

The NKI Informer



A newsletter of the Nathan S. Kline Institute for Psychiatric Research

Donald C. Goff, MD, Director
Antonio Convit, MD, Deputy Director
Thomas O'Hara, MBA, Deputy Director, Institute Administration

March / April, 2016

Stuart Moss, MLS, Editor

End of an Era as Long Time Statistical Researchers Move on – Part Two ***Carole Siegel***

As noted [in the previous issue](#), Drs. Carole Siegel and Morris Meisner joined Gene Laska at the Rockland Research Institute in the mid-1960's. This installment continues the story of the "industrial triplets," recapping some highlights of Carole's career at NKI.

Over the years, **Carole Siegel** enlarged the activities of the Multistate Information System (MSIS) epidemiological group to encompass a broader arena of services research, and created (along with colleague Ann Goodman) one of the first multi-disciplinary mental health services research groups in the country. She eventually received 20 grants and contracts from NIMH, SAMHSA, AHRQ, NYC, and NYS to conduct services research studies. For nine years, she headed a Center for the Study of Issues in Public Mental Health, one of seven NIMH supported Services Research Centers in the US. It was a collaboration between the central office of the NYS Office of Mental Health, New York University, and the State University of Albany.

Carole's administrative role as deputy director of the NKI World Health Organization Collaborating Center led to work on data collection and analysis methodologies for use by developing countries to monitor their mostly nascent mental health services. She directly participated in projects including the development of community survey and computer system methods for collecting mental health data in developing countries, and the analysis of the international data on the long



Top: Joe Wanderling; Kris Jones; Dixianne Penney; Evelyn Whalen
Row 2: Butterflies painted by a consumer; Eugene Laska;
Judy Samuels; Dei-in Tang & Shang Lin
Row 3: Ilyssa Berg; Gary Haugland; Mary Jane Alexander; Carole Siegel
Bottom: Rheta Bank with Carl Taube (NIMH) & Jim Robinson;
Morris Meisner; Kim Hopper; Joe Wanderling

term course and outcome of schizophrenia. Over the past nine years, she headed the NYS OMH-funded Center of Excellence in Culturally Competent Mental Health. She introduced a holistic framework for operationalizing cultural competency that covers not only providers' cultural awareness and the cultural appropriateness of the services they deliver, but emphasizes the importance of top-down cultural competence emanating from organizational policies and procedures.

She has lectured extensively both nationally and internationally; was an elected member of the Council of the Mental Health Section of the American Public Health Association (APHA); and has served on numerous advisory committees, including an NIMH Services Research Subcommittee. In 2001 she was awarded APHA's Mental Health Section's services research Carl

Taube Award. She has promoted young talent, encouraging them to aim high, and takes particular pride in the achievements of those whom she has mentored.

Carole has worked extensively with fellow statisticians Gene Laska, Morris Meisner, and Joseph Wanderling. She also enjoys the ability to cross walk between disciplines, allowing her to pair with research content persons such as psychologist Mary Jane Alexander, economist Kristine Jones, sociologist Gary Haugland, and anthropologist Kim Hopper. Her background in operations research has informed much of her work that aims to stochastically model complex situations so that critical parameters impacting outcomes can be discerned and measured – as exemplified in her post-9/11 work on mental health disaster planning).

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The Statistical Sciences and Epidemiology Division (SSED) in 1993.

From left to right: Shang Lin, Joe Wanderling, Eugene Laska, Evelyn Whalen, Gary Haugland, Kristine Jones, Howard Kushner, Ann Goodman, Rheta Bank, David Bertollo, Kim Hopper (with Bear), Morris Meisner, Carole Siegel, Mary Stebbins, and Dei-In Tang

The measurement of fairness and equity in the delivery of health services has been thematic in her statistical work. Early on, under contract to NIMH, she conducted an evaluation of the equity of mental health service delivery using Lorenz curves and Gini coefficients as equity metrics. Work on capitated payment schemes used a Bayesian and economic framework to develop a blended payment that increased the fairness of premiums not only from a consumer perspective but also minimized the chance that providers would unduly suffer by luck of the draw. Current work has focused on the development of instruments and statistical performance measures of “cultural competency” in mental health care delivery, and recently for managed care companies and other integrated health care models in which service populations are comprised of diverse cultural groups.

