

# The NKInformer



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

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Donald C. Goff, MD, Director  
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September /October, 2017

*Stuart Moss, MLS, Editor*

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## ***CENTER FOR DEMENTIA RESEARCH INVESTIGATORS SECURE MAJOR FUNDING TO CONTINUE ALZHEIMER'S RESEARCH***



Pictured l to r: Debbie Warburton, Dr. Scharfman, Jody Addeo, NYS Senator Carlucci, Dr. Levy, Debra Kagan-Birkeland, Dr. Nixon, Dr. Ginsberg, and Dr. Mathews. Ms. Warburton, Addeo, and Kagan-Birkeland are with the Alzheimer's Association Hudson Valley Chapter.

### *From the Center for Dementia Research*

Program Project Grants at the National Institute on Aging support multiple teams of researchers, who closely collaborate using complementary approaches to clarify a fundamental aspect of Alzheimer's Disease (AD) or related disorders that holds special promise for understanding its causes and developing novel therapies.

The CDR Program Project, which is in its 17<sup>th</sup> year, has pioneered discoveries that have linked the genes causing AD to prominent defects appearing at the earliest stages of AD and potentially represent the most promising new targets for novel therapies to prevent or treat AD. In all forms of AD, the first biological abnormalities to appear

in the brain are related to a pathway by which neurons internalize life-sustaining materials from outside the cell within “endosomes”, deliver these building blocks to the proper destinations in the neuron, and recycle the surplus in “lysosomes” that metabolize unwanted cell materials, which could become potentially toxic. This material includes the hallmarks of AD pathology,  $\beta$ -amyloid peptide and tau protein, which accumulate in the AD brain along with massive amounts of undigested “waste” that collectively contribute to the degeneration of synapses and neurons leading to memory loss. The CDR team has provided evidence that the early failure of the “endosome-lysosome pathway” is fundamental to both normal synaptic functioning and memory as well as to the development of amyloid and tau-related “plaques and tangles”, which are the targets of drugs currently being tested in AD clinical trials with equivocal success so far. The Program’s overall premise is that defining the molecular basis for the defects in the endosome-lysosome pathway – given their early appearance and diverse cellular roles including ones in protein recycling, synapse regulation, and intracellular signaling – leads to novel therapeutic targets that broadly address AD at its biological origin and therefore hold considerable promise for drug development.

The Program, directed by **Dr. Ralph Nixon**, is titled **Cell and Molecular Pathobiology of Alzheimer's Disease**, and consists of four research projects and three Core support elements. It addresses a major aspect of the “endosome-lysosome” pathway failure at the molecular level and at a translational level expected to identify specific drug intervention points and validate the efficacy of certain drugs or related approaches in disease models. **Project 1** led by **Dr. Paul Mathews** addresses endosomes while **Project 3**, led by **Dr. Efrat Levy**, addresses the roles of endosomes in releasing neuroprotective or disease-related endosomal cargoes within smaller membrane bound compartments called exosomes.

**Project 2**, led by **Dr. Ralph Nixon**, investigates the progressive failure of lysosomes to eliminate disease-related proteins and the therapeutic reversal of this failure, which has been shown to have diverse ameliorative effects in AD models.

**Project 4**, led by **Dr. Stephen Ginsberg**, uses genomic analyses of single populations of neurons in AD brain to investigate the competence of cellular delivery routes to lysosomes (autophagy and endosomal) and molecular strategies to increase the efficiency of these critical clearance mechanisms. The discovery by CDR scientists of this striking failure of cellular clearance in AD brains has stimulated research world-wide, revealing promising new targets for drug development to slow or prevent AD.



In addition to the Program Project grants, **Dr. Helen Scharfman** of the CDR has received two recent R01 grants. The first is titled **Hilar Mossy Cells and Dentate Gyrus Function**. This goal of this project is to clarify how a unique cell type in the dentate gyrus called a hilar mossy cell contributes to the function of this part of the brain, which is involved in normal cognition and behavior. The dentate gyrus and hilar mossy cells have received increasing attention as more evidence has shown that the dentate gyrus is involved in many types of behavior, and appears to sustain loss of mossy cells in many neurological and psychiatric disorders.

