

The NKI Informer



Nathan S. Kline
Institute

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

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March – April 2023

Stuart Moss, MLS, Editor

ACTION AGAINST RACISM AT NKI

*Contributed by the NKI Action Against Racism Committee (AARC)**

Following the murder of George Floyd during the summer of 2020, there ensued national and global protests calling for social justice and, specifically, an end to racism against Black Americans. The Nathan Kline Institute for Psychiatric Research (NKI) responded to this call. Institute Director Dr. Don Goff, and Dr. Crystal Lewis, Division Head of Social Solutions & Services Research, convened a cross-department advisory group to address issues related to the pursuit of diversity and equity at NKI. The NKI Anti-Racism Workgroup consists of ten members who are socially and demographically diverse across ages, races and ethnicities, genders, immigration histories, and religious backgrounds. On September 23, 2020, the workgroup began virtual meetings to *share experiences* at NKI and *build consensus* on strategies to create an antiracist organizational culture at NKI, and to *identify overarching target areas* for the applications of these strategies.

To aid in this effort, the workgroup developed an assessment that can serve as the foundation for *Recommendations for Institute Leadership* comprised of actionable strategies to build a diverse and equitable work environment at NKI.

Action
Against
Racism
Committee
@ NKI

We Need You!

Join an AARC workgroup!

- ✧ **Women in Science**
- ✧ **Education & Training**
- ✧ **Brown Bag / Journal Club**
- ✧ **Seminar / Grand Rounds**

Implementation of the NKI Cultural Climate Assessment

In February 2021, the NKI Anti-Racism Workgroup drafted and finalized the *NKI Cultural Climate Assessment*, which was administered to NKI employees using a web-based survey platform (REDCap). This voluntary 50-item survey ascertained information across the following domains: (1) experiences of institutional characteristics relating to respect and appreciation; (2) level of diversity and representation; and (3) experiences of stigma and discrimination in the

workplace. The assessment was completed in December 2022 and included a total of 193 surveys, of which 90% (n=173) were completed and analyzed by an independent data analyst. On February 28th, the NKI Cultural Climate Assessment results were presented to a “standing room” only conference room including approximately 100 employees, some of whom viewed the town hall virtually. These results will later be shared in a final report format.

The Cultural Climate Assessment has already begun shaping initial steps in our journey to create a more welcoming, inclusive, and equitable work environment at NKI. First, the Anti-Racism Workgroup will now officially exist as the *NKI Action Against Racism Committee (AARC)* and will support four interest groups **open to all NKI staff**:

- (1) Women in Science
- (2) Education & Training
- (3) Journal Club
- (4) Seminar/Webinar/Roundtable Series.

And second, the NKI-AARC will work more closely together with the Community Building Committee (CBC) to share support resources given our similar overarching goal of creating a healthy work culture at NKI.

If you would like to join our efforts and can carve out time on a Wednesday afternoon at 3pm (monthly or less) to develop and organize our efforts for one of the four AARC interest groups, please [notify Stuart Moss](#).

***NKI AARC Members:**

Crystal Lewis (Chair)
Don Goff (Co-Chair)
Alexandre Franco
Matthew Hoptman
Helen-Maria Lekas
Katlyn Nemani
Karya Ottey
Kerstin Pahl
Tarek Sobeih
Sharifa Williams

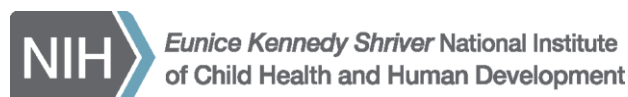
GRANTS RECEIVED



Dr. Stephen Ginsberg (Dementia Research), in collaboration with co-PI Grace E. Stutzmann (Rosalind Franklin University), received a three-year RF1 from the National Institute on Aging titled [“Septohippocamal connectome dysfunction in Down syndrome associated with Alzheimer’s disease pathophysiology.”](#)



Dr. Robert Sears (Emotional Brain Institute) received an R01 from the National Institute of Mental Health titled, [“Brainstem modulation of proactive coping,”](#) with a subcontract to NKI.