Her interest in metrics to measure achievement of desirable social goals is exemplified by her work on the construction for NYC of Indices of Mental Health and Social and Mental Well Being of a community. The Indices are based on an input/output model that relates socioeconomic conditions and services to need, and services to outcomes. The Indices were operationalized from 1991 to 1995. In 1997, *The New York Times* [featured a story on this project](#) on the first page of its Metropolitan section. More recent collaborative work with Gene and Morris encompasses multivariate cost effectiveness analysis; counting methodologies applied to count the homeless and to de-duplicate counts of veterans who are cross system users; and clinical trial statistical approaches to measure onset and duration.

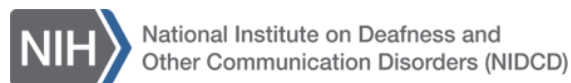
Looking ahead, Carole will be working in the NYU Department of Psychiatry as a research statistician in the [Cohen Veterans Center for the Study of Post-Traumatic Stress and Traumatic Brain Injury](#). She and Gene will work with ‘big data’ sets in a search for predictors of diverse PTSD trajectories and the identification of unique phenotypes. She also will be more actively pursuing her work as a ceramicist, and participating in community work to expand the audience for clay arts among cultural groups, the disabled, and the elderly. Her grandchildren continue to teach her new things.



Colleagues and friends of the NKI Center of Excellence in Culturally Competent Mental Health

Top row: Jennifer Hernandez; Elitisha Kirnon, Emy Murphy, Roberto Lewis Fernandez, Frances Priester Moss, Carole Siegel, Carol Lanzara, & Lenora Reid-Rose. 2nd row: Bill Zuk & Gary Haugland; Carole Siegel, Onaje Muid, Lenora Reid-Rose & Sandra Miller

GRANTS AND FUNDING



Yoshinao Kajikawa (Schizophrenia Research) has received a 1 year R56 Grant entitled [“Neurophysiology, behavioral role and organization of the auditory parabelt”](#) from the National Institute on Deafness and Other Communication Disorders.



Charles Schroeder (Schizophrenia Research) has received a 2 year R21 Grant entitled [‘Control of thalamocortical entrainment: Harnessing brain rhythms in behavior & cognition’](#) from the National Institute of Mental Health.

Shirley and William S. McIntyre Foundation

Robert Sears (Emotional Brain Institute) has received a 1 year grant entitled ‘Molecular underpinnings of orexin-mediated regulation of anxiety and anxiety-related behaviors’ from the McIntyre Foundation.

FROM AROUND THE INSTITUTE



C-BIN Director **Michael Milham** was [featured on WNYC news](#) on February 19th. The report covered the recently launched effort to acquire MRI scans of the brains of 10,000 New York City children.



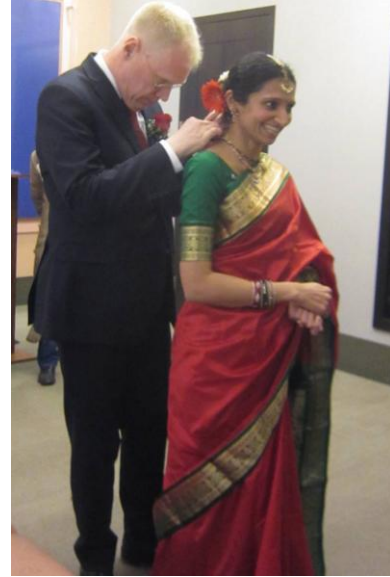
The 2015 NYU Langone [Department of Psychiatry Year In Review](#) includes a section on the department's work in "Addiction: Exploring the Causes, Finding Solutions". Two NKI scientists, **Crystal Fuller Lewis, PhD**, and **Helena Hansen, MD, PhD** (SSSR) are featured, for their work on harm reduction and on the social forces impacting addiction, respectively.

The New York Times

Dr. Hansen also coauthored [this letter](#) published in *The New York Times*, pointing out the role of institutional racism in the decline in life expectancy among whites.

