher, Ph.D., Chair, Department of Psychology, University of Toronto on purchase of MRI for main campus.
- 2004-05 Consultant to Robert A. Veselis, M.D., Director, Neuroanesthesiology Research Laboratory, Associate Attending Anesthesiologist, Memorial Sloan-Kettering Cancer Center, Cornell Medical School.
- 2001-07 Senior Research Scientist, Departments of Psychiatry, Neurosurgery, and Neurology, Institute of Living, Hartford Hospital.
- 2002-07 Consultant to Vince Clark, Ph.D., Functional Brain Imaging Program, University of New Mexico
- 2006-08 Consultant to Uma Rao, M.D., Department of Psychiatry, University of Texas, Southwestern.

- 2006 Consultant to William Burdon, Ph.D., UCLA Integrated Substance Abuse Programs, Criminal Justice Research Group.
- 2009-10 Consultant to The Ohio State University, Department of Psychology on purchasing MRI for main campus (Chair Richard Petty, Ph.D.). With Vince Calhoun.
- 2012-13 Consultant on serial murderers to the Federal Bureau of Investigation (FBI) and Albuquerque Police Department Cold Case Division.

LEGAL EDUCATION

- 2007-2007-10 Federal Judicial Center, Neuroscience Education for Federal Judges
State of Illinois Public Defender's Office, Public Defender's Office of DuPage County, Illinois
- 2007-10 Private Defense Attorney Steve Greenberg, Chicago, Illinois
- 2008-09 Private Defense Attorney John Houlihan, Chicago, Illinois
- 2008-09 Private Defense Attorney Jeremy Karlin, Galesburg, Illinois
- 2011-12 2nd Federal Circuit Judicial Education
- 2012-2013 State of Missouri Public Defender's Office
Alaska Bar Association & Federal Judicial Center
- 2013 State of Nevada Judicial Education
- 2013-14 State of New Mexico Judicial Education
- 2013 State of New Mexico Prosecutor's Office
- 2013 State of Georgia Public Defender's Office

STUDENTS/ POSTDOCS/ SCIENTISTS SUPERVISED

Current:

- Julia Lushing (2013-current). Received B.A. in Psychology 2006, Haverford College; received JD Yeshiva University School of Law 2012. Role: Primary graduate mentor.
- Samantha Fede (2012-current). Received B.A. in Psychology and Philosophy 2011, Virginia Polytechnic University. Role: Primary graduate mentor
- Nathaniel Anderson (2011-current), Ph.D., Psychology, Baylor College. Role: Primary postdoctoral mentor. NRSA post-doctoral application scored 1st percentile (11/11/12).
- Vaughn Steele (2011-current). Ph.D., Psychology, University of Minnesota. Role: Primary postdoctoral mentor.
- Carla Harenski, Ph.D., (2006-current). Ph.D., Psychology, Emory University. NRSA Post-Doctoral Fellowship 2007-2010. Role: NRSA mentor and primary post-doctoral supervisor. Dr. Harenski is currently research faculty in Dr. Kiehl's laboratory.

Past: (sample)

- Edward Bernat (2011-2014). Ph.D., Psychology, University of Michigan, NIDA K01 awardee. Role: Primary mentor on K-award.
- Dustin Pardini (2011-2014). Ph.D., Clinical Psychology, University of Alabama. Currently Assistant Professor of Psychiatry at the University of Pittsburgh. Role: Consultant on K-award.
- Gina Vincent (2010-2014). Ph.D., Forensic Psychology, Simon Fraser University, NIDA K01 awardee. Role: Co-mentor on K-award.

- Lora Cope (2007- 1013). Received B.S., 2004, The Ohio State University. Graduate student in Cognitive Science, Department of Psychology, University of New Mexico. Role: Primary graduate school advisor.
- Elsa Ermer, Ph.D. (2008-2012). Received B.A., 2000, Franklin and Marshall College; M.A., 2002 and Ph.D., 2007, University of California, Santa Barbara. NRSA Post-Doctoral Fellowship 2010-2012. Role: NRSA mentor and primary post-doctoral supervisor. Dr. Ermer accepted a faculty position as an assistant professor of psychology at Adelphi University in 2012.
- Brandi Fink, Ph.D. (2009-10). Received Ph.D., 2010, University of New Mexico. Role: Primary post-doctoral supervisor.
- Mathew Shane, Ph.D. (2006-2009). Received Ph.D., 2004, University of Toronto. Role: Primary post-doctoral supervisor; NIDA I/START Mentor.
- Gillian Munro, Ph.D. (2008-2009). Received B.A. 2002, University College of the Cariboo, M.A. 2004 and Ph.D. 2008, University of Waterloo. Role: Primary post-doctoral supervisor.
- Deidre Reis (2006-2009), doctoral student in cognitive psychology, NRSA recipient, Department of Psychology, Yale University, Role: Imaging advisor, dissertation committee.
- Michael Stevens, Ph.D., (2002-2009). Received Ph.D. 1999, Department of Psychology, University of Connecticut-Storrs. Appointed junior faculty in the Olin Neuropsychiatry Research Center, 2002-2004. K-awardee 'Neuroimaging Cognition in Adolescent Behavior Disorders' (2004-2009). Role: Primary Advisor; co-mentor on K-Award
- Jana Schaich Borg (2005-2007). Received B.A. Dartmouth College, 2003; Currently NRSA recipient and doctoral student in neuroscience, Stanford University. Role: Primary NRSA mentor and post-graduate mentor 2005-2007.
- Elizabeth Stevens (2004-2006). Received B.A., University of California, Los Angeles 2001. Received Ph.D. in Clinical Psychology in 2006, Dissertation Title "Cognitive Style and Adolescent Psychopathy: An Exploratory Investigation", Department of Psychology, Yale University. Role: Primary Graduate School Advisor
- Derek Mitchell, Ph.D. (1996-1998), University of British Columbia; Post doc, NIMH Mood Disorders Program, currently faculty University of Western Ontario. Received Ph.D., 2005, Department of Psychology, Institute of Cognitive Neuroscience, University College London. Role: Co-advisor of Undergraduate Honors Thesis.
- Sara Johnson, M.D. (1996-1998), University of British Columbia Currently in private practice. Received MD, 2002, University of British Columbia. Role: Primary Advisor of Undergraduate Honors Thesis.
- Adrien Desjardins, Ph.D., (1998-2001), University of British Columbia, Ph.D., MIT-Harvard College Biophysics. Role: Primary Advisor of Undergraduate Honors Thesis.
- Kristin Laurens, Ph.D. (2000-2001). Received Ph.D. 2003, Neuroscience, University of British Columbia; Post-doctoral Fellow, University of Nottingham 2004-5; Currently faculty, University College London, London UK. Role: Co-mentor on dissertation.
- Athena Vouloumanos, Ph.D. (1999-2000). Received Ph.D., 2003, Department of Psychology, University of British Columbia. Currently Assistant Professor McGill University, Montreal, CA. Role: Primary mentor on fMRI training

- Alan Bates, Ph.D. (1998-2000). Received Ph.D., University of Nottingham, 2004; Currently medical student, University of British Columbia. Role: Primary mentor on undergraduate training in fMRI and ERPs.
- Adrianna Mendrek, Ph.D. (2000-2001). Received Ph.D., 2002, Department of Psychology, University of British Columbia. Currently, Research Professor, University of Montreal, Montreal, CA. Role: Co-mentor on doctoral dissertation.
- Timothy O'Keefe, B.S. (2002-2004). Currently research trainee, Brown University. Role: Primary supervisor of post-graduate training period.
- Kim Celone, B.S. (2002-2004). Currently doctoral candidate Clinical Psychology, Boston University, 2005. Role: Primary supervisor of post-graduate training period.
- Matthew Johnson, B.A. (2003-2005). Currently doctoral candidate Neuroscience, Yale University. Role: Co-supervisor of post-graduate training period.
- Joseph Bates (2004-2005), Masters student in cognitive science, Department of Psychology, Yale University. Role: Primary Advisor
- Valentina Gumenyuk, Ph.D. (2004-2005). Received Ph.D., 2004, Cognitive Brain Research Unit, Department of Psychology, University of Helsinki (Supervisor, Risto Naatanen). Currently, post-doctoral fellow (part-time), Olin Neuropsychiatry Research Center, Institute of Living, Hartford, CT. Role: Primary Post-doctoral supervisor.
- Heather Gordon, Ph.D. (2004-2005). Received Ph.D., Cognitive Psychology, Department of Psychology and Brain Sciences, Dartmouth College. Postdoctoral fellow (part time), Olin Neuropsychiatry Research Center, Institute of Living, Hartford, CT. Role: Adjunct Advisor of Doctoral Dissertation. Dr. Gordon is currently an agent for the FBI.

GRANT HISTORY

	Total Direct Costs	Total Indirect Costs	Total Grant Dollars
NIH Funding as Primary Investigator *	\$14,135,000	\$10,177,200	\$24,312,200
Non-NIH funding*	\$4,044,900	\$2,912,328	\$6,957,228
Total**	\$18,179,900	\$13,089,528	\$31,269,428

*Since 2004, includes grants awarded as Primary Investigator or Primary Investigator on sub-award;
Does not include grants awarded as co-investigator or collaborator;

**Does not include confidential contract work.

FEDERAL GRANTS – ACTIVE

NIDA: 1R01DA026964-01A1 (PI: Kiehl) 07/01/10 - 06/30/15 20% or 2.4
Action monitoring, action observation and dopamine genes as predictors of substance abuse \$352,000/yr direct costs
 \$3,065,259 total costs
 To utilize multimodal imaging techniques (ERP/fMRI) to characterize the integrity of neural circuits engaged in action-monitoring in incarcerated drug-abusers
 Role: Primary Investigator

NIDA: 1R01DA026505-01A1 (PI: Kiehl) 09/01/09-05/31/14 20% or 2.4
Socio-moral processing in psychopathy and substance abuse \$424,868/yr direct costs;
 \$3,436,621 total costs
 To use functional imaging to elucidate and characterize the functional neuroanatomy of processing of moral stimuli for linguistic and picture stimuli in psychopathy and substance abuse
 Role: Primary Investigator (grant in one year no-cost extension)

NIMH; 1R01MH085010-01A1 (PI: Kiehl) 07/17/09–04/30/14 20% or 2.4
The cognitive neuroscience of female psychopathy \$396,653/yr direct costs;
 \$3,360,119 total costs
 To test the paralimbic dysfunction hypothesis of psychopathy in female offenders using event-related potentials and functional magnetic resonance imaging
 Role: Primary Investigator (grant in one year no-cost extension)

NIH: R01 MH090169-01 (PI: Kosson) 06/01/11 - 03/30/15 10% or 1.2
Neural Substrate of Cognitive and Emotional Deficits in Psychopathy \$3,753,930 total
 Comparison of three models of psychopathy, left hemisphere dysfunction, response modulation, and paralimbic dysfunction.
 Role: Subcontract PI (\$1,500,000 direct costs)

NIH: R01 MH087525-01 (PI: Decety) 06/01/11 - 03/30/15 10% or 1.2
Neurological mechanisms of empathetic and emotional processes in individuals who vary in psychopathic traits \$2,514,850 total
 Develop an integrative understanding of the functional neuroanatomy of empathy dysfunctions in psychopathic individuals.
 Role: Subcontract PI (~\$1,000,000 direct costs)

FEDERAL GRANTS – PENDING

NIH: 1R01HD082257-01 (PI: **Kiehl**) 09/01/14-08/31/19 20% or 2.4
Brain Changes & Outcomes Associated with Evidence-based Treatment \$ 4,482,000 total
in High-risk Youth
 Examine brain changes in incarcerated high-risk youth undergoing intensive cognitive behavioral/contingency management treatment.
 Role: Primary Investigator

NIH: 1R01 (MPI: Vinogradov, **Kiehl**) 02/01/15-01/31/20 20% or 2.4
Cognitive Training for Violent Adolescent Males \$ 4,200,000 total
 Examine brain changes in incarcerated high-risk youth undergoing short term computer brain plasticity training.
 Role: Co-Primary Investigator

FEDERAL GRANTS – PAST

NIMH; 1 R01 MH071896-01 (PI: **Kiehl**) 02/01/06-12/30/11 14% or 1.68
Neurocognitive assessment of 'Callous' Conduct Disordered youth \$212,500/yr direct costs;
 \$1,815,000 total costs
 To use ERP and fMRI measures to test the hypothesis that youth with Callous Conduct Disorder show abnormalities in the paralimbic system
 Role: Primary Investigator

NIDA; 1 R01 DA020870-01 (PI: **Kiehl**) 10/01/05-09/30/11 10% or 1.2
Neurocognitive changes associated with behavioral treatment in cocaine abusers \$388,096/yr direct costs;
 \$2,942,529 total costs
 To examine functional and structural changes associated with three cognitive behavioral treatment protocols in cocaine abusers.
 Role: Primary Investigator

NIMH; 1 R01 MH072681-01 (PI: **Kiehl**) 07/01/05-06/30/11 10% or 1.2
Abnormal functional connectivity in psychosis \$212,500/yr direct costs;
 \$1,542,750 total costs
 To use functional imaging measures to differentially diagnose schizophrenia from psychotic bipolar illness.
 Role: Primary Investigator

NIDA/NIH 1R21DA027149-01 (MPIs: Shane, Posse, **Kiehl**) 08/15/09 - 07/31/11 5% or 0.6
Using rt-fMRI to modulate neural responses to drug and nondrug rewards in cocaine abusers \$469,334 total
 To test the feasibility of real-time functional magnetic resonance imaging (rt-fMRI) aided neurofeedback for facilitating voluntary modulation of reward-related neural activity in incarcerated adolescent cocaine abusers.
 Role: Multiple Primary Investigator Award

NIDA: 1 R21DA029464-01 (MPIs: Shane, Posse, **Kiehl**) 10/01/09 – 9/30/12 10% or 1.2
Using Real-Time MRI to facilitate neuromodulation to drug-cues in adolescent substance abuse \$671,560 total

To characterize the extent to which real time-fMRI neurofeedback can facilitate adolescent cocaine abusers' ability to modulate their neural response to drug- and nondrug-related reward in select brain areas.