Dr. Scharfman’s second grant is titled **Hyperexcitability in Alzheimer's Disease**. This grant addresses the hypothesis that early in Alzheimer's disease there is overactivity in some parts of the brain and this contributes to the subsequent decline in brain function. The grant uses animal models that simulate different characteristics of humans with Alzheimer's disease, and uses these models to test new treatments to prevent or delay the onset of Alzheimer's disease.

## KUDOS

### “A Man of So Many Communities”

At the NAMI Rockland Awards Dinner, Outpatient Research Department Director **Russell Tobe, MD**, received the Florence Gould Gross Award to Friends of People with Mental Illness. The award was presented by RPC’s Liz Falco, MS, RN, who is also a NAMI Rockland Board Member. In her remarks, Liz shared some of the ways in which Dr. Tobe had been described to her by his NKI colleagues. Here are just a few:

- “He is a well-rounded, great person!”
- “Down to earth, kind, generous, loving, supportive”
- “Truly a wonderful person to work with”
- “Brings out the best in people”
- “Great resource for our community”
- “Bright, well trained and has a wealth of knowledge in child psychiatry”
- “A man of the community”

Congratulations to Dr. Tobe for this well-deserved recognition!



Russ Tobe and Liz Falco

## Newly Minted

**Kathy Peng, PhD**, (Center for Dementia Research) successfully defended her doctoral thesis in August, and has received a fellowship to begin her post-doctoral work in the laboratories of Paul Mathews and Efrat Levy. Kathy received her BA in Behavioral Biology from Johns Hopkins. Her PhD, from NYU, is in Neuroscience and Molecular Pharmacology.

## GRANTS RECEIVED



Drs. **Efrat Levy** (Dementia Research) and **Mariko Saito** (Neurochemistry) have received a five-year R01 grant entitled “[Brain exosomes mediate cocaine-induced addiction](#)” from the National Institute on Drug Abuse. Drs. **Mitsuo Saito** and **Henry Sershen** (Neurochemistry) are co-investigators. The goals of this project are to characterize the involvement of brain exosomes in cocaine-induced addiction. The study will identify the mechanisms behind the release of exosomes during cocaine administration and how exosomal content of proteins, lipids, and RNAs change during the course of acute and repeated cocaine administration followed by withdrawal. This study will identify new targets for addiction therapy as well as new biomarkers for cocaine addiction and withdrawal.

## FROM AROUND THE INSTITUTE

### CDR Hosts Senator Carlucci

On September 12, New York State Senator David Carlucci visited NKI and toured the Center for Dementia Research. The CDR's recent funding success (see p.1) was announced on this occasion. Senator Carlucci's past appropriation of State funds for a state-of-the-art microscope helped NKI's scientists to secure the highly competitive federal grants.



Dr. Paul Mathews gives a demonstration for Senator Carlucci while Dr. Stephen Ginsberg looks on.

### New Beginnings

After nearly 20 years at NKI, **Janet Rosdil** retired from her position as executive administrative assistant to Dr. Ralph Nixon in the Center for Dementia Research to pursue well-earned new adventures. Janet was the first person hired when the Nixon Laboratories for Molecular Neuroscience relocated from Boston to establish the CDR in 1998. Her recruitment from a position at New York Medical College was an auspicious beginning for the CDR, which saw rapid growth in size and international reputation in the Alzheimer's Disease community. Janet's contributions have been an essential component to the CDR's continued

success over two decades. Says Dr. Nixon, "Janet's extraordinary dedication, professionalism, and interpersonal skills have earned her the deep respect and appreciation of the entire NKI community. Notably, she has also admirably represented the CDR well beyond NKI, frequently receiving accolades from colleagues at NYU and visiting scientists worldwide for her exceptional communication and organizational skills." Janet will apply her many talents to new pursuits that will undoubtedly include more time with her family and grandchildren, and travel with friends and family. A gathering of nearly 60 NKI staff and alumni expressed their fond appreciation for Janet's many kindnesses in a farewell reception outside of the new lab building on a beautiful sunny day, appropriately auspicious for the new chapters in her life.



CDR Director Ralph Nixon with Janet Rosdil, his long-time administrator

## COMPLIANCE CORNER



By Karya Ottey, PhD  
IRB Director

### Certificates of Confidentiality

Certificates of Confidentiality (CoC's) protect the privacy of subjects by limiting the disclosure of identifiable, sensitive information. As a rule, researchers never disclose identifying information about subjects who participate in research without the subject's consent. However, there are situations where a subpoena from a court could require that a subject's records be made available. CoC's exist to protect subjects from this possibility. A CoC allows research subjects to participate in studies that require information about sensitive issues such as illegal drug use or criminal activity.

