# The NKInformer



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

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May – July 2023

Stuart Moss, MLS, Editor

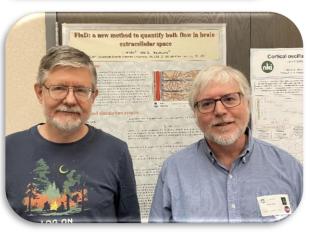
## SCIENCE DAY 2023

Science Day at NKI returned on May 23<sup>rd</sup> after a three-year hiatus due to COVID. Organized by the Community Building Committee, Science Day featured short presentations by five young researchers, followed by refreshments and then a poster session. Forty-five posters were accepted for the exhibition. The full program and abstracts, along with additional photos, can be found on the NKI website.









## **M**IKI **K**OHN (1933 – 2023)



Photo courtesy of Jeremy Cohen (@jermcohen)

**Dr. Michael ("Miki") Kohn** passed away on May 16<sup>th</sup> at the age of 90. Miki arrived at NKI (then called the Research Facility at Rockland State Hospital) in 1957 and worked here for the rest of his life. His 66 years of service will surely remain a record for longevity. To him, NKI was simply "the place". On May 16<sup>th</sup>, 2022, the NKI auditorium was dedicated in his honor, recognizing his many contributions to the Institute over the years.

Miki Kohn was born in Budapest, Hungary, and he survived the Holocaust before coming to the U.S. in 1950. When he arrived here, he had two dollars in his pocket and barely spoke English. Nevertheless, he put himself through high school and then City College. Later, he earned a Ph.D. in Electrical Engineering from NYU. For more about Miki's career, see the June 2022 issue of *The Informer*.

Dr. Kohn is survived by two sons and six grandchildren. He and his life partner, Elinor Grayzel, recently celebrated 35 years together. In addition to his dedication to NKI, Miki loved opera, travel, and books.

### **HAPPY TRAILS**



Arthur Saltzman (right) pictured with earlier NKI retiree
Art Fleischer

On June 27<sup>th</sup>, colleagues and friends gathered to celebrate the retirement of **Arthur Saltzman** after 32+ years at NKI. Arthur originally worked in the lab of Seymour Levine before joining Steve Ginsberg's lab. He plans to move to Florida for his retirement.



The Ginsberg Lab – Front row: Gisele Ferrari, Harshitha Pidikiti, Aleksandra Stanisavljevic, Amanda Labuza and baby, Melissa Alldred; Back row: Kyrillos Ibrahim, Stephen Ginsberg, Arthur Saltzman

## **NKI SUMMER SCHOLARS '23**

The seventh year of the NKI Summer Scholars Internship Program is entering the home stretch for 2023. This year's students were mentored by Internship Program Co-Directors Kristin Dietz Trautman, LCSW, and Anna MacKay-Brandt, PhD; Chelsea Reichert, PhD; Stan Colcombe, PhD; Babak Ardekani, PhD; Eduardo Gonzalez-Moreira, PhD; Jean-Pierre Lindenmayer, MD; and Sharifa Williams, PhD. At least four of this year's Summer Scholars obtained competitive awards through their academic institutions for stipends to support their unpaid NKI internships. These are: Riya Chaturvedi (Temple); Isabel Coca (Wheaton); Nicole Deng (Wesleyan); and Jonathan Yohannan (Cornell).

NKI faculty presented the Wednesday afternoon internship seminar series. Speakers were Drs. Anna MacKay-Brandt, Stan Colcombe, Chelsea Reichert, Sharifa Williams, Pam Butler, Alex Franco, Russell Tobe, and Matt Hoptman. The series will wrap up on August 2<sup>nd</sup> with a session led by Kristin Dietz Trautman and Anna MacKay-Brandt in which the Summer Scholars will give presentations and receive career development feedback.

The Summer 2024 application window opens in mid-September and preliminary interviews are

conducted in January. Faculty interested in participating in the 2024 Summer program as a mentor or seminar presenter are welcome to contact the internship directors for more information.