Role: Multiple Primary Investigator Award

NIMH 2 R01 R3743775-14 (PI: Pearlson) <i>Quantitative neuroimaging in psychosis</i>	6/1/09-05/31/13	5% or .6
Investigates circuit-wide abnormalities in schizophrenia using functional and structural brain MRI in schizophrenia and healthy controls.		\$360,000/yr
Role: Co-Investigator		

NIH/NCRR 1P20 RR021938-01A1 (Calhoun) <i>COBRE: Neural mechanisms of schizophrenia: Use of multiple tools to examine dysfunctions in neural integration</i>	9/8/08-6/30/13	5% or .6
Examines functional and anatomical connectivity in schizophrenia using multimodal neuroimaging analyses		\$1,725,415/yr
Role: Co-Investigator		

NIMH: RO1 MH077945-01 (PI: Pearlson) <i>Bipolar & schizophrenia consortium for parsing endophenotypes</i>	12/01/07-11/30/12	2.5% or 0.3
To examine electrophysiologic, oculomotor, cognitive and structural brain changes and genotypes associated with psychotic bipolar illness and schizophrenia in patients and unaffected first-degree relatives. This is a 5-site collaborative linked investigation.		\$670,295/yr; \$3,936,632 total
Role: Co-Investigator		

NIBIB/NIMH; 1R01EB006841 (PI: Calhoun) <i>Multivariate methods for identifying multi-task/multimodal brain imaging biomarkers</i>	04/01/07-03/31/11	10% or 1.2
To develop methods, based upon independent component analysis, for joint-statistical analysis of multi-task and multimodal brain data (functional MRI, DTI, structural MRI) in order to make inferences about brain connectivity, to apply these methods to patients with schizophrenia and healthy controls, and to develop, and make publicly available, an online web-enabled database implementing our joint ICA approach.		\$220,000/yr
Role: Co-Investigator		

NIAAA; 1 R01 AA017390-01 (PI: Bryan) <i>HIV prevention with adolescents: Neurocognitive deficits and treatment response</i>	10/01/07-09/30/12	5% or .6
This research is designed to understand the genetic and neurocognitive predispositions that contribute to sexual risk behaviors that place criminally-involved adolescents at high risk of unintended pregnancy and STDs including HIV/AIDS. The findings will help us to design better interventions to decrease alcohol-related sexual risk behavior in this population of highly vulnerable young people.		\$395,531/yr
Role: Co-Investigator		

NIMH: 1 R01 MH074934-01 (PI: Tolin) <i>Neural mechanisms of compulsive hoarding</i>	05/01/06-04/30/10	5% or .6
To use functional brain imaging to assess error processing dysfunction in compulsive hoarding syndrome, obsessive-compulsive disorder, and anxious control groups.		\$200,000
Role: Co-Investigator		

NSF; 1R01EB005846-01 (PI: Calhoun) 08/01/05-07/31/08 6% or 0.72
Collaborative Research: Spatiotemporal fusion of fMRI, EEG, and genetic data using Independent Component Analysis \$210,000
 To develop data fusion approaches for fMRI, EEG, and gene SNP array data with application to healthy controls and patients with schizophrenia
 Role: Co-Investigator

NIBIB; 1 R01 EB 000840-01 (PI: Calhoun) 04/01/03-04/01/08 8% or 0.96
Multi-group semi-blind ICA of fMRI \$250,000
 To develop, evaluate the performance of, and optimize semi-blind independent component analysis for the analysis of multi-group functional magnetic resonance imaging data and to use study data previously collected from patients with schizophrenia and healthy controls performing an auditory oddball task.
 Role: Co-Investigator

NIDA: 1 R03 (PI: Shane) 1/01/08-12/31/08 5% or .6
Error detection and error awareness in incarcerated cocaine dependent individuals \$237,990
 To investigate integrity of error monitoring systems in incarcerated cocaine dependent individuals, with specific consideration of conscious awareness of committed errors.
 Role: Co-Investigator

K23 MH070036-01 Stevens (PI) 08/01/04 -07/01/09 No salary
Neuroimaging cognition in adolescent behavior disorders \$142,250
 A 5-year Career Development Award to provide the PI skills for an independent clinical neuroscience research career investigating how brain function relates to diagnoses associated with disruptive behavior.
 Role: Co-Mentor

NIMH; 1 R01 MH070539-01 (PI: Kiehl) 12/01/04-11/30/08 10% or 1.2
ERP and fMRI of emotion and cognition in psychopathy \$202,000/yr direct costs;
 \$1,192,320 total costs
 To test the paralimbic dysfunction hypothesis of adult psychopathy using event-related potentials and functional magnetic resonance imaging.
 Role: Primary Investigator

NIDA; RO1 DA 11426 (PI: Bolla). 10/01/98-09/30/02 Consultant
Cocaine abuse and limbic prefrontal function \$738,423
 Examination of prefrontal function in cocaine abusers using positron emission tomography.
 Role: Consultant

ADDITIONAL NON-FEDERAL FUNDING – ACTIVE

Brain Safe Project (www.brainsafeproject.com) 10/1/13-perpetual 15% effort
 Site: University of New Mexico \$1,000,000
 A state-of-the-art protocol for sports-related concussion assessment and management for NCAA Sports. per year
 Role: Director/Primary Investigator

ADDITIONAL NON-FEDERAL FUNDING - PAST

MacArthur Foundation Law and Neuroscience Project (Part 2) <i>Analysis of Moral Judgment in Psychopaths, Punishment Decisions by Psychopaths, Brain Structure in Psychopaths and Addicts (sMRI), and Dehumanization in Psychopaths via fMRI imaging and clinical assessment.</i> Role: Primary Investigator	1/1/2009-6/31/2011	\$534,900
MacArthur Foundation Law and Neuroscience Project (Part 1) <i>Mapping of brain activity to chart connections among brain region and activities to fully understand brain functions and disorders.</i> Role: Primary Investigator	7/1/2008-6/30/09	\$150,000
National Alliance on Research in Schizophrenia and Depression (NARSAD) (PI: Kiehl) <i>Hemodynamic assesment of neurocognitive remediation in schizophrenia.</i> Young Investigator Award to assess changes in attention and working memory in schizophrenia as assessed with fMRI following cognitive remediation. Role: Primary Investigator Mentors: Drs. John Krystal and Bruce Wexler, Yale University	08/01/01-07/31/03	No salary \$60,000
Institute of Living Open Grant Competition Award (PI: Stevens) <i>Response inhibition in Attention-Deficit/Hyperactivity Disorder</i> Double-blind placebo study of the effects of stimulant medication on response inhibition processes in ADHD. Role: Co-Investigator	07/01/04-06/30/06	No salary \$65,000
Institute of Living Open Grant Competition Award (PI: Stevens) <i>Neuropsychology and DTI of Traumatic Brain Injury</i> <i>Test-retest study examining functional and structural (gray and white matter) changes associated with acute traumatic brain injury</i>	07/01/04-06/30/06	No salary \$75,000
Institute of Living Open Grant Competition Award (PI: Kiehl) <i>Electrophysiological assessment of error monitoring in psychotic illnesses</i> To examine brain potential correlates of error-monitoring in patients with schizophrenia Role: Primary Investigator	8/01/02-7/31/03	No salary \$50,000
Institute of Living Open Grant Competition Award (PI: Kiehl) <i>Differentiating the neural systems involved in psychosis: Affective disorder versus schizophrenia</i> Pilot study to collect ERP and fMRI data in patients with bipolar illness and schizophrenia to develop algorithms to discriminate them. Role: Primary Investigator	01/15/03-01/14/04	No salary \$50,000
Institute of Living Open Grant Competition Award (PI: Tolin) <i>A pilot study of conflict monitoring in obsessive-compulsive disorder: Relationship to symptoms and treatment response</i> A pilot study examining changes in conflict monitoring in OCD associated with cognitive behavioral treatment Role: Co-Investigator	08/01/02-07/31/03	No salary \$50,000

Institute of Living Open Grant Competition Award (PI: Maltby) <i>Dismantling the neural systems of obsessive-compulsive disorder: A symptom provocation study of compulsive hoarding.</i>	01/15/03-01/14/04	No salary \$50,000
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A pilot fMRI study of a symptom provocation paradigm in individuals with compulsive hoarding disorder.

Role: Co-Investigator

Institute of Living Open Grant Competition Award (PI: Calhoun) <i>Functional mapping of the neocortical network in schizophrenia: Executive-function impairments and spontaneous fluctuations in fMRI.</i>	01/15/03-01/14/04	No salary \$50,000
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A pilot study employing Independent Component Analyses to examine functional connectivity in patients with schizophrenia during working memory and 'resting' state paradigms.

Role: Co-Investigator

SOFTWARE AND HARWARE DEVELOPMENT

- 1994–99 LumiTouch reply system. Fiber-optic response device for collection of behavioral data in magnetoencephalography and functional magnetic resonance imaging experiments. In collaboration with John Kidder, CEO, and Doug Broadfoot, Lightwave Medical Inc. Vancouver, B.C., Canada. <http://www.photonixco.com> Patent Pending.
- 1995 Conversion programs for creating ANALYZE format images from GE structural and functional data sets. In collaboration with Scott Morrison. Software available upon request.
- 1995 MRI off-line reconstruction software for EPI data on the Silicon Graphics Workstations. In collaboration with Bryan Mock, University of Wisconsin – Madison; General Electric Medical Systems, Milwaukee, WI. Software available upon request.
- 1998-04 CIRC – computer program designed to monitor and analyze behavioral performance online during behavioral, event-related potential, magnetoencephalography, and functional magnetic resonance imaging experiments. In collaboration with Arthur Jones.
- 1998-04 Digitize – Solaris based high-resolution EEG acquisition system. Designed for collection of up to 128 channels of EEG for brain mapping and source localization. In collaboration with Arthur Jones. <http://sourceforge.net/projects/digitize>
- 1999 Talairach atlas labeling system. Software designed to automatically search the results of functional imaging data and label with brain structures from the Talairach atlas. In collaboration with Adrien Desjardins and Peter Liddle. Software available upon request.
- 1994-08 Visual and Auditory Presentation Package (VAPP). Software designed for presenting visual and auditory stimuli for behavioral, event-related potential, magnetoencephalography, and functional magnetic resonance imaging experiments. In collaboration with Tony Gray, Peter Liddle, Ron Mangun, Steve Hillyard, Steve Luck and Marty Woldorff
- 2002- Group Independent Component Analyses Software (GIFT and EEGIFT). Software designed to permit end-users to use Independent Component Analyses to analyses multimodal neuroimaging data. Effort directed by Dr. Vince Calhoun – see <http://mialab.mrn.org/software/>
- 2008-12 Event-related Potential Software System (ERPSS) for Matlab. Software designed to integrate state-of-the-art event-related potential (ERP) and electroencephalographic (EEG) analyses into a Matlab platform. Effort directed by Steve Luck, Ph.D., UC Davis.

PRINT AND FILM MEDIA
FEATURING KIEHL LABORATORY
(List not exhaustive)

1. "Suffering Souls" by John Seabrook, New Yorker, November 10, 2008, pages 64-73.
http://www.newyorker.com/reporting/2008/11/10/081110fa_fact_seabrook
2. "Investigating the Psychopathic Mind" by Greg Miller, Science, September 5, 2008, 321, 1284-1286. <http://www.sciencemag.org/content/321/5894/1284.full>
3. "fMRI Evidence Used in Murder Sentencing" by Greg Miller, ScienceInsider, November 23, 2009. <http://news.sciencemag.org/scienceinsider/2009/11/fmri-evidence-u.html>
4. "Can a cure be found for criminal psychopaths?" by Vancouver Province, November 9, 2008, <http://www.canada.com/theprovince/news/story.html?id=ae435865-342e-4371-8cdd-999555eded4b>
5. "A Mind of Crime" (Lead cover article) by Michael Haederle, Miller-McCune, February 23, 2010, <http://www.miller-mccune.com/legal-affairs/a-mind-of-crime-8440/>
6. "Science labors to understand `biology of violence'" by University of New Mexico for the Albuquerque Tribune, May 16, 2007. <http://www.abqtrib.com/news/2007/may/16/kent-kiehl-science-labors-understand-biology-viole/>
7. "Study: Brain scans can help identify schizophrenia", by William Hathaway, Hartford Currant, April 6, 2004. http://articles.courant.com/2004-04-06/news/0404060731_1_scans-brain-activity-schizophrenics
8. "The Mind of the Psychopath: Contours of Evil", by William Hathaway, Hartford Currant, December 18, 2005. Front page cover article. http://articles.courant.com/2005-12-18/news/0512180075_1_psychopaths-brain-scans-kiehl
9. "New Mexico scientist studies psychopaths using brain scans", by Sue Vorenberg, Albuquerque Tribune, September 26, 2007. <http://www.abqtrib.com/news/2007/sep/26/new-mexico-scientist-studies-psychopaths-using-bra/>
10. "Psychopaths Keep Their Eyes on the Prize" by Michael Torrice, Science Now. <http://news.sciencemag.org/sciencenow/2010/03/psychopaths-keep-their-eyes-on-t.html>, March 26, 2010.
11. "Science in court: Head Case", by Virginia Hughes. Nature. <http://www.nature.com/news/2010/100317/full/464340a.html>, March 18, 2010. See also <http://www.nature.com/nature/podcast/index-2010-03-18.html>
12. "Psycho Killers, Qu'est-ce que C'est?" by Jeannette Cooperman in St. Louis Magazine <http://www.stlmag.com/media/St-Louis-Magazine/February-2010/Psycho-Killers-Qu-rsquoest-ce-que-C-rsquoest/>

