

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

July – August, 2018

Stuart Moss, MLS, Editor

CHANGING OF THE GUARD

Two very long-time NKI employees are newly retired, and two current ones have stepped into new roles. We bid **Bill Alexander** and **Art Fleischer** farewell, and congratulate **Des Moloney** and **Kathleen Shannon** on their new positions.



Looking sharp, circa 1985.

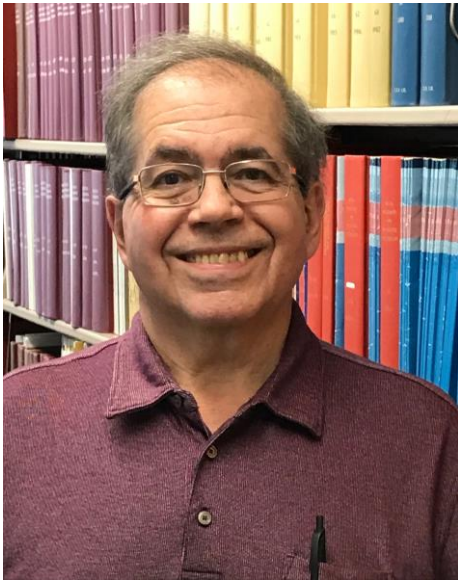
Bill Alexander, NKI's Director of Technology since 1988, has retired after 37 years at NKI. "I've worked under four directors, survived two (or it is three?) attempted closings by the State, and witnessed the birth of the Internet and the death

of the small mainframe," he recalled. "That's enough for any career." The author of three critically-acclaimed books, including the national bestseller *The \$64 Tomato*, Bill plans to continue writing and travelling.



Bill's successor will be a familiar face to many. **Des Moloney** graduated from St. Thomas Aquinas College in 1992 with a BA in History and obtained his MS in Secondary Education in 1998. Des joined

NKI in late 2001 as a desktop support specialist and steadily took on more responsibility, becoming the Network Administrator, then Senior Systems Administrator, and now Director of Information Technology. In addition to these responsibilities, Des is NKI's technical liaison to the New York State Office of Information Technology Services, the Office of Mental Health, and the Research Foundation for Mental Hygiene, as well as the Institute's Information Security Officer.



"Thanks for the memories."

Art Fleischer, Manager of the Laboratory Animal Resource facility, sent these kind words:

"After 49 years working here at NKI, I have decided to retire effective June 27th. It has been a long, wonderful trip.

"I couldn't leave without thanking some of the people who have made my stay here quite memorable. Some are still here at NKI and some are no longer with us. First, I must thank Dr. William Sacks who had the foresight to see my potential and hire me fresh out of college. Of course, I must also thank Dr. Nathan S. Kline whose kindness and generosity helped me through some very tough times in my life. Dr. Abel Lajtha and Dr. Miki Kohn have been mentors and friends of mine for my entire tenure at NKI. George Nagle, too, deserves a

hearty thank you for all he did for me. Thanks also to Dr. Henry Sershen and Tom O'Hara who have traveled this winding road with me for many years and of course, to Dr. Mark Klinger and Ms. Kathleen Shannon for putting up with me.

"To my many co-workers over these past years, thank you all for making this trip through life so interesting. May you all live long and prosper."



Taking up the reins as animal facilities manager is **Kathleen Shannon**. After a previous career in finance and accounting, Kathleen returned to school and became a Licenced Veterinary Technician. She came to NKI in October, 2015 after working for three years at NYU as a Research Animal Technician.

In keeping with the summer growing season, NKI recently welcomed a number of new employees. Some of these are featured below.

New IRB Director



NKI's new Institutional Review Board (IRB) Director, **Ms. Vanessa Smith**, joins us after serving for three years as co-manager of the IRB at Rockefeller University. Prior to that, she worked as an IRB Specialist at Columbia University Medical Center. Vanessa is a graduate of the University of Maryland College Park (UMD) with a master's degree in Clinical Psychology and a bachelor's degree in Psychology, with a minor in Human Development. While at Rockefeller, she obtained a Certificate in Clinical and Translational Research, and she earned her Certified IRB Professional (CIP) credential in 2015. Vanessa's educational background and IRB experience, as well as her experience working as a Research Coordinator in the Decision, Attention, and Memory Lab at UMD will serve her well as she joins the NKI team.