Dr. Catia Teixeira (Emotional Brain Institute) received an R01 from the Eunice Kennedy Shriver National Institute of Child Health and Human Development entitled [“Role of PFC Activity in the Behavioral Deficits Induced by Maternal Separation,”](#) with a subcontract to NKI.



Dr. Crystal Lewis (Social Solutions & Services), in collaboration with Flushing Hospital, received a grant from SAMHSA titled [“Community-Driven Approaches to Address Factors Contributing to Structural Racism in Public Health.”](#)

FROM AROUND THE INSTITUTE

KEYSTONE SYMPOSIA

Ralph Nixon, Director of the Center for Dementia Research, was one of the scientific organizers of a recent Keystone Symposium held at Snowbird Resort in Utah. The topic of the three day symposium was “[Autophagy and Neurodegeneration: Mechanisms to Therapies](#)”. In addition to organizing, Dr. Nixon gave a presentation and co-chaired two workshops.

Dr. Nixon notes that “The links between neurodegenerative diseases and autophagy disruption as a pathogenic driver in many cases have been broadly recognized. This meeting represents the first major international conference dedicated to the rapidly evolving progress toward targeting these processes therapeutically. The program offered initial glimpses of promising clinical translation originating from surging industry interest in autophagy modulation as therapy in the field of neurodegeneration. It featured new findings from a multidisciplinary panel of academic and industry speakers and a combination of conceptual themes spanning from basic biology of neuronal and glial autophagy to translational medicine and therapeutics. Appreciation of the brain’s special vulnerabilities to autophagy dysfunction has grown and promising therapeutic responses to autophagy modulation in major neurodegenerative disorders are emerging from preclinical studies.”



Brainsight®

TMS

Training sessions were held last month in the library for new equipment received by the [Center for Biomedical Imaging and Neuromodulation](#) (C-BIN). These are the first pieces of equipment purchased with a 2022 S10 grant ([Transcranial focused ultrasound platform for noninvasive neuromodulation](#)). Steve Frey from Rogue Research in Canada provided the training on a neuronavigation system called [Brainsight](#), which allows for MRI-based brain navigation to plan the placement of Transcranial Focused Ultrasound stimulators or TMS devices. The system enables real-time navigation around a subject to see where the devices are pointing at in the brain.



Training was offered to members of the community who are interested in neuromodulation, including Emily Stern’s lab, Arielle Tambini, and C-BIN.

Contributed by Arnaud Falchier, PhD



PUBLICATIONS OF NOTE

Neuron

Helen Scharfman and **Swati Jain** (Dementia Research) are coauthors of this open access paper published in *Neuron*.

Rosenberg EC, Chamberland S, Bazelot M, Nebet ER, Wang X, McKenzie S, Jain S, Greenhill S, Wilson M, Marley N, Salah A, Bailey S, Patra PH, Rose R, Chenouard N, Sun SED, Jones D, Buzsáki G, Devinsky O, Woodhall G, Scharfman HE, Whalley BJ, Tsien RW. [Cannabidiol modulates excitatory-inhibitory ratio to counter hippocampal hyperactivity](#). *Neuron*. 2023 Feb 10. PMID: 36787750.



Matthew Hoptman and colleagues (Clinical Research) published their latest findings in this letter in *Schizophrenia Research*. The authors found that emotion-related impulsivity (urgency) is related to suicidal ideation in schizophrenia. Dr. Hoptman notes that “urgency mediated the relationship between depressed symptoms in schizophrenia and suicidal ideation, consistent with his prior work in violence (Hoptman et al., 2014), and suggests that urgency plays an important role in emotionally dysregulated behavior.”