13. "Inside A Psychopath's Brain: The Sentencing Debate", by Barbara Bradley Hagerty, National Public Radio (NPR). June 30, 2010.
<http://www.npr.org/templates/story/story.php?storyId=128116806>
14. "Can Genes and Brain Abnormalities Create Killers?" Talk of the Nation, National Public Radio (NPR). July 6, 2010.
<http://www.npr.org/templates/story/story.php?storyId=12833930>
15. "The Mind of a killer. How a psychopath is made", by Anne McIlroy and Erin Anderssen. Globe and Mail, Canada. October 22, 2010.
<http://www.theglobeandmail.com/news/national/russell-williams/how-a-psychopath-is-made/article1769674/singlepage/#articlecontent>
16. "Why You Shouldn't Make a Contract With a Psychopath", by Jeffrey Kluger, Time Magazine. November 8, 2010. <http://healthland.time.com/2010/11/04/why-you-shouldnt-make-a-contract-with-a-psychopath/>
17. "Psychopaths' Decisions Studied" by James Monteleone. November 8, 2010, Albuquerque Journal. <http://www.abqjournal.com/news/metro/08222451metro11-08-10.htm>
18. "Examining How Lack of Impulse Control Afflicts Juvenile Offenders" by Karen Wentworth, August 19, 2011, UNM Today <http://news.unm.edu/2011/08/examining-how-lack-of-impulse-control-afflicts-juvenile-offenders/>
19. "Psychopaths: Born evil or with a diseased brain?" by Matthew Taylor, BBC News and Health Report. November 14, 2011 <http://www.bbc.co.uk/news/health-15386740>
20. "The biology of evil: Could psychopaths be victims of bad wiring?" by Douglass Quan, Postmedia News (National News Wire of Canada), December 3, 2011.
<http://www.canada.com/biology+evil+Could+psychopaths+victims+wiring/5804344/story.html>
21. "Are psychopaths "Brain Damaged"?" by Gary Stix. Scientific American. December, 6, 2011. <http://blogs.scientificamerican.com/observations/2011/12/06/are-psychopaths-like-hannibal-lecter-brain-damaged>
22. In Mock Case, Biological Evidence Reduces Sentences, by Greg Miller, Science. <http://www.sciencemag.org/content/337/6096/788.full?sid=a7e46eab-eac2-4a50-a0ac-ddc2e3503b36> ; August 17, 2012, volume 337, page 788.
23. "Future Tense Event Recap: Will Neurolaw Change the Judicial System-and Does Free Will Exist?" by Torie Bosch, October 22, 2012. The New America Foundation/Slate Magazine Neuroscience and Law Symposium in Washington DC. October 23, 2012: http://www.slate.com/blogs/future_tense/2012/10/22/neurolaw_a_future_tense_event_on_neuroscience_the_judicial_system_free_will.html
24. "Brain scans predict which criminals are more likely to reoffend. Neuroimaging 'biomarker' linked to rearrest after incarceration." By Regina Nuzzo. March, 25, 2013

- <http://www.nature.com/news/brain-scans-predict-which-criminals-are-more-likely-to-reoffend-1.12672>,
25. "Brain scans predict which criminals are most likely to reoffend." By Greg Miller, Wired Magazine. <http://www.wired.com/wiredscience/2013/03/brain-scans-predict-which-criminals-will-reoffend/>
 26. <http://drudgegae.iavian.net/r?hop=http%3A%2F%2Fwww.dailymail.co.uk%2Fsciencetech%2Farticle-2299423%2FBrian-scans-predict-criminal-likely-reoffend.html>
 27. <http://www.the-scientist.com/?articles.view/articleNo/34858/title/Brain-Activity-Predicts-Re-arrest/>
 28. <http://www.scpr.org/programs/take-two/2013/03/27/31063/study-brain-scans-can-predict-which-criminals-will/>
 29. <http://veja.abril.com.br/noticia/ciencia/pesquisa-usa-imagens-cerebrais-para-prever-comportamento-criminoso>
 30. <http://www.alzforum.org/new/detail.asp?id=3484>
 31. New Thinking on Brains and Crime. Cover article by Leslie Linthicum, Albuquerque Journal. Sunday, June 9, 2013. <http://www.abqjournal.com/main/208521/opinion/new-thinking-on-brains-and-crime.html>
 32. "Brain scans predict who's likely to be a repeat offender." NPR Morning Edition with host David Greene. <http://www.npr.org/2013/04/05/176303914/brain-scans-can-predict-whos-likely-to-be-a-repeat-offender>
 33. "Brain scans of inmates turn up possible link to risks of re-offending." By Michael Haederle, Los Angeles Times. <http://www.latimes.com/news/nationworld/nation/la-na-prisoner-brains-20130715,0,5130358.story>
 34. Jay Leno show monolog jokes about Kiehl lab research on neuroprediction <http://writingshares.com/nbc-tv-entertainment-video-jay-leno-monologue-for-july-19-2013/>
 35. Brazil media coverage of Dr. Kiehl's laboratory, by Demétrio Rocha Pereira: <http://zerohora.clicrbs.com.br/rs/geral/planeta-ciencia/noticia/2013/08/sob-o-imperio-do-cerebro-4235395.html> & <http://zerohora.clicrbs.com.br/rs/geral/planeta-ciencia/noticia/2013/08/neurocientistas-negam-capacidade-de-prever-futuro-com-mapeamento-cerebral-conhecimento-e-probabilistico-4235389.html>
 36. Brain Safe Project (<http://brainsafeproject.com>). Press release. <http://news.unm.edu/news/mind-research-network-and-unm-introduce-brain-safe-project-to-understand-and-minimize-concussions-on-ncaa-athletes>

37. Brain Safe Project (www.brainsafeproject.com) press release picked up by over 300 news/media outlets.
38. <http://www.newscastic.com/news/10-things-you-probably-dont-know-about-abq-1217881/>
39. <http://www.wired.com/2014/04/psychopath-brains-kiehl/>
40. <http://www.biographile.com/qa-psychopath-whisperer-dr-kent-a-kiehl-on-the-brains-of-maniacs/30934/>

PEER-REVIEWED PUBLICATIONS**Google Scholar Results (as of 08/28/14): 140 Peer-reviewed publications**

	All	Since 2009
Citations	10,569	7123
h-index	54	47
I10-index	106	104

1. Levenson, M.R., **Kiehl, K.A.**, & Fitzpatrick, C. (1995). Assessing psychopathic attributes in a noninstitutionalized population. *Journal of Personality and Social Psychology*, 68, 151-158. PMID: 7861311
2. **Kiehl, K. A.**, Smith, A. M., Forster, B.B., & Hare, R.D. (1995). Protocol for a functional MRI study of semantic and affective processing in psychopaths. *Issues in Criminological & Legal Psychology*, 24, 84.
3. Forster, B.B., MacKay, A., Whittall, K. P., **Kiehl, K.A.**, Smith, A.M., Liddle, P.F. & Hare, R.D. (1998). Functional MRI: The basics of the BOLD (blood oxygen level dependent) technique. *Canadian Journal of Radiology*, 49, 320-329. PMID: 9803232
4. **Kiehl, K.A.**, Hare, R.D., McDonald, J. J., & Brink, J. (1999). Semantic and affective processing in psychopaths: An event-related potential (ERP) study. *Psychophysiology*, 36, 765-774. PMID: 10554590
5. **Kiehl, K.A.**, Hare, R.D., Liddle, P.F. & McDonald, J.J. (1999). Reduced P300 responses in criminal psychopaths during a visual oddball task. *Biological Psychiatry*, 45, 1498-1507. PMID: 10356633
6. **Kiehl, K.A.**, Liddle, P.F., Smith, A.M., Mendrek, A. Forster, B.B., & Hare, R.D. (1999). Neural pathways involved in processing concrete and abstract words. *Human Brain Mapping*, 7, 225-233. PMID: 10408766
7. Szymanski, M.D., Bain, D., **Kiehl, K.A.**, Henry, K., Pennington, S., & Wong, S. (1999). Killer whale (*Orcinus orcas*) hearing: Auditory brainstem response (ABR) and behavioral audiograms. *Journal of the Acoustic Society of America*, 106, 1134-1141. PMID: 10462816
8. McDonald, J.J., Ward, L.M., & **Kiehl, K.A.** (1999). An event-related brain potential analysis of inhibition of return. *Perception and Psychophysics*, 61, 1411-1423.
9. **Kiehl, K.A.**, Liddle, P.F., & Hopfinger, J.B. (2000). Error processing and the rostral anterior cingulate: An event-related fMRI study. *Psychophysiology*, 37, 216-223. PMID: 10731771
10. **Kiehl, K.A.** Smith, A.M., Liddle, P.F., & Hare, R.D. (2000). An event-related potential investigation of response inhibition in schizophrenia and psychopathy. *Biological Psychiatry*, 48, 210-221. PMID: 10924664

11. Liddle, P.F., **Kiehl, K.A.**, & Smith, A.M. (2001). An event-related fMRI study of response inhibition. *Human Brain Mapping*, *12*, 100-109.
12. **Kiehl, K.A.**, Laurens, K.R., Duty, T.L., Forster, B.B., & Liddle, P.F. (2001). Neural sources involved in auditory target detection and novelty processing: An event-related fMRI study. *Psychophysiology*, *38*, 133-142. PMID: 11321614
13. **Kiehl, K.A.** & Liddle, P.F. (2001). An event-related functional magnetic resonance imaging study of an auditory oddball task in schizophrenia. *Schizophrenia Research*, *48*, 159-171. PMID: 11295369
14. **Kiehl, K.A.**, Smith, A.M., Hare, R.D., Forster, B.B., & Liddle, P.F. (2001). Limbic abnormalities in affective processing in criminal psychopaths as revealed by functional magnetic resonance imaging. *Biological Psychiatry*, *50*, 677-684. PMID: 11704074
15. **Kiehl, K.A.**, Laurens, K.R., Duty, T.L., Forster, B.B., & Liddle, P.F. (2001). An event-related fMRI study of visual and auditory oddball tasks. *Journal of Psychophysiology*, *21*, 221-240.
16. Desjardins, A., **Kiehl, K.A.**, & Liddle, P.F. (2001). Removal of confounding effects of global signal in functional MRI analyses. *NeuroImage*, *13*, 751-758. PMID: 11305902
17. Vouloumanos, A., **Kiehl, K.A.**, Werker, J. F., & Liddle, P.F. (2001). Detection of sounds in the auditory stream: fMRI evidence for differential activation to speech vs. non-speech. *Journal of Cognitive Neuroscience*, *13*, 994-1005. PMID: 11595101
18. Bates, A.T., **Kiehl, K.A.**, Laurens, K.R., & Liddle, P.F. (2002). Error-related negativity and correct response negativity in schizophrenia. *Clinical Neurophysiology*, *113*, 1454-63. PMID: 12169328
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20. Ngan, E.T.C., Stip, E., Whitman, J., **Kiehl, K.A.**, & Liddle, P.F. (2002). No changes in P300 amplitude or latency following acute administration to the alpha-1 agonist modafinil. *Schizophrenia Research (Supplement)*, *52*, 212.
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27. Calhoun, V.D., **Kiehl, K. A.**, Liddle, P. F. & Pearlson, G. D. (2004). Aberrant localization of synchronous hemodynamic activity in auditory cortex reliably characterizes schizophrenia. *Biological Psychiatry*, *55*, 842-849. PMID: 15050866 PMCID: PMC2771440
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MANUSCRIPTS SUBMITTED FOR PUBLICATION

1. Byrd, A., Shane, M.S., Harenski, C.L. & **Kiehl, K.A.** (submitted 7/20/2013). *Impulsivity in psychopathy: Distinctions Between Response Inhibition and Cognitive Impulsivity*. Manuscript submitted for publication.
2. Pujara, M., Motzkin, J.C., Newman, J.P., **Kiehl, K.A.**, & Koenigs, M. (submitted 5/17/13). *Neural correlates of reward sensitivity in psychopathy*. Manuscript submitted for publication.
3. Philippi, C.L., Motzkin, J.C., Newman, J.P., **Kiehl, K.A.**, Koenigs, M. (submitted 11/18/13). *Altered resting-state functional connectivity within and between cortical networks in psychopathy*. Manuscript submitted for publication.
4. Harenski, C.L., Harenski, K.A. & **Kiehl, K.A.** (submitted 7/1/13). *Neural processing of moral violations in incarcerated adolescents with psychopathic traits*. Manuscript submitted for publication.
5. Steele, V.R., Claus, E.D., Aharoni, E., Vincent, G.M., Calhoun, V.D. & **Kiehl, K.A.** (7/2/13). *Neural measures of response errors predict recidivism*. Manuscript submitted for publication.
6. Harenski, C.L., Harenski, K.A. & **Kiehl, K.A.** (submitted 10/1/13). *Neuroimaging of moral and non-moral emotion in female psychopathy*. Manuscript submitted for publication.
7. Bridwell, D.A., **Kiehl, K.A.**, Pearlson, G.D., & Calhoun, V.D. (submitted 4/4/14). *Behavioral relevance and statistical regularity ERP differences in healthy controls and patients with schizophrenia*. Manuscript submitted for publication.
8. Aharoni, E., Sinnott-Armstrong, W.S., & **Kiehl, K.A.** (submitted 5/21/14). *What's wrong? Moral understanding in psychopathic offenders*. Manuscript submitted for publication.
9. Anderson, N.E., Steele, V.R., Maurer, J.M., Bernat, E.M. & **Kiehl, K.A.** (submitted 5/23/14). *Psychopathy and target detection: New insights*. Manuscript submitted for publication.
10. Walters, G.D., Ermer, E., Knight, R.A. & Kiehl, K.A. (submitted 5/22/14). *Paralimbic biomarkers in taxometric analyses of psychopathy: Does changing the indicators change the conclusion?* Manuscript submitted for publication.
11. Maurer, J.M., Steele, V.R., Edwards, B.G., Bernat, E.M., Calhoun, V.D., & Kiehl, K.A. (submitted 4/1/14). *Error-related processing in incarcerated females with elevated psychopathic traits*. Manuscript submitted for publication.
12. Reidy, D.E., Kearns, M.C., DeGue, S., Lilienfeld, S.O., Massetti, G., & Kiehl, K.A. (submitted 4/5/14). *Why psychopathic personality matters: A public health approach to violence prevention*. Manuscript submitted for publication.