EBI Welcomes New Postdoc

Brett East, PhD is a new postdoctoral researcher in Don Wilson's lab. He shared a bit about himself for *The Informer*.

While pursuing my BS in Biochemistry at LSU, I took a basic neuroscience course and fell in love with the material. In learning more about the field, I became particularly interested in the mechanisms underlying learning and memory. My graduate

work at Tulane University focused on interactions of multiple memory systems (such as the hippocampus, striatum, and amygdala) and how different types of learning could affect the way in which memory is stored (or not stored). My dissertation work focused on contributions of the lateral vs medial entorhinal cortex to the acquisition and expression of fear memory and the different roles these subregions play depending whether the animal is learning trace, delay, or contextual fear.



My graduate work provided me with a strong background in animal behavior and some basic techniques like lesions and temporary inactivations, but I wanted to be able to dive deeper into the psychological mechanisms underpinning these interactions through use of more advanced techniques such as electrophysiology and optogenetics. As such, my research has now led me to NKI and the Emotional Brain Institute as not only a way to learn these techniques, but also surround myself with people interested in similar questions and leaders in the field. In Don Wilson's lab, I recently received an NIH F32 grant to support my research currently focusing on how interactions between the piriform cortex and amygdala change odor coding during learning and recall of an odor fear task using a combination of single unit recordings and optogenetic manipulations. When not at NKI, I'm an avid theater fan and as much of a home baker as one can be in a Manhattan studio apartment.

New Research Assistants Join Clinical Research Department

Julia Ermel graduated in May from Washington University in St. Louis with an A.B. in Cognitive Neuroscience. There, she worked as an undergraduate R.A. in the Cognitive Control and Psychopathology Lab under Dr. Deanna Barch for three years. In the Barch lab, Julia studied cognition, insight into one's disorder, effort-based decision-making, reward responsivity, and psychotic-like experiences both in people with schizophrenia and in the undergraduate population. At NKI, she is working under the supervision of Dr. Pamela Butler.

Tomislav (Tom) Gajic, MD, PhD, graduated from the University of Belgrade Medical School with a MD and MSc and received a PhD from the University of Kragujevac Medical School. After completing his psychiatry residency training at the Institute of Psychiatry Clinical Center in Serbia, he worked as a psychiatrist and served as Head of the Department of Psychiatry General Hospital in Valjevo, Serbia. In addition to his clinical practice, Dr. Gajic did research on biopsychosocial models of personality and the impact of personality and personality disorders on clinical syndromes, especially mood disorders. He joined Dr. Pamela Butler's group in July.

Jessica Harte graduated from the College of New Rochelle in 2012 with a BS in biology. After graduating she worked at Mount Sinai Hospital doing research on Alzheimer's and Huntington disease. In the lab, Jessica performed behavior testing on various transgenic mouse models and prepared tissue samples for sectioning and cultures. Jessica is currently working for Dr. Jim Clelland on a patient research study performing psychiatric and cognitive assessments and examining the role of vitamin D in psychiatric disorders. She is also performing recruitment and assessments for a study of the connection between negative symptoms of schizophrenia with COMT genotype and proline.

Erin McDonald graduated from Barnard College in 2017 with a BA in psychology. At Barnard, she worked as a student researcher at the Center for Toddler Development. Her senior research project examined familial influence on the development of self through parental regulation of play. Off campus, Erin volunteered at a developmental psychobiology lab, coding videos of toddlers with autism and observing clinical assessments. In addition to research, she worked as a psychosocial intern, assisting children with mood and anxiety disorders, and as a behavioral interventionist, assisting children with cerebral palsy. At NKI, Erin is a clinical research coordinator for Dr. Iosifescu's studies.

Jacob Merrin graduated from Tufts University in 2016 with a BS in Psychology. While in college, he worked at the Tufts Social Cognition lab, studying creativity in multiracial, biracial, and monoracial children, and the Tufts Emotion, Brain, and Behavior Laboratory (EBBL), studying emotion regulation. He completed his senior honors thesis at EBBL looking at the effects of cognitive reappraisal on interview situations. After college, Jacob worked as a management consultant at Deloitte. He came to NKI in May and is working for Drs. Matthew Hoptman and Pamela Butler.