#### The 2023 Summer Scholars

• Ibrahim Bukhari NYU

Riya Chaturvedi Temple University
 Isabel Coca Wheaton College

Nicole Deng
 Mia Giaever
 Adithi Jayaraman
 Wesleyan University
 Middlebury College
 Dartmouth College

• Lexuan Jiang Teachers Coll., Columbia

• Mohan Liu NYU

• Andrea Vijil Morin *Macalaster College* 

Sankhepo Ndlovu
 Giovanna Novi
 S. New Hampshire U.
 Colby College

• Furqan Qureshi Colby College

• Andrea Suazo Rivas Grinnell College

Jocelyn Wang NYU Zhiyan Yang NYU

• Jonathan Yohannan Cornell University



### **GRANTS RECEIVED**



Drs. Charles Schroeder and Michael Milham (Center for Biomedical Imaging & Neuromodulation) received a five-year renewal of the Silvio O. Conte Centers for Basic Neuroscience or Translational Mental Health Research P50 grant titled "Neurobiology and Cognitive Role of Slow Brain Network Fluctuations."

**Dr. Charles Schroeder** (Center for Biomedical Imaging & Neuromodulation) with his collaborator at Columbia University, Dr. Serge Przedborski, received a two-year UG3 award titled "Circuit-specific, chemogenetic neuromodulation in nonhuman primates."

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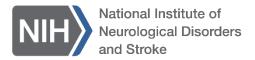
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Drs. Dan Javitt (Schizophrenia Research), Sam Neymotin (C-BIN), Noelle O'Connell (C-BIN), and Robert Sears (Emotional Brain Institute) received an R01 titled "Auditory event-related potentials as in vivo preclinical assays of circuit engagement for E/I-based therapeutic development."

**Dr. Tarek Sobeih** (Information Sciences) **and NKI's Innovative Clinical Research Solutions** (ICRS) will be providing data management support for the R01 grant titled "<u>A Multimodal Imaging Study of Dopamine in Early Psychosis</u>." This R01 grant is a collaboration with Dr. Ragy Girgis at NYSPI.

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**Dr. Helen Scharfman** (Center for Dementia Research) received a five-year renewal of the R01 grant titled "The Role of Hippocampal area CA2 in Epilepsy."



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In collaboration with Dr. Amit Anand at Brigham and Women's Hospital, **Dr. Katherine Collins** (Clinical Research) received a grant from **Patient Centered Outcomes Research Institute** (PCORI) titled "Rapid Reversal of Suicidal Depression: Comparative Effectiveness of ECT vs. Ketamine Over the Lifespan."



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**Dr. Nunzio Pomara** (Geriatric Psychiatry) received a subcontract from the University of Southern California for the clinical trial titled "<u>Alzheimer's</u> <u>Disease Neuroimaging Initiative (ADNI4)</u>."

## FROM AROUND THE INSTITUTE

#### Welcome (Back) Aboard

A familiar face is back at NKI with a new role. **Anina Klein**, JD, MSW, CCRA, worked here for 11 years as a Senior Clinical Research Associate with the

Innovative Clinical Research Solutions (ICRS) group. Now Anina has returned as Director the of Research Education. She will be based at NKI but oversee research education for all OMH researchers.



**Judy A. Moore**, MPH, is the new Regulatory Core Director for the NYS Office of Mental Health Human Research Protection Program. In this position, Judy will oversee legal and institutional requirements related to reliance agreements; review IRB submissions and grant materials for internal

and congruency; evaluate ongoing research activities to check for potential participant safety issues. Judy has a Master of **Public** Health (MPH) Degree from CUNY Lehman. Before joining OMH, she spent over 15 years as an Oncology Clinical Research

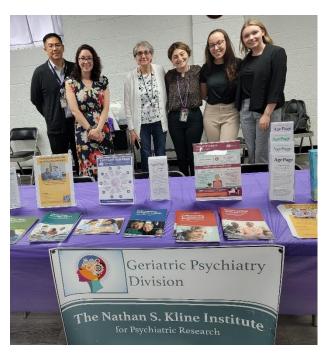


Manager at Memorial Sloan Kettering Cancer Center and Westchester Medical Center where she was involved in overseeing the daily operations of all departmental protocols.

The next issue of the *Informer* will include a description of the OMH Human Research Protections Program.

## ALZHEIMER'S \ ASSOCIATION°

On June 24<sup>th</sup>, the **Geriatric Psychiatry** department held a memory screening event in collaboration with the Alzheimer's Association at the Pilgrim Baptist Church in Nyack, NY. The event was titled "Healthy Living Education Program" and after the educational event, Dr. Pomara's team conducted mobile memory screenings for any community members who attended.