13. Brieman, C.L., Kosson, D.S., Cope, L.M. & Kiehl, K.A. (submitted 3/1/14). *The moderating role of socioeconomic status on the core features of psychopathy and substance dependence*. Manuscript submitted for publication.
14. Edwards, B., Ermer, E., Salovey, P. & **Kiehl, K.A.** (submitted 5/31/14). *Emotional intelligence in incarcerated adult females with psychopathic traits*. Manuscript submitted for publication.
15. Fede, S.J., Schaich Borg, J., Nyalakanti, P.A., Cope, L.M., Harenski, C.L., Sinnott-Armstrong, W., Newman, J.P., Koenigs, M., & **Kiehl, K.A.** (submitted 6/1/14). *Distinct patterns of positive and negative moral processing in psychopathy*. Manuscript submitted for publication.
16. Anderson, N., Steele, V., Maurer, J., Bernat, E., **Kiehl, K.A.** (submitted 8/19/14). *Psychopathy, attention, and oddball target detection: New insights from PCL-R Facet Scores*. Manuscript submitted for publication.
17. Edwards, B.G., Anderson, N.E., Steele, V.R., & **Kiehl, K.A.** (submitted 8/19/14). *Psychopathy and Borderline Personality Disorder in Adult Female Offenders*. Manuscript submitted for publication.
18. Bridwell, D.A., Steele, V.R., Maurer, M.J., **Kiehl, K.A.** & Calhoun, V.D. (submitted 8/19/14). *The relationship between somatic and cognitive-affective depression symptoms and error ERPs*. Manuscript submitted for publication.
19. Edwards, B.G., Harenski, C.L., Maurer, M.J., & Kiehl, K.A. (submitted 8/19/14). *Substance use severity in adult female offenders with psychopathic traits*. Manuscript submitted for publication.
20. Decety, J., Chen, C., Harenski, C.J., & Kiehl, K.A. (submitted 8/1/14). *Contextualized socioemotional understanding in forensic psychopaths*. Manuscript submitted for publication.

BOOK CHAPTERS AND POPULAR PRESS ARTICLES

1. **Kiehl, K.A.** (2007). Without morals: The cognitive neuroscience of psychopathy. *Moral Psychology, Volume 3: The Neuroscience of Morality: Emotion, Brain Disorders, and Development*. W. Sinnott-Armstrong, Ed. Bradford Books, NY.
2. **Kiehl, K.A.** (2007). A Reply to de Oliveira-Souza, Ignácio, and Moll and Schaich Borg. *Moral Psychology, Volume 3: The Neuroscience of Morality: Emotion, Brain Disorders, and Development*. W. Sinnott-Armstrong, Ed. Bradford Books, NY.
3. Shane, M.S., & **Kiehl, K.A.** (2007). Psychopathy as a Measure of Offender Risk: An Important Component of a Comprehensive Risk Assessment Battery. In K. Knight, D. Farabee (Eds.). *Treating Addicted Offenders: A continuum of effective practices*. Vol. 2. (pp. 8.1-8.10). Civic Research Institute: NJ.
4. Shane, M.S., & **Kiehl, K.A.** (2007). Psychopathy as a Measure of Offender Risk: An Important Component of a Comprehensive Risk Assessment Battery. *Offender Substance Abuse Report*, 4, 1-12
5. Harenski, C. L., Hare, R.D., & **Kiehl, K.A.** (2010). Neuroimaging, Genetics, and Psychopathy: Implications for the legal system. *Responsibility and Psychopathy: Interfacing Law, Psychiatry and Philosophy*. L. Malatesti & J McMillan, Ed., Oxford University Press, London, UK.
6. **Kiehl, K.A.** & Buckholtz, J.W. (September/October, 2010). Inside the Mind of the Psychopath. *Scientific American Mind*, 22-29. Cover article.
7. **Kiehl, K.A.** (2010). Can neuroscience identify psychopaths? *A Judge's Guide to Neuroscience: A Concise Introduction*, 47-53. M.S. Gazzaniga and J.S. Rakoff, Eds. A publication from the MacArthur Foundation Law and Neuroscience Project.
8. Anderson, N.E. & **Kiehl, K.A.** (2013). Functional Neuroimaging and Psychopathy. K.A. Kiehl & W. Sinnott-Armstrong, Eds. *Handbook on Psychopathy and Law*, Oxford Press.
9. Gaudet, L.M., Anderson, N.E. & **Kiehl, K.A.** (in press). Neuroscience of Antisocial Behavior. M.S. Gazzaniga, Ed. *The Cognitive Neurosciences V*. Sage Press.

BOOKS

EDITED BOOKS

1. **Kiehl, K.A.**, & Sinnott-Armstrong, W. (Editors; 2013). Handbook on Psychopathy and Law, Oxford Press. New York. <http://www.amazon.com/Handbook-Psychopathy-Oxford-Neuroscience-Philosophy/dp/0199841381>
2. **Kiehl, K.A.** & Sinnott-Armstrong, W., (Editors; in prep). Handbook on Neuroscience and Law. Oxford Press.

BOOKS

1. **Kiehl, K.A.** (2014). *The Psychopath Whisperer: The science of those without conscience*. Crown Publishing, A division of Random House. Represented by literary agency Brockman, Inc., New York City (www.edge.org). <http://www.amazon.com/The-Psychopath-Whisperer-Science-Conscience/dp/077043584X>

www.psychopathwhisperer.com

SCIENTIFIC PRESENTATIONS, SYMPOSIA & INVITED LECTURES

Summary as of 6/26/14:

Over 250 total scientific presentations (10+ per year since start of graduate school)

110 of the 250 presentations invited lectures;

Over 70 invited lectures since relocating to UNM in 2007 (approximately 1 per month)

1. Kiehl, K.A. (1993, June). *The relationship between psychopathy and two psychophysiological measures of arousability*. Paper presentation at the annual research conference of the Department of Psychology, University of California, Davis. Invited speaker.
2. Levenson, M.R., Kiehl, K.A., & Fitzpatrick, C. (1993, August). *Assessing psychopathic attributes in a noninstitutionalized population*. Poster session presented at the annual meeting of the American Psychological Association, Toronto, Canada.
3. Kiehl, K.A. & Levenson, M.R. (1994, February). *Psychopathy, arousal, and sensation seeking: A psychophysiological investigation*. Poster session presented at the annual meeting of the American Association for the Advancement of Science, San Francisco.
4. Levenson, M.R. & Kiehl, K.A. (1994, April) *Personality and deviant alcohol behavior in a nonclinical sample*. Poster session presented at the annual meeting of the Western Psychological Association, Kona, Hawaii.
5. Kiehl, K.A., Mangun, G.R., & Hare, R.D. (1995, March) *Differential hemispheric processing of affective language: An ERP study*. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
6. Kiehl, K.A. & Hare, R. D. (1995, April) *Neuroimaging and its implications for understanding the psychopathic mind*. In C. Davis (Chair), *Cognitive and biological correlates of psychopathy*. Symposium conducted at the Mental Disorder and Criminal Justice Conference, Vancouver, Canada
7. Kiehl, K.A., Smith, A.M., Forster, B.B., & Hare, R.D. (1995, December). *Protocol for a functional MRI study of semantic and affective processing in psychopaths*. *Psychopathy, Theory, Research, and Implications for Society*. NATO ASI, Alvor, Portugal.
8. McDonald, J.J., Ward, L.M., Kiehl, K.A., & Richard, C.M. (1996, March) *An electrocortical analysis of inhibition of return*. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
9. Forster, B.B., MacKay, A., Whittall, K.P. Kiehl, K.A., Smith, A.M., & Hare, R.D. (1996, June). *Functional MRI: The basics of the BOLD (blood oxygen level dependent) technique*. Poster session presented at the annual meeting of Canadian Association of Radiologists, Vancouver, B.C.
10. Brink, J. H., Kolton, D.J.C., Kiehl, K.A., & Strauss, P. R. (1996, October). *Schizophrenia and psychopathy: A study of comorbidity in a Canadian forensic psychiatric population*. Paper presented at the meeting *Schizophrenia 1996; Breaking Down the Barriers* 4th International conference. Vancouver, Canada.

11. Kiehl, K. A. & Hare, R. D. (1997, March). *Abnormal processing of affective words by psychopaths: Emotional polarity discrimination*. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.
12. Smith, A.M., Mendrek, A., Kiehl, K.A., Forster, B.B., MacKay, A., & Liddle, P.F. (1997, October). *Sex differences in brain activity associated with word generation: An fMRI study*. Poster presented at the annual meeting for the Society for Neuroscience, New Orleans, Louisiana.
13. Kiehl, K.A., Smith, A.M., Forster, B.B., MacKay, A.L., Whittall, K.P., Liddle, P.F. & Hare, R.D. (1997, September) *A whole-brain multi-subject fMRI comparison of EPI spin-echo, asymmetric spin-echo and gradient-echo sequences at 1.5 T*. Paper presented at the annual meeting of the Radiological Society of North America, Chicago, IL.
14. Smith, A.M., Kiehl, K.A., & Liddle, P.F. (1998, February). *Event-related potentials during a Go/ No Go task in schizophrenia*. Poster presented at the International Winter Workshop on Schizophrenia, Davos, Switzerland.
15. Kiehl, K.A. (1998, February). *Functional imaging: Watching the working brain*. Paper presented at the University of British Columbia, Science First Lecture Series. Invited speaker.
16. Kiehl, K. A., Liddle, P. F., Smith, A. M., Mendrek, A., Forster, B.B., & Hare, R.D. (1998, April) *Neural pathways involved in the processing of concrete and abstract language*. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
17. Smith, A.M., Kiehl, K.A., Forster, B.B., Whittall, K.P., MacKay, A.L., Liddle, P.F. & Hare, R.D. (1998, April). *Whole brain EPI gradient echo fMRI: Optimizing TE to maximize signal activation and minimize susceptibility artifact in the orbitofrontal cortex*. Poster presented at the annual meeting of the International Society for Magnetic Resonance in Medicine. Sydney, Australia.
18. Kiehl, K. A., Smith, A. M., Mendrek, A., Forster, B.B., Hare, R.D., & Liddle, P. F. (1998, June) *Activation of the amygdala during an affective memory task*. Poster presented at the annual meeting of the International Society for Human Brain Mapping, Montreal, Canada.
19. Smith, A.M., Kiehl, K.A., Mendrek, A., Forster, B.B., Hare, R.D., & Liddle, P.F. (1998, June). *Whole brain fMRI of a Go/No Go task*. Poster presented at the annual meeting of the International Society for Human Brain Mapping, Montreal, Canada.
20. Kiehl, K.A., Hare, R.D., McDonald, J.J., & Liddle, P.F. (1998, September). *Event-related potential investigation of semantic processing in criminal psychopaths*. Poster presented at the annual meeting of the Society of Psychophysiological Research, Denver, Colorado.

21. Kiehl, K.A., Laurens, K.R. & Liddle, P.F. (1998, April). *Reading anomalous sentences: An event-related fMRI study of semantic processing*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Washington D.C.
22. Liddle, P.F., Mendrek, A., Kiehl, K.A., Smith, A.S., & Duty, T. (1999, April). *Fronto-temporal coordination in schizophrenia*. Paper presented at the International Congress on Schizophrenia, Santa Fe, New Mexico.
23. Liddle, P.F., Smith, A.S., Kiehl, K.A., Mendrek, A., & Hare, R.D., (1999, April). *Response inhibition in schizophrenia & psychopathy: Similarities & differences*. Poster presented at the International Congress on Schizophrenia, Santa Fe, New Mexico.
24. Kiehl, K.A., Liddle, P.F., & Hopfinger, J.B. (1999, July). *Error processing and the rostral anterior cingulate: An event-related fMRI study*. Paper presented at ICON: 7th International Conference on Cognitive Neuroscience. Budapest, Hungary. Invited speaker.
25. Smith, A.S., Liddle, P.F., Kiehl, K.A., Mendrek, A., Forster, B.B., & Hare, R.D. (1999, July). *Neural mechanisms of inhibitory processing in psychopathy and schizophrenia during a Go/No go task using fMRI*. Poster presented at the annual meeting of the European Association of Psychology and Law Conference, Dublin, Ireland.
26. Kiehl, K.A., Forster, B.B., & Liddle, P.F. (1999, October). *Abnormal semantic activation in schizophrenia as revealed by event-related fMRI*. Poster presented at the annual meeting for the Society for Neuroscience, Miami, Florida.
27. Mendrek, A., Kiehl, K.A., Smith, A.S., Duty, T., Forster, B.B., & Liddle, P.F. (1999, October). *Abnormal coordination of cerebral activity during a working memory task in schizophrenia: An fMRI study*. Poster presented at the annual meeting for the Society for Neuroscience, Miami, Florida.
28. Laurens, K.R., Kiehl, K.A., Schwarz, D. W. F., Forster, B.B., & Liddle, P.F. (1999, October). *A whole-brain event-related fMRI study of an auditory oddball task in schizophrenia*. Poster presented at the Annual meeting of the Society for Neuroscience, Miami, Florida.
29. Liddle, P. F. & Kiehl, K.A. (1999, October). *fMRI of an auditory oddball task in schizophrenia*. Paper presented at the ISBET annual meeting, Adelaide, Australia.
30. Kiehl, K.A., Liddle, P.F., & Hopfinger, J.B. (2000, April). *Error processing and the rostral anterior cingulate: An event-related fMRI study*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
31. Vouloumanos, A., Kiehl, K.A., Werker, J.F., & Liddle, P.F. (2000, April). *Neurological bases of speech and non-speech processing: An event-related functional magnetic resonance imaging study*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, California.

