

## Poster Session II – Tuesday



Advocacy Affiliate - International Mental Health Resource Organization  
“IMHRO Rising Star Awards”

Cindy Dyar, Brandon Staglin

1. Membership Advisory Task Force: Feedback, Challenges, and Solutions in 2012

Katherine E. Burdick, Linda Carpenter, Marlene Freeman, Vaishali Bakshi, Paul Holtzheimer, Lisa Monteggia, Thomas Schulze, Carlos Bolanos-Guzman, Kristin Cadenhead, Raymond Cho, Cynthia Crawford, Paul Kenny, Gregory Light, Gonzalo Laje

2. Schizophrenic and Bipolar Tobacco Smoker/Nonsmoker Sex, Dopamine D2 Receptor Taq1A and OPRM1 A118G Genotype Differences

Edward F. Domino, Mika Hirasawa-Fujita, Michael Bly, Vicki Ellingrod, Gregory Dalack

3. Trauma and Post Traumatic Stress Disorder in an American Indian Community: Heritability, Electrophysiological Findings, and Comorbidity with Other Psychiatric Disorders

Cindy L. Ehlers, Ian Gizer, David Gilder, Rachel Yehuda

4. MicroRNA-137 Expression in Schizophrenia and Bipolar Disorder

Marquis P. Vawter, Ilaria Guella, Brandi Rollins, Theo Van Erp, Federica Torri, Pedro A. Sequeira, William E. Bunney, Steven Potkin, Fabio Macciardi

5. Gene x Withdrawal Effects on Responsiveness to Cocaine Stimuli in Cocaine Addiction

Scott J. Moeller, Muhammad Parvaz, Elena Shumay, Nicasia Beebe-Wang, Nora D. Volkow, Rita Goldstein

Poster Session II—Tuesday

6. Allele-specific DNA deMethylation in FKBP5: A Molecular Mediator of Gene x Environment Interactions with Childhood Trauma  
Torsten Klengel, Divya Mehta, Christoph Anacker, Jens C. Pruessner, Carmine M. Pariante, Thaddeus W.W. Pace, Kristina B. Mercer, Helen S. Mayberg, Bekh Bradley, Charles Nemeroff, Florian Holsboer, Christine M. Heim, Kerry J. Ressler, Theo Rein, Elisabeth Binder
  
7. APOE  $\epsilon$ 4, an Alzheimer's Disease Susceptibility Allele, Predicts Relapse among Older Treatment-seeking Smokers  
Rebecca L. Ashare, Jason Karlawish, E. Paul Wileyto, Angela Pinto, Caryn Lerman
  
8. The Catechol-O-methyltransferase (COMT) Val158Met Polymorphism Interacts with Childhood Trauma to Influence Aggression and Impulsivity among Treatment-seeking Alcohol Dependent Individuals  
Melanie Schwandt, Markus Heilig, Daniel W. Hommer, David T. George, Colin A. Hodgkinson, Pei-Hong Shen, David Goldman, Vijay Ramchandani
  
9. eQTL Regulation by NATs in Alzheimer's Disease  
Amanda Myers, Manuel Ramirez
  
10. Association of PACAP and PACAPR1 Gene Variants with Unipolar Depression and Panic Disorder  
Angelika Erhardt, Susanne Lucae, Marcus Ising, Florian Holsboer, Elisabeth Binder
  
11. Genetic Variation in the PACAP-PAC1 Receptor (ADCYAP1R1) Gene is Associated with Increased Resting State Blood Flow in the Frontal and Limbic Regions among Adolescent Females with High Childhood Emotional Neglect  
Amy E. Ramage, Suman Baddam, Megan N. Cullip, Rene L. Olvera, Douglas E. Williamson

Poster Session II—Tuesday

12. Exome Sequence Analysis of Finnish Patients with Clozapine-induced Agranulocytosis

Arun K. Tiwari, Anna C. Need, Clement C. Zai, Nabilah Chowdhury, Daniel J. Mueller (Müller), Anu Putkonen, Elia Repo-Tiihonen, Tero Hallikainen, A. Elif Anil Yağcıoğlu, Jari Tiihonen, James L. Kennedy, Herbert Y. Meltzer

13. Oxytocin Genotype may Modulate Reactivity to the Environment in Borderline Personality Disorder

M. Mercedes Perez-Rodriguez, Qiaoping Yuan, Zhifeng Zhou, Colin A. Hodgkinson, Laura Bevilacqua, Luis Ripoll, Marianne Goodman, Harold W. Koenigsberg, Pei-Hong Shen, David Goldman, Larry Siever, Antonia S. New

14. Genetic and Epigenetic Regulation of Catechol-O-Methyl-Transferase (COMT) are Associated with Impaired Fear Inhibition in Posttraumatic Stress Disorder

Seth D. Norrholm, Tanja Jovanovic, Alicia Smith, Elisabeth B. Binder, Torsten Klengel, Karen Conneely, Kristina B. Mercer, Jennifer Davis, Kimberly Kerley, Jennifer Winkler, Charles Gillespie, Bekh Bradley, Kerry J. Ressler

15. Relationship of SYNE1 and Processing Speed with Interference Resolution in Bipolar Disorder

Scott A. Langenecker, Aaron Vederman, Sebastian Zoellner, Masoud Kamali, Erika FH. Saunders, Melvin McInnis, Jon-Kar Zubieta, Margit Burmeister

16. Novel Repeat Polymorphism in the Catechol-O-Methyltransferase (COMT) Gene: Association with Cocaine Dependence and Age-related Changes in Brain Metabolism

Elena Shumay, Joanna Fowler, Nora D. Volkow

Poster Session II—Tuesday

17. Common and Rare Gain-of-function Alleles of the Serotonin Transporter Gene, SLC6A4, Associated with Tourette Disorder

Pablo R. Moya, Jens R. Wendland, Liza M. Rubenstein, Kiara R. Timpano, Anne M. Andrews, Gary A. Heiman, Jay A. Tischfield, Robert A. King, Sammanda Ramamoorthy, Francis J. McMahon, Dennis L. Murphy

18. An American Genetic Variant of DISC1 Disrupts NDEL1 Binding and Phosphorylation in Human Induced Pluripotent Stem Cell Derived Neural Progenitors

Lindsay Wilson, Sandra Engle, Zoe A. Hughes, Nicholas Brandon

19. Analysis of Genetic Effects and Heritability of SNPs and Their Interactions in Two Ethnical Populations for Smoking Dependence

Ming D. Li, Zhihong Zhu, Zhixiang Zhu, Jennie Z. Ma, Thomas J. Payne, Jun Zhu

20. The Effect of Distracting Noise on the Neuronal Mechanisms of Attention in Schizophrenia

Jason Tregellas, Jason Smucny, Lindsay Eichman, Donald Rojas

21. Safety, Pharmacokinetic and Positron Emission Tomography Evaluation of Serotonin and Dopamine Transporter Occupancy Following Multiple-dose Administration of the Triple Monoamine Reuptake Inhibitor BMS-820836

Ming Zheng, Lieuwe Appel, Roger Lane, David Burt, Feng Luo, Robert Risinger, Gunnar Antoni, Matthew Cahir, Sanjay Keswani, Wendy Hayes, Zubin Bhagwagar

Poster Session II—Tuesday

22. Differential Control of Learning and Anxiety along the Dorso-ventral Axis of the Dentate Gyrus

Mazen A. Kheirbek, Liam J. Drew, Daniel Costantini, Nisha Burghardt, Lindsay Tannenholz, Susanne E. Ahmari, Hongkui Zeng, Andre Fenton, Rene Hen

23. Anxiety Delays the Development of Fear Inhibition in Children at High Risk for Trauma Exposure

Tanja Jovanovic, Telsie Davis, Ami Smith, Jennifer Winkler, Seth D. Norrholm, Kerry J. Ressler, Bekh Bradley