GigaBlog

Cameron Craddock (C-BIN) contributed this [guest blog](#) to the GigaBlog, which is connected to the open access journal *GigaScience* (in which Dr. Craddock published [an article](#) last year). The blog post highlights open science efforts in neuroimaging.



Sloka Iyengar and Michael Tanksley were married in January at City Hall. Sloka worked in the Scharfman lab at NKI until last year. After a stint at the Northeast Regional Epilepsy Group, she is currently freelancing as a medical writer. Michael is an IT specialist at Bloomberg.

Michael's mother and sisters from Spokane, WA and Las Vegas, and Sloka's brother from Los Angeles were in attendance. The ceremony was Western and Indian. After exchanging the rings, Michael tied the wedding necklace. Since both were willing to give up their last names, they compromised by both keeping them.

In Memoriam

Maurice Green, MD, who had a long and distinguished career in psychiatry and psychoanalytic research and teaching, passed away on January 21 at the age of 93. He [coauthored one book](#) and edited several others, and published many journal articles. Dr. Green was a Life Fellow of the American Psychiatric Association. He was affiliated with the William Alanson White Institute and with New York University. Later in his career, he had ties with NKI and published several papers with NKI investigators.

COMPLIANCE CORNER



By *Challace Pahlevan, MS, CIP*
Compliance Director

Compliance Corner is a new feature of the *NKInformer* intended to highlight various compliance-related matters pertinent to the research enterprise at NKI.

Investigational New Drug (IND) & Investigational Device Exemption (IDE) Assistance Program Launched

The Compliance Oversight Program announces the establishment of an IND/IDE Assistance Program to assist investigators holding an IND or IDE at all states of an investigation. Specifically, the IND/IDE assistance program will:

- Help determine if an Investigator-Initiated protocol potentially requires an IND or IDE prior to grant submission or IRB review;
- Provide education to investigators regarding their regulatory responsibilities as the sponsors of INDs or IDEs;
- Provide guidance in the preparation and submission of sponsor-investigator IND or IDE requirements;
- Provide regulatory assistance during FDA inspections of sponsor-investigator clinical trials.

An [IND Decision Worksheet](#) and an [IDE Decision Worksheet](#) have been linked to myNKI, under Institutional Review Board.

Please [contact Challace Pahlevan](#), Compliance Director, if you have any questions or would like to discuss your protocol in further detail.

PUBLICATIONS OF NOTE



Helena Hansen (SSSR) coauthored this paper examining institutionalized racism in the area of drug addiction and policy.

Netherland J, Hansen H. [White opioids: Pharmaceutical race and the war on drugs that wasn't](#). BioSocieties 2016.

CURRENT NEUROPHARMACOLOGY

NKI Director **Donald Goff**'s recent paper on the use of d-cycloserine in schizophrenia appears in *Current Neuropharmacology*.

Goff DC. [D-cycloserine in schizophrenia: New strategies for improving clinical outcomes by enhancing plasticity](#). *Curr Neuropharmacol*. 2016 Feb 25.



Babak Ardekani, Antonio Convit, and Alvin Bachman have a new paper in the *Journal of Alzheimer's Disease*. Dr. Ardekani elaborates:

"Using a publicly available database (MIRIAD), the paper shows that hippocampus atrophy in AD progresses at a faster rate in females. We also report a new measure, hippocampal volumetric integrity (HI), that we have developed for characterizing hippocampus atrophy using structural MRI data."

Ardekani BA, Convit A, Bachman AH. [Analysis of the MIRIAD Data Shows Sex Differences in Hippocampal Atrophy Progression](#). *J Alzheimers Dis*. 2016 Jan 13; 50(3):847-57.

Neuron

Elizabeth Phelps (Emotional Brain Institute), with colleagues from NYU and Yale, published this work on memory and attention in *Neuron*.

Goldfarb EV, Chun MM, Phelps EA. [Memory-Guided Attention: Independent Contributions of the Hippocampus and Striatum](#). *Neuron*. 2016 Jan 12.

Drugs

Dr. Jean-Pierre Lindenmayer (Manhattan Psychiatric Center) published a review on the management of schizoaffective disorder.