32. Mendrek, A., Kiehl, K.A., Forster, B.B., & Liddle, P.F. (2000, April). *Encoding and retrieval of affective words: An fMRI study*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
33. Mendrek, A., Laurens, K.R., Kiehl, K.A., Ngan, E., Stip, E., & Liddle, P.F. (June, 2000). *An fMRI investigation of cerebral state and trait markers of schizophrenia*. Poster presented at the annual meeting of the International Society for Human Brain Mapping, San Antonio, Texas.
34. Kiehl, K. A., Smith, A.M., Hare, R.D., Mendrek, A., Forster, B.B., Brink, J., & Liddle, P.F. (June, 2000). *Limbic abnormalities in affective processing by criminal psychopaths as revealed by fMRI*. Poster presented at the annual meeting of the International Society for Human Brain Mapping, San Antonio, Texas.
35. Kiehl, K.A. (2000, September). *Electrophysiological and hemodynamic evidence of fronto-temporal abnormalities in psychopathic offenders*. Paper presented at the Executive Control, Errors, and the Brain meeting. Jena, Germany. Organizers Wolfgang H. R. Miltner and Michael Coles. Invited speaker.
36. Kiehl, K.A., Liddle, P.F., & Hopfinger, J.B. (2000, September). *Error processing and the rostral anterior cingulate: An event-related fMRI study*. Poster presented at the Executive Control, Errors, and the Brain meeting. Jena, Germany. Organizers Wolfgang H. R. Miltner and Michael Coles.
37. Kiehl, K.A., Bates, A.T., Laurens, K.R., Hare, R.D., Forster, B.B., & Liddle, P.F. (October, 2000). *Electrophysiological and hemodynamic evidence for fronto-temporal abnormalities in psychopathic offenders*. Poster presented at the annual meeting of the Society for Psychophysiological Research, San Diego, California.
38. Bates, A.T., Kiehl, K.A., & Liddle, P.F. (October, 2000). *Abnormal error-related negativity in schizophrenia: An event-related potential study*. Poster presented at the annual meeting of the Society for Psychophysiological Research, San Diego, California.
39. Kiehl, K.A. (January, 2001). *The psychopath electrified: Brain potentials reflect fronto-temporal abnormalities in psychopathic offenders*. Invited address given to the faculty at the Western Psychiatric Clinic, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania.
40. Kiehl, K.A., Laurens, K.R., Mendrek, A., & Liddle, P.F. (April, 2001). *Improved hemodynamic activity in first episode psychotic patients with atypical neuroleptic treatment: A six week test-retest event-related fMRI study*. Poster presented at the International Congress on Schizophrenia, Whistler, British Columbia, Canada.
41. Bates, A.T., Kiehl, K.A., & Liddle, P.F. (April, 2001). *Error-related negativity in schizophrenia and its relation to symptom profiles: An event-related potential study*. Poster presented at the International Congress on Schizophrenia, Whistler, British Columbia, Canada.

42. Mendrek, A., Laurens, K.R., Kiehl, K.A., Ngan, E., Stip, E., & Liddle, P.F. (April, 2001). *New insights into prefrontal function in schizophrenia*. Poster presented at the International Congress on Schizophrenia, Whistler, British Columbia, Canada.
43. Kiehl, K.A. Laurens, K.R., Mendrek, A., & Liddle, P.F. (June, 2001). *Improved hemodynamic activity in first-episode psychotic patients with atypical neuroleptic treatment: A six-week test-retest event-related fMRI study*. Poster presented at the annual meeting of the Organization for Human Brain Mapping. Brighton, U.K.
44. Laurens, K.R. Kiehl, K.A., Smith, A., Bates, A., Forster, B.B., & Liddle, P.F. (June, 2001). *Abnormal response inhibition in criminal psychopaths: Evidence from event-related fMRI*. Poster presented at the annual meeting of the Organization for Human Brain Mapping. Brighton, U.K.
45. Kiehl, K.A. (September, 2001). *The clinical utility of functional MRI: From presurgical mapping to diagnosing psychiatric illnesses*. Invited lecture, New England Technologists Association Annual Conference.
46. Kiehl, K.A. (September, 2001). *The psychopath electrified, then magnetized: ERP and fMRI evidence for fronto-temporal abnormalities in criminal psychopaths*. Invited lecture, Yale University School of Medicine, fMRI talk series.
47. Kiehl, K.A. (December, 2001). *Delineating neural signatures in psychotic illnesses using functional brain imaging: Implications for diagnosis, treatment, and prevention*. Grand Rounds lecture for the Department of Psychiatry at the Institute of Living Psychiatry.
49. Kiehl, K.A. (December, 2001). *The psychopath electrified, then magnetized: ERP and fMRI evidence for fronto-temporal abnormalities in criminal psychopaths*. Invited lecture, Nathan Kline Institute, Orangeburg, New York.
50. Kiehl, K.A. (April, 2002). *The psychopath electrified, then magnetized: ERP and fMRI evidence for fronto-temporal abnormalities in criminal psychopaths*. Invited lecture, Dartmouth College.
51. Kiehl, K.A. (October, 2002). *The psychopath electrified, then magnetized: ERP and fMRI evidence for fronto-temporal abnormalities in criminal psychopaths*. Invited lecture, University of California, Davis.
52. Kiehl, K.A. (December, 2002). *Deconstructing psychopathy: Assessment, treatment, recidivism, and neurobiology*. Invited lecture, Department of Criminology, University of Pennsylvania.
53. Kiehl, K.A. (December, 2002). *A cognitive neuroscience perspective on criminal psychopathy: Neuroimaging evidence for temporal-limbic brain abnormalities*. Invited lecture, Center for Cognitive Neuroscience, University of Pennsylvania.
54. Kiehl, K.A. (January, 2003). *The oddball task magnetized: fMRI studies in health and psychopathology*. Invited lecture, New York Psychiatric Institute, Columbia University.

55. Stevens, M.C., Laurens, K.R., Liddle, P.F., & Kiehl, K.A. (2003, March). *New brain imaging findings from a random-effects analysis of 100 participants using a three-stimulus auditory oddball task*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
56. Celone, K., Laurens, K.R., Liddle, P.F., & Kiehl, K.A. (2003, March). *Negative picture processing: Engagement of the temporal-limbic system and beyond*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
57. O'Keefe, T.O., Liddle, P.F., & Kiehl, K.A. (2003, March). *Neural sources underlying emotional lexical decision*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
58. Calhoun V. D., Kiehl, K. A., Liddle, P. F., & Pearlson, G. D. (2003, March). *Aberrant Localization of synchronous fMRI activity in temporal auditory cortex reliably characterizes schizophrenia*. Proceedings from the International Congress on Schizophrenia Research, Colorado Springs, CO.
59. Kiehl, K.A., Stevens, M.C., Laurens, K.R., Pearlson, G.D., & Liddle, P.F. (2003, June). *The missing stimulus: An event-related fMRI study of a 'gap' detection oddball task*. Poster presented at the annual meeting of the Society for Human Brain Mapping, New York, NY.
60. Laurens, K.R., Kiehl, K.A., Ngan, E.T.C., Mendrek, A., Stip, E., & Liddle, P.F. (2003, June). *Dysfunction in a supramodal network supporting attention to salient stimuli in schizophrenia: Evidence from event-related fMRI of novelty processing*. Poster presented at the annual meeting of the Society for Human Brain Mapping, New York, NY.
61. Stevens, M.C., Laurens, K.R., Liddle, P.F., Pearlson, G.D., & Kiehl, K.A. (2003, June). *Hemodynamics of oddball processing during single, two-, and three-tone target detection tasks*. Poster presented at the annual meeting of the Society for Human Brain Mapping, New York, NY.
62. Stevens, M.C., Laurens, K.R., Liddle, P.F., Calhoun, V.C., Pearlson, G.D., & Kiehl, K.A. (2003, July). *Independent component analyses of fMRI auditory oddball task reveals paralimbic abnormalities in psychopaths*. Developmental and Neuroscience Perspectives on Psychopathy, Madison, WI.
63. Kiehl, K.A. (2003, July). *The paralimbic hypothesis of psychopathy: Evidence from multimodal neuroimaging*. Invited Lecture - Developmental and Neuroscience Perspectives on Psychopathy, Madison, WI.
64. Kiehl, K. A., Laurens, K. R., Celone, K., Pearlson, G. P., & Liddle, P.F. (2003, October). *Abnormal affective picture processing in criminal psychopaths: Evidence supporting the paralimbic dysfunction hypothesis*. Poster presented at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
65. Liddle, P. F., Mendrek, A., Laurens, K. R., Kiehl, K. A., & Ngan, E. T. C. (2004, February). *An fMRI study of state-dependent abnormalities of frontal lobe function*

during working memory in schizophrenia. Poster to be presented at the International Congress on Schizophrenia, Davos, Switzerland.

66. Bates, A. T., Kiehl, K. A., Laurens, K. R., Ngan, E. T. C. & Liddle, P. F. (2004, February). *Inefficient coordination of slow oscillations in schizophrenia.* Poster presented at the International Congress on Schizophrenia, Davos, Switzerland.
67. Maltby, N., Worhunsky, P., Kiehl, K. A., & Tolin, D. F. (2004, March). *Hyperactive error processing in Obsessive Compulsive Disorder.* Paper presented to the Annual Meeting of the Anxiety Disorders Association of America, Miami, FL.
68. Maltby, N., Worhunsky, P., Kiehl, K., & Tolin, D.F. (2004, March). *Is Dysfunctional Action Monitoring Functionally Related to Obsessive Compulsive Disorder: an fMRI Study.* Presented to the Annual Meeting of the Anxiety Disorders Association of America, Miami
69. Aikens, D. E., O'Keefe, T., Anticevic, A., & Kiehl, K. A. (2004, April). *Implicit associative learning for affective materials.* Poster presented at the Annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
70. Kiehl, K.A., Stevens, M.C., Laurens, K.R., Pearlson, G.P., & Liddle, P. F. (2004, April). *An adaptive reflexive processing model of neurocognitive function.* Poster presented at the Annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
71. Kiehl, K.A. (April, 2004). *The cognitive neuroscience of psychopathic personality disorder: Evidence for paralimbic dysfunction.* Invited lecture. Department of Psychology, University of California, Santa Barbara.
72. Kiehl, K.A. (April, 2004). *The cognitive neuroscience of criminal psychopaths: Evidence for paralimbic dysfunction.* Invited lecture. Department of Psychology, University of Toronto.
73. Kiehl, K.A., Stevens, M.C., Celone, K., Kurtz, M.M., & Pearlson, G.D. (2004, April). *fMRI of auditory oddball processing in schizophrenia II: Replication and extension.* Poster presented at the annual meeting of the Society for Biological Psychiatry, New York, NY.
74. Hejnar, M.P., Kurtz, M.M., Calhoun, V.D., Kiehl, K.A., & Pearlson, G.D. (2004, April). *Performance on the Penn Conditional Exclusion Task (PCET) in patients with schizophrenia (SZ) and healthy controls: An fMRI study.* Poster presented at the annual meeting of the Society for Biological Psychiatry, New York, NY.
75. Egolf, E., Kiehl, K.A., & Calhoun, V.D. (2004, April). *GIFT.* Poster presented at the annual meeting of the Society for Biological Psychiatry, New York, NY.
76. Stevens, M.C, Celone, K., Kurtz, M.M., Pearlson, G.D., & Kiehl, K.A. (2004, May). *fMRI of oddball processing in schizophrenia: Support for the disconnection hypothesis.* Poster to be presented at the annual meeting of the American Psychiatric Association, New York, NY.

77. Kiehl, K.A., Stevens, M.C, Celone, K., Ortengren, A., & Pearlson, G.D. (2004, May). *fMRI of oddball processing in bipolar illness*. Poster presented at the annual meeting of the American Psychiatric Association, New York, NY.
78. Maltby, N., Worhunsky, P., Kiehl, K. A., & Tolin, D. F. (2004, May). *Hyperactive error processing in Obsessive Compulsive Disorder*. Paper presented to the annual meeting of the American Psychiatric Association, New York, NY.
79. Kiehl, K.A. (2004, May). *Without morals: The cognitive neuroscience of criminal psychopaths*. Paper presented at The Psychology and Biology of Morality Conference, Dartmouth College, Hanover, NH (invited speaker).
80. Kiehl, K.A. (2004, August). *Focal hemodynamic measures of the P3a and P3b event-related potentials*. Symposium paper presented at the Biomag Annual meeting. Boston, MA.
81. Kiehl, K.A. (2004, September). *What has hemodynamic imaging of oddball target detection taught us about how the brain works?* Paper presented at the symposium 'The P300: Past and Present' at the ECNS and ISNIP joint meeting. Irvine, CA. (Organizer and chair).
82. Kiehl, K.A. (2004, September). *Functional MRI – An introduction*. Educational course presented at the ECNS and ISNIP joint meeting. Irvine, CA.
83. Kiehl, K.A. (2004, October). *The psychopath electrified: Brain potentials implicate paralimbic abnormalities*. Early Career Award Address presented at the ECNS and ISNIP joint meeting. Irvine, CA.
84. Kiehl, K.A. & Liddle, P.F. (2004, October). *Electrophysiological evidence for paralimbic abnormalities in psychopathic offenders*. Poster presented at the annual meeting of the Society for Psychophysiological Research. Santa Fe, New Mexico.
85. Maltby, N., Worhunsky, P., Kiehl, K.A., & Tolin, D.F. (2004, November). *Compulsive hoarding: The neurobiological perspective*. In T.L. Hartl (Chair), *Compulsive hoarding: Recent advances in research and important clinical considerations*. Presented to the Annual Meeting of the Association for Advancement of Behavior Therapy, New Orleans.
86. Kiehl, K.A. (2004, December). *Deconstructing Psychopathy: Assessment, Treatment, Recidivism, and Neurobiology*. Invited Lecture, NIDA Special Emphasis Panel: Developing Efficacious Behavioral Therapies for Criminal Justice Involved Populations, Gaithersburg, MD.
87. Kiehl, K.A. (2004, December). *Brain potentials in cetaceans - can they illuminate language processes?* Educational lecture given the staff and researchers at Mystic Aquarium, Mystic, CT. Invited speaker.
88. Kiehl, K.A. (2004, December). *Paralimbic system dysfunction model of psychopathic personality: Evidence from ERPs and fMRI*. Guest lecture at the Massachusetts General Hospital Brain Mapping Lecture Series. Boston, MA. Invited speaker.