From left to right Antero Sarreal, Chelsea Reichert Plaska, Vita Pomara, Annie Schatz, Giovanna Novi, and Ann Marie McGrory.



### Center for Dementia Research

**Dr. Pasquale D'Acunzo** (Levy Lab) gave the <u>CDR</u> <u>Neuroscience Seminar Series</u> presentation on May 4<sup>th</sup>. His topic was "Mitovesicles: a novel subtype of brain extracellular vesicles altered with aging and disease."



Center for Dementia Research Director **Dr. Ralph Nixon** contributed his latest <u>comments on new</u>
<u>papers</u> to the Alzforum website. One of these
comments was coauthored by CDR investigator **Dr. Ju-Hyun Lee**.

Friday afternoon pickup soccer has returned to NKI for the summer. Everyone is welcome to join in, Fridays at 5:00 next to the parking lot in front of building 35. For those who are interested, there is also a new chat link for this:

https://chat.whatsapp.com/GQCkSiGNLm49vPDIJ fl5JK



### **PUBLICATIONS OF NOTE**

## nature

**Regina Sullivan** (Emotional Brain Institute) is a coauthor of this article recently published in *Nature*.

Mei L, Yan R, Yin L, Sullivan RM, Lin D. Antagonistic circuits mediating infanticide and maternal care in female mice. Nature. 2023 Jun 7. PMID: 37286598.



This Open Forum piece in *Psychiatric Services* was coauthored by **Marilena Lekas**, **Crystal Lewis**, and **Kerstin Pahl** (Social Solutions & Services).

Lekas HM, Lewis C, Bradley MV, Pahl K. <u>The Color of Autonomy: Examining Racial Inequity in Coercive Institutional Practices</u>. Psychiatr Serv. 2023 May 5. PMID: 37143336.

## nature reviews neuroscience

**Helen Scharfman** (Dementia Research) coauthored this Perspective piece appearing in *Nature Reviews Neuroscience*.

Borzello M, Ramirez S, Treves A, Lee I, Scharfman H, Stark C, Knierim JJ, Rangel LM. <u>Assessments of dentate gyrus function: discoveries and debates</u>. Nat Rev Neurosci. 2023 Jun 14. PMID: 37316588.



This recent paper coauthored by **Lila Davachi** (Biomedical Imaging & Neuromodulation) was published in *PNAS*.

Halpern DJ, Tubridy S, Davachi L, Gureckis TM. Identifying causal subsequent memory effects. Proc Natl Acad Sci U S A. 2023 Mar 28; 120(13):e2120288120. PMID: 36952384.

# nature methods

Center for Biomedical Imaging & Neuromodulation Director **Michael Milham** is the senior author of this paper recently published in *Nature Methods*.

Xu T, Kiar G, Cho JW, Bridgeford EW, Nikolaidis A, Vogelstein JT, Milham MP. ReX: an integrative tool for quantifying and optimizing measurement reliability for the study of individual differences. Nat Methods. 2023 Jun 1. PMID: 37264147.

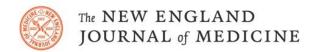
# Neuropsychopharmacology

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Clinical Evaluation Center Director **Russell Tobe** is the corresponding author of this clinical trials report published in *Neuropsychopharmacology*.

Tobe R, Zhu Y, Gleissl T, Rossomanno S, Veenstra-VanderWeele J, Smith J, Hollander E. Predictors of placebo response in three large clinical trials of the V1a receptor antagonist balovaptan in autism spectrum disorder. Neuropsychopharmacology. 2023 Apr 12. PMID: 37045991.

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Katherine Collins (Clinical Research) is a coauthor of this recent paper in *The New England Journal of Medicine*. The publication was highlighted in a posting by the Brain & Behavior Research Foundation: "Trial Finds Ketamine and ECT About Equally Effective for Most Patients with Resistant Major Depression"

Anand A, Mathew SJ, Sanacora G, Murrough JW, Goes FS, Altinay M, Aloysi AS, Asghar-Ali AA, Barnett BS, Chang LC, Collins KA, Costi S, Iqbal S, Jha MK, Krishnan K, Malone DA, Nikayin S, Nissen SE, Ostroff RB, Reti IM, Wilkinson ST, Wolski K, Hu B. <u>Ketamine versus ECT for Nonpsychotic Treatment-Resistant Major Depression</u>. N Engl J Med. 2023 May 24. PMID: 37224232.