24. A Non-competitive NMDA Antagonist AZD6765 Compared with Ketamine and Placebo on Pharmacology-MRI and Cognitive Mechanistic Biomarkers in Untreated Major Depressive Disorder; a Randomized Double-blind Controlled Trial

Bill Deakin, Steve Williams, Darragh Downey, Shane McKie, Guy Goodwin, Angela Rylands, Catherine Harmer, Kevin Craig, Colin Doursih, Gerard Dawson, Dennis McCarthy, Mark A. Smith

25. Ghrelin Intravenous Administration Increases Alcohol Craving in Alcohol-dependent Individuals: Preliminary Findings from a Human Laboratory Study

Lorenzo Leggio, William Zywiak, Samuel Fricchione, Steven Edwards, Robert Swift, George Kenna

26. Later Dinnertime is Associated with Abdominal Obesity in Patients with Bipolar Disorder

Isabella Soreca, Ellen Frank, David J. Kupfer

27. Differential Maturation of Subtypes of Perisomatic GABAergic Inputs in Monkey Prefrontal Cortex

Gil D. Hoftman, Kenneth Fish, David A. Lewis

**Poster Session II—Tuesday**

28. Adjunctive AZD6765, a Low-trapping NMDA Channel Blocker, in Treatment-resistant Major Depressive Disorder: A Randomized, Placebo-controlled Study

Gerard Sanacora, Mark A. Smith, Sanjeev Pathak, Hong-Lin Su, Dennis McCarthy

29. TRPA1 “Menthol Preference” Haplotypes are Associated with Levels of TRPA1 Expression and Smoking Cessation Success

George Uhl, Donna Walther, Frederique Behm, Jed Rose

30. Gene Expression Profiling in Selectively Bred Rat Lines that Differ in Addiction Liability

Shelly B. Flagel, Maria Waselus, Stanley J. Watson, Robert Thompson, Huda Akil

31. Just C NO to DREADDs: Inhibition of Ventral Pallidum Projection to Ventral Tegmental Area Blocks Cue-triggered Cocaine Seeking

Stephen V. Mahler, Elena M. Vazey, Jennifer Kaufling, Gary Aston-Jones

32. DLPFC Hyperactivation is Associated with the mir137 Schizophrenia Risk Genotype

Steven Potkin, Theo Van Erp, Ilaria Guella, Marquis P. Vawter, Federica Torri, Judith M. Ford, Kelvin O. Lim, Juan Bustillo, Ayse Belger, Adrian Preda, Dana Nguyen, Jessica Turner, Daniel H. Mathalon, Fabio Macciardi

33. Common Genetic Variation within Transcription Factor Binding Sites is Associated with Bipolar Disorder

David T.W. Chen, Nirmala Akula, Liping Hou, Girma Hawariat, Sevilla Detera-Wadleigh, Xueying Jiang, BiGS Consortium, Francis J. McMahon

Poster Session II—Tuesday

34. Are Endophenotypes of Schizophrenia More or Less Heritable than the Disorder Itself in the COGS-1 Family Study?

Gregory A. Light, Tiffany A. Greenwood, Daniel J. Mathias, Neal R. Swerdlow, David L. Braff, COGS Investigators

35. Epigenetic Modulation of the Leukocyte Glucocorticoid Receptor and Childhood Parental Loss

Audrey R. Tyrka, Carmen Marsit, Lawrence H. Price, Yuliya I. Kuras, Noah S. Philip, Linda L. Carpenter

36. Excess Homozygosity in the MHC in Schizophrenia

Semanti Mukherjee, Saurav Guha, Anil Malhotra, Itsik Pe'er, Ariel Darvasi, Todd Lencz

37. Antipsychotic-induced Metabolic Abnormalities in Schizophrenia: The Prominent Role of Appetite Regulating Hypothalamic Genes

Daniel J. Mueller, Arun K. Tiwari, Nabilah I. Chowdhury, Natalie Freeman, Jeffrey A. Lieberman, Herbert Y. Meltzer, James L. Kennedy

38. eQTLs are Conserved across Brain Regions and Inform Genetic Association Results of Bipolar Disorder

Margit Burmeister, Viktoriya Strumba, Benjamin Keller, Ellen Schmidt, Matthew Flickinger, Elsbietta Sliwerska, Alan F. Schatzberg, Jack Barchas, William E. Bunney, Richard M. Myers, Stanley J. Watson, Jun Li, Laura Scott, Michael Boehnke, Huda Akil

39. The Heritability of Intelligence in a Combined Sample Community Controls and People with Schizophrenia

Dwight Dickinson, Joey Trampush, Ningping Feng, Bhaskar Kolachana, Richard Straub, Daniel R. Weinberger

**Poster Session II—Tuesday**

40. Behavioral Neurogenetics: Length of CAG Repeat in Huntingtin Below Disease Threshold Predicts Motor Skill and Behavior in Children

Peggy C. Nopoulos, Kathy Mathews, Eric Epping, Jane Paulsen

41. Pharmacogenetic Moderators of Methylphenidate and Guanfacine Response in Children and Adolescents with ADHD

Erika L. Nurmi, Karyn S. Mallya, James McGough, Sandra K. Loo, Robert M. Bilder, Fiona Whelan, James T. McCracken

42. Convergent Functional Genomics of Schizophrenia: From Comprehensive Understanding to Genetic Risk Prediction

Mikias Ayalew, Helen Le-Niculescu, Daniel Levey, Alan Breier, Anantha Shekhar, John Nurnberger, Mark A. Geyer, Ming Tsuang, Daniel Salomon, Nicholas Schork, Ayman Fanous, Michael C. O'Donovan, Alexander B. Niculescu

43. Identifying Rare Variants for Obsessive-Compulsive Disorder Using Family-based Whole Exome Sequencing Analysis: Preliminary Findings

Paul Arnold, Bingbin Li, Christian Marshall, Anath Lionel, Stephen Scherer, Gregory L. Hanna

44. De Novo Mutation of the Dopamine Transporter Gene Reveals a Novel Component of Autism Pathogenesis

James S. Sutcliffe, Peter Hamilton, Kevin Erreger, Andrea Belovich, Mark J. Daly, Aurelio Galli

45. The Genome-wide Supported Variant MicroRNA-137 Predicts Phenotypic Heterogeneity within Schizophrenia

Tristram Lett, Mallar Chakravarty, Virginia Goncalves, Arun K. Tiwari, Daniel Felsky, Jason Lerch, Eva Brandl, Jeffrey Lieberman, Herbert Y. Meltzer, James L. Kennedy, Aristotle Voineskos

Poster Session II—Tuesday

46. A System Level Transcriptomic Analysis in Schizophrenia Postmortem Brain

Panos Roussos, Pavel Katsel, Kenneth L. Davis, Larry Siever, Vahram Haroutunian

47. Elevated Omega-6/Omega-3 Fatty Acid Ratio Predicts Depression Development Following Interferon-Alpha Treatment: Relationship with Interleukin-6

Francis E. Lotrich, Barry Sears, Charles Reynolds, Robert McNamara

48. Low Vascular Endothelial Growth Factor and Interleukin-8 in Cerebrospinal Fluid of Suicide Attempters

Jussi Jokinen, Josef Isung, Shahin Aeinehband, Björn Mårtensson, Peter Nordström, Fredrik Piehl, Marie Åsberg

49. Influence of Acute Tryptophan Depletion on Attentional Performance in Adults with ADHD

Florian Daniel Zepf, Christian Mette, Marco Grabemann, Mona Abdel-Hamid, Jennifer Uekermann, Caroline Biskup, Jens Wiltfang, Bernhard Kis