Danielle Rette graduated in May from Haverford College with a BS in Psychology. At Haverford, she worked as a research assistant in a Cognitive Neuroscience lab studying alpha wave suppression and mind wandering. In addition to her research experience, she worked in two different clinical programs focused on promoting life skills in children and young adults with autism. Danielle's thesis examined the effect of positive partner illusions in relationships on the actor's depression and social anxiety over time. She is currently working on Dr. Iosifescu's depression studies.

(Photo on next page.)



Pictured from left to right: Jessica Harte, Danielle Rette, Jacob Merrin, Julia Ermel, Rebbia Shahab (left NKI), Jamie Glass (left NKI), Erin McDonald, Tomislav (Tom) Gajic

GRANTS RECEIVED



Dr. Robert Sears (Emotional Brain Institute) received a 2-year R21 for the grant titled "[Neural substrates of orexin-dependent coping behaviors.](#)"

Dr. Daniel Javitt (Schizophrenia Research) received the transfer of the remaining years on an R01 grant titled "[Temporal Dynamics of Neurophysiological Patterns as Treatment Targets in Schizophrenia.](#)"



Drs. Paul Mathews and Stephen Ginsberg (Center for Dementia Research) were awarded an R56 for their project titled "[Pathogenic consequences of altered insulin signaling in the diabetic brain.](#)"



Dr. Peter Lakatos (Biomedical Imaging & Neuromodulation) received a 5-year renewal of his grant titled "[Cortical and thalamic mechanisms of selective auditory attention.](#)"



Dr. Brett East (Emotional Brain Institute) received a [Ruth L. Kirschstein National Research Service postdoctoral fellowship](#) award for his grant titled "Olfactory circuit changes underlying odor memory."

FROM AROUND THE INSTITUTE

Revisionist History

Revisionist History is a podcast from Malcolm Gladwell and Panoply. Each episode “reinterprets something from the past: an event, a person, an idea. Something overlooked. Something misunderstood.” Episode 4 of season 3 (titled “Free Brian Williams”), which looks at the fallibility and changeability of memory, refers prominently to the research of William Hirst and **Elizabeth Phelps** on [long-term memory for the 9/11 terrorist attacks](#).



Dr. Lloyd Sederer, Chief Medical Officer for OMH, recently appeared on The Brian Lehrer Show to talk about his new book, *The Addiction Solution: Treating Our Dependence on Opioids and Other Drugs*. [Listen to the interview](#).

PUBLICATIONS OF NOTE

nature neuroscience

Charles Schroeder (Biomedical Imaging & Neuromodulation) coauthored this paper published in the July issue of *Nature Neuroscience*.

Pesaran B, Vinck M, Einevoll GT, Sirota A, Fries P, Siegel M, Truccolo W, Schroeder CE, Srinivasan R. [Investigating large-scale brain dynamics using field potential recordings: analysis and interpretation](#). *Nat Neurosci*. 2018 Jul;21(7):903-919. PMID: 29942039.

Culture, Health & Sexuality

A new paper by **Helen Maria Lekas** (Social Solutions & Services) and colleagues appears online in *Culture, Health & Sexuality*.

Jaiswal J, Singer SN, Siegel K, Lekas HM. [HIV-related 'conspiracy beliefs': lived experiences of racism and socio-economic exclusion among people living with HIV in New York City](#). *Cult Health Sex*. 2018 Jun 8:1-14. PMID: 29883299.



Vilma Gabbay (Clinical Research) is the corresponding author of this paper in *Journal of Clinical Psychiatry*.

Gabbay V, Freed RD, Alonso CM, Senger S, Stadterman J, Davison BA, Klein RG. [A Double-Blind Placebo-Controlled Trial of Omega-3 Fatty Acids as a Monotherapy for Adolescent Depression](#). *J Clin Psychiatry*. 2018 Jun 26;79(4). PMID: 29985566.



Dr. Gabbay also recently published a paper on inflammation and anhedonia in adolescents.

Freed RD, Mehra LM, Laor D, Patel M, Alonso CM, Kim-Schulze S, Gabbay V. [Anhedonia as a Clinical Correlate of Inflammation in Adolescents across Psychiatric Conditions](#). *World J Biol Psychiatry*. 2018 May 30:1-35. PMID: 29843560.

Neuron

Earlier this year, a paper coauthored by **Brian Russ** (Biomedical Imaging & Neuromodulation) was published in *Neuron*.