Lindenmayer JP, Kaur A. [Antipsychotic Management of Schizoaffective Disorder: A Review](#). *Drugs*. 2016 Feb 29.

NEUROCHEMICAL RESEARCH

Abel Lajtha (Neurochemistry) founded *Neurochemical Research* [40 years ago](#). He served as Editor in Chief until 2011, and published [many papers in that forum](#) throughout his career. The first print issue for 2016 includes a commemorative article by Dr. Lajtha, as well as a research paper by **Henry Sershen** and other NKI investigators. Dr. Sershen is Managing Editor of the journal.

Lajtha A. [Letter from Abel Lajtha on Occasion of the 40th Anniversary of Neurochemical Research](#). *Neurochem Res*. 2016 Feb 23.

Sershen H, Hashim A, Dunlop DS, Suckow RF, Cooper TB, Javitt DC. [Modulating NMDA Receptor Function with D-Amino Acid Oxidase Inhibitors: Understanding Functional Activity in PCP-Treated Mouse Model](#). *Neurochem Res*. 2016 Feb 8.

EUROPEAN PSYCHIATRY

THE JOURNAL OF THE EUROPEAN PSYCHIATRIC ASSOCIATION

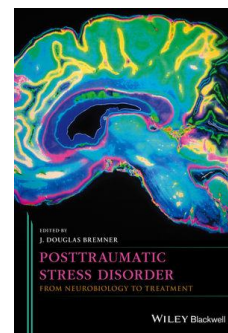
Vilma Gabbay (Child & Adolescent Psychiatry) is the senior author of this paper on certain brain makers in adolescent depression.

Bradley KA, Mao X, Case JA, Kang G, Shungu DC, Gabbay V. [Increased ventricular cerebrospinal fluid lactate in depressed adolescents](#). *Eur Psychiatry*. 2016 Feb;32:1-8.

JINS

Michael Milham (C-BIN), with **Xavier Castellanos** (Child & Adolescent Psychiatry) and others, wrote about the potential of longitudinal imaging study designs in psychiatry.

Koyama MS, Di Martino A, Castellanos FX, Ho EJ, Marcelle E, Leventhal B, Milham MP. [Imaging the "At-Risk" Brain: Future Directions](#). *J Int Neuropsychol Soc*. 2016 Feb;22(2):164-79.



Christopher Cain and **Regina Sullivan** (Emotional Brain Institute) contributed a chapter to this recently published [textbook](#) on PTSD.

Cain C, Sullivan R. [Amygdala contributions to fear and safety conditioning: insights into PTSD from an animal model across development](#). In: Bremner JD, editor. *Posttraumatic Stress Disorder: From Neurobiology to Treatment*. Hoboken, NJ: Wiley-Blackwell; 2016. p. 81-104.



Donald Wilson (Emotional Brain Institute) and NKI colleagues authored this paper on the relationship between fetal alcohol exposure, sleep fragmentation, and cognitive impairment. For more about this research, see the NYU press release [here](#).

Wilson DA, Masiello K, Lewin MP, Hui M, Smiley JF, Saito M. [Developmental ethanol exposure-induced sleep fragmentation predicts adult cognitive impairment](#). *Neuroscience*. 2016 Feb 15;322:18-27.



Ralph Nixon and colleagues in the **Center for Dementia Research** published their latest research in *Neurobiology of Aging*.

Jiang Y, Rigoglioso A, Peterhoff CM, Pawlik M, Sato Y, Bleiwas C, Stavrides P, Smiley JF, Ginsberg SD, Mathews PM, Levy E, Nixon RA. [Partial BACE1 reduction in a Down syndrome mouse model blocks Alzheimer-related endosomal anomalies and cholinergic neurodegeneration: role of APP-CTF](#). *Neurobiol Aging*. 2016 Mar;39:90-8.



This paper by **Korey Kam** and other members of the **Scharfman Lab** (CDR) appears in *Scientific Reports*, an open access journal from the Nature Publishing Group.