50. DHEA and DHEAS as Potential Biomarker Candidates: Investigations in Over 600 Male OEF/OIF Era Veterans

Steven T. Szabo, Jason D. Kilts, Gillian Parke, Rajendra A. Morey, Lawrence Shampine, Jennifer Naylor, Robert M. Hamer, Christine E. Marx

51. Plasma Markers of Inflammation Correlate Directly Aggression and are Elevated in Intermittent Explosive Disorder

Emil F. Coccaro, Royce Lee, Mary Coussons-Read

Poster Session II—Tuesday

52. Elevated Transcript Levels for Viral Restriction Factors in Cortical Endothelial Cells in Schizophrenia  
David W. Volk, Benjamin I. Siegel, Elizabeth J. Sengupta, Jessica R. Edelson, David A. Lewis
53. Broader Autism Phenotype: Relationships between Maternal/Paternal BAP, Parental SSRI Treatment, WB 5-HT and Child's Autism Symptoms  
Tal Levin-Decanini, Nell Maltman, Guter Stephen, Edwin H. Cook, Suma Jacob
54. Toll Like Receptors in the Prefrontal Cortex of Depressed Suicide Victims  
Ghanshyam N. Pandey, Hooriyah S. Rizavi, Xinguo Ren, Yogesh Dwivedi
55. Reduced  $\mu$ -opioid Response to Social Rejection in Major Depressive Disorder  
David T. Hsu, Benjamin J. Sanford, Kortni K. Meyers, Kathleen E. Hazlett, Brian J. Mickey, Scott A. Langenecker, Jon-Kar Zubieta
56. Neurochemical Effects of Ketamine Administration in Healthy Humans: An MRS Time-course Study  
Lawrence S. Kegeles, Xiangling Mao, Najate Ojeil, Raffael Massuda, Mariana Pedrini, Chi-Ming Chen, Anissa Abi-Dargham, Mark Slifstein, Matthew Milak, Carolyn I. Rodriguez, Dikoma C. Shungu
57. Effects of 4mg Pioglitazone on Mnemonic Hippocampal Function: A Pharmacologic BOLD fMRI study in Healthy Elderly Adults  
Ahmad Hariri, Annchen Knodt, Adam Gorka, James Burke, Kathleen Welsh-Bohmer, Brenda Plassman, Daniel Burns, Stephen Brannan, Michael Kukulka, Allen Roses

Poster Session II—Tuesday

58. Circadian Clock Gene Expression Rhythms in Cells from Patients with Bipolar Disorder Differ in Response to Lithium
- Michael J. McCarthy, Hongbing Wei, Ryan Darvish, Donna McPhie, Bruce Cohen, David Welsh
59. Adjunctive Treatment with Asenapine Augments the Escitalopram-induced Effects on Monoaminergic and Glutamatergic NMDA as well as AMPA Receptor-mediated Transmission in the Medial Prefrontal Cortex
- Monica M. Marcus, Olivia Frånberg, Carl Björkholm, Anna Malmerfelt, Kent Jardemark, Torgny H. Svensson
60. The Functional Significance of Antipsychotic-related Cortical Thinning in First Episode Schizophrenia
- Tyler A. Lesh, Costin Tanase, Tara Niendam, Jong Yoon, J Daniel Ragland, Michael Minzenberg, Marjorie Solomon, Cameron Carter
61. GR-independent Corticosterone-Dopamine Interactions in the Nucleus Accumbens Mediate the Stress-induced Potentiation of Cocaine Seeking in Rats
- Paul J. Gasser, Evan N. Graf, David A. Baker, Jayme McReynolds, Jonathan Hill, Amanda Ebben, Chung-Lung Chan, Mykel Robble, Oliver Vranjkovic, Daniel S. Wheeler, Robert A. Wheeler, John R. Mantsch
62. Basolateral Amygdala Microinfusion of Neuropeptide S (NPS) Rescues Behavior in a Rat Model of posttraumatic Stress Disorder (PTSD) by Increasing Expression of brain Derived Neurotrophic Factor and Neuropeptide YY1 Receptor
- Hagit Cohen, Nitsan Kozlovsky, Zeev Kaplan, Joseph Zohar, Aleksander Mathé

Poster Session II—Tuesday

63. Inhibition of the Fatty Acid Amide Hydrolase (FAAH) in Acute Schizophrenia – A Mechanistically New Approach to its Treatment
- F. Markus Leweke, Martin Hellmich, Franziska Pahlisch, Laura Kranaster, Dagmar Koethe
64. A Pilot Study on the Effects of Single Dose Intranasal Oxytocin on Social Cognition in Schizophrenia
- Michael C. Davis, Junghee Lee, William Horan, Michael F. Green, Stephen R. Marder
65. Alterations in Synaptic Potentiation and Glutamatergic Signaling in Nicotine Abuse
- Cassandra Gipson, Yonatan Kupchik, Kathryn Reissner, Peter Kalivas
66. Serum IgG Antibodies against the NR1 Subunit of the NMDA Receptor not Detected in Schizophrenia
- Joseph C. Masdeu, Ana González-Pinto, Carlos Matute, Sonia Ruiz de Azúa, Aitor Palomino, Jose de Leon, Karen F. Berman, Josep Dalmau
67. Abnormalities of Glutamate Microdomains in Schizophrenia
- Robert McCullumsmith, Dan Shan, Joy Roche, Vahram Haroutunian, James Meador-Woodruff, Rosalinda C. Roberts
68. Upregulation in the Expression of Key Serotonergic, Noradrenergic, and Cholinergic Genes in the Lower Brainstem in Major Depression: Neurobiological Substrate for Somatic Symptoms?
- Aneesh Tyle, Nina S. Amilineni, Danielle A. Simpson, Edward G. Jones, William E. Bunney, Huda Akil, Stanley J. Watson, Ilan A. Kerman

Poster Session II—Tuesday

69. Alterations of Endogenous Cannabinoids in Complex PTSD and Borderline Personality Disorder
- Juliane K. Mueller, Carola Schaefer, Frank Enning, J. Malte Bumb, Martin Hellmich, Dagmar Koethe, Christian Schmahl, Martin Bohus, F. Markus Leweke
70. Glutamate Signaling is Reduced and GABA Signaling Unaffected in Hippocampus in Schizophrenia
- Ana D. Stan, Subroto Ghose, Yan Fang, Perry Mihalakos, Stephanie Morris, Sandeep Ganji, Changho Choi, Carol A. Tamminga
71. Functional Brain Basis of Hypnotizability
- David Spiegel, Fumiko Hoeft, John DE Gabrieli, Susan Whitfield-Gabrieli, Brian Haas, Roland Bammer, Vinod Menon
72. Changes in Fusiform Gyrus Associated with Face Processing in Social Anxiety Disorder, before and after Treatment
- Ardesheer Talati, Spiro Pantazatos, Joy Hirsch, Franklin R. Schneier
73. Markedly Reduced mGluR5 Receptor Binding in Smokers and Ex-smokers Determined by [11C]ABP688 Positron Emission Tomography
- Gregor Hasler, Funda Akkus, Simon M. Ametamey, Valerie Treyer, Cyrill Burger, Anass Johayem, Daniel Umbricht, Baltazar Gomez Mancilla, Judit Sovago, Alfred Buck
74. Imaging the Sensitivity of [123I]5-IA-85380 to Increases in Acetylcholine at the Beta2-Nicotinic Acetylcholine Receptors in Human Subjects
- Irina Esterlis, Jonas Hannestad, Frederic Bois, Andrew Sewell, Rachel Tyndale, John Seibyl, Marina Picciotto, John H. Krystal, Marc Laruelle, Richard Carson, Kelly Cosgrove