Turchi J, Chang C, Ye FQ, Russ BE, Yu DK, Cortes CR, Monosov IE, Duyn JH, Leopold DA. [The Basal Forebrain Regulates Global Resting-State fMRI Fluctuations](#). *Neuron*. 2018 Feb 21;97(4):940-952.e4. PMID: 29398365.

PNAS

Lila Davachi (Biomedical Imaging & Neuromodulation) is the corresponding author of a new *PNAS* paper.

Lohnas LJ, Duncan K, Doyle WK, Thesen T, Devinsky O, Davachi L. [Time-resolved neural reinstatement and pattern separation during memory decisions in human hippocampus](#). *Proc Natl Acad Sci U S A*. 2018 Jul 13. PMID: 30006465.

Also out with a new publication in *PNAS* are **Peter Lakatos**, **Annie Barczak**, and the entire Dynamical Cognitive Neuroscience Lab (Biomedical Imaging & Neuromodulation).

Barczak A, O'Connell MN, McGinnis T, Ross D, Mowery T, Falchier A, Lakatos P. [Top-down, contextual entrainment of neuronal oscillations in the auditory thalamocortical circuit](#). *Proc Natl Acad Sci U S A*. 2018 Jul 23. PMID: 30037997.

JAD Journal of Alzheimer's Disease

Ricardo Osorio (Clinical Research) is the senior author of a paper on sleep apnea and Alzheimer's disease that was invited for inclusion in a supplement issue of *Journal of Alzheimer's Disease*.

Andrade AG, Bubu OM, Varga AW, Osorio RS. [The Relationship between Obstructive Sleep Apnea and Alzheimer's Disease](#). *J Alzheimers Dis*. 2018; 64(s1): S255-S270. PMID: 29782319.

Neurobiology of Disease

Pearl Lie and **Ralph Nixon** (Center for Dementia Research) recently published this review in *Neurobiology of Disease*.

Lie PPY, Nixon RA. [Lysosome trafficking and signaling in health and neurodegenerative diseases](#). *Neurobiol Dis*. 2018 May 30. PMID: 29859318.

Journal of Experimental Psychology: General

Elizabeth Phelps (Emotional Brain Institute) has a new paper online in *Journal of Experimental Psychology: General*.

FeldmanHall O, Otto AR, Phelps EA. [Learning moral values: Another's desire to punish enhances one's own punitive behavior](#). *J Exp Psychol Gen*. 2018 Jun 7. PMID: 29878807.

Ümit Tural (Clinical Research) is the lead author of this open access *PLoS One* article.

Tural Ü, Aker AT, Önder E, Sodan HT, Ünver H, Akansel G. [Neurotrophic factors and hippocampal activity in PTSD](#). *PLoS One*. 2018 May 25; 13(5):e0197889. PMID: 29799860.



Jean-Pierre Lindenmayer and colleagues from NKI, Manhattan Psychiatric Center, and elsewhere published a new paper on cognitive remediation in *Schizophrenia Research*.

Lindenmayer JP, Khan A, McGurk SR, Kulsa MKC, Ljuri I, Ozog V, Fregenti S, Capodilupo G, Buccellato K, Thanju A, Goldring A, Parak M, Parker B. [Does social cognition training augment response to computer-assisted cognitive remediation for schizophrenia?](#) *Schizophr Res*. 2018 Jun 14. PMID: 29910120.

INFO UPDATE



If you are new to PubMed or you want a refresher, this online, self-paced class might be helpful. [PubMed Essentials](#) is an on-demand class made up of 12 very short video-modules (2-3 minutes each) with interactive exercises built into each module so you can explore PubMed at your own pace. After the necessary registrations, the course is available on demand 24/7 via Moodle. It is designed to take about one hour to complete.

This 14-minute video – “[My NCBI: Updates to grant applications and reporting](#)” – provides an update and overview of using My NCBI, SciENcv, and Biosketch to manage grant applications, public access compliance, and reporting.



Two new textbook editions are now available on PsychiatryOnline.org:

[The American Psychiatric Association Publishing Textbook of Neuropsychiatry and Clinical Neurosciences, Sixth Edition](#)

Thoroughly revised and restructured, this edition offers a modern reconsideration of the core concepts, conditions, and approaches in neuropsychiatry, providing clinicians with the knowledge and tools they need to practice in this demanding field.