A letter to the editor by **Nunzio Pomara** (Geriatric Psychiatry) and a colleague also recently appeared in *The New England Journal of Medicine*.

Pomara N, Imbimbo BP. <u>Lecanemab in Early Alzheimer's Disease</u>. N Engl J Med. 2023 Apr 27; 388(17):1630-1631. PMID: 37099353.

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# NeuroImage

Karl-Heinz Nenning, Alex Franco, Arielle Tambini, Stan Colcombe, and Michael Milham (Biomedical Imaging & Neuromodulation) are among the authors of this open access article in *Neuroimage*.

Nenning KH, Xu T, Franco AR, Swallow KM, Tambini A, Margulies DS, Smallwood J, Colcombe SJ, Milham MP. <u>Omnipresence of the sensorimotor-association axis topography in the human connectome</u>. Neuroimage. 2023 May 15; 272:120059. PMID: 37001835.



NKI authors contributed to two recent papers published in *The American Journal of Psychiatry*. Director of Clinical Research **Dan Iosifescu** is a coauthor of this clinical trial report, which was featured in a **Psychiatric News Alert**:

Clayton AH, Lasser R, Parikh SV, Iosifescu DV, Jung J, Kotecha M, Forrestal F, Jonas J, Kanes SJ, Doherty J. <u>Zuranolone for the Treatment of Adults with Major Depressive Disorder: A Randomized, Placebo-Controlled Phase 3 Trial</u>. Am J Psychiatry. 2023 May 3. PMID: 37132201.

And **Ayana Jordan** (Social Solutions & Services) is a coauthor of this Review & Overview:

Widge AS, Jordan A, Kraguljac NV, Sullivan CRP, Wilson S, Benton TD, Alpert JE, Carpenter LL, Krystal JH, Nemeroff CB, Dzirasa K. Structural Racism in Psychiatric Research Careers: Eradicating Barriers to a More Diverse Workforce. Am J Psychiatry. 2023 Apr 19. PMID: 37073513.



**Ayana Jordan** is also the first author of this paper appearing in the *Journal of Substance Use & Addiction Treatment*.

Jordan A, Costa M, Nich C, Swarbrick M, Babuscio T, Wyatt J, O'Connell M, Guy K, Blackman K, Anderson RR, Reis G, Ocasio L, Crespo M, Bellamy C. Breaking through social determinants of health: Results from a feasibility study of Imani Breakthrough, a community developed substance use intervention for Black and Latinx people. J Subst Use Addict Treat. 2023 May 18. PMID: 37207836.

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**Dan Iosifescu** (Clinical Research) is a coauthor of this review of photobiomodulation therapy published in the June issue of *Psychiatric Clinics of North America*.

Vieira WF, Iosifescu DV, McEachern KM, Gersten M, Cassano P. <u>Photobiomodulation: An Emerging Treatment Modality for Depression</u>. Psychiatr Clin North Am. 2023 Jun; 46(2):331-348. PMID: 37149348.

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NKI investigators contributed to two chapters in this book on *Translational Methods for PTSD Research*, part of the *Neuromethods* book series. The first chapter is by **Regina Sullivan**, **Christopher Cain**, and colleagues (Emotional Brain Institute):

Zanca RM, Stanciu S, Ahmed I, Cain CK, Sullivan RM. Translational Model of Infant PTSD Induction: Methods for Infant Fear Conditioning. In: Pinna G, editor. Translational Methods for PTSD Research. New York: Humana; 2023. p. 1-22.

And **Mohammed Milad** (Clinical Research) is the corresponding author of this chapter:

Miller DB, Rassaby MM, Wen Z, Milad MR. Pavlovian Conditioning and Extinction Methods for Studying the Neurobiology of Fear Learning in PTSD. In: Pinna G, editor. Translational Methods for PTSD Research. New York: Humana; 2023. p. 97-115.



This clinical trial report appearing in *Biological Psychiatry* is by first author **Pejman Sehatpour**, corresponding author **Joshua Kantrowitz** (Schizophrenia Research, and coauthors including **Dan Iosifescu** and **Connie Shope** (Clinical Research).