**Poster Session II—Tuesday**

75. Neurobiological Differences in Mentalization in Anorexia Nervosa

Carrie J. McAdams, Daniel C. Krawczyk, Graham Emslie

76. Neural and Behavioral Markers of Treatment Response in PTSD: A Longitudinal FMRI Study

Yuval Neria, Gregory M. Sullivan, Erel Shvil, Scott Schafer, Mariana Neria, Miriam Campeas, John C. Markowitz, Tor D. Wager, Mohammed R. Milad

77. Prefrontal Brain Activity Predicted by Dopaminergic Genes in Healthy Adults is Modulated by Antipsychotics in Schizophrenia

Thomas Weickert, Ans Vercammen, Ashley Skilleter, Rhoshel Lenroot, Cynthia S. Weickert

78. Neural Changes Associated with Attention Bias Modification Treatment: Implications for Anxiety Disorders

Jennifer Britton, Jenna Suway, Michelle Clementi, Yair Bar-Haim, Nathan Fox, Daniel S. Pine

79. Effects of Nicotine and Cannabis Use on Structural Connectivity in Brain's Reward-motivation Circuitry

Francesca M. Filbey, Sina Aslan, Arvind Caprihan, Judith Segall, Vincent Calhoun

80. Longitudinal Assessment of Neurochemical Changes in First-episode Mania following Lithium Treatment: An Interim MRS Analysis from the Bipolar Disorder Imaging and Treatment Research Center

David E. Fleck, Wen-Jang Chu, Richard Komoraski, James Eliassen, Jing-Huei Lee, Matthew Norris, Michael Cerullo, Caleb Adler, Melissa DelBello, Stephen Strakowski

Poster Session II—Tuesday

81. White Matter Abnormalities in Skin Picking Disorder: A Diffusion Tensor Imaging Study  
Jon E. Grant, Brian L. Odlaug, Samuel R. Chamberlain, Adam Hampshire
82. Dopaminergic Networks: Brain Maturation and ADHD  
Dardo Tomasi, Nora D. Volkow
83. Odor Modulation during an Alcohol Cue-reactivity Paradigm: A Functional Magnetic Resonance Imaging (fMRI) Preliminary Investigation  
Bernadette M. Cortese, Thomas W. Uhde, Konstantin E. Voronin, Scott Henderson, Joseph P. Schacht, Qing X. Yang, Raymond F. Anton
84. Brain GABA Levels and Vitamin D3 in Manic Children and Adolescents  
Elif Sikoglu, Ana Liso, Debra Starr, Michael Cirillo, Benjamin Nwosu, Ryan Rogan, Martha Castro, Richard Edden, Jean King, David Kennedy, Constance M. Moore, Jean Frazier
85. Altered Activation in Fronto-Striatal Circuits during Sequential Processing in Unmedicated Adults with Obsessive-Compulsive Disorder  
Rachel Marsh, Bradley S. Peterson, Helen Blair Simpson, Zhishun Wang, Nidhi Parashar, Guillermo Horga
86. Brain Arachidonic Acid Metabolism is Upregulated in Rat Model of Human HIV-1 Infection and can be Dampened by Chronic Lithium: Relation to Bipolar Disorder  
Stanley I. Rapoport, Mireille Basselin, Ipolia Ramadan

**Poster Session II—Tuesday**

87. Gray Matter Volumes in Pediatric Generalized Anxiety Disorder: A Voxel-Based Morphometry Study

Jeffrey Strawn, Anna M. Wehry, Michael Cerullo, James Eliassen, Stephen Strakowski, Caleb Adler, Melissa DelBello

88. An Examination of White Matter Aberrations in Youth at High-risk for Bipolar Disorder: A Tract-based Spatial Statistics Analysis

Donna Roybal, Naama Barnea-Goraly, Ryan G. Kelley, Spencer Boucher, Meghan Howe, Dylan Alegria, Kiki Chang

89. The use of MRI to Detect Regionally Specific Changes in White Matter Integrity Following Extended Methamphetamine Self-Administration in Rats

Carmela M. Reichel, Saeid Taheri, Ronald E. See

90. Functional Activation Differences during an Impulsivity Task Occur in Subjects with Bipolar Disorder Compared to Major Depressive Disorder during a Depressive Episode

Michael Cerullo, Martine Lamy, Christopher Smith, Brenda Milburn, David E. Fleck, James Eliassen, Jeffrey Strawn, Caleb Adler, Melissa DelBello, Stephen Strakowski

91. Self-regulation of Amygdala Activity with Real-time fMRI Neurofeedback in Patients with Depression

Kymerly Young, Raquel Phillips, Vadim Zotev, Wayne C. Drevets, Jerzy Bodurka

Poster Session II—Tuesday

92. Assessment of Brain Kappa Opioid Receptor Occupancy after Single Oral Doses of LY2456302 as Measured by PET with the Radioligand LY2879788 in Healthy Subjects

Johannes Tauscher, Francois Vandenhende, Jennifer Witcher, Mohini Ranganathan, Ming-Qiang Zheng, Mika Naganawa, Yiyun Huang, Alexander Neumeister, Richard E. Carson

93. Association of Depression with Hippocampal Volume: Results from an Epidemiological Sample

E. Sherwood Brown, Carroll W. Hughes, Roderick McColl, Ronald Peshock, A. John Rush, Julia Knypinski

94. Resting State Network Dynamics Predict Relapse in Cocaine-dependent Individuals

Meredith J. McHugh, Hong Gu, Yihong Yang, Jacquelyn Braud, Michael D. Devous, Richard W. Briggs, N. Robrina Walker, Bryon Adinoff, Elliot A. Stein

95. Subcortical Food Motivation Circuitry Dysfunction Associated with Endogenous Active Ghrelin Levels in Women with Anorexia Nervosa

Laura M. Holsen, Elizabeth A. Lawson, Kara Christensen, Anne A. Klibanski, Jill M. Goldstein

96. Resting-state Functional Connectivity and Neuroactive Steroids in Postpartum Depression

Kristina M. Deligiannidis, Elif M. Sikoglu, Scott A. Shaffer, Blaise Frederick, Constance M. Moore, Anthony J. Rothschild

97. Neural Mechanisms of Social Influence in Young Adult Drug Use

Jodi M. Gilman, Sang Lee, John Kuster, Byoungwoo Kim, Myoung Joo Lee, Paul Wighton, Andre van dew Kouwe, Anne Blood, Hans C. Breiter

**Poster Session II—Tuesday**

98. Damage Control: The Neural Basis of Reappraisal in Generalized Anxiety Disorder

Carmen Andreescu, Lei K. Sheu, Dana L. Tudorascu, Greg Siegle, Douglas Mennin, Howard J. Aizenstein

99. Diffusional Kurtosis Imaging of Frontal White Matter in Alcohol-dependent Young Adults with and without Attention Deficit Hyperactivity Disorder

Joseph P. Schacht, Ali Tabesh, Konstantin E. Voronin, Raymond F. Anton

100. APOE Genotype Modulates 1H-MRS Metabolites in the Aging Brain

Jesus J. Gomar, Marc L. Gordon, Peter B. Kingsley, Aziz M. Ulug, Koppel Jeremy, Concepcion Conejero-Goldberg, Peter Davies, Terry E. Goldberg

101. Membrane Phospholipid Turnover in First Degree Relatives of Schizophrenia Subjects

Konasale Prasad, Dhruvan Goradia, Krishna Pancholi, Steven Goodnow, Brent Oliveros, Matcheri Keshavan, Vishwajit Nimgaonkar, Jeffrey Stanley

102. Cortical, Diencephalic and Midbrain Gray Matter Volume in Alcoholism Measured by VBM: Effect of Co-morbid Substance Abuse