Researchers can obtain a CoC only if a determination is made that the research is of a sensitive nature and the protection is necessary to reach the research objective. The Office for Human Research Protections (OHRP) finds research to be "sensitive" if it includes any of the following: 1) information regarding sexual practices or preferences; 2) information regarding the use of alcohol, illegal drugs, or other addictive products; 3) Information concerning illegal behavior; 4) Information that can be destructive to the subject's financial standing, employability, or reputation within the community, or that might lead to social disgrace or prejudice; 5) Information regarding the subject's psychological state or mental health; 6) genetic information or tissue samples.

The CoC is only valid for a distinct period of time and indefinitely protects the information collected during the covered period. The requirements of a CoC apply to the investigator and all collaborators. A CoC must be obtained for each study and is nontransferable. When a CoC is used in a study, subjects should be informed and should also be

made aware of the exceptions from protection. One such exception is that investigators may voluntarily disclose issues related to child abuse, suicidal ideation, and threats to others. Subjects are informed of the conditions of the CoC in a consent form.

On September 7, 2017, the National Institutes of Health (NIH) issued a [notice](#) of updates for CoC's. Under this policy, CoC's will become a condition of NIH grant awards and are issued as part of the grant process. The effective date of the policy is October 1, 2017, but it will apply retroactively to all NIH research that was initiated or ongoing on or after December 13, 2016, that falls within the scope of the policy. CoC's will continue to be available through other Department of Health and Human Services agencies (such as the Centers for Disease Control and Prevention, and the Food and Drug Administration). Researchers should apply to the agency involved in the funding or regulation of the study. If a study is not supported by NIH funding, applications for CoC's may be directed to the NIH via the normal existing [application process](#).

## PUBLICATIONS OF NOTE

### JAMA Psychiatry

C-BIN Director **Michael Milham, MD, PhD** is a coauthor of this paper on white matter abnormalities in childhood disorders appearing online in *JAMA Psychiatry*.

Aoki Y, Yoncheva YN, Chen B, Nath T, Sharp D, Lazar M, Velasco P, Milham MP, Di Martino A. Association of White Matter Structure with Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder. *JAMA Psychiatry*. 2017 Sep 6.

The publication was announced in this NYU Langone Health [press release](#).

## Translational Psychiatry

**Vilma Gabbay, MD** (Clinical Research) is the lead author of this open access paper appearing in *Translational Psychiatry*.

Gabbay V, Bradley KA, Mao X, Ostrover R, Kang G, Shungu DC. Anterior cingulate cortex  $\gamma$ -aminobutyric acid deficits in youth with depression. *Transl Psychiatry*. 2017 Aug 22; 7(8):e1216.

## PNAS

**Elizabeth Phelps, PhD** (Emotional Brain Institute) published this research on the effect of stress on memory in *PNAS*.

Dunsmoor JE, Otto AR, Phelps EA. Stress promotes generalization of older but not recent threat memories. *Proc Natl Acad Sci U S A*. 2017 Aug 22;114(34):9218-9223.

## Hippocampus

**Stephen Ginsberg, PhD** (Dementia Research) is the corresponding author of this article now online in *Hippocampus*. **Melissa Alldred, Shaoli Che, and Irina Elarova** of NKI are among the other contributors.

Ginsberg SD, Malek-Ahmadi MH, Alldred MJ, Che S, Elarova I, Chen Y, Jeanneteau F, Kranz TM, Chao MV, Counts SE, Mufson EJ. Selective decline of neurotrophin and neurotrophin receptor genes within CA1 pyramidal neurons and hippocampus proper: Correlation with cognitive performance and neuropathology in mild cognitive impairment and Alzheimer's disease. *Hippocampus*. 2017 Sep 9.

## The American Journal of Psychiatry

**Xavier Castellanos, MD** (Clinical Research) coauthored this editorial appearing in the September issue of *The American Journal of Psychiatry*.

Castellanos FX, Elmaghrabi SE. On the Road to Physiological Models of Brain Function in ADHD. *Am J Psychiatry*. 2017 Sep 1;174(9):825-826.