Kam K, Duffy ÁM, Moretto J, LaFrancois JJ, Scharfman HE. [Interictal spikes during sleep are an early defect in the Tg2576 mouse model of \$\beta\$ -amyloid neuropathology](#). *Sci Rep*. 2016 Jan 28;6:20119.



Menahem Krakowski, with coauthors currently or formerly at NKI, published his latest research on schizophrenia and violence in *Schizophrenia Bulletin*. Also recently appearing in that journal is a study of the cost-effectiveness of integrated care in early psychosis treatment, coauthored by **James Robinson** (ISD).

Krakowski MI, De Sanctis P, Foxe JJ, Hoptman MJ, Nolan K, Kamiel S, Czobor P. [Disturbances in Response Inhibition and Emotional Processing as Potential Pathways to Violence in Schizophrenia: A High-Density Event-Related Potential Study](#). *Schizophr Bull*. 2016 Feb 19.

Rosenheck R, Leslie D, Sint K, Lin H, Robinson DG, Schooler NR, Mueser KT, Penn DL, Addington J, Brunette MF, Correll CU, Estroff SE, Marcy P, Robinson J, Severe J, Rupp A, Schoenbaum M, Kane JM. [Cost-Effectiveness of Comprehensive, Integrated Care for First Episode Psychosis in the NIMH RAISE Early Treatment Program](#). *Schizophr Bull*. 2016 Jan 31.

The NKI librarian is always available to assist with literature searching, citation searching (Web of Science, Scopus), bibliographic reference management, and the like. When you have any information needs, or questions about available resources, don't hesitate to turn to us.

The library still offers a comfortable, quiet space for reading, work, and small meetings. And we now have Wi-Fi. Just ask the library staff for the password.

You can [link to the NKI Library's website](#) from myNKI. The Library site includes quick links to the NYU Health Sciences Library and to the New York State Library, as well as links to NKI's own library resources ([journal finder](#), [online catalog](#), [PsychiatryOnline](#), etc.). Remote access is available using NKI's VPN.

INFO UPDATE



Two versions of the *Merck Manual* are freely available online. Click [here](#) for the professional version, or [here](#) for the consumer version (written in everyday language).



The NIH has redesigned its Grants and Funding website, Grants.nih.gov. You can take a video tour of the newly simplified site [here](#).

Tooting Your Own Horn

With the advent and development of various “altmetrics”, there are now a range of ways to think about and measure research impact. And along with this new (online and social) research environment have come new ways of promoting your work. Here are a few resources to get you started:

- A colorful summary of “[Tips and Tricks](#)” from the company [Altmetric](#).
- A [guide](#) to tracking the impact of your papers from the [Impactstory blog](#).
- The toolkit available from [Kudos](#) to help you broaden readership and increase your impact.



[Neuroonline](#) is the Society for Neuroscience’s forum for professional development and discussion. Among other things, you can explore [scientific research](#) topics and get [career advice](#). The site can also be navigated by audience, including graduate student, postdoctoral, early career, etc.



A new book – [Positive Psychiatry: A Clinical Handbook](#) – is now available on PsychiatryOnline. This volume aims to introduce clinicians to the guiding principles of positive psychiatry, which hold that mental health cannot be defined as the mere reduction or even elimination of mental illness, and that mental health professionals must focus on more than simply controlling the symptoms of illness.

In addition, three new sections of APA Publishing's patient and family resource [Understanding Mental Disorders: A Patient and Family Resource](#) are now available. The sections on ADHD, autism, and OCD were recently added; sections on anxiety disorders and addictive disorders are coming soon.

DEPARTMENT OF WONDER

Score One for the Computers

The latest edition of “man vs. computer” played out recently in South Korea when an elite Go player, Lee Sedol, took on AlphaGo, Google’s [DeepMind](#) computer program. The match did not end well for the humans, with AlphaGo winning 4 games to 1. But the problem for people may go beyond any particular match or challenge (Go or chess or poker, etc.). Some have suggested that artificial intelligence may in fact pose an existential threat to humanity. For a bit of background on this topic, you can read these articles from [Observer](#), [Wikipedia](#), and [Sam Harris](#).