Sehatpour P, Iosifescu DV, De Baun HM, Shope C, Mayer MR, Gangwisch J, Dias E, Sobeih T, Choo TH, Wall MM, Medalia A, Saperstein AM, Kegeles LS, Girgis RR, Carlson M, Kantrowitz JT. <u>Dose-Dependent Augmentation of Neuroplasticity-Based Auditory Learning in Schizophrenia: A Double-Blind, Placebo-Controlled, Randomized, Target Engagement Clinical Trial of the NMDA Glutamate Receptor Agonist d-serine. Biol Psychiatry. 2023 Jan 28. PMID: 36958998.</u>



These two papers recently published in the open access journal *Frontiers in Neuroscience* are by **Mariko Saito**, **John Smiley**, **Donald Wilson**, and NKI colleagues.

Smiley JF, Bleiwas C, Marino BM, Vaddi P, Canals-Baker S, Wilson DA, Saito M. Estimates of total neuron number show that neonatal ethanol causes immediate and lasting neuron loss in cortical and subcortical areas. Front Neurosci. 2023 May 2; 17:1186529. PMID: 37205048.

Saito M, Subbanna S, Zhang X, Canals-Baker S, Smiley JF, Wilson DA, Das BC. <u>Effects of retinoic acid receptor α modulators on developmental ethanol-induced neurodegeneration and neuroinflammation</u>. Front Neurosci. 2023 May 2; 17:1170259. PMID: 37205047.

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**Stephen Ginsberg** (Dementia Research) coauthored this editorial published in *Frontiers in Aging Neuroscience*.

Ginsberg SD, Tarantini S. <u>Editorial: Hippocampal mechanisms in aging and clinical memory decline</u>. Front Aging Neurosci. 2023 May 5; 15:1204954. PMID: 37213539.

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**Eduardo Gonzalez-Moreira** (Biomedical Imaging & Neuromodulation) is the first author of this open access article in *Brain Sciences*.

Gonzalez-Moreira E, Harmony T, Hinojosa-Rodríguez M, Carrillo-Prado C, Juárez-Colín ME, Gutiérrez-Hernández CC, Carlier MEM, Cubero-Rego L, Castro- Chavira SA, Fernández T. Prevention of Neurological Sequelae in Preterm Infants. Brain Sci. 2023 May 2; 13(5):753. PMID: 37239225.



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This systematic review in the open access journal *Life* is by corresponding author **Umit Tural**, **Allison Sparpana**, **Elizabeth Sullivan**, and senior author **Dan Iosifescu** (Clinical Research).

Tural U, Sparpana A, Sullivan E, Iosifescu DV. Comparison of Adiponectin Levels in Anorexia Nervosa, Bulimia Nervosa, Binge-Eating Disorder, Obesity, Constitutional Thinness, and Healthy Controls: A Network Meta-Analysis. Life (Basel). 2023 May 13; 13(5):1181. PMID: 37240826.

### INFO UPDATE



FindSupport.gov is a new website launched by the U.S. Department of Health and Human Services. It is designed for the general public, to help people identify available resources, explore unbiased information about various treatment options, and learn how to reach out to get the support they need for issues related to mental health, drugs, or alcohol.

<u>Another new web page</u> provides consumer-friendly information about the No Surprises Act, which protects people from unexpected medical bills.



In the last six months or so, artificial intelligence (AI) tools such as ChatGPT have exploded into the mainstream. Some see AI as a threat to life on earth, while others think that it is going to save humanity. What seems certain is that AI is going to have far-reaching consequences in many areas of our lives. To give just one example, AI has already created a stir in the world of scientific publishing, prompting a debate about the appropriateness and ethics of its use in the production of articles. See "Is ChatGPT a Friend or Foe of Medical Publishing" on Medscape for a discussion of some of the issues.

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# Healthy Minds

Season 8 of the public television series *Healthy Minds with Dr. Jeffrey Borenstein* is now available to watch on <u>PBS.org</u>. The Emmy nominated series is produced by the Brain & Behavior Research Foundation. Episodes from previous seasons can be viewed here.



April 30<sup>th</sup> marked the 30<sup>th</sup> anniversary of the public launch of the World Wide Web, an event which forever changed the way the world works, plays, and learns. <u>This piece on NPR</u> ran on the anniversary day.