## Neuropsychopharmacology

At the intersection of brain, behavior, and therapeutics

Members of Dr. Daniel Javitt's **Schizophrenia Research Program** have a new publication appearing in *Neuropsychopharmacology*. Contributors to the paper are Migyung Lee, Andrea Balla, Henry Sershen, Pejman Sehatpour, and Peter Lakatos.

Lee M, Balla A, Sershen H, Sehatpour P, Lakatos P, Javitt DC. Rodent Mismatch Negativity (MMN)/ Theta Neuro-Oscillatory Response as a Translational Neurophysiological Biomarker for N-Methyl-D-Aspartate Receptor-Based New Treatment Development in Schizophrenia. *Neuropsychopharmacology*. 2017 Aug 17.

## AIDS and Behavior

This article by **Helen-Maria Lekas, PhD** (Social Solutions and Services) and her Columbia University colleagues appears online in the journal *AIDS and Behavior*.

Siegel K, Meunier É, Tocco JU, Lekas HM. Reproductive Desires and Considerations of HIV-Positive Men in Heterosexual Relationships in New York City. *AIDS Behav*. 2017 Jul 19.

## LEARNING MEMORY

Members of the **LeDoux Lab**, including **Lorenzo Díaz-Mataix** and **Robert Sears** with the Emotional Brain Institute at NKI, published this open access paper in *Learning & Memory*.

Díaz-Mataix L, Piper WT, Schiff HC, Roberts CH, Campese VD, Sears RM, LeDoux JE. Characterization of the amplificatory effect of norepinephrine in the acquisition of Pavlovian threat associations. *Learn Mem.* 2017 Aug 16;24(9):432-439.



Three recent articles by NKI authors appear in the open access journal *Scientific Reports* from Nature Publishing. **Elizabeth Phelps** (Emotional Brain Institute) is the senior author of two of these, and **Marcin Leszczynski** (Translational Neuroscience Laboratories) is first author of the third.

Kroes MCW, Dunsmoor JE, Lin Q, Evans M, Phelps EA. A reminder before extinction strengthens episodic memory via reconsolidation but fails to disrupt generalized threat responses. *Sci Rep.* 2017 Sep 7;7(1):10858.

Kroes MCW, Dunsmoor JE, Mackey WE, McClay M, Phelps EA. Context conditioning in humans using commercially available immersive Virtual Reality. *Sci Rep.* 2017 Aug 17;7(1):8640.

Leszczynski M, Chaieb L, Reber TP, Derner M, Axmacher N, Fell J. Mind wandering simultaneously prolongs reactions and promotes creative incubation. *Sci Rep.* 2017 Aug 31;7(1):10197.

## INFO UPDATE



In recent years, there has been a proliferation of citation performance metrics – tools and algorithms intended to help assess the relative performance of a journal, author, or article (think of the Journal Impact Factor, or the h-index). This blog post at The Scholarly Kitchen, [Citation Performance Indicators - A Very Short Introduction](#), provides a nice summary of the main indicators currently in use.



A new publication from The Centers for Medicare & Medicaid Services and SAMHSA, [A Roadmap to Behavioral Health: A Guide to Using Mental Health and Substance Use Disorder Services](#), is designed to serve as a behavioral health resource for consumers and offers important information about mental health and substance use disorder services, including definitions of behavioral health terms and guidance on how to find a behavioral health services provider, receive treatment, and obtain follow-up care.



[Citing Medicine](#) is the NLM style guide for authors, editors, and publishers. It provides assistance to authors in compiling lists of references for their publications, to editors in revising such lists, to publishers in setting reference standards for their authors and editors, and to librarians and others in formatting bibliographic citations. The guide is continually updated to keep pace with the rapidly changing nature of new format types, such as datasets available on the Internet.

## More on Predatory Publishing

The problem of predatory publishing is not going away any time soon, and researchers should be alert to the danger. There is a [new commercial product](#) that tracks fraudulent journals, replacing the [now-defunct “Beall’s List”](#). You can read a [good review](#) on The Scholarly Kitchen blog.

In addition, several recent articles (see below) address different aspects of the issue and provide some perspective. The Comment in *Nature* (1) sheds light on the scope and insidiousness of the problem. And the paper and letters by Manca et al. look at the effect in the neurosciences and neurology (3), the need for education and increased awareness (4), and the way in which unscrupulous journals can make their way into PubMed (2).