NKI ON THE ROAD



In January, the NYU Master Scholars Program in Humanistic Medicine and the Department of Psychiatry hosted a special event entitled “Alcoholism: Treatment and Recovery”. The evening included a live performance of scenes from the award-winning play *Bill W. and Dr. Bob*, about the founding of Alcoholics Anonymous, followed by a panel discussion. **Dr. Helena Hansen** (Social Solutions and Services) participated in the panel along with other NYU faculty and one of the authors of the play. You can view a video of the event [here](#).



On March 18, NKI Director **Donald Goff, MD**, was the NYU Child Study Center Grand Rounds presenter. The topic of his talk was “Helpful or Hurtful? Antipsychotics in Early Psychosis”.

UPCOMING EVENTS AND SEMINARS

NKI PRESENTS

Dan V. Iosifescu, MD, MSc

Director of Adult Psychopharmacology
Mount Sinai Behavioral Health System
Associate Professor of Psychiatry and Neuroscience
Icahn School of Medicine at Mount Sinai

The Search for Novel Treatments in Mood Disorders: The Mount Sinai Experience

Monday, April 11th, 2 pm

Conference Room B

Hosted by Donald Goff, MD



Center for Biomedical Imaging and Neuromodulation Presents

David V. Smith, PhD

Department of Psychology, Rutgers University
Brain Connectivity Shapes Responses to Social and Economic Incentives

Monday, April 11th, 11 am

Peter Lakatos, MD, PhD

Research Scientist, NKI
Dynamics and function of neuronal oscillatory entrainment in the auditory system

Monday, April 18th, 11 am

Adriana Di Martino, MD

Leon Levy Assistant Professor of Child and Adolescent Psychiatry, NYU Child Study Center

Revealing the Autism Connectome with Brain Imaging

Monday, April 25th, 11 am

Hwamee Oh, PhD

Assistant Professor of Neuropsychology
Columbia University

Multimodal Neuroimaging Investigation of Alzheimer’s Disease Pathology in Cognitively Normal Older Adults

Monday, May 2nd, 12 noon



Center for Dementia Research Seminar Series

Held on Thursdays at 10 am

Masuo Ohno, PhD

Center for Dementia Research, NKI
Department of Psychiatry, NYU

Preclinical perspective on efficacy and potential limitation of BACE1 inhibition in Alzheimer's therapy

Thursday, April 21st

Paul Mathews, PhD

Center for Dementia Research, NKI
Department of Psychiatry, NYU

Title TBD

Thursday, May 5th

Joanna Jankowsky, PhD

Department of Neuroscience
Baylor College of Medicine

Title TBD

Thursday, May 19th

Dun-Sheng Yang, PhD

Center for Dementia Research, NKI
Department of Psychiatry, NYU

Title TBD

Thursday, May 26th

The New York State Office of Mental Health (OMH) hosts a monthly interactive video broadcast covering the latest research, technology and treatment implementation in the fields of psychiatry and psychology. These programs are recorded, and the archived Statewide Grand Rounds programs can be viewed by OMH employees [on the OMH intranet](#). Anyone can view the programs [on the OMH website](#).

NKI PUBLICATIONS UPDATE

Below is a list of references that have been added to the NKI publications database since the previous update. The full database contains over 5,000 items dating back to 1995, and can be searched from the [NKI web site](#).

Ardekani BA, Convit A, Bachman AH. Analysis of the MIRIAD Data Shows Sex Differences in Hippocampal Atrophy Progression. *J Alzheimers Dis.* 2016 Jan 13; 50(3):847-57.

Bradley KA, Mao X, Case JA, Kang G, Shungu DC, Gabbay V. Increased ventricular cerebrospinal fluid lactate in depressed adolescents. *Eur Psychiatry.* 2016 Feb;32:1-8.

Cawkwell P, Lawler A, Maneta E, Coffey BJ. Staying Up at Night: Overlapping Bipolar and Obsessive-Compulsive Disorder Symptoms in an Adolescent with Autism Spectrum Disorder. *J Child Adolesc Psychopharmacol.* 2016 Feb;26(1):74-7.