Hoptman MJ, Tural U, Arnold MS, Collins KA, Evans KT, Irvin MK, Parincu Z, Rette DN, Sparpana AM, Sullivan EF, Iosifescu DV. [Suicidal ideation and behavior in schizophrenia: The role of negative urgency and psychiatric symptoms](#). *Schizophr Res*. 2023 Mar 10; 254:173-175. PMID: 36906943.

Clinics Review Articles

Psychiatric Clinics

Laura Bragdon, Goi Khia Eng, Nicolette Recchia, Katherine Collins, and Emily Stern (Clinical Research) published this review in the March issue of *Psychiatric Clinics of North America*.

Bragdon LB, Eng GK, Recchia N, Collins KA, Stern ER. [Cognitive Neuroscience of Obsessive-Compulsive Disorder](#). *Psychiatr Clin North Am*. 2023 Mar; 46(1):53-67. PMID: 36740355.

Current Biology

Marcin Leszczynski, Charles Schroeder, and other members of the Translational Neurosciences Lab (Center for Biomedical Imaging & Neuromodulation) published their latest work recently in *Current Biology*.

Leszczynski M, Bickel S, Nentwich M, Russ BE, Parra L, Lakatos P, Mehta A, Schroeder CE. [Saccadic modulation of neural excitability in auditory areas of the neocortex](#). *Curr Biol*. 2023 Feb 24. PMID: 36863343.

The Neuroscientist

Donald Wilson, Director of the Emotional Brain Institute, coauthored this article in *The Neuroscientist* with Wen Li of Florida State University.

Li W, Wilson DA. [Threat Memory in the Sensory Cortex: Insights from Olfaction](#). *Neuroscientist*. 2023 Jan 26. PMID: 36703569.



CHILD & ADOLESCENT PSYCHIATRY & MENTAL HEALTH

Michael Milham, Director of the Center for Biomedical Imaging & Neuromodulation, is a senior author of this report in *Child & Adolescent Psychiatry & Mental Health*.

Conway KP, Bhardwaj K, Michel E, Paksarian D, Nikolaidis A, Kang M, Merikangas KR, Milham MP. [Association between COVID-19 risk-mitigation behaviors and specific mental disorders in youth](#). *Child Adolesc Psychiatry Ment Health*. 2023 Jan 24; 17(1):14. PMID: 36694157.



Dr. Milham is also a coauthor of this international study on COVID-19 and autism appearing in *Molecular Autism*.

Vibert B, Segura P, Gallagher L, Georgiades S, ... , Milham MP, Di Martino A. [CRISIS AFAR: an international collaborative study of the impact of the COVID-19 pandemic on mental health and service access in youth with autism and neurodevelopmental conditions](#). *Mol Autism*. 2023 Feb 14; 14(1):7. PMID: 36788583.



Vinod Yaragudri, Henry Sershen, Janelle Cange, and **Ria Sah** are coauthors of this article published in *Frontiers in Pharmacology*, reporting the finding of a sex-dependent effect of psilocybin on ethanol consumption in mice.

Alper K, Cange J, Sah R, Schreiber-Gregory D, Sershen H, Vinod KY. [Psilocybin sex-dependently reduces alcohol consumption in C57BL/6J mice](#). *Front Pharmacol*. 2023 Jan 4; 13:1074633. PMID: 36686713.

Alzheimer's Research & Therapy

This open access article appearing in *Alzheimer's Research & Therapy* is by **Daniel Javitt, Antígona Martínez, Pejman Sehatpour, Dalton Bermudez** (Schizophrenia Research), and colleagues.

Javitt DC, Martínez A, Sehatpour P, Beloborodova A, Habeck C, Gazes Y, Bermudez D, Razlighi QR, Devanand DP, Stern Y. [Disruption of early visual processing in amyloid-positive healthy individuals and mild cognitive impairment](#). *Alzheimers Res Ther*. 2023 Feb 28; 15(1):42. PMID: 36855162.



Neuroscience & Biobehavioral Reviews

Another recent paper by **Dr. Javitt** (Schizophrenia Research) and colleagues was published in *Neuroscience & Biobehavioral Reviews*.