1. Moher D, Shamseer L, Cobey KD, et al. [Stop this waste of people, animals and money](#). *Nature*. 2017 Sep 6;549(7670):23-25.
2. Manca A, Cugusi L, Dvir Z, Deriu F. [PubMed should raise the bar for journal inclusion](#). *Lancet*. 2017 Aug 19;390(10096):734-735.
3. Manca A, Martinez G, Cugusi L, Dragone D, Dvir Z, Deriu F. [The surge of predatory open-access in neurosciences and neurology](#). *Neuroscience*. 2017 Jun 14;353:166-173.
4. Manca A, Cugusi L, Dragone D, Deriu F. [Predatory journals: Prevention better than cure?](#) *J Neurol Sci*. 2016 Nov 15;370:161.

For more on journal inclusion in PubMed, and how it has changed over the years, see [“A Confusion of Journals – What is PubMed Now?”](#), another blog on The Scholarly Kitchen.

## DEPARTMENT OF WONDER



FaceBook has faced waves of criticism recently, for [selling ads that a Russian company used](#) to influence the U.S. Presidential election, and more recently for allowing advertisers to [target users based on racist language](#) and hate speech. Has FaceBook’s technology run amok? That is the possibility considered in this *New York Times* article: [Facebook’s Frankenstein Moment](#).

## TIME

With guidance from curators, historians, and photo editors from around the world, *Time* magazine has assembled a group of photographs under the heading [“The Most Influential Images of All Time”](#). Each selected photo is accompanied by a short essay, and some also include a brief documentary film. Without a doubt, these pictures are worth a LOT of words.

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 offers a comfortable, quiet space for reading, work, and small meetings. To use the library’s Wi-Fi network, 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.



## NKI ON THE ROAD



**Monika Pawlik, PhD** (Dementia Research) recently gave a seminar at the Universidad Nacional Autónoma de México, Department of Physiology, in Mexico City. She spoke about recent research on Alzheimer's disease at the Center for Dementia Research.

## UPCOMING EVENTS AND SEMINARS

### Social Solutions & Services Research Department Presents

**Jung Yeon Lee, PhD**

NYU School of Medicine  
Department of Psychiatry

***Triple comorbid trajectories of alcohol use,  
tobacco use, and depressive symptoms as  
predictors of cannabis use disorders  
among urban adults***

Tuesday, October 10<sup>th</sup>, 10:00 am

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### NKI Presents

**Ipe Ninan, PhD**

NYU School of Medicine  
Department of Psychiatry

***Novel Mechanisms in the Regulation of  
Aversive Behaviors***

Tuesday, October 24<sup>th</sup>, 11:00 am

Hosted by Donald Goff, MD

## Center for Dementia Research Seminar Series

*Held on Thursdays at 10 am*

**Ottavio Arancio, MD, PhD**

Columbia University

***Rearranging the puzzle: an alternative view  
on Alzheimer's disease***

October 12<sup>th</sup>

**Tsuneya Ikezu, MD, PhD**

Boston University School of Medicine

***Recent progress in microglia and exosome  
mediated progression of Alzheimer's disease***

October 19<sup>th</sup>

**Shawn Ferguson, PhD**

Yale School of Medicine

***Lysosome function, dysfunction, and  
neurodegenerative disease***

November 16<sup>th</sup>

**Keith Vessel, MD**

University of Minnesota

***Epileptic activity in Alzheimer's disease:  
causes and clinical relevance***

November 30<sup>th</sup>

**Center for Biomedical Imaging and  
Neuromodulation Science Series**

*Held on Mondays at 11 am*

**Babak Ardekani, PhD**

C-BIN at NKI  
Department of Psychiatry, NYU

***A New Algorithm for Automatic, Unbiased,  
Fast and Reliable Alignment of Longitudinal  
Structural MRI with Submillimeter Accuracy:  
Application to Aging and Alzheimer's  
Disease Research***

October 16<sup>th</sup>

**Muhammad Parvaz, PhD**

Department of Psychiatry,  
Icahn School of Medicine at Mount Sinai

***Title TBA***

November 20<sup>th</sup>

**Heath Pardoe, PhD**

Department of Neurology, NYU

***Title TBA***

November 27<sup>th</sup>

**4<sup>th</sup> Annual New York Metro Imaging  
Research Symposium**

Hosted by the  
Quantitative Neuroimaging Laboratory in the  
Cognitive Neuroscience Division  
Columbia University

Thursday, November 30<sup>th</sup>  
9:00 am – 4:00 pm

[Click here](#) for more information.