Chhetry BT, Hezghia A, Miller JM, Lee S, Rubin-Falcone H, Cooper TB, Oquendo MA, Mann JJ, Sublette ME. Omega-3 polyunsaturated fatty acid supplementation and white matter changes in major depression. *J Psychiatr Res.* 2016 Apr;75:65-74.

Gillan CM, Kosinski M, Whelan R, Phelps EA, Daw ND. Characterizing a psychiatric symptom dimension related to deficits in goal-directed control. *Elife.* 2016 Mar 1;5. pii: e11305.

Goff DC. D-cycloserine in schizophrenia: New strategies for improving clinical outcomes by enhancing plasticity. *Curr Neuropharmacol.* 2016 Feb 25.

Goldfarb EV, Chun MM, Phelps EA. Memory-Guided Attention: Independent Contributions of the Hippocampus and Striatum. *Neuron.* 2016 Jan 12.

Gunnar MR, Sullivan RM. The Neurodevelopment of Social Buffering and Fear Learning: Integration and Crosstalk. *Soc Neurosci.* 2016 Feb 12.

Hashimoto K, Bruno D, Nierenberg J, Marmar CR, Zetterberg H, Blennow K, Pomara N. Abnormality in glutamine-glutamate cycle in the cerebrospinal fluid of cognitively intact elderly individuals with major depressive disorder: a 3-year follow-up study. *Transl Psychiatry*. 2016 Mar 1;6:e744.

Jiang Y, Rigoglioso A, Peterhoff CM, Pawlik M, Sato Y, Bleiwas C, Stavrides P, Smiley JF, Ginsberg SD, Mathews PM, Levy E, Nixon RA. Partial BACE1 reduction in a Down syndrome mouse model blocks Alzheimer-related endosomal anomalies and cholinergic neurodegeneration: role of APP-CTF. *Neurobiol Aging*. 2016 Mar;39:90-8.

Kam K, Duffy AM, Moretto J, LaFrancois JJ, Scharfman HE. Interictal spikes during sleep are an early defect in the Tg2576 mouse model of β -amyloid neuropathology. *Sci Rep*. 2016 Jan 28;6:20119.

Kerker BD, Storfer-Isser A, Stein RE, Garner A, Szilagyi M, O'Connor KG, Hoagwood KE, Horwitz SM. Identifying Maternal Depression in Pediatric Primary Care: Changes Over a Decade. *J Dev Behav Pediatr*. 2016 Feb-Mar;37(2):113-20.

Klionsky DJ, Abdelmohsen K, Abe A, Abedin MJ, Abeliovich H, et al. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*. 2016 Jan 2;12(1):1-222.

Koyama MS, Di Martino A, Castellanos FX, Ho EJ, Marcelle E, Leventhal B, Milham MP. Imaging the "At-Risk" Brain: Future Directions. *J Int Neuropsychol Soc*. 2016 Feb;22(2):164-79.

Krakowski MI, De Sanctis P, Foxe JJ, Hoptman MJ, Nolan K, Kamiel S, Czobor P. Disturbances in Response Inhibition and Emotional Processing as Potential Pathways to Violence in Schizophrenia: A High-Density Event-Related Potential Study. *Schizophr Bull*. 2016 Feb 19.

Lajtha A. Letter from Abel Lajtha on Occasion of the 40th Anniversary of Neurochemical Research. *Neurochem Res*. 2016 Feb 23.

Lempert KM, Johnson E, Phelps EA. Emotional Arousal Predicts Intertemporal Choice. *Emotion*. 2016 Feb 15.

Lindenmayer JP, Kaur A. Antipsychotic Management of Schizoaffective Disorder: A Review. *Drugs*. 2016 Feb 29.

Morillon B, Schroeder CE, Wyart V, Arnal LH. Temporal Prediction in lieu of Periodic Stimulation. *J Neurosci*. 2016 Feb 24;36(8):2342-7.

Qi HX, Reed JL, Franca JG, Jain N, Kajikawa Y, Kaas JH. Chronic Recordings Reveal Tactile Stimuli Can Suppress Spontaneous Activity of Neurons in Somatosensory Cortex of Awake and Anesthetized Primates. *J Neurophysiol*. 2016 Feb 24.