Dondé C, Kantrowitz JT, Medalia A, Saperstein AM, Balla A, Sehatpour P, Martínez A, O'Connell MN, Javitt DC. [Early auditory processing dysfunction in schizophrenia: Mechanisms and implications](#). *Neurosci Biobehav Rev*. 2023 Feb 14; 148:105098. PMID: 36796472.



Xiuli Zhang (first author), **Mariko Saito** (corresponding author), and several NKI coauthors (Neurochemistry, Emotional Brain Institute) published this new paper in *Neurochemical Research*.

Zhang X, Subbanna S, Williams CRO, Canals-Baker S, Smiley JF, Wilson DA, Das BC, Saito M. [Anti-inflammatory Action of BT75, a Novel RAR \$\alpha\$ Agonist, in Cultured Microglia and in an Experimental Mouse Model of Alzheimer's Disease](#). *Neurochem Res*. 2023 Feb 13. PMID: 36781685.



This recent paper by **Renée Hartig** and **Henry Evrard** (Biomedical Imaging & Neuromodulation), along with their colleague from the Max Planck Institute, appears in *Frontiers in Neuroscience*. Dr. Hartig notes that “This paper presents quantifiable characteristics of the macaque monkey gustatory connectome in the central nervous system and its organization as a tri-modular network, which may reflect the general medial-lateral-subcortical organization of salience and interoception processing networks.”

Hartig R, Karimi A, Evrard HC. [Interconnected sub-networks of the macaque monkey gustatory connectome](#). *Front Neurosci*. 2023 Feb 16; 16:818800. PMID: 36874640.

INFO UPDATE



The Network of the National Library of Medicine (NNLM) recently held a series of four 90-minute online classes on the topic of [How PubMed Works](#). These classes are now [available on demand](#), and recordings of the classes can be found on YouTube. The four class modules (with video links) are:

- 1) [Introduction](#)
- 2) [Selection](#)
- 3) [MeSH \(Medical Subject Headings\)](#)
- 4) [ATM \(Automatic Term Mapping\)](#)



[Systematic Reviews and Meta-Analysis](#) is a new online course from The Campbell Collaboration and the Open Learning Initiative. This is a self-paced, asynchronous course covering the entire process of systematic reviews from problem formulation to meta-analysis, appropriate for anyone interested in learning rigorous review methods for the social sciences. The course is open and free during the pilot phase.



[ClinicalTrials.gov](#), a resource provided by the U.S. National Library of Medicine, is a database of privately and publicly funded clinical studies conducted around the world. The site is being revamped, and you can learn about these changes in the upcoming [ClinicalTrials.gov Modernization Public Meeting](#), which will provide a detailed look at the current [beta site](#) and share overall progress on modernization. This virtual public meeting will take place on Tuesday, April 25 from 12:30 p.m. to 3 p.m.

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](#), etc.).

EVENTS AND SEMINARS

Center for Dementia Research Neuroscience Seminar Series

Held on Thursdays in the NKI conference room.

Yadong Huang, MD, PhD

Gladstone Institute of Neurological Disease

***ApoE4 and Alzheimer's Disease: Potential
Mechanisms and Therapeutic Strategies***

April 20th, 10:00 am

Martin Picard, PhD

Columbia University

Mitochondrial Psychobiology and the Brain

April 27th



Center for Biomedical Imaging and Neuromodulation Science Series

Held on Mondays at 11 am via Zoom

<https://childmind.zoom.us/j/2142826575?pwd=dXlSeDRCaW9RNWRpZ2R5Y0dPQkw4UT09>

Shervin Savafi, PhD

Max Planck Institute

June 5th

Jeremy Barry, PhD

University of Vermont

June 12th

NKI Science Day

Tuesday, May 16th, 2023

1:00 am – 5:00 pm

***From Live Brain Imaging to Electron Microscopy,
and Everything in between, we do it here at
NKI! Come and see what your fellow NKI
Researchers are studying!***

Science Day will bring together faculty, staff, and trainees from all departments at NKI to raise awareness of the ongoing research activities throughout the Institute.