89. Kiehl, K.A. (2005, January). *Word of the day: Cetaceans (it mean's dolphins and whales)*. Guest lecture at Bay Laurel Elementary School, Calabasas, CA. Invited speaker.
90. Kiehl, K.A. (2005, January). *Hemodynamic measures of oddball responses*. Forty Years of P300 meeting hosted by Manny Donchin (Carmel, 2005). University of South Florida, St. Petersburg, FL. Invited speaker.
91. Kiehl, K.A. (2005, February). *Paralimbic dysfunction in criminal psychopaths: Evidence from ERP and fMRI studies*. Invited lecture, NIDA Intramural Program, Bethesda, MD.
92. Maltby, N., Worhunsky, P., Kiehl, K.A., & Tolin, D.F. (2005, May). *Dysfunctional action monitoring: Specificity to obsessive compulsive disorder*. Poster presented to Annual Meeting of the Society of Biological Psychiatry, Atlanta, Georgia.
93. Maltby, N., Worhunsky, P., Kiehl, K.A., & Tolin, D.F. (2005, May). *Dismantling the neural systems of Obsessive-Compulsive Disorder: A symptom provocation fMRI study of compulsive hoarding*. Poster presented to Annual Meeting of the Society of Biological Psychiatry, Atlanta, Georgia.
94. Kiehl, K.A. (2005, May). *Psychopathy: Assessment, substance abuse, treatment, and neurobiology*. Invited lecture, Department of Psychiatry, University of California, Los Angeles.
95. Kiehl, K.A. (2005, May). *ERP and fMRI studies in psychopathy: Evidence of paralimbic dysfunction*. Invited lecture by the Department of Neuroscience, University of California, Los Angeles.
96. Kiehl, K.A. (2005, July). *A paralimbic dysfunction model of psychopathy*. Invited lecture by the Department of Psychology, University of British Columbia, Vancouver, British Columbia, Canada.
97. Kiehl, K.A. (2005, July). *Brain potentials and fMRI suggest paralimbic abnormalities in orienting processes in adolescent and adult psychopathy*. Symposium lecture "The Cognitive Neuroscience of Psychopathy" Chair Kiehl, K.A., Paper given at the Biannual meeting of the Society for the Scientific Study of Psychopathy, Vancouver, British Columbia, Canada.
98. Kiehl, K.A. (2005, September). *P300 from the perspective of fMRI*. Symposium lecture "40 Years of the P300: A tribute" Chair Donchin, E. Paper giving at the Annual meeting of the Society for Psychophysiological Research, Lisbon, Portugal.
99. Kiehl, K.A. (2005, September). *A paralimbic dysfunction model of psychopathy*. Award address for Distinguished Early Career Contributions to Psychophysiology. Paper given at the Annual meeting of the Society for Psychophysiological Research, Lisbon, Portugal.
100. Kiehl, K.A. (2005, September). *The killer whale electrified: Can brain potentials indicate language processing in cetaceans?* Paper given to the public and staff at Mystic Aquarium, Mystic, CT.

101. Kiehl, K.A. (2005, October). *The cognitive neuroscience of psychopathic personality: Evidence for paralimbic dysfunction*. Paper given to the Department of Psychology, University of Connecticut – Storrs, Connecticut.
102. Kiehl, K.A. (2006, January). *The Hemodynamics of the Oddball Paradigm*. Paper given at the annual Carmel meeting on the Basis of the P300. Hosted by Emmanuel Donchin, St. Petersburg, Florida.
103. Kiehl, K.A. (2006, January). *Neuroscientific assessment of 'Callous' Conduct Disordered Youth*. Paper given to the Director and Staff of the Miami Dade County Juvenile Assessment Center (JAC). Miami.
104. Kiehl, K.A., (2006, February). *The cognitive neuroscience of psychopathic personality: Evidence for paralimbic dysfunction*. Invited lecture, Department of Psychology, University of California – San Diego. La Jolla, California.
105. Kiehl, K.A. (2006, February). *The hemodynamics of the P300*. Invited lecture, Scripps Research Institute, La Jolla, California.
106. Kiehl, K.A., (2006, February). *Aberrant connectivity in schizophrenia: Is it diagnostic?* Paper presented at the Annual Winter Conference on Brain Research. Steamboat Springs, CO. Invited lecture.
107. Maltby, N., Worhunsky, P., Kiehl, K. A., & Tolin, D. F. (2006, March). *Dismantling the neural systems of obsessive-compulsive disorder: A symptom provocation fMRI study of compulsive hoarding*. In K. Cromer (Chair), Elucidating the Relationship Between Hoarding Symptoms and Stressful Life Events. Symposium presented to the Annual Meeting of the Anxiety Disorders Association of America, Atlanta.
108. Kiehl, K.A. (2006, March). *The cognitive neuroscience of psychopathic personality: Evidence for paralimbic dysfunction*. MIND Institute, Albuquerque, NM.
109. Kiehl, K.A. (2006, March). *Psycholinguistics in Psychopathic Personality: Decoding troubled processing*. Lecture presented to the Department of Psychology, University of Connecticut – Storrs. Storrs, CT. Invited Lecture.
110. Maltby, N., Tolin, D.F., & Kiehl, K.A. (2006, May). *Compulsive hoarding: Is there evidence for dysfunctional error processing*. Presented to the Annual Meeting of the Society of Biological Psychiatry, Toronto.
111. Anticevic, A., Aikins, D.E., & Kiehl, K.A. (2006, April). *Modulation of Brain Activity by Signaling Pictorial Valence*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
112. Schaich Borg, J., Lieberman, D. & Kiehl, K.A. (2006, April). *Moral, Sexual, and Pathogen Disgust – Distinct or Common Neural Networks?* Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

113. Schaich Borg, J. Sinnott-Armstrong, W. & Kiehl, K.A. (2006, April). *How we decide something is morally wrong: An fMRI study of moral judgment.* Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
114. Kiehl, K.A. (2006, April). *Update on the cognitive neuroscience of psychopathy.* Neuroscience Grand Rounds, Institute of Living, Hartford, CT.
115. Kiehl, K.A. (2006, April). *The cognitive neuroscience of psychopathic personality: Evidence for paralimbic dysfunction.* Department of Psychology, University of New Mexico, Albuquerque, NM. Invited lecture.
116. Stevens, M.C., Kiehl, K.A., Pearlson, G.D., Calhoun, V.D. (2006, June). *Functional neural circuits for mental timekeeping.* Poster presented at the annual meeting of the society for Human Brain Mapping, Florence, Italy.
117. Kiehl, K.A., (2006, June). *Designing fMRI studies for clinical populations.* Lecture provided during the Special Education Symposium, annual meeting of the society for Human Brain Mapping, Florence, Italy. Invited lecture.
118. Kiehl, K.A. (2006, September). *Integrating Neuroscience and Basic Research in Drug Courts: The Construct of Psychopathy.* National Institute on Drug Abuse: Drug Courts and Other Problem- Solving Courts: State of the Science – Special Emphasis Panel, Bethesda, MD. Invited lecture.
119. Kiehl, K.A. (2006, September). *Aberrant emotional word processing in psychopathy.* Paper presented in the symposium Emotional Processing in Psychopathy, Chair Verschuere, B. at the Annual Meeting of the Society for Psychophysiological Research, Vancouver, B.C., Canada.
120. Shane, M.S., Stevens, M.C., & Kiehl, K.A. (2006, September). *An fMRI Investigation of the Neural Response to Another's Errors.* Poster presented at the annual meeting of the Society for Psychophysiological Research, Vancouver, B.C.
121. Most, S.B., Chun, M.M., Johnson, M.R., Kiehl, K.A. (2006, November). *Attentional modulation of the amygdala varies with personality.* Poster presented at the annual meeting of the Psychonomic Society. Dallas, TX.
122. Kiehl, K.A. (2006, November). *Program in Forensic Psychology at The MIND Institute.* Lecture offered to the MIND Institute Board of Director's meeting. Albuquerque, NM. Invited lecture.
123. Kiehl, K. A., (2006, December). *The cognitive neuroscience of people who do bad things: A story of paralimbic dysfunction in psychopathic personality.* Lecture to the Department of Psychology, Stony Brook University, Stony Brook, NY. Invited lecture.
124. Kiehl, K.A. (2006, December). *Success and Barriers to Brain Imaging with Prisoners Populations.* Symposium on Research With Prisoners: Ethics and Opportunities, W. Compton, Chair (NIDA organizer). Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Hollywood, FL. Invited lecture.

125. Mathalon, D.H., Kiehl, K.A., Calhoun, V.D., McGlashan, T.H. Pearlson, G D., Woods, S.W. (2006, December). *Abnormal fronto-temporal cortical activation during fMRI attention and working memory tasks in prodromal and early illness patients with schizophrenia*. Poster presented at the Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL.
126. Shane, M.S., Harenski, C.L., Stevens, M.C., & Kiehl, K.A. (2007, January) *This hurts me as much as it hurts you: Empathic concern and the observation of another's errors*. Memphis, TN
127. Kiehl, K.A. (2007, February). *The cognitive neuroscience of people who do bad things: A story of paralimbic dysfunction in psychopathic personality*. In symposium: What Are the Sociobiological Bases for Aggression? Buchesbaum, M. organizer. Annual meeting of the American Neuropsychiatric Association. Tucson, AZ.
128. Harenski, CL, Antonenko, O, Shane, MS, & Kiehl, KA (2007, April). *Neural correlates of explicit moral appraisals: an fMRI study*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY
129. Byrd, A.L., Shane, M.S., Book, G., Kahn, R.E., Antonenko, O., & Kiehl, K.A. (2007, April). *Response inhibition as a protective factor against incarceration in those high and low in psychopathic traits*. Poster presented at the annual meeting of the Society for the Scientific Study of Psychopathy. St. Petersburg, FL.
130. Shane, M.S., Harenski, C.L., & Kiehl, K.A. (2007, April). *Why should I care what happens to you? fMRI evidence for reduced empathic concern associated with subclinical psychopathy*. Paper offered in the symposium: Psychopathy, Emotion, and Emotion Regulation; Chair: Kosson, D. Presented at the annual meeting of the Society for the Scientific Study of Psychopathy. St. Petersburg, FL.
131. Antonenko, O., Shane, M.S., Harenski, C.L., Kahn, R., Byrd, A., & Kiehl, K.A. (April, 2007). *The PCL-R and self-report Scales in a substance abusing sample*. Poster presented at the annual meeting of the Society for the Scientific Study of Psychopathy. St. Petersburg, FL.
132. Kahn, R. E., Shane, M., Antonenko, O., Bell, E., Byrd, A. L., & Kiehl, K. A. (2007, April). *Gender differences in the expression of psychopathic traits*. Poster presented at the 2nd Biennial Society for the Scientific Study of Psychopathy Conference, St. Petersburg, FL
133. Harenski, CL, Antonenko, O, Shane, MS, & Kiehl, KA (2007, April). *Psychopathic personality traits predict neural and behavioral responses to visually depicted moral violations*. Poster presented at the annual meeting of the Society for the Scientific Study of Psychopathy, St. Petersburg, FL.
134. Shane, M.S., Harenski, C.S., Stevens, M.C., & Kiehl, K.A. (2007, April). *Reduced cingulate and medialfrontal activity in psychopathy during the viewing of another person making a mistake*. Poster presented at the annual meeting of the Society for the Scientific Study of Psychopathy, St. Petersburg, FL.

135. Shane, M.S., Harenski, C.L., Stevens, M.C., & Kiehl, K.A. (2007, April). *Neural response to success-related and error-related feedback within a time-estimation task*. Poster presented at the 14th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA, USA.
136. Schaich Borg, J., Sinnott-Armstrong, W., & Kiehl, K.A. (2007, May). *How we decide something is morally wrong: An fMRI study*. Poster presented at the annual meeting of the Society for Cognitive Neuroscience, New York, NY.
137. Harenski, CL, Antonenko, O, Shane, MS, & Kiehl, KA (2007, June). *Gender differences in mechanisms underlying moral judgments*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL
138. Kiehl, K.A. (2007, September). *Psychopathic personality: How important is the construct for the legal system*. Paper for the Women's Lawyer's Association of San Luis Obispo County. Invited lecture.
139. Kiehl, K.A. (2007, September). *Psychopathy: Legal implications and neuroscience*. Inaugural meeting of the MacArthur Foundation Network on Law and Neuroscience. Invited speaker.
140. Kiehl, K.A. (2007, September). *The cognitive neuroscience of youth and adult psychopathic personality: Evidence for paralimbic abnormalities*. Grand rounds, Department of Psychiatry, Medical College of South Carolina, Charleston, SC. Invited speaker.
141. Kiehl, K.A. (2007, September). *The relevance of the assessment of psychopathy for forensic populations*. Paper presented at the 25th Annual Meeting of the New Mexico Criminal Justice Association. Invited speaker.
142. Shane, M.S., Harenski, C.L., Stevens, M.C., & Kiehl, K.A. (2007, October). *Self-report and fMRI evidence of reduced empathy, but intact perspective-taking, associated with psychopathic traits*. Poster presented at the Annual Meeting of the Society for Physiological Research.
143. Chakroff, A.G., Harenski, C.L., Shane, M.S., & Kiehl, K. A. (2007, November). *Subliminal emotion perception is modulated by psychopathic traits: An ERP study*. Poster presented at the annual meeting of the Society for Neuroscience. San Diego, CA.
144. Kiehl, K.A. (2007, November). *The cognitive neuroscience of psychopathic personality: Evidence for paralimbic disturbances*. Grand Rounds in the Department of Psychiatry, University of New Mexico, Albuquerque, NM. Invited speaker.
145. Kiehl, K.A. (2007, November). *The cognitive neuroscience of people who do bad things: A story of paralimbic dysfunction in psychopathic personality*. Grand Rounds in the Department of Psychiatry, University of Massachusetts Medical School, Worcester, MA. Invited speaker.