**2017 International Mental Health  
Research Symposium**

Hear the 2017 Outstanding Achievement  
Prizewinners and select Young Investigators  
present updates on leading research discoveries  
across brain and behavior disorders, and a special  
Keynote Presentation.

Friday, October 27<sup>th</sup>  
9:00 am – 4:30 pm

Kaufman Music Center  
129 West 67th Street, New York, NY 10023

[Click here](#) for more information.



**Statewide Grand Rounds**

***Modern Practice of ECT for OMH Patients***

Presenter: **Joan Prudic, MD**

Clinical Professor of Psychiatry,  
Columbia University Medical Center  
Director of ECT at NYSPI and  
NY Presbyterian Hospital, CUMC

Panelist: **Stuart Taylor, MD**

Director of ECT and Associate Clinical Director for  
Medical Education, Creedmoor PC  
Associate Clinical Professor of Psychiatry, Columbia  
University College of Physicians & Surgeons

Moderator: **Jay Carruthers, MD**

Medical Director, Bureau of Psychiatric Services  
New York State Office of Mental Health

Wednesday, October 18<sup>th</sup>  
1:00 – 2:30 pm

*Broadcast in the Director's conference room*

The Bureau of Psychiatric Services, in conjunction with the Bureau of Education & Workforce Development (BEWD), announced the availability of select Statewide Grand Rounds (SWGR) in the Statewide Learning Management System (SLMS), located at <https://nyslearn.ny.gov/>. CE credits are available upon successful completion of a course.

To access the SWGR, log in to the [Statewide Learning Management System](#) (SLMS), and click on Find Learning. Enter the course code or course name in the find box. After you have found the course you are looking for, click on the Enroll button and Launch the course.

For a list of available courses, contact [bewd@omh.ny.gov](mailto:bewd@omh.ny.gov).

The New York State Office of Mental Health (OMH) regularly hosts an 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 [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 5,600 items dating back to 1995, and can be searched from the [myNKI website](#).

Aoki Y, Yoncheva YN, Chen B, Nath T, Sharp D, Lazar M, Velasco P, Milham MP, Di Martino A. Association of White Matter Structure With Autism Spectrum Disorder and Attention-Deficit/ Hyperactivity Disorder. *JAMA Psychiatry*. 2017 Sep 6.

Avissar M, Xie S, Vail B, Lopez-Calderon J, Wang Y, Javitt DC. Meta-analysis of mismatch negativity to simple versus complex deviants in schizophrenia. *Schizophr Res*. 2017 Jul 11.

Cabrera E, Mathews P, Mezhericher E, Beach TG, Deng J, Neubert TA, Rostagno A, Ghiso J. A $\beta$  truncated species: Implications for brain clearance mechanisms and amyloid plaque deposition. *Biochim Biophys Acta*. 2017 Jul 12.

Carliner H, Brown QL, Sarvet AL, Hasin DS. Cannabis use, attitudes, and legal status in the U.S.: A review. *Prev Med*. 2017 Jul 11.

Castellanos FX, Elmaghrabi SE. On the Road to Physiological Models of Brain Function in ADHD. *Am J Psychiatry*. 2017 Sep 1;174(9):825-826.

Dunsmoor JE, Otto AR, Phelps EA. Stress promotes generalization of older but not recent threat memories. *Proc Natl Acad Sci U S A*. 2017 Aug 22;114(34):9218-9223.

Díaz-Mataix L, Piper WT, Schiff HC, Roberts CH, Campese VD, Sears RM, LeDoux JE. Characterization of the amplificatory effect of norepinephrine in the acquisition of Pavlovian threat associations. *Learn Mem*. 2017 Aug 16;24(9):432-439.

Faber H, Opitz A, Müller-Dahlhaus F, Ziemann U. Polarity-independent effects of tDCS on paired associative stimulation-induced plasticity. *Brain Stimul*. 2017 Jul 27.

Fan X, Song X, Zhao M, Jarskog LF, Natarajan R, Shukair N, Freudenreich O, Henderson DC, Goff DC. The effect of adjunctive telmisartan treatment on psychopathology and cognition in patients with schizophrenia. *Acta Psychiatr Scand*. 2017 Aug 29.