Statewide Grand Rounds

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

NYU Langone Health Annual Psychopharmacology Review

NKI faculty were among the presenters at the 2023 NYU Langone Health Annual Psychopharmacology Review held on March 4th. **Dan Iosifescu** (Clinical Research) presented on unipolar depression; **Ayana Jordan** (Social Solutions & Services) presented on substance use disorders; and **Jean-Pierre Lindenmayer** (Manhattan Schizophrenia Research) presented on schizophrenia.



Pasquale D'Acunzo, PhD (Levy Lab, CDR) presented at the NYU Neuroscience Weekly Group Meeting in February on “Chronic Cocaine Exposure Perturbs the Mitochondrial, Endosomal, and Extracellular Vesicle Pathways in the Brain”.

2023 Eastern Association of Electroencephalographers (EAEEG)

Christos Lisgaras, PhD (Scharfman Lab, CDR) presented at the 2023 Eastern Association of Electroencephalographers (EAEEG) Annual Meeting in February in Burlington, Vermont.



Dr. Lisgaras also recently gave a talk online for [Open Box Science](#). His presentation on “A Novel Electrophysiological Biomarker in Animal Models of Alzheimer’s Disease” can be viewed [on YouTube](#).

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 7,100 items dating back to 1995 and can be searched from the [myNKI website](#).

Alper K, Cange J, Sah R, Schreiber-Gregory D, Sershen H, Vinod KY. Psilocybin sex-dependently reduces alcohol consumption in C57BL/6J mice. *Front Pharmacol*. 2023 Jan 4; 13:1074633. PMID: 36686713.

Aronowitz SV, Carroll JJ, Hansen H, Jauffret-Roustide M, ... , Jordan A, et al. Substance use policy and practice in the COVID-19 pandemic: Learning from early pandemic responses through internationally comparative field data. *Glob Public Health*. 2022 Dec; 17(12):3654-3669. PMID: 36692903.

Basavarajappa BS. Epigenetics in fetal alcohol spectrum disorder. *Progress in Molecular Biology and Translational Science* 2023.

Basavarajappa BS, Subbanna S. Synaptic Plasticity Abnormalities in Fetal Alcohol Spectrum Disorders. *Cells*. 2023 Jan 29; 12(3):442. PMID: 36766783.

Bragdon LB, Eng GK, Recchia N, Collins KA, Stern ER. Cognitive Neuroscience of Obsessive-Compulsive Disorder. *Psychiatr Clin North Am*. 2023 Mar; 46(1):53-67. PMID: 36740355.

Cecchi M, Adachi M, Basile A, Buhl DL, Chadchankar H, Christensen S, Christian E, Doherty J, Fadem KC, Farley B, Forman MS, Honda S, Johannesen J, Kinon BJ, Klamer D, Marino MJ, Missling C, O'Donnell P, Piser T, Puryear CB, Quirk MC, Rotte M, Sanchez C, Smith DG, Uslaner JM, Javitt DC, Keefe RSE, Mathalon D, Potter WZ, Walling DP, Ereshefsky L. Validation of a suite of ERP and QEEG biomarkers in a pre-competitive, industry-led study in subjects with schizophrenia and healthy volunteers. *Schizophr Res*. 2023 Mar 13; 254:178-189. PMID: 36921403.

Conway KP, Bhardwaj K, Michel E, Paksarian D, Nikolaidis A, Kang M, Merikangas KR, Milham MP. Association between COVID-19 risk-mitigation behaviors and specific mental disorders in youth. *Child Adolesc Psychiatry Ment Health*. 2023 Jan 24; 17(1):14. PMID: 36694157.