146. Kiehl, K.A. (2007, November). *Brain imaging in psychopathy*. Lecture offered to the Center for Mental Health Services Research. University of Massachusetts Medical School, Worcester, MA. Invited speaker.
147. Kiehl, K.A. (2008, January). *The functional neuroanatomy of psychopathic personality*. Grand Rounds in the Department of Neurology, University of New Mexico, Albuquerque, NM. Invited speaker.
148. Byrd, A. L., Shane, M., & Kiehl, K. A. (2008, February). *Neural activity during successful response inhibition in substance abusers and psychopaths*. Poster presented at the annual meeting of the Society for Social and Personality Psychology, Albuquerque, NM.
149. Antonenko, O., Harenski, C. L., & Kiehl, K. A. (2008, February). *Investigating the association between empathy and moral decision making: An fMRI study*. Poster presented at the 9th annual Society for Personality and Social Psychology meeting. Albuquerque, NM.
150. Kiehl, K.A. (2008, March). *The relevance of the assessment of psychopathy for forensic populations*. Lecture for the New Mexico Psychology Association. Invited speaker.
151. Kiehl, K.A., (2008, March). *Psychopathic personality: How important is the construct for the legal system?* Lecture for the New Mexico Rotary Club. Albuquerque, NM. Invited speaker.
152. Kiehl, K.A. (2008, April). *How to go to prison? The making of a forensic psychologist*. Keynote lecture for Department of Psychology Research Day, University of New Mexico, Albuquerque, NM. Invited speaker.
153. Shane, M. S., Byrd, A. L., Harenski, C. L., & Kiehl, K. A. (2008, April). *Unique neural recruitment during successful response inhibition associated with substance abuse and psychopathy*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
154. Kahn, R.E., Hansberry, H., Harenski, C., Shane, M. & Kiehl, K. A. (2008, May). *Improving the emotional profile of a psychopathy: The relationship between psychopathy and emotional intelligence*. Poster presented at the 20th Annual Convention Association for Psychological Science Conference, Chicago, IL.
155. Kiehl, K.A., (2008, May). *Paralimbic abnormalities in incarcerated youth and adults with psychopathic traits*. Psychopathology and Addiction among Criminal Justice Populations: New Directions. Chairs: Wilson Compton and Joseph Frascella, NIDA. American Psychiatric Association, Washington DC, USA. Invited speaker.
156. Kiehl, K.A. (2008, May). *Aberrant neural processing during decision-making in criminal psychopathy and substance abuse*. In symposium, Brain Substrates of impaired Error Detection, Moral Judgment and Agency As Core Deficits in Substance Abuse. Steve Grant, NIDA, Chair. American Psychiatric Association, Washington DC, USA. Invited speaker.

157. Harenski, CL, Harenski, KA, Shane, MS, & Kiehl, KA (2008, May). *Neural correlates of moral sensitivity in an adult incarcerated population*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA
158. Kahn, R.E., Hansberry, H., Harenski, C., Shane, M. & Kiehl, K.A. (2008, May). *Improving the Emotional Profile of a Psychopath: The Relationship between Psychopathy and Emotional Intelligence*. Poster presented at the 20th Annual Association for Psychological Science Conference, Chicago, IL.
159. Kiehl, K.A. (2008, July). *The criminal psychopath magnetized: Brain imaging evidence for paralimbic abnormalities*. Lecture for Department of Radiology, Washington University, St. Louis. Invited speaker.
160. Kiehl, K.A. (2008, September). *Psychopathy: Implications for the legal system*. In Neuroscience for Judges Seminar, Speaker series sponsored by the MacArthur Foundation Law and Neuroscience Network and the Gruter Institute, Minary Center, Dartmouth College, NH. Invited speaker.
161. Kiehl, K.A. (2008, September). *Brain Imaging and the Criminal Psychopath: Assessment, Recidivism, and Neurobiology*. Lecture for the Vanderbilt Law School, Nashville, TN. Invited speaker.
162. Kiehl, K.A. (2008, October). *The Criminal Psychopath: Assessment, Recidivism, and Neuroscience*. Lecture for Science Writers of North America, Hosted by Stanford University. Invited speaker.
163. Kiehl, K.A. (2008, October). *The Criminal Psychopath: Assessment, Recidivism, and Neuroscience*. PAL lecture for Department of Psychology, University of New Mexico.
164. Cope, L.M., Shane, M.S., Nyalakanti, P.K., & Kiehl, K.A. (2008, November). *Structural analysis of psychopathic personality: A voxel-based morphometry study*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
165. Clark, V.P., Beatty, G.K., Anderson, R., Kodituwakku, P., Phillips, J., Kiehl, K.A., Calhoun, V.D. (2008, November). *fMRI activity in cingulate and insular cortex predicts relapse in recovering stimulant addicts*. Oral presentation at the annual meeting of the Society for Neuroscience, Washington, D.C.
166. Shane, M.S., Harenski, C.L., Stevens, M.C., & Kiehl, K.A. (2008, November). *Attenuated recruitment in psychopaths and substance abusers during the performance and observation of errors*. Poster presented at the Annual Meeting of the Society for Neuroscience. Washington, DC, USA.
167. Kiehl, K.A. (2008, November). *The Criminal Psychopath: Assessment, Recidivism, and Neuroscience*. Lecture for Gruter Judicial Education Conference, Riverside, CA. Invited speaker.

168. Kiehl, K.A. (2009, February). *Psychopathy, Violence, and Brain*. Lecture for EPFL Latsis Symposium 2009: Brain Mechanisms of Violence, Lausanne, Switzerland. Invited speaker.
169. Kiehl, K.A. (2009, February). *The criminal psychopath magnetized: Brain imaging reveals paralimbic abnormalities*. Lecture for Lake Ontario Visionary Establishment, Niagara Falls. Invited speaker.
170. Kiehl, K.A. (2009, February). *The Criminal Psychopath: Assessment, Recidivism, and Neuroscience*. Lecture for The 2009 Stanford Technology Law Review Symposium- Neuroscience and the Courts: The Implications of Advances in Neurotechnology, Stanford, CA. Invited speaker.
171. Kiehl, K.A. (2009, March). *Psychopathy, Risk Assessment, Treatment, and Neuroscience*. Lecture for Law & Neuroscience for Federal Judges, Sponsored by the Gruter Institute for Law and Behavioral Sciences and the Federal Judicial Center, New York, NY. Invited speaker.
172. Kahn, R.E., & Kiehl, K.A. (2009, April). *The Relationship Between Psychopathy and Emotional Intelligence in Incarcerated Youth*. Poster presented at the 3rd Biennial Society for the Scientific Study of Psychopathy Conference (SSSP), New Orleans, LA.
173. Harenski, CL, Harenski, KA, Shane, MS, & Kiehl, KA (April, 2009). *Neurobehavioral correlates of moral sensitivity in adult and adolescent psychopathy*. Paper presented at the annual meeting of the Society for the Scientific Study of Psychopathy (SSSP), New Orleans, LA.
174. Kiehl, K.A. (2009, April). *Brain Abnormalities in Incarcerated Youth with Psychopathic Traits*. Lecture for Society for Scientific Study of Psychopathy (SSSP), New Orleans, LA.
175. Chandler, L., Filbey, F., Nyalakanti, P., Bryan, A., Kiehl, K.A., Hutchison, K., & Feldstein Ewing, S. W. (2009, April). *Searching for the Connection: The relationship between biological and behavioral correlates of adolescent alcohol abuse*. Poster presented at the Society for Research in Child Development, Denver, CO.
176. Bryan, A.D., Feldstein Ewing, S., Magnan, R., Claus, E., Filbey, F.M., Kiehl, K.A., & Hutchison, K.E. (2009, April). *Neurocognitive correlates of risky sexual behavior in adolescents: An fMRI approach*. Poster presented at the Society of Behavioral Medicine's 30th Annual Meeting. Montreal, Quebec, Canada.
177. Kiehl, K.A. (2009, April). *Psychopathy, Risk Assessment, Treatment, and Neuroscience*. Lecture for Paul D. Coverdell/Franklin Foundation Neuroimaging Lecture Series, University of Georgia, Athens, GA. Invited speaker.
178. Shane, M.S., Harenski, C.L., Stevens, M.C., & Kiehl, K.A. (2009, April). *Attenuated feedback error related negativity in cocaine abusers*. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA, USA.

179. Kiehl, K.A. (2009, May). *Substance Abuse, Psychopathy, and the Brain – What Have We Learned Using the Mind Mobile Imaging System and New Data Fusion Approaches?* Lecture for Domenici Neuroscience Symposium, Washington D.C. Invited speaker.
180. Kiehl, K.A. (2009, May). *Psychopathy, Risk Assessment, Treatment, and Neuroscience*. Lecture for Gruter Institute Annual Conference 2009: Law, Behavior & the Brain, Squaw Valley, CA. Invited speaker.
181. Ermer, E., & Kiehl, K. A. (2009, May). *Social reasoning in psychopathy*. Paper presented at the Human Behavior and Evolution Society Conference, Fullerton, CA.
182. Feldstein Ewing, S.W., Filbey, F.M., Claus, E., Sabbineni, A., Nyalakanti, P., Kiehl, K.A., Hutchison, K.E., & Bryan, A.D. (2009, June). *Neurological correlates of alcohol abuse behavior with high risk, juvenile justice-involved youth*. Paper presented at the Research Society on Alcoholism annual meeting, San Diego, CA.
183. Kiehl, K.A. (2009, June). *Psychopathy, Risk Assessment, Treatment, and Neuroscience*. Lecture for Neuroscience for Judges, sponsored by the Gruter Institute for Law and Behavioral Research with funding from the John D. and Catherine T. MacArthur Foundation's Law and Neuroscience Project, Nashville, TN. Invited speaker.
184. Clark, V.P., Beatty, G.K., Anderson, R., Kodituwakku, P., Phillips, J., Kiehl, K.A., Calhoun, V.D. (2009, June). *Cingulate and insula activity predict relapse in recovering stimulant addicts*. Abstract #1818, Oral Presentation, Psychiatric Disorders Session, Organization for Human Brain Mapping, San Francisco, CA, 2009.
185. Kiehl, K.A. (2009, June). *Psychopathic traits: Assessment, Recidivism, Treatment, Economics, and Neuroscience*. Lecture for 2009 District of Nevada Department of Probation Conference, Dana Point, CA. Invited speaker.
186. Kiehl, K.A. (2009, June). *The cognitive neuroscience of psychopathic traits – who has them and what does it mean?* Lecture for Summer Institute in Cognitive Neuroscience, Santa Barbara, CA. Invited speaker.
187. Kiehl, K.A. (2009, July). *All Things Psychopathic: Assessment, Criminal Recidivism, Treatment and Neuroscience*. Lecture for The Mind Research Network, Albuquerque, NM.
188. Kiehl, K.A. (2009, July). *The Criminal Psychopath: Assessment, Recidivism, and Neuroscience*. Lecture for The United States Probation and Pretrial Services Middle District of Florida, Bonita Springs, Florida. Invited speaker.
189. Kiehl, K.A. (2009, October). *The Criminal Psychopath: Assessment, Recidivism, Treatment and Neuroscience*. Seminar for Baylor College of Medicine for the Department of Neuroscience weekly seminar series Invited speaker, Houston, TX.
190. Kiehl, K.A. (2009, November). *The Criminal Psychopath: Assessment, Recidivism, Treatment and Neuroscience*. Seminar for State Judges as part of the Gruter Institute/MacArthur Foundation Law and Neuroscience Project. Hosted by Northwestern Law School, Chicago, IL. Invited speaker.

191. Kiehl, K.A., (2009, November). *fMRI for judges*. Seminar for State Judges as part of the ASTAR program in Science Education for Judges. Chicago, IL. Invited speaker.
192. Kiehl, K.A. (2009, November). *Understanding Psychopathy for Judges*. Seminar for State Judges as part of the ASTAR program in Science Education for Judges. Chicago, IL. Invited lecture.
193. Kiehl, K.A. (2009, December). *Paralimbic dysfunction in psychopathy? Is there evidence from neuroimaging literature?* Invited lecture for the De Kijvelanden Forensisch Psychiatrisch Centrum, Rotterdam, Netherlands.
194. Kiehl, K.A. (2010, March). *Psychopathy: Risk assessment, treatment, and neuroscience*. Seminar on Law and Neuroscience for Federal Judges, Gruter Institute for Law and Behavioral Research & Federal Judicial Center; Co-sponsored by Harvard Law School Petrie-Flom Center for Health Law Policy, Biotechnology, and Bioethics and The John D. and Catherine T. MacArthur Foundation Law and Neuroscience Project. Boston, MA. Invited speaker.
195. Kiehl, K.A. (2010, March). *Neuroscience of Psychopathy: Can it be mitigating?* Invited Keynote lecture for Office of the State Appellate Defender and Illinois Institute for Continuing Legal Education: Defending Illinois Death Penalty Cases, Chicago, IL.
196. Kiehl, K.A. (2010, April). *Exploring the brains of psychopaths*. Invited address for the Kenan Institute for Ethics and Department of Neuroscience, Duke University, Durham, NC.
197. Kiehl, K.A. (2010, May). *Cognitive neuroscience of psychopathy*. Invited lecture for the Evolution of Conscience meeting, Sponsored by the Templeton Foundation, Santa Fe, New Mexico.
198. Kiehl, K.A. (2010, May). *Bioprediction of mental illness*. Invited address for the Conference on Bioprediction, Washington D.C. Sponsored by the MacArthur Foundation Law and Neuroscience Project and the Duke University Kenan Institute for Ethics, Washington, DC.
199. Kiehl, K.A. (2010, May). *Treating the criminal psychopath: Past, present and future*. Invited lecture, 20th Annual meeting of the Gruter Institute for Law and Behavioral Science. Squaw Valley, CA.
200. Kiehl, K.A. (2010, May). *The neuroscience of the criminal psychopath*. Invited lecture, The Stanford Institute for Neuro-Innovation and Translational Neurosciences. Stanford University. Palo Alto, CA.
201. Shannon, B., Snyder, A., Raichle, M., Bache, K., Gusnard, D., & Kiehl, K.A. (2010, June). *Altered Functional Connectivity in Psychopathy: A Resting-State fMRI Analysis*. Poster session presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.