[The American Psychiatric Association Publishing Textbook of Psychosomatic Medicine and Consultation-Liaison Psychiatry, Third Edition](#)

Updated to reflect the rapidly expanding evidence base in the field, this textbook addresses general principles in evaluation and management (including legal and ethical issues); psychiatric symptoms and disorders in the medically ill; psychological and social aspects of diseases affecting the various organ systems; and psychiatric interventions for this patient population.

NKI's PsychiatryOnline license provides full text access to the *DSM* library, a variety of textbooks, and several journals published by the American Psychiatric Association.



My MedlinePlus is a new weekly newsletter launched by [MedlinePlus](#), the National Institutes of Health's website for patients and their families and friends. My MedlinePlus includes information on diseases and conditions, health and wellness tips, and more. To sign up for this free weekly newsletter, [click here](#).

DEPARTMENT OF WONDER



You may think of microfilm machines as relics of the 20th century, outmoded and no longer useful in the age of the World Wide Web. If so, this article – “[Microfilm Lasts Half a Millennium](#)” – from [Object Lessons](#) via *The Atlantic* might change your mind. In any case, it provides an interesting history of microfilm technology, and includes lots of fun links.

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



Qawi Telesford (Biomedical Imaging & Neuromodulation) attended [NetSci](#), a conference on complex networks, which was held in Paris in June. He served as co-organizer and section chair for the [satellite Network Neuroscience conference](#).

EVENTS AND SEMINARS

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 5,800 items dating back to 1995 and can be searched from the [myNKI website](#).

Andrade AG, Bubu OM, Varga AW, Osorio RS. The Relationship between Obstructive Sleep Apnea and Alzheimer's Disease. *J Alzheimers Dis.* 2018; 64(s1): S255-S270. PMID: 29782319.

Bartlett EA, DeLorenzo C, Sharma P, Yang J, Zhang M, Petkova E, Weissman M, McGrath PJ, Fava M, Ogden RT, Kurian BT, Malchow A, Cooper CM, Trombello JM, McInnis M, Adams P, Oquendo MA, Pizzagalli DA, Trivedi M, Parsey RV. Pretreatment and early-treatment cortical thickness is associated with SSRI treatment response in major depressive disorder. *Neuropsychopharmacology.* 2018 Jun 19. PMID: 29955151.

Bradley KA, Alonso CM, Mehra LM, Xu J, Gabbay V. Elevated striatal γ -aminobutyric acid in youth with major depressive disorder. *Prog Neuropsychopharmacol Biol Psychiatry.* 2018 Aug 30; 86:203-210. PMID: 29890194.

Correll CU, Galling B, Pawar A, Krivko A, Bonetto C, Ruggeri M, Craig TJ, Nordentoft M, Srihari VH, Guloksuz S, Hui CLM, Chen EYH, Valencia M, Juarez F, Robinson DG, Schooler NR, Brunette MF, Mueser KT, Rosenheck RA, Marcy P, Addington J, Estroff SE, Robinson J, Penn D, Severe JB, Kane JM. Comparison of Early Intervention Services vs Treatment as Usual for Early-Phase Psychosis: A Systematic Review, Meta-analysis, and Meta-regression. *JAMA Psychiatry.* 2018 Jun 1; 75(6): 555-565. PMID: 29800949.

FeldmanHall O, Otto AR, Phelps EA. Learning moral values: Another's desire to punish enhances one's own punitive behavior. *J Exp Psychol Gen.* 2018 Jun 7. PMID: 29878807.

Freed RD, Mehra LM, Laor D, Patel M, Alonso CM, Kim-Schulze S, Gabbay V. Anhedonia as a Clinical Correlate of Inflammation in Adolescents across Psychiatric Conditions. *World J Biol Psychiatry.* 2018 May 30;1-35. PMID: 29843560.

Gabbay V, Freed RD, Alonso CM, Senger S, Stadterman J, Davison BA, Klein RG. A Double-Blind Placebo-Controlled Trial of Omega-3 Fatty Acids as a Monotherapy for Adolescent Depression. *J Clin Psychiatry.* 2018 Jun 26;79(4). PMID: 29985566.