Daniel W. Hommer, Erica N. Grodin, Reza Momenan

103. Functional Connectivity between Broca's Area and the Default Mode Network is Associated with Auditory Hallucinations: An FBIRN Study

Judith M. Ford, Steven Potkin, Theo Van Erp, Brian J. Roach, Harshad Shanbhag, Adrian Preda, Ayse Belger, Vince Calhoun, Jessica Turner, Bryon Mueller, F BIRN, Daniel H. Mathalon

Poster Session II—Tuesday

104. Regional Brain Volume in ADHD and its Relationship to Ataxia and Intrasubject Variability

Eve Valera, Thomas Zeffiro, Rebecca Spencer, Nikos Makris, Stephen Faraone, Larry Seidman, Jeremy Schmahmann

105. White Matter Trajectories from Childhood into Late Adulthood

Bart D. Peters, Philip R. Szeszko, Toshikazu Ikuta, Kimberly Cameron, Patricia Gruner, Pamela DeRosse, John Cholewa, Anil Malhotra

106. Stimuli Presentation Modification Improves Diagnostic Accuracy at the Individual Level for Functional MRI Detection of Deception

Steven Laken, Andrew Lai, Kevin Johnson, Paul Morgan, Kimberly Levine, Michael Fernald, Ketan Patel, Kristy Hass, Jennifer Cahill, F. Andrew Kozel

107. A Mechanism of Ventricular Enlargement in an Alcohol Binge Model

Natalie M. Zahr, Edith Sullivan, Adolf Pfefferbaum

108. Sex Differences in the Effect of Childhood Emotional Abuse on Hippocampal Volume

Pamela DeRosse, Erin Samplin, Toshikazu Ikuta, Anil Malhotra, Philip R. Szeszko

109. A Study of Glutamatergic Function in Adolescent Males with High-functioning Autistic Disorder using Magnetic Resonance Spectroscopy: A Pilot Study at 4T

Gagan Joshi, Rachel Goldin, Dave Crowley, Scott Lukas, Atilla Gonenc

**Poster Session II—Tuesday**

110. Intrinsic Connectivity Abnormalities in Social Anxiety

Jennifer Blackford, Jacqueline Clauss, Suzanne Avery, Ross VanDerKlok

111. Brain Response to “Unseen” Cannabis Cues among Cannabis-dependent Individuals

Reagan Wetherill, Julian Bender, Kanchana Jagannathan, Yin Li, Charles P. O’Brien, Anna Rose Childress, Teresa R. Franklin

112. Impact of Genetic Risk for Bipolar Disorder on Emotion Regulation Circuitry in a Population of Symptomatic Youth

Danella Hafeman, Genna Bebko, Michele A. Bertocci, Henry Chase, Susan Perlman, Amanda Hinze, Mary Kay Gill, Christine Demeter, Vaibhav Diwadkar, Jeffrey Sunshine, David A. Axelson, Boris Birmaher, Robert Kowatch, Robert L. Findling, Mary L. Phillips

113. Emotional Face Encoding in Youth at Risk for Bipolar Disorder: A Preliminary fMRI Study

Melissa A. Brotman, Brian L. Bones, Aviva K. Olsavsky, Nancy E. Adleman, Christen M. Deveney, Daniel P. Dickstein, Daniel S. Pine, Ellen Leibenluft

114. Multivariate Analysis of Neural Activity Patterns Measured by Functional MRI Reveals Distinct Signatures of Antipsychotic Drug Action

Thomas Mueggler, Celine Risterucci, Andreas Bruns, Basil Kuennecke, Edilio Borroni, Emilio Merlo Pich, Jean-Luc Moreau, Wettstein G. Joseph, Markus von Kienlin

115. Network-level Disruptions in Intrinsic Functional Connectivity across Psychotic Disorders

Justin T. Baker, Avram J. Holmes, Randy L. Buckner, Dost Ongur

Poster Session II—Tuesday

116. Brain Response to Stress and to Smoking Cues Predicts Relapse to Tobacco Smoking

Christian G. Schütz, Martin Landsberg, Marcel Daamen, Gisela Bopp, Lukas Scheef

117. Greater Activation in the Anterior Cingulate Cortex is Related to Less Social Anxiety in Young Adults at Temperament-based Risk

Jacqueline A. Clauss, Suzanne Avery, Ross VanDerKlok, Jennifer Urbano Blackford

118. Neuroanatomical Correlates of Altered Immune Function in Late-life Depression

Olusola Ajilore, Ghanshyam N. Pandey, Rebecca Charlton, Laura Korthauer, Melissa Lamar, Shaolin Yang, Xinguo Ren, Anand Kumar

119. Naltrexone Modulates Anticipatory Responses to Reward

Tiffany Love, Chelsea Cummiford, Brian J. Mickey, Joseph Heffernan, Evan Chang, Jon-Kar Zubieta

120. Genetic Studies of PTSD in Ohio National Guard Soldiers Deployed to Iraq and Afghanistan: Replication of G x E interaction in FKBP5 and 5-HTTLPR

Anthony P. King, Peng Zhang, Sebastian Zoellner, Michael Camilleri, Sandro Galea, Marijo Tamburrino, Joseph R. Calabrese, Israel Liberzon

121. Auditory Steady State Response and Auditory Cortex Volume Deficits in Schizophrenia

Yoji Hirano, Naoya Oribe, Robert W. McCarley, Kevin M. Spencer

**Poster Session II—Tuesday**

122. Transcriptional Profiling of Multiple Brain Regions from Matched Cohorts of Subjects with Schizophrenia, Bipolar Disorder, and Major Depressive Disorder

Thomas A. Lanz, Simon Xi, Diogo M. Camacho, Susan E. Bove, Veronica Reinhart, Max Kuhn, Phillip Yates, Dmitri Volfson, David A. Lewis, Robin J. Kleiman, Nicholas Brandon

123. High Rate of Rare and of Disease Related Copy Number Variants in Childhood Onset Schizophrenia

Judith L. Rapoport, Kwangmi Ahn, Nitin Gogtay, Peter Gochman, Tiffany Andersen

124. A Factor Analysis of GABAergic Gene Expression across 16 Brain Regions in Human Postmortem Samples Identifies Specificity in Response to Chronic Alcohol and Cocaine Exposure

Mary-Anne Enoch, Basel Baghal, Qiaoping Yuan, David Goldman

125. Caudate Activation Changes and Dose Response during Attention and Learning Tasks in Antipsychotic Treatment Studies of First Episode Schizophrenia

Sarah Keedy, James Reilly, Margret Harris, Jeffrey R. Bishop, Peter Weiden, John Sweeney

126. Buprenorphine Implants for the Treatment of Opioid Dependence: Six and 12 Month Outcomes

Katherine L. Beebe, Steven Chavoustie, Walter Ling, Stacey Sigmon, Deborah Leiderman, Genie Bailey

127. Does the MATRICS Consensus Cognitive Battery Detect Pro-cognitive Effects of Amphetamine in Healthy Adults?

Hsun-Hua Chou, Jo A. Talledo, Sarah N. Lamb, Wesley K. Thompson, Neal R. Swerdlow

Poster Session II—Tuesday

128. Advanced Paternal Age and DNA Methylation Abnormalities in Psychiatric Disease

Maria H. Milekic, Yurong Xin, Anne O'Donnell, Kevin Kumar, John Edwards, Timothy Bestor, Victoria Haghighi, Jay A. Gingrich