Gabbay V, Bradley KA, Mao X, Ostrover R, Kang G, Shungu DC. Anterior cingulate cortex  $\gamma$ -aminobutyric acid deficits in youth with depression. *Transl Psychiatry*. 2017 Aug 22; 7(8):e1216.

Gauthier SA, Pérez-González R, Sharma A, Huang FK, Alldred MJ, Pawlik M, Kaur G, Ginsberg SD, Neubert TA, Levy E. Enhanced exosome secretion in Down syndrome brain - a protective mechanism to alleviate neuronal endosomal abnormalities. *Acta Neuropathol Commun.* 2017 Aug 29;5(1):65.

Ginsberg SD, Malek-Ahmadi MH, Alldred MJ, Che S, Elarova I, Chen Y, Jeanneteau F, Kranz TM, Chao MV, Counts SE, Mufson EJ. Selective decline of neurotrophin and neurotrophin receptor genes within CA1 pyramidal neurons and hippocampus proper: Correlation with cognitive performance and neuropathology in mild cognitive impairment and Alzheimer's disease. *Hippocampus.* 2017 Sep 9.

Golan T, Davidesco I, Meshulam M, Groppe DM, Mégevand P, Yeagle EM, Goldfinger MS, Harel M, Melloni L, Schroeder CE, Deouell LY, Mehta AD, Malach R. Increasing suppression of saccade-related transients along the human visual hierarchy. *Elife.* 2017 Aug 29;6. pii: e27819.

Kelly RE Jr, Alexopoulos GS, Gunning FM, Hoptman MJ. Advocating for well-defined and validated procedures: Comment on Griffanti et al., *Neuroimage* 154:188-205. *J Neurosci Methods.* 2017 Oct 1;290:24-26.

Kroes MCW, Dunsmoor JE, Lin Q, Evans M, Phelps EA. A reminder before extinction strengthens episodic memory via reconsolidation but fails to disrupt generalized threat responses. *Sci Rep.* 2017 Sep 7;7(1):10858.

Kroes MCW, Dunsmoor JE, Mackey WE, McClay M, Phelps EA. Context conditioning in humans using commercially available immersive Virtual Reality. *Sci Rep.* 2017 Aug 17;7(1):8640.

Lee M, Sehatpour P, Dias EC, Silipo GS, Kantrowitz JT, Martinez AM, Javitt DC. A tale of two sites: Differential impairment of frequency and duration mismatch negativity across a primarily inpatient versus a primarily outpatient site in schizophrenia. *Schizophr Res.* 2017 Aug 2.

Lee M, Balla A, Sershen H, Sehatpour P, Lakatos P, Javitt DC. Rodent Mismatch Negativity (MMN)/Theta Neuro-Oscillatory Response as a Translational Neurophysiological Biomarker for N-Methyl-D-Aspartate Receptor-Based New Treatment Development in Schizophrenia. *Neuropsychopharmacology.* 2017 Aug 17.

Leszczynski M, Chaieb L, Reber TP, Derner M, Axmacher N, Fell J. Mind wandering simultaneously prolongs reactions and promotes creative incubation. *Sci Rep.* 2017 Aug 31;7(1):10197.

Mosconi L, Berti V, Quinn C, McHugh P, Petrongolo G, Varsavsky I, Osorio RS, Pupi A, Vallabhajosula S, Isaacson RS, de Leon MJ, Brinton RD. Sex differences in Alzheimer risk: Brain imaging of endocrine vs chronologic aging. *Neurology.* 2017 Aug 30.

Murphy TK, Fernandez TV, Coffey BJ, Rahman O, Gavaletz A, Hanks CE, Tillberg CS, Gomez LI, Sukhodolsky DG, Katsovich L, Scahill L. Extended-Release Guanfacine Does Not Show a Large Effect on Tic Severity in Children with Chronic Tic Disorders. *J Child Adolesc Psychopharmacol.* 2017 Jul 19.

Ohno M. PERK as a hub of multiple pathogenic pathways leading to memory deficits and neurodegeneration in Alzheimer's disease. *Brain Res Bull.* 2017 Aug 10.

Pillai A, Schooler NR, Peter D, Looney SW, Goff DC, Kopelowicz A, Lauriello J, Manschreck T, Mendelowitz A, Miller DD, Severe JB, Wilson DR, Ames D, Bustillo J, Kane JM, Buckley PF. Predicting relapse in schizophrenia: Is BDNF a plausible biological marker? *Schizophr Res.* 2017 Jul 19.

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