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 <u>link to the NKI Library's website</u> 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 (<u>journal finder</u>, <u>online catalog</u>, etc.).

### **EVENTS AND SEMINARS**

# Center for Biomedical Imaging and Neuromodulation Science Series

Held on Mondays at 11 am via Zoom

https://childmind.zoom.us/j/87444738909?pwd=TEI4T VduMVp1WS9QV0VWUkVKU2xvQT09&from=addon

> Meeting ID: 874 4473 8909 Passcode: 987767

#### **Ernst Schwartz, PhD**

Medical University of Vienna

Evolution of cortical geometry and its link to function, behavior, and ecology

July 31st

#### Carolina Makowski, PhD

UC San Diego August 7<sup>th</sup>

#### Erika Raven, PhD

NYU Langone September 11<sup>th</sup>

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# **Center for Dementia Research Neuroscience Seminar Series**

Held on Thursdays in the Miki Kohn conference room.

#### Christine A. Denny, PhD

Columbia University

Identification and manipulation of individual memory traces in cognitive and psychiatric diseases

September 14th

Victor Luna, PhD

**Temple University** 

Hippocampal neurogenesis and aging-related cognitive decline

September 21st

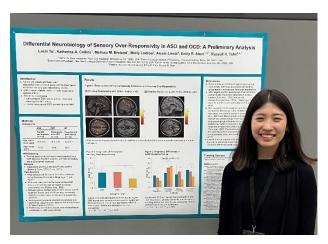
The New York State Office of Mental Health (OMH) regularly hosts an interactive video broadcast covering the latest research, technology, and treatment implementation in the fields of psychiatry and psychology. These programs are recorded, and the archived Statewide Grand Rounds programs can be viewed on the OMH website.

### **NKI ON THE ROAD**



**Lucia Tu**, a senior research assistant in NKI's Clinical Evaluation Center (CEC), presented her work at the **International Society for Autism Research (INSAR) Annual Meeting** in Stockholm in May:

Tu L, Collins KA, Breland MM, Ludlow M, Lieval A, Stern ER, and Tobe RH. Differential Neurobiology of Sensory Over-Responsivity in ASD and OCD: A Preliminary Analysis.



Lucia Tu at INSAR

CEC Director **Dr. Russ Tobe** also presented at the meeting:

Tobe RH, Zhu Y, Gleiss T, Rossomanno S, Veenstra-VanderWeele J, Smith J, Hollander E. Predictors of Placebo Response in Three Large Clinical Trials with the V1a Receptor Antagonist Balovaptan in Autism.

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**Dr. Crystal Lewis**, Director of Social Solutions & Services, presented at the <u>Population Health Innovation Summit</u> on June 6<sup>th</sup> in Albany. The topic of her talk was "Minoritized Women Involved in Substance Use: A Call to Action".



**Dr. Esther Blessing** (Clinical Research) presented on "Age-related brain temperature alterations and tau pathology in Alzheimer's disease" at the 13<sup>th</sup> Annual NYU Neuroscience Retreat, held in April at the Edith Macy Conference Center in Briarcliff Manor, NY.



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**Dr. Robert Smith** (Neurochemistry) presented a poster at the Schizophrenia International Research Conference held in Toronto in May:

Odor Discrimination and identification in Schizophrenia: Relationship to mRNA in Lymphocytes and MATRICS Battery scores.

Neurochemistry colleague **Dr. Henry Sershen** was the principal coauthor of this work.

### **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 7,200 items dating back to 1995 and can be searched from the myNKI website.

Alldred MJ, Ginsberg SD. Microisolation of Spatially Characterized Single Populations of Neurons for RNA Sequencing from Mouse and Postmortem Human Brain Tissues. J Clin Med. 2023 May 5; 12(9):3304. PMID: 37176744.

Alldred MJ, Pidikiti H, Heguy A, Roussos P, Ginsberg SD. Basal forebrain cholinergic neurons are vulnerable in a mouse model of Down syndrome and their molecular fingerprint is rescued by maternal choline supplementation. FASEB J. 2023 Jun;37(6):e22944. PMID: 37191946.

Amer T, Davachi L. Extra-hippocampal contributions to pattern separation. Elife. 2023 Mar 27;12:e82250. PMID: 36972123.