129. Distinguishing Bipolar Disorder from Major Depressive Disorder in Adolescents: An FMRI Study

Jill Russo, Fei Wang, Hilary Blumberg

130. Pre-attentive Information Processing and Impulsivity in Bipolar Disorder

Alan C. Swann, Marijn Lijffijt, Scott Lane, Joel Steinberg, F. Gerard Moeller

131. Extracellular Matrix Abnormalities in Olfactory Epithelium Tissue from Subjects Diagnosed with Schizophrenia

Harry Pantazopoulos, Anne Boyer-Boiteau, Steven E. Arnold, Sabina Berretta

132. A Specific Blood Gene Expression Pattern is Correlated with a Neurophysiological Abnormality in Deficit Syndrome of Schizophrenia

Yasushi Kajii, Ikwunga Wonodi, Elliot Hong, Gunvant K. Thaker

133. Neurocognitive Functioning and Impairment in Awareness of Illness in Schizophrenia: Baseline Correlations and Treatment Effects

Philip D. Harvey, Cynthia Siu, Josephine Cucchiaro, Andrei Pikalov, Antony Loebel

134. N-Acetylcysteine in the Treatment of Pediatric Trichotillomania: A Randomized, Double-blind, Placebo-controlled Trial

Michael Bloch, Kaitlyn Panza, Jon E. Grant, James Leckman, Christopher Pittenger

**Poster Session II—Tuesday**

135. Evidence of an Inflammatory Pathway Leading to Psychosis in Bipolar Disorder

Mikael Landén, Carl Sellgren, Magdalena Kegel, Carl-Johan Ekman, Patrick Sullivan, Jordan W. Smoller, Pamela Sklar, Göran Engberg, Sophie Erhardt

136. Psychometric Evaluation of the Brown Assessment of Beliefs Scale in Body Dysmorphic Disorder and Obsessive-Compulsive Disorder

Katharine A. Phillips, Ashley S. Hart, Jane L. Eisen, William Menard, Nicholas J. Sibrava, Steven Rasmussen

137. Polymorphisms within PP-fold Polypeptide Pathway May Contribute to Susceptibility of Eating Disorders and related Endophenotypes

Pei-an Betty Shih, Nicholas Schork, Wade Berrettini, Andrew Bergen, Pierre Magistretti, Cinnamon Bloss, Ashley Van Zeeland, Walter Kaye

138. The Sex Biased Phosphoproteome: A Novel Approach Towards Understanding The Molecular Basis for Sex Differences in Neuropsychiatric Diseases

Rita Valentino, Debra Bangasser, Zach Plona, Hua Ding, Christopher McKennan, Steven Seeholzer

139. Gamma Ventral Capsulotomy for Severe Obsessive-Compulsive Disorder: A Double-blind, Randomized Controlled Trial

Euripedes Constantino Miguel, David Pauls, Benjamin Greenberg, Marcelo Hoexter, Marcelo Batistuzzo, André Gentil, Roseli G. Shavitt, Carlos A. Pereira, Juliana Belo. Diniz, Antonio C. Lopes, Georg Noren, Steven Rasmussen

Poster Session II—Tuesday

140. Resting Regional Cerebral Blood Flow to Predict Relapse in Cocaine Dependent Individuals

Hong Gu, Meredith J. McHugh, Yihong Yang, Conner Shope, Jacquelyn Braud, Michael D. Devous, Richard W. Briggs, N. Robrina Walker, C. Munro Cullum, Elliot A. Stein, Bryon Adinoff

141. Polygenic Variation across the Folate Metabolic Pathway Influences Frontal Cortical Thickness: Implications for Altered Neurodevelopment in Schizophrenia

Joshua L. Roffman, Noah J. Silverstein, Avram J. Holmes, Phil H. Lee, Marisa O. Hollinshead, Jordan W. Smoller, Randy L. Buckner

142. Convergence of Two Key Pathways of Schizophrenia: DISC1-Serine Racemase Interaction in Astrocytes

Mikhail V. Pletnikov, Martin Ma, Sofya Abazyan, Bagrat Abazyan, Akira Sawa, Solomon H. Snyder

143. Effects of Two-week Chronic Treatment with Phendimetrazine or its Primary Active Metabolite, Phenmetrazine, on Choice between Cocaine and Food in Rhesus Monkeys

Matthew L. Banks, Bruce Blough, Steve Negus

144. Altered Functional and Structural Brain Connectivity in First-episode Psychosis

Tom A. Hummer, John D. West, Yang Wang, Nikki Mehdiyoun, Jenifer L. Vohs, Michael M. Francis, Emily Liffick, Brenna C. McDonald, Andrew J. Saykin, Alan Breier

145. Monoamine Oxidase A in Subtypes of Depression: A [C-11] Harmine Positron Emission Tomography Study

Lina Chiuccariello, Sylvain Houle, Laura Miler, Robert G. Cooke, Robert D. Levitan, Stephen J. Kish, Alan A. Wilson, Pablo Rusjan, Jeffrey H. Meyer

Poster Session II—Tuesday

146. Increased Expression of Neurokinin-1 Receptors in the Central Nucleus of the Amygdala Mediates Escalated Alcohol Self-administration and Increased Potency of Neurokinin-1 Receptor Antagonism in Alcohol Preferring P Rats

Jesse R. Schank, Hui Sun, Courtney King, Jenica Tapocik, Estelle Barbier, Kejun Cheng, Kenner Rice, Markus Heilig

147. Major Depressive Disorder is Associated with Abnormal Responses in the Dorsal Mid-insula during Attention to Interoceptive States

William K. Simmons, Jason Avery, Joel Barcalow, Scott Mosemann, Jerzy Bodurka, Wayne C. Drevets

148. Smooth Pursuit Eye Movement, Prepulse Inhibition, and Auditory Paired Stimuli Processing Endophenotypes across the Schizophrenia - Bipolar Disorder

Elena I. Ivleva, Amanda F. Moates, Jordan Hamm, Ira Bernstein, Darwynn Cole, Brett Clementz, Gunvant Thaker, Carol A. Tamminga

149. Adjunctive Topiramate in Patients with Schizophrenia-spectrum Disorders: Results from a Meta-analysis of 9 Randomized Controlled Trials

Christoph U. Correll, Lawrence Maayan, Marc De Hert, Dan Cohen

150. Alcohol-induced Conditioned Place Preference in Healthy Moderate Drinkers

Emma L. Childs, Harriet de Wit

151. Increased Developmental Serotonin Influences Response to Psychotomimetics in Adulthood

Caitlin E. McOmish, Elena Y. Demireva, Natalie A. Diacovo, Alice M. Rolland, Jay A. Gingrich

Poster Session II—Tuesday

152. Epigenetics, Neurodevelopment, and Risk for Anxiety and Depression in Model Rats  
Sarah M. Clinton, Rebecca K. Simmons, Matthew E. Glover, Phyllis C. Pugh, Huda Akil
153. Phospholipase C Signaling within the Central Nucleus of the Amygdala Maintains Binge Alcohol Drinking by Mice  
Justin A. Courson, Emily Lum, Karen K. Szumlinski
154. Juvenile Methylphenidate Interacts with Dopamine and Estrogen Levels to Modulate Dopamine Receptors in Prefrontal Cortex of Female Rats  
Jodi Lukkes, Britta S. Thompson, Kai Sonntag, Susan L. Andersen
155. Ovarian Hormones Modulate Working Memory Related Hippocampal-DPLFC Connectivity in Women - A Positron Emission Tomography (PET) Study  
Katherine Damme, Shau-Ming Wei, Erica Baller, Jeffrey Bloch, Phillip Kohn, Shane Kippenhan, David Rubinow, Pedro Martinez, Peter Schmidt, Karen Berman
156. Effects of Cocaine Self-administration and Extinction on Astrocyte Content and Protein Expression in the Nucleus Accumbens, and Relationship to Reinstatement  
Kathryn Reissner, Heather Boger, Peter Kalivas
157. Effects of Early Prefrontal Cortex NMDA Receptor Dysfunction on Impulsivity in Adulthood  
Janet Finlay, Ginger Dunham, Robert Greene
158. Guided by Your Heart: Cardiac Cycle Modulates the Awareness and Perceived Intensity of Fear Stimuli  
Sarah N. Garfinkel, Hugo D. Critchley