Heusser AC, Ezzyat Y, Shiff I, Davachi L. Perceptual boundaries cause mnemonic trade-offs between local boundary processing and across-trial associative binding. *J Exp Psychol Learn Mem Cogn.* 2018 Jul;44(7):1075-1090. PMID: 29461067.

Huynh TN, Santini E, Mojica E, Fink AE, Hall BS, Fetcho RN, Grosenick L, Deisseroth K, LeDoux JE, Liston C, Klann E. Extinction of auditory threat memory triggers activation of p70 S6 kinase 1 in the basolateral nucleus of the amygdala. *Mol Psychiatry.* 2018 Jun;23(6):1393. PMID: 29964271.

Jaiswal J, Singer SN, Siegel K, Lekas HM. HIV-related 'conspiracy beliefs': lived experiences of racism and socio-economic exclusion among people living with HIV in New York City. *Cult Health Sex.* 2018 Jun 8:1-14. PMID: 29883299.

Karacetin G, Arman AR, Fis NP, Demirci E, Ozmen S, Hesapcioglu ST, Oztop D, Tufan AE, Tural U, et al. Prevalence of Childhood Affective disorders in Turkey: An epidemiological study. *J Affect Disord.* 2018 May 30;238:513-521. PMID: 29936389.

Keefe RSE, Harvey PD, Khan A, Saoud JB, Staner C, Davidson M, Luthringer R. Cognitive Effects of MIN-101 in Patients with Schizophrenia and Negative Symptoms: Results from a Randomized Controlled Trial. *J Clin Psychiatry.* 2018 May/Jun;79(3). PMID: 29873956.

Lee JY, Brook JS, Pahl K, Brook DW. Sexual risk behaviors in African American and Puerto Rican women: Impulsivity and self-control. *Prev Med Rep.* 2017 Sep 28;10: 218-220. PMID: 29868372.

Lie PPY, Nixon RA. Lysosome trafficking and signaling in health and neurodegenerative diseases. *Neurobiol Dis.* 2018 May 30. PMID: 29859318.

Lindenmayer JP, Khan A, McGurk SR, Kulsa MKC, Ljuri I, Ozog V, Fregenti S, Capodilupo G, Buccellato K, Thanju A, Goldring A, Parak M, Parker B. Does social cognition training augment response to computer-assisted cognitive remediation for schizophrenia? *Schizophr Res.* 2018 Jun 14. PMID: 29910120.

Meyer ML, Davachi L, Ochsner KN, Lieberman MD. Evidence That Default Network Connectivity During Rest Consolidates Social Information. *Cereb Cortex.* 2018 Apr 13. PMID: 29668862.

Ogawa A, Osada T, Tanaka M, Hori M, Aoki S, Nikolaidis A, Milham MP, Konishi S. Striatal sub-divisions that coherently interact with multiple cerebrocortical networks. *Hum Brain Mapp.* 2018 Jul 5. PMID: 29975005.

Pesaran B, Vinck M, Einevoll GT, Sirota A, Fries P, Siegel M, Truccolo W, Schroeder CE, Srinivasan R. Investigating large-scale brain dynamics using field potential recordings: analysis and interpretation. *Nat Neurosci.* 2018 Jul;21(7):903-919. PMID: 29942039.

Richards C, Iosifescu DV, Mago R, Sarkis E, Geibel B, Dauphin M, McIntyre RS, Weisler R, Brawman-Mintzer O, Gu J, Madhoo M. A 12-Month Open-Label Extension Study of the Safety and Tolerability of Lisdexamfetamine Dimesylate for Major Depressive Disorder in Adults. *J Clin Psychopharmacol.* 2018 Aug;38(4):336-343. PMID: 29912786.

Shah R, Courtiol E, Castellanos FX, Teixeira CM. Abnormal Serotonin Levels During Perinatal Development Lead to Behavioral Deficits in Adulthood. *Front Behav Neurosci.* 2018 Jun 6; 12:114. PMID: 29928194.

Tiernan CT, Ginsberg SD, He B, Ward SM, Guillozet-Bongaarts AL, Kanaan NM, Mufson EJ, Counts SE. Pretangle pathology within cholinergic nucleus basalis neurons coincides with neurotrophic and neurotransmitter receptor gene dysregulation during the progression of Alzheimer's disease. *Neurobiol Dis.* 2018 May 31;117:125-136. PMID: 29859871.