Rosenheck R, Leslie D, Sint K, Lin H, Robinson DG, Schooler NR, Mueser KT, Penn DL, Addington J, Brunette MF, Correll CU, Estroff SE, Marcy P, Robinson J, Severe J, Rupp A, Schoenbaum M, Kane JM. Cost-Effectiveness of Comprehensive, Integrated Care for First Episode Psychosis in the NIMH RAISE Early Treatment Program. *Schizophr Bull*. 2016 Jan 31.

Sershen H, Hashim A, Dunlop DS, Suckow RF, Cooper TB, Javitt DC. Modulating NMDA Receptor Function with D-Amino Acid Oxidase Inhibitors: Understanding Functional Activity in PCP-Treated Mouse Model. *Neurochem Res*. 2016 Feb 8.

Stein RE, Hurlburt MS, Heneghan AM, Zhang J, Kerker B, Landsverk J, Horwitz SM. For Better or Worse? Change in Service Use by Children Investigated by Child Welfare Over a Decade. *Acad Pediatr*. 2016 Feb 3.

Trongnetrpunya A, Nandi B, Kang D, Kocsis B, Schroeder CE, Ding M. Assessing Granger Causality in Electrophysiological Data: Removing the Adverse Effects of Common Signals via Bipolar Derivations. *Front Syst Neurosci*. 2016 Jan 20;9:189.

Wilson DA, Masiello K, Lewin MP, Hui M, Smiley JF, Saito M. Developmental ethanol exposure-induced sleep fragmentation predicts adult cognitive impairment. *Neuroscience*. 2016 Feb 15;322:18-27.

Wong LC, Wang L, D'Amour JA, Yumita T, Chen G, Yamaguchi T, Chang BC, Bernstein H, You X, Feng JE, Froemke RC, Lin D. Effective Modulation of Male Aggression through Lateral Septum to Medial Hypothalamus Projection. *Curr Biol*. 2016 Feb 10.

Yang Z, Zuo XN, McMahon KL, Craddock RC, Kelly C, de Zubicaray GI, Hickie I, Bandettini PA, Castellanos FX, Milham MP, Wright MJ. Genetic and Environmental Contributions to Functional Connectivity Architecture of the Human Brain. *Cereb Cortex*. 2016 Feb 18.

Yoncheva YN, Somandepalli K, Reiss PT, Kelly C, Di Martino A, Lazar M, Zhou J, Milham MP, Castellanos FX. Mode of Anisotropy Reveals Global Diffusion Alterations in Attention-Deficit/Hyperactivity Disorder. *J Am Acad Child Adolesc Psychiatry*. 2016 Feb;55(2):137-45.

Zeng B, Ardekani BA, Tang Y, Zhang T, Zhao S, Cui H, Fan X, Zhuo K, Li C, Xu Y, Goff DC, Wang J. Abnormal white matter microstructure in drug-naive first episode schizophrenia patients before and after eight weeks of antipsychotic treatment. *Schizophr Res*. 2016 Feb 3.

Bedi G, Cooper ZD, Van Dam N, Haney M. [Social processing in aging cocaine smokers](#). *Drug & Alcohol Dependence* 156, e17-e18. 2015. [Abstract]

Bruno D, Ciarleglio A, Grothe MJ, Nierenberg J, Bachman A, Teipel SJ et al. [A comparison of hippocampal volume and integrity: Which is the better predictor of cognitive decline?](#) *Alzheimer's and Dementia* 11[7 Suppl. 1], P698-P699. 2015. [Abstract]

Bruno D, Grothe MJ, Nierenberg J, Sidtis J, Teipel SJ, Pomara N. [The association of output order and variability in free recall with cognitive ability and hippocampal volume in elderly individuals](#). *Alzheimer's and Dementia* 11[7 Suppl. 1], P574. 2015. [Abstract]

Cain C, Sullivan R. [Amygdala contributions to fear and safety conditioning: insights into PTSD from an animal model across development](#). In: Bremner JD, editor. *Posttraumatic Stress Disorder: From Neurobiology to Treatment*. Hoboken, NJ: Wiley-Blackwell; 2016. p. 81-104.

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