**Poster Session II—Tuesday**

159. Insight, Treatment Outcomes and Recovery in First-episode Schizophrenia

Ofer Agid, Cynthia Siu, Robert B. Zipursky, Gary Remington

160. Precision Delivery of Viral Vectors within Discrete Brain Substructures of the Rodent

Miles G. Cunningham, Sivan Subburaju, Andrew Coleman, Nand Kishore, Francine Benes

161. Genetic Variation in Endocannabinoid Signaling Moderates the Association between Childhood Maltreatment and Amygdala Habituation

Ryan Bogdan, Caitlin E. Carey, Emily M. Drabant, Arpana Agrawal, Sean D. Kristjansson, Ahmad R. Hariri

162. A Randomized, Double-blind, Placebo-controlled Add-on Treatment of Benzoate, a D-Amino Acid Oxidase Inhibitor, for Schizophrenia

Guochuan Emil. Tsai, Hsien-Yuan Lane, Michael F. Green

163. Unlike Serotonin, Clozapine Induced, 5-HT<sub>2A</sub>R-mediated Signaling and Behavioral Events are Beta-Arrestin2 Independent

Cullen L. Schmid, John M. Streicher, Laura M. Bohn

164. Cannabinoid Facilitation of Extinction Recall Via Increased Recruitment of Prefrontal-hippocampal Circuitry in Healthy Humans

Christine A. Rabinak, Mike Angstadt, Chandra Sripada, Mohammed R. Milad, Israel Liberzon, K. Luan Phan

165. Detecting Disease-specific Differences in Mitochondrial Morphology and Distribution in Fibroblasts from Patients with Bipolar, Schizophrenic, and Major Depressive Disorders

Donna L. McPhie, David Logan, Laura Sargent, John-Thomas Berry, Caitlin Ravichandran, Anne Carpenter, Bruce Cohen

Poster Session II—Tuesday

166. Emotional Processing Changes in Depressed Patients following Antidepressant Treatment: An fMRI Study  
Sidney Kennedy, Sakina Rizvi, Jakub Konarski, Jonathan Downar, Roger McIntyre, Tim Salomons
167. Appraisal of Immediate and Delayed Reward is Impaired with Amygdalar-Striatal Abnormalities in Pediatric Bipolar Disorder  
Alessandra M. Passarotti, Minjie Wu, Aneesh Nandam, Mani Pavuluri
168. Depressed Adolescents Show Less Enhancement of Positive Affect and Weaker Fronto-striatal Connectivity while Recalling a Positive Experience  
Dana L. McMakin, Jennifer Silk, Thomas Olino, Ronald Dahl, Kyung Hwa Lee, Erika E. Forbes, Neal Ryan, Greg Siegle
169. Lipid Correlates of Antipsychotic-induced White Matter Changes in First-episode Psychosis  
Philip R. Szeszko, Delbert Robinson, Toshikazu Ikuta, Bart D. Peters, Juan A. Gallego, John Kane, Anil Malhotra
170. Depot-Naltrexone Modulates Limbic Brain Activity and Reduces Smoking In Heroin Dependent Patients  
Daniel D. Langleben, Kanchana Jagannathan, Igor Elman, Catherine P. Koola, An-Li Wang, Shira Blady, Anna Rose Childress, Charles P. O'Brien
171. Dopamine Activity and Reward Processing in Smokers before and after Smoking Cessation: Combined [18F]FDOPA/fMRI Studies  
Lena Rademacher, Susanne Prinz, Katja N. Spreckelmeyer, Oliver Winz, Jörn Schmaljohann, Felix Mottaghy, Ingo B. Vernaleken, Gerhard Gründer

**Poster Session II—Tuesday**

172. Functional Connectivity During Reward Processing in Adolescents with Bipolar I Disorder

Manpreet K. Singh, Ryan G. Kelley, Erica Marie Sanders, Meghan Howe, Ian Gotlib, Kiki Chang

173. Greater MAO-A Binding in Borderline Personality Disorder: An [11C] Harmine PET Study

Nathan J. Kolla, Alan A. Wilson, Sylvain Houle, Paul Links, Shelley McMain, Michael Bagby, Jeffrey H. Meyer

174. Developmental Trajectory of Sensory Cortical Gamma Synchrony Using Steady State Auditory Evoked Potentials

Raymond Y. Cho, Christopher Walker, Nicola Polizzotto, Catherine Fissell, Thomas Wozny, Chi-Ming Chen

175. Subgenual Cingulate Function in Borderline Personality Disorder and Major Depression

Brian J. Mickey, Alexander Andrews, Chelsea Cummiford, Mary Heitzeg, Scott A. Langenecker, Tiffany Love, Benjamin J. Sanford, Kenneth Silk, Jon-Kar Zubieta

176. Chronic HDAC Inhibitor Treatment Alters Brain Glucose Metabolism in Rats: Examining 18F-Fluorodeoxyglucose Uptake with Positron Emission Tomography

Frederick A. Schroeder, Michael Granda, Anna Cha, Chris Moseley, Stephen J. Haggarty, Jacob M. Hooker

177. Experimentally Delayed Puberty Interacts with Social Stress to Produce Widespread Effects on the Development of Brain White Matter Tracts and Behavior in Rhesus Monkeys

Jodi R. Godfrey, Brittany Howell, Xiaodong Zhang, Govind Nair, Xiaoping Hu, Mark Wilson, Mar Sanchez

Poster Session II—Tuesday

178. Regional Analysis of Naltrexone Effects on Mu-Opioid Availability In Vivo

Chelsea Cummiford, Tiffany Love, Robert Koeppe, Jon-Kar Zubieta

179. Multivariate Pattern Classification Reveals Distributed Effects of Oxycodone on the Resting Brain Connectome in Humans

Chandra Sripada, Daniel Kessler, Mike Angstadt, Robert C. Welsh, Scarlet Guo, K. Luan Phan

180. Effects of Levodopa-Carbidopa-Entacapone on Neural Responses to Cocaine-related Stimuli and Non-drug Rewards in Regular Cocaine Smokers

Gillinder Bedi, Nehal P. Vadhan, Edward V. Nunes, Richard W. Foltin, Adam Bisaga

181. Evocative Cues Trigger Limbic Motivational Circuits and Differentially Disrupt “Cognitive Control” in Real-time Functional Magnetic Resonance Imaging

Anna Rose Childress, Jeremy Magland, Oscar Bartra, Jessie Lupardus, Robert Fabianski, Shing Chun Lam, Kimberly Young, Jesse Suh, Teresa Franklin, Daniel Langleben, Charles P. O’Brien

182. Anomalous Insula - Amygdala Functional Connectivity in Borderline Personality Disorder Patients is Associated with Impaired Psychological Habituation to Negative Stimuli

Harold W. Koenigsberg, Bryan Denny, Jin Fan, Xun Liu, Liza Rimsky, Hannah Pakray, Antonia S. New, Larry J. Siever

183. Effects of GABAergic Manipulation of Resting State Brain Networks in Psychotic and Healthy Subjects: A Connectomic Pattern Classification Analysis

Chandra Sripada, Robert C. Welsh, Daniel Kessler, K. Luan Phan, Stephan F. Taylor

**Poster Session II—Tuesday**

184. Pretreatment Orbitofrontal Thickness as a Measure to Classify Patients with Obsessive-Compulsive Disorder in Responders and Non-responders