D'Acunzo P, Ungania JM, Kim Y, Barreto BR, DeRosa S, Pawlik M, Canals-Baker S, Erdjument-Bromage H, Hashim A, Goulbourne CN, Neubert TA, Saito M, Sershen H, Levy E. Cocaine perturbs mitovesicle biology in the brain. *J Extracell Vesicles*. 2023 Jan; 12(1):e12301. PMID: 36691887.

Das BC, Yadav P, Das S, Saito M, Evans T. Late-Stage Borylation Strategy for the Development of New Boron-Based Retinoids. *ChemistrySelect* 2023; 8(5):e202205003.

Das BC, Yadav P, Das S, Saito M, Evans T. Development of a New Methodology for Dearomative Borylation of Coumarins and Chromenes and Its Applications to Synthesize Boron-Containing Retinoids. *Molecules*. 2023 Jan 20; 28(3):1052. PMID: 36770721.

Dondé C, Kantrowitz JT, Medalia A, Saperstein AM, Balla A, Sehatpour P, Martinez A, O'Connell MN, Javitt DC. Early auditory processing dysfunction in schizophrenia: Mechanisms and implications. *Neurosci Biobehav Rev*. 2023 Feb 14; 148:105098. PMID: 36796472.

Dyakin VV. Fundamental Cause of Bio-Chirality: Space-Time Symmetry—Concept Review. *Symmetry* 2023; 15(1):79.

Hartig R, Karimi A, Evrard HC. Interconnected sub-networks of the macaque monkey gustatory connectome. *Front Neurosci*. 2023 Feb 16; 16:818800. PMID: 36874640.

Hoffmann MS, Moore TM, Axelrud LK, Tottenham N, Rohde LA, Milham MP, Satterthwaite TD, Salum GA. Harmonizing bifactor models of psychopathology between distinct assessment instruments: Reliability, measurement invariance, and authenticity. *Int J Methods Psychiatr Res*. 2023 Jan 19; e1959. PMID: 36655616.

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Kantrowitz JT, Correll CU, Jain R, Cutler AJ. New Developments in the Treatment of Schizophrenia: An Expert Roundtable. *Int J Neuropsychopharmacol*. 2023 Mar 18. PMID: 36932673.

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Reliford A, Zhang E, Lanina O, Williams SZ, Sanichar N, Khan S, Dapkins I, Frankle WG. Patient and Clinician Satisfaction with the Early Implementation of Telemental Health Services in an Urban Behavioral Health Clinic During the COVID-19 Pandemic. *Telemed J E Health.* 2023 Mar 13. PMID: 36912813.

Rosenberg EC, Chamberland S, Bazilot M, Nebet ER, Wang X, McKenzie S, Jain S, Greenhill S, Wilson M, Marley N, Salah A, Bailey S, Patra PH, Rose R, Chenouard N, Sun SED, Jones D, Buzsáki G, Devinsky O, Woodhall G, Scharfman HE, Whalley BJ, Tsien RW. Cannabidiol modulates excitatory-inhibitory ratio to counter hippocampal hyperactivity. *Neuron.* 2023 Feb 10. PMID: 36787750.

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Tsai YT, Gordon J, Butler P, Zemon V. Frequency-domain analysis of transient visual evoked potentials in schizophrenia. *Doc Ophthalmol.* 2023 Jan 27. PMID: 36702946.

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Flanagan SR, Fossati S, Etkin A, Marmar CR. Screening for PTSD and TBI in Veterans using Routine Clinical Laboratory Blood Tests. *Transl Psychiatry*. 2023 Feb 21; 13(1):64. PMID: 36810280.

Zeisler ZR, London L, Janssen WG, Fredericks JM, Elorette C, Fujimoto A, Zhan H, Russ BE, Clem RL, Hof PR, Stoll FM, Rudebeck PH. High-throughput sequencing of macaque basolateral amygdala projections reveals dissociable connective motifs with frontal cortex. *bioRxiv [Preprint]*. 2023 Feb 20. PMID: 36711708.

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