202. Allen, E., Liu, J., Kiehl, K.A., Gelemter, J., Pearlson, G., Perrone-Bizzozero, N., & Calhoun, V. D. (2010, June). *Genetic Influences on cross-frequency modulation in schizophrenia patients and healthy controls*. Poster session presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
203. Joblelius, J., Cope, L.M., Nyalakanti, P., & Kiehl, K.A. (2010, June). *An fMRI Investigation of Psychopathy and Drug Craving in Substance Dependent Male Inmates*. Poster session presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
204. Cope, L.M., Joblelius, J., Nyalakanti, P., & Kiehl, K.A. (2010, June). *fMRI Analysis of Psychopathy and Drug Craving in Substance Dependent Female Inmates*. Poster session presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
205. Skelly, L., Decety, J., & Kiehl, K.A. (2010, June). *Components of Empathy in Incarcerated Psychopaths" fMRI Reveals Surprising Patterns in the Amygdala*. Poster session presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
206. Shane, M., Harenski, C., & Kiehl, K.A. (2010, June). *Neural Evidence for "Normal" Reactivity to Aversive Stimuli in Psychopathy: You Just Need to Ask*. Poster session presented at the 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
207. Kiehl, K.A. (2010, July). *ASPD and Psychopathy: Risk assessment, treatment and neuroscience*. Invited lecture to Federal Chief Probation Officers. Sponsored by the Gruter Institute for Law and Behavioral Science, The Federal Judicial Center, and the John D. and Catherine T. MacArthur Foundation Law and Neuroscience Project.
208. Kiehl, K.A. (2010, July). *Neural correlates of callous-unemotional traits in incarcerated maximum security youth*. Invited paper for program staff of the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), Bethesda, MD
209. Kiehl, K.A. (2010, July). *Psychopaths after breakfast: Behavior, Brains, Law and Policy*. Invited paper, Google/Nature/O'Reilly Sci Foo Conference, Mountain View, CA.
210. Kiehl, K.A., (2010, September). *A case conference on State of Illinois vs Dugan: fMRI in Death Penalty Mitigation*. Invited lecture, University of Pavia, Pavia, Italy.
211. Kiehl, K.A. (2010, September). *Psychopathy, Neuroscience and Law*. Invited faculty lecture, Arizona State University Law School, Phoenix, AZ.
212. Kiehl, K.A. (2010, September). *Psychopathy, Neuroscience and Law*. Invited undergraduate/law student lecture, Arizona State University Law School, Phoenix, AZ.
213. Kiehl, K.A. (2010, October). *Can psychopathy be mitigating? Does neuroscience help?* Illinois Capital Defense Conference, Collinsville, IL. Invited lecture.

214. Kiehl, K.A. (2010, October). *Can Psychopathy be Mitigating? Does Neuroscience Help/Hurt?* American Academy of Psychiatry and Law (AAPL) annual meeting, Tucson, AZ. Invited lecture.
215. Kiehl, K.A. (2010, October). *Unmasking the Criminal Psychopath: Clinical Assessment, Legal Relevance, and Cognitive Neuroscience*. Department of Religious Studies and Ethics. Indiana University. Bloomington, IN. Invited lecture.
216. Harenski, C. L., Harenski, K. A., Shane, M., & Kiehl, K. A. (October, 2010). *Neural correlates of moral judgment in adolescents and adults*. Poster presented at the annual meeting of the Social Affective Neuroscience Society, Chicago, IL.
217. Ermer, E., & Kiehl, K. A. (October, 2010). *Social reasoning in psychopathy*. Poster presented at the Social and Affective Neuroscience Society Conference in Chicago, IL.
218. Vincent, G.M., King, J., Huang, W., Caillouet, B., Smelson, D., Nyalakanti, P., & Kiehl, K. A. (March, 2011). *fMRI study of adolescents with CU-CD and co-morbid stimulant abuse*. Presentation at the 2011 annual meeting of the American Psychology Law Society, Miami, FL.
219. Kiehl, K.A. (March, 2011). *The psychopathic mind*. Judicial Seminar on Emerging Issues in Neuroscience; Sponsored by the American Association for the Advancement of Science, Federal Judicial Center, National Center for State Courts, Judicial Division of the American Bar Association, the Society for Neuroscience, and the Dana Foundation. San Diego, CA. Invited lecture.
220. Kiehl, K.A. (March, 2011). *Biology of Moral Reasoning and Psychopathy*. The Second Raymond and Beverly Sackler U.S.A.-U.K. Scientific Forum: Neuroscience and The Law. Sponsored by The United States National Academy of Sciences and United Kingdom Royal Society, Irvine, CA. Invited lecture.
221. Kiehl, K.A. (March, 2011). *Neuroscience & the Sentencing Phase*. Guilty Minds: Neuroscience & Criminal Law Symposium, University of Denver, Sturm College of Law. Denver, CO. Invited Lecture.
222. Kiehl, K.A. (April, 2011). *Persistent, Violent, Psychopathic Offenders: Neurosciences Offers Clues Towards Treatment*. Keynote address at the 2011 District Judges Annual Conference. Reno, Nevada. Invited speaker.
223. Kiehl, K.A. (May, 2011). *Frontiers in Adolescent Brain Science*. Adolescent Brains and Juvenile Justice, Sandra Day O'Connor School of Law, Arizona State University, Phoenix, AZ. Invited speaker, panel member.
224. Kiehl, K.A. (May, 2011). *Aberrant functional connectivity in psychopathy from youth to adulthood*. Symposium lecture at the bi-annual meeting of the Society for the Scientific Study of Psychopathy (SSSP). Montreal, Quebec, Canada.
225. Aharoni, E. & Kiehl, K.A. (May, 2011). *Neural Mechanisms of Passive Avoidance Learning in Psychopathy*. Conference proceedings of the Society for the Scientific Study of Psychopathy (SSSP) in Montreal, Quebec, Canada.

226. Aharoni, E. & Kiehl, K.A. (May, 2011). *Quantifying Criminal Success in Psychopathic Offenders*. Conference proceedings of the Society for the Scientific Study of Psychopathy (SSSP) in Montreal, Quebec, Canada.
227. Cope, L.M., Ermer, E., Nyalakanti, P.K., & Kiehl, K.A. (May, 2011). *Aberrant gray matter volume in criminal psychopathy*. Poster presented at the Society for the Scientific Study of Psychopathy Meeting (SSSP) in Montreal, Quebec, Canada.
228. Ermer, E., Greene, J.D., & Kiehl, K.A. (May, 2011). *Utilitarian moral judgments in incarcerated psychopaths*. Poster presented at the Society for the Scientific Study of Psychopathy (SSSP) Conference in Montreal, Quebec, Canada.
229. Harenski, C.L., Kiehl, K.A. (May, 2011). *A functional imaging investigation of emotion and moral judgment in female psychopathy*. Paper presented at the annual meeting of the Society for the Scientific Study of Psychopathy (SSSP), Montreal, Quebec, Canada.
230. Harenski, C.L., Harenski, K.A., Thornton, D.M., & Kiehl, K.A. (May, 2011). *Neural correlates of response inhibition and pain observation in pedophilia and sexual sadism*. Poster presented at the annual meeting of Society of Biological Psychiatry, San Francisco, CA.
231. Kiehl, K.A. (June, 2011). *The Criminal Psychopath: Who? Why? What?* Lecture presented in the symposium Predicting and Exploring Causation of Criminal Behavior. Second Circuit Judicial Conference, Lake George, NY. Invited lecture.
232. Kiehl, K.A. (September, 2011). *The Criminal Psychopath Magnetized: Insights from Neuroimaging of Incarcerated Youth and Adults*. Grand Rounds, New York University Child Study Center, New York, NY. Invited Lecture.
233. Kiehl, K.A. (September, 2011). *The Legal Implications of Criminal Psychopathy*. Private luncheon lecture provided to the Federal Judges of the Second Circuit Judicial Branch, New York, NY. Invited lecture by Federal Judge John Koeltl.
234. Kiehl, K.A. (October, 2011). *The criminal psychopath magnetized: Insights from neuroimaging*. PAL lecture series, Department of Psychology, University of New Mexico.
235. Kiehl, K.A. (October, 2011). *The Criminal Psychopath: Who? Why? What?* Mind Research Network lecture series. Albuquerque, NM.
236. Kiehl, K.A. (November, 2011). *The Cognitive Neuroscience of Criminal Psychopaths*. Department of Psychology, University of Maryland, College Park, MD. Invited lecture.
237. Kiehl, K.A. (February, 2012). *The criminal psychopath magnetized: Implications of brain imaging for psychology, medicine, law and policy*. Neuroscience and Public Policy Program, University of Wisconsin-Madison <http://npp.wisc.edu/>. Madison, WI. Invited speaker.

238. Kiehl, K.A. (April, 2012). *The neuroscience of the criminal psychopath: Any implications for law?* Boston Society of Neurology and Psychiatry, Harvard Medical School. Boston, MA. Invited Keynote Speaker.
239. Kiehl, K.A. (April, 2012). *The criminal psychopath magnetized: Implications of brain imaging for psychology, medicine, law and policy.* Duke University Law School. Invited speaker.
240. Kiehl, K.A. (April, 2012). *The Legal Implications of Criminal Psychopathy.* Federal judicial education seminar, National Workshops for U.S. Magistrate Judges, Organized by the National Federal Judicial Center in Washington, D.C., Miami, FL. Invited speaker.
241. Kiehl, K.A. (July, 2012). *The Legal Implications of Criminal Psychopathy.* Federal judicial education seminar, National Workshops for U.S. Magistrate Judges, Organized by the National Federal Judicial Center in Washington, D.C., Denver, CO. Invited speaker.
242. Kiehl, K.A. (August, 2012). *The Psychopath.* Invited paper, Google/Nature/O'Reilly Sci Foo Conference, Google Campus, Mountain View, CA.
243. Kiehl, K.A. (September, 2012). *The usual suspects magnetized: When law and neuroscience collide.* PAL lecture series, Department of Psychology, University of New Mexico, Albuquerque, NM.
244. Kiehl, K.A. (October, 2012). *The criminal psychopath magnetized: Insights from brain imaging.* Grand Rounds presentation to the Department of Psychiatry, Duke University, Durham, NC. Invited speaker.
245. Kiehl, K.A. (October, 2012). *The criminal psychopath magnetized: Insights from brain imaging.* Grand Rounds presentation to psychiatric staff at Central Mental Hospital, Duke University/University of North Carolina residents program. Invited speaker
246. Kiehl, K.A. (October, 2012). *Roundtable discussion on law and neuroscience.* Seminar on future tense, The New America Foundation, Washington, DC. Invited speaker.
247. Kiehl, K.A. (February, 2013). *The cognitive neuroscience of criminal psychopaths.* South Carolina Psychiatric Association 2013 Annual Conference. Charleston, SC. Invited speaker.
248. Kiehl, K.A. (March, 2013). *The science of psychopaths: Assessment, recidivism, neuroscience, and treatment.* Forensic Mental Health Association of California (FMHAC). Monterrey, CA. Invited Keynote speaker.
249. Kiehl, K.A., (May, 2013). *Psychopaths and the Law: Assessment, Recidivism, and Neuroscience.* Nevada Federal District Conference for Federal Judges, Las Vegas, NV. Invited Keynote speaker.

250. Kiehl, K.A., (May, 2013). *The Usual Suspects Magnetized: When Law and Neuroscience Collide*. Alaska Bar Convention. Juneau, AK. Invited Keynote speaker.
251. Kiehl, K.A. (May, 2013). *Psychopaths and the Law: Assessment, Recidivism and Treatment*. Alaska Bar Convention. Juneau, AK. Invited keynote speaker.
252. Kiehl, K.A. (May, 2013). *The Usual Suspects Magnetized: When Law and Neuroscience Collide*. New Mexico Bar Association. Judicial Education Seminar. Albuquerque, NM. Invited lecture by Judge Ronald Kennedy, New Mexico Court of Appeals.
253. Kiehl, K.A., (June, 2013). *The Usual Suspects Magnetized: When Law and Neuroscience Collide*. Santa Barbara Judicial Meeting, Santa Barbara, CA. Invited speaker.
254. Kiehl, K.A. (June, 2013). *The Usual Suspects Magnetized: When Law and Neuroscience Collide*. New Mexico Judicial Conclave. Albuquerque, NM. Invited Lecture.
255. Kiehl, K.A. (July, 2013). *Neuroscience and Crime*. Summer Institute in Cognitive Science, Lake Tahoe, CA. Invited speaker.
256. Kiehl, K.A. (November, 2013). *From Callous-Unemotional Traits to Psychopathic Personality: Neuroimaging Studies of High-Risk Youth and Adults*. New York University Child Study Center Grand Rounds. Invited Speaker.
257. Kiehl, K.A. (November, 2013). *Can Neuroscience Help Understand Risk For Homicide?* Sandra Day O'Conner Science Symposium. Arizona State University School of Law. Phoenix, Arizona. Invited Speaker.
258. Kiehl, K.A. (December, 2013). *From Neurons to Neuroimaging: Brain Scans 101*. Annual educational meeting of the State of Georgia Public Defender's Division. Brastown Valley, Georgia. Invited keynote speaker.
259. Kiehl, K.A. (February, 2014). *On Prediction in Legal Contexts: Would, Could, Should Neuroimaging Help?* Northwestern University School of Law. Invited Speaker.
260. Kiehl, K.A., (March, 2014). *The Usual Suspects Magnetized: When Neuroscience and Law Collide*. Weinberg Symposium, University of Michigan. Ann Arbor, MI. Invited speaker.
261. Buckholtz, J., Dorfman, H., Kastman, E., & Kiehl, K.A. (March, 2014). *The value of psychopathy: Aberrant computation of subjective value during intertemporal choice in incarcerated males with psychopathy*. Paper presentation in Application of Neuroscientific Methods and Research to Psycho-Legal Questions Symposium at the Annual Meeting of the American Society for Psychology and Law. New Orleans, NO.
262. Gaudet Kiehl, L., Lushing, J. & Kiehl, K.A. (March, 2014). *Neuroimaging Evidence in Court: An analysis of empirical research, legal arguments, and admissibility standards*. Paper presentation in Application of Neuroscientific Methods and Research to Psycho-

Legal Questions Symposium at the Annual Meeting of the American Society for Psychology and Law. New Orleans, NO.

263. Vincent, G., Cope, L., Nyalakanti, P., & Kiehl, K.A. (March, 2014). *fMRI Study of Adolescents with CU-CD & Co-morbid Stimulant Abuse*. Paper presentation in Application of Neuroscientific Methods and Research to Psycho-Legal Questions Symposium at the Annual Meeting of the American Society for Psychology and Law. New Orleans, NO.
264. Kiehl, K.A. (April, 2014). *Forensic Neuroscience*. Avielle Foundation Scientific Advisory Board meeting. New Haven, CT.
265. Kiehl, K.A. (April, 2014). *The Usual Suspects Magnetized: When Neuroscience and Law Collide*. Department of Psychiatry, University of Illinois – Chicago. Invited speaker.
266. Kiehl, K.A. (April, 2014). *Psychopathy: Etiology and Treatment*. Violence Institute of New Jersey Conference, Rutgers University, Invited Speaker.
267. Kiehl, K.A. (May, 2014). *The Neuroscience of Psychopaths: Legal and Policy Implications*. Department of Neuroscience, University of Wisconsin, Madison. Madison, WI. Invited speaker by the graduate students.