Marcelo Q. Hoexter, Antonio C Lopes, Roseli G. Shavitt, Marcelo Batistuzzo, Darin D Dougherty, Fabio L S Duran, Juliana Belo Diniz, Geraldo F Busatto, Euripedes C Miguel, Rodrigo A Bressan, João R Sato

185. Amygdala, Prefrontal Cortex, and Cingulate Relationships in Combat Veterans with Traumatic Brain Injury and Post-Traumatic Stress Disorder

Monte S. Buchsbaum, Alan Simmons, Alex DeCastro, Scott Matthews

187. Association of Glutamate and N-Acetylaspartate in Schizophrenia Before and after Treatment with Risperidone: A Proton Magnetic Resonance Spectroscopy Study

Adrienne C. Lahti, Meredith A. Reid, Nina V. Kraguljac, David M. White, Jan den Hollander

188. Multimodal Neuroimaging Correlates of Repetitive Mild Traumatic Brain Injury in Iraq and Afghanistan War Veterans

Eric C. Petrie, Donna J. Cross, Vasily Yarnykh, Todd Richards, Nathalie Martin, Satoshi Minoshima, Murray A. Raskind, Elaine R. Peskind

189. Early Life Stress and Functional Connectivity within Major Depression

Merida Grant, Jennifer Hadley, David M. White, Richard C. Shelton

190. Dopaminergic Activity and Altered Reward Modulation in Anorexia Nervosa

Ursula F. Bailer, Julie C. Price, Carolyn C. Meltzer, Angela Wagner, Chester A. Mathis, Walter H. Kaye

Poster Session II—Tuesday

191. Imaging Emotion Circuits to Predict Treatment Outcomes in Major Depressive Disorder: The International Study to Predict Optimized Treatment in Depression

Leanne Williams, Mayuresh Korgaonkar, Yun Ju Song, Sarah Eagles, Anthony Harris, Stephen Koslow, Stuart Grieve, Amit Etkin

192. Strength of Frontal-hippocampal Functional Coupling Predicts Hippocampal Responses during Fear Learning in Schizophrenia

Garth Coombs, Donald Goff, Mohammed R. Milad, Daphne J. Holt

193. Functional Connectivity in Ventromedial Prefrontal Cortex is Altered in Depression: A Novel Biomarker Supported by Parallel Rodent and Human Neuroimaging Studies

Conor Liston, Logan Grosenick, Karl Deisseroth, Wenbiao Gan, Marc Dubin

194. In Vivo Serotonin Transporter Binding Predicts Reactivity to Emotional Conflict in Prefrontal Cortex

Julia Sacher, Swen Hesse, Marianne Patt, Georg Becker, Franziska Moeller, Karsten Mueller, Matthias L Schroeter, Arno Villringer, Osama Sabri

195. The Autism Brain Imaging Data Exchange: Towards Large-scale Evaluation of the Intrinsic Brain in Autism

Adriana Di Martino, ABIDE Consortium

196. The Efficacy of an Adenovirus-based Anti-cocaine Vaccine to Reduce Cocaine Self-administration in Rhesus Monkeys using a Choice Procedure

Suzette M. Evans, Richard W. Foltin, Martin J. Hicks, Jonathan B. Rosenberg, Bishnu P. De, Kim D. Janda, Stephen M. Kaminsky, Ronald G. Crystal

**Poster Session II—Tuesday**

197. Controlled Trial of Cognitive Remediation in Psychotic Bipolar Disorder: Feasibility, Tolerability, and Development of a Web-based Computer Control

Kathryn E. Lewandowski, Bruce Cohen, Sarah Sperry, Dost Ongur, Matcheri Keshavan

198. Exercise Improves Physical Capacity in Obese Patients with Schizophrenia: Pilot Study

Martin T. Strassnig, John W. Newcomer, Philip Harvey

199. Is Repetitive Transcranial Magnetic Stimulation Effective in Treatment Resistant Depression?: A Systematic Review

Bradley N. Gaynes, Stacey Lloyd, Linda Lux, Gerald Gartlehner

200. Functional Connectivity of Attention Network Relates to Drink Volume in Youth

Barbara Weiland, Robert Welsh, Mary Soules, Crosby Modrowski, Robert Zucker, Jon-Kar Zubieta, Mary Heitzeg

201. Comparison of the Neurocognitive Effects between Acute Course Magnetic Seizure Therapy and Electroconvulsive Therapy: A Preliminary Report

Shawn M. McClintock, Mustafa M. Husain, C. Munro Cullum, Bruce Luber, Paul Croarkin, Angel Peterchev, Kenneth Trevino, Mohamed Aly, Louis Stool, Ahmad Raza, Sarah Lisanby

202. Electroconvulsive Therapy Potentiates the Inhibition of Gamma Oscillations in Treatment Resistant Depression

Mera S. Barr, Lakshminarayan V. Chinta, Natasha Radhu, Marina V. Frantseva, Daniel M. Blumberger, Andrea J. Levinson, Zafiris J. Daskalakis

Poster Session II—Tuesday

203. Changes in Default Mode Resting State fMRI Following ECT in Major Depression

Georgios Petrides, Miklos Argyelan, Styliani Kaliora, Philip R. Szeszko

204. Prefrontal rTMS Versus tDCS Effects on Perceived Controllability and the Emotional Dimension of Pain: Implications for Mechanisms of Technology-specific Action

Jeffrey J. Borckardt, Scott Reeves, Alok Madan, Jennifer Naylor, Sarah Fredrich, Heather Frohman, Kelly Barth, Mark S. George

205. Oxytocin Differentially Decreases Methamphetamine Intake and Reinstatement to Methamphetamine Seeking in Male and Female Rats

Carmela M. Reichel, Brittney Cox, Amy Young, Ronald E. See

206. Maternal Experience Affects Drug Abuse Vulnerability in the Female Rat

Jennifer Cummings, Jill B. Becker

207. Phenotypic Heterogeneity Reduces the Power of Genomewide Association Studies

Martin Alda, Jeff Cullis, Mirko Manchia, Rudolf Uher

208. Assessing Motivation in Schizophrenia in a Virtual Environment: Development of a Novel Ecologically Valid, Objective Assessment Methodology

George Foussias, Ishraq Siddiqui, Nasteo Hasan, Krysta McDonald, Sathesan Thavabalasingam, Christina Plagiannakos, John Zawadski, Konstantine K. Zakzanis, Paul Fletcher, Albert Wong, Gary Remington

**Poster Session II—Tuesday**

209. Brain Region Specific Circadian Disruptions in a Mouse Model of Major Depressive Disorder

Nicole Edgar, Andrea Gillman, Colleen A. McClung

210. Sex, Stress and Cocaine: Role of Corticotropin Releasing Factor in Behavioral and Dopaminergic Sensitization to Cocaine

Elizabeth N. Holly, Akiko Shimamoto, Joseph F. DeBold, Klaus A. Miczek

211. Sex Differences in Fear Extinction in Men and Women Exposed to Trauma

Sabra S. Inslicht, Thomas Metzler, Mohammed R. Milad, Scott P. Orr, Charles R. Marmar, Thomas Neylan

212. Expression Patterns of Genes Hemideleted in Williams Syndrome: Developmental and Allelic Variation Effects in Human Brain

Chao Li, Barbara Lipska, Thomas M. Hyde, Ran Tao, Shane Kippenhan, Andrew Jaffe, Liqin Wang, Tianzhang Ye, Carlo Colantuoni, Bhaskar S. Kolachana, Venkata S. Mattay, Daniel R. Weinberger, Joel E. Kleinman, Karen F. Berman

214. Frontostriatal Activation Abnormalities during Sustained Attention and Inhibitory Control among Patients with Late Life Depression

Sara L. Weisenbach, Bridget Cornett, Erich Avery, Brennan Haase, Jon-Kar Zubieta, Scott Langenecker