Anand A, Mathew SJ, Sanacora G, Murrough JW, Goes FS, Altinay M, Aloysi AS, Asghar-Ali AA, Barnett BS, Chang LC, Collins KA, Costi S, Iqbal S, Jha MK, Krishnan K, Malone DA, Nikayin S, Nissen SE, Ostroff RB, Reti IM, Wilkinson ST, Wolski K, Hu B. Ketamine versus ECT for Nonpsychotic Treatment-Resistant Major Depression. N Engl J Med. 2023 May 24. PMID: 37224232.

Bach DR, Sporrer J, Abend R, Beckers T, Dunsmoor JE, Fullana MA, Gamer M, Gee DG, Hamm A, Hartley CA, Herringa RJ, Jovanovic T, Kalisch R, Knight DC, Lissek S, Lonsdorf TB, Merz CJ, Milad M, Morriss J, Phelps EA, Pine DS, Olsson A, van Reekum CM, Schiller D. Consensus design of a calibration experiment for human fear conditioning. Neurosci Biobehav Rev. 2023 May; 148:105146. PMID: 36990370.

Badarnee M, Wen Z, Nassar N, Milad MR. Gray matter associations with extinction-induced neural activation in patients with anxiety disorders. J Psychiatr Res. 2023 Jun; 162:180-186. PMID: 37167838.

Bonilla H, Peluso MJ, Rodgers K, Aberg JA, Patterson TF, Tamburro R, Baizer L, Goldman JD, Rouphael N, Deitchman A, Fine J, Fontelo P, Kim AY, Shaw G, Stratford J, Ceger P, Costantine MM, Fisher L, O'Brien L, Maughan C, Quigley JG, Gabbay V, Mohandas S, Williams D, McComsey GA. Therapeutic trials for long COVID-19: A call to action from the interventions taskforce of the RECOVER initiative. Front Immunol. 2023 Mar 9; 14:1129459. PMID: 36969241.

Bruin WB, Abe Y, Alonso P, Anticevic A, et al. The functional connectome in obsessive-compulsive disorder: resting- state mega-analysis and machine learning classification for the ENIGMA-OCD consortium. Mol Psychiatry. 2023 May 2. PMID: 37131072.

Cable J, Witwer KW, Coffey RJ, Milosavljevic A, von Lersner AK, Jimenez L, Pucci F, Barr MM, Dekker N, Barman B, Humphrys D, Williams J, de Palma M, Guo W, Bastos N, Hill AF, Levy E, Hantak MP, Crewe C, Aikawa E, Adamczyk AM, Zanotto TM, Ostrowski M, Arab T, Rabe DC, Sheikh A, da Silva DR, Jones JC, Okeoma C, Gaborski T, Zhang Q, Gololobova O. Exosomes, microvesicles, and other extracellular vesicles-a Keystone Symposia report. Ann N Y Acad Sci. 2023 May; 1523(1):24-37. PMID: 36961472.

Caravella RA, Ying P, Siegel C, Vaughn R, Deutch AB, Caroff A, Madanes S, Ackerman MG, Lewis C. Quality Improvement (QI) Framework to Examine Health Care Disparities in Behavioral Emergency Management in the Inpatient Medical Setting: A Consultation-Liaison (CL) Psychiatry Health Equity Project. J Acad Consult Liaison Psychiatry. 2023 Apr 13. PMID: 37060945.

Chartampila E, Elayouby KS, Leary P, LaFrancois JJ, Alcantara-Gonzalez D, Jain S, Gerencer K, Botterill JJ, Ginsberg SD, Scharfman HE. Choline supplementation in early life improves and low levels of choline can impair outcomes in a mouse model of Alzheimer's disease. bioRxiv [Preprint]. 2023 May 12. PMID: 37214805.

Clayton AH, Lasser R, Parikh SV, Iosifescu DV, Jung J, Kotecha M, Forrestal F, Jonas J, Kanes SJ, Doherty J. Zuranolone for the Treatment of Adults with Major Depressive Disorder: A Randomized, Placebo-Controlled Phase 3 Trial. Am J Psychiatry. 2023 May 3. PMID: 37132201.

Colombel N, Ferreira G, Sullivan RM, Coureaud G. Dynamic developmental changes in neurotransmitters supporting infant attachment learning. Neurosci Biobehav Rev. 2023 May 29; 151:105249. PMID: 37257712.

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