Tural Ü, Aker AT, Önder E, Sodan HT, Ünver H, Akansel G. Neurotrophic factors and hippocampal activity in PTSD. *PLoS One.* 2018 May 25; 13(5):e0197889. PMID: 29799860.

Turchi J, Chang C, Ye FQ, Russ BE, Yu DK, Cortes CR, Monosov IE, Duyn JH, Leopold DA. The Basal Forebrain Regulates Global Resting-State fMRI Fluctuations. *Neuron.* 2018 Feb 21;97(4):940-952.e4. PMID: 29398365.

Basavarajappa BS. Cannabinoid Receptors and Their Signaling Mechanisms. In: Murillo-Rodríguez E, editor. *The Endocannabinoid System: Genetics, Biochemistry, Brain Disorders, and Therapy.* Academic Press; 2017. p. 25-62.

Basavarajappa BS, Subbanna S, Shivakumar M, Joshi V. CB1R mediated CDK5 and rac1 signaling control neurobehavioral abnormalities in postnatal ethanol exposed mice. *Alcoholism: Clinical & Experimental Research* 42[Suppl. 1], 165A. 2018. [Abstract]

Cassano P, Petrie S, Mischoulon D, Cusin C, Katnani H, Yeung A et al. Neuromodulation with near-infrared light for mood disorders: Targeting mitochondria. *Bipolar Disorders* 20[Suppl. 1], 46. 2018. [Abstract]

Coplan JD, Gupta NK, Flynn SK, Reiner WJ, Gaita D, Fulton SL et al. Maternal Cerebrospinal Fluid Glutamate in Response to Variable Foraging Demand: Relationship to Cerebrospinal Fluid Serotonin Metabolites in Grown Offspring. *Chronic Stress* 2018.

Fox JK, Warner CM, Drew M. School-Based Intervention for Adolescents with Impairing Social Anxiety. In: Leschied AW, Saklofske DH, Flett GL, editors. *Handbook of School-Based Mental Health Promotion: An Evidence-Informed Framework for Implementation*. Springer; 2018. p. 411-27.

Iacoviello BM, Murrough JW, Hoch MM, Huryk KM, Collins KA, Cutter GR et al. A randomized, controlled pilot trial of the Emotional Faces Memory Task: a digital therapeutic for depression. *npj Digital Medicine* 2018;1: Article 21.

Kamarajan C, Ardekani BA, Pandey AK, Porjesz B. Default mode network alterations in alcoholism: Functional connectivity of resting EEG and fMRI. *Alcoholism: Clinical & Experimental Research* 42[Suppl. 1], 300A. 2018. [Abstract]

Lekas HM. Reframing the Phenomenon of Discharges Against Medical Advice: A Sociologist's Perspective. In: Alfandre D, editor. *Against-Medical-Advice Discharges from the Hospital: Optimizing Prevention and Management to Promote High Quality, Patient-Centered Care*. Springer International Publishing; 2018. p. 53-71.

Levy E, Perez-Gonzalez R, Peng KY, Mathews PM. Interrelationships between endosomal pathology

and exosomal generation and release in neurodegenerative disorders. *Journal of Extracellular Vesicles* 7[Suppl. 1], 109. 2018. [Abstract]

Monti E, Van Lancker-Sidtis D. Can childhood trauma impact the adult voice through the brain? *Journal of Interdisciplinary Voice Studies* 2018; 3(1):45-60.

Peng KY, Perez-Gonzalez R, Alldred MJ, Morales-Corraliza J, Ginsberg SD, Saito M et al. Apolipoprotein E4 compromises brain exosome production and secretion. *Journal of Extracellular Vesicles* 7[Suppl. 1], 108-109. 2018. [Abstract]

Perez-Gonzalez R, Levy E. Processing of the amyloid precursor protein in the exosomal pathway: propagation of Alzheimer's disease pathology. *Journal of Extracellular Vesicles* 7[Suppl. 1], 156. 2018. [Abstract]

Saito M, Smiley JF, Hui M, Masiello K, Betz J, Lewin M et al. Brain region-specific long-lasting reduction in parvalbumin-and perineuronal net-positive cell densities in mice exposed to neonatal ethanol. *Alcoholism: Clinical & Experimental Research* 42[Suppl. 1], 41A. 2018. [Abstract]