

MPA *Molecular Psychiatry Association*

9TH BIENNIAL MOLECULAR PSYCHIATRY MEETING

OUTRIGGER KONA RESORT AND SPA
MARCH 6-9, 2024

PROGRAM BOOK



The Molecular Psychiatry Association was founded in 2013 to promote research and communication of research findings that may lead to a better understanding of the molecular basis of psychiatric disorders and the development of new treatments. Various research approaches are being applied including neurobiology, genetics, brain imaging, biomarkers, brain expression, neural stem cells, and animal models. The primary mission of the association is to hold a scientific meeting that is open to all professionals who are interested in the molecular foundations of psychiatric disorders. By bringing together investigators with expertise in various molecular approaches, cross-fertilization and collaborations will take place that will enhance research and improve understanding of the molecular basis of psychiatric disorders.

The society is affiliated with the journal, *Complex Psychiatry*.

2024 Organizing Board

Bill Byerley
Stephanie Dulawa
Zach Freyberg
Conor Liston
Rob Malenka
Tracey Petryshen
Katherine Roche
Stephan Sanders

VENUE INFORMATION

Address:

Outrigger Kona Resort and Spa
78-128 Ehukai Street Kailua-
Kona, Hawaii 96740

Resort Website

For attendees staying offsite, the Outrigger Kona has a daily self-parking charge of \$25 plus tax, but taxi service and rideshare options are available, including the Hawaiian-based rideshare app, *holoholo*.

The MPA meeting rooms will be at the Kaleiopapa Convention Center, with registration in the foyer.



OUTRIGGER

KONA RESORT & SPA

Property Map



REGISTRATION

LOCATION & HOURS

The registration desk is located in the foyer of the Kaleiopapa Convention Center.

Wednesday	6:30 AM - 1 PM
Thursday	6:30 AM - 1 PM
Friday	6:30 AM - 1 PM
Saturday	6:30 AM - 12 PM

WI-FI

Wi-fi- is complimentary in the meeting rooms. Select the OUTRIGGERKONA network. No password is required.

PLENARY SPEAKERS

Thursday, March 7

6:00 p.m. - 7:00 p.m.

Keauhou II

Implications of Genomic Findings for Schizophrenia with Patrick Sullivan

Patrick Sullivan, MD, is the Yeargan Distinguished Professor in the Department of Genetics and Psychiatry at the University of North Carolina at Chapel Hill. He is also a Professor at the Karolinska Institute in Stockholm, Sweden.



Friday, March 8

6:00 p.m. - 7:00 p.m.

Keauhou II

The Evolving Landscape of Autism Research with Kelsey Martin

Kelsey C. Martin, MD, PhD, is Executive Vice President, Autism and Neuroscience, for the Simons Foundation, and Emeritus Professor on Active Recall, Department of Biological Chemistry, at the David Geffen School of Medicine at UCLA

CONFERENCE AGENDA



WEDNESDAY, MARCH 6TH

6:30 a.m. - 7:00 a.m. - Breakfast

Keauhou I

7:00 a.m. - 8:45 a.m. - Concurrent Symposia

Emerging Methods to Study Psychiatric Risk Genes across Time and Space

Keauhou II

Unwrapping Myelin Pathophysiology in ASD

Keauhou III

Functional and Molecular Consequences of Glutamate Receptor Variants in Psychiatric and Neurological Patients

Keauhou IV

9:00 a.m. - 10:45 a.m. - Concurrent Symposia

Cellular Molecular Dissections of Stress-Related Mental Disorders: Human Postmortem, Cerebral Organoid, and Mouse Translational Single-Cell Genomic Advances

Keauhou III

Translational Studies in the Comorbidity of Mood and Addiction Disorders

Keauhou II

Poster Talk Symposium

Keauhou IV

11:00 a.m. - 12:45 p.m. - Concurrent Symposia

Therapeutic Efficacy and Mechanisms of Psychedelic-Class Treatments

Keauhou II

Translational Molecular Approaches for Understanding Neurodevelopmental Disorders: From Molecules, to Circuits, to Behavior Dysfunction

Keauhou III

Multidimensional Perspectives on Transcriptional Signatures in Mood Disorders and Their Sexual Specificity

Keauhou IV

12:45 p.m. - 6:00 p.m. - Mid-day Break

6:00 p.m. - 8:00 p.m. - Welcome Reception

Pa'akai Point

CONFERENCE AGENDA



THURSDAY, MARCH 7TH

7:00 a.m. - 8:45 a.m. - Poster Session I with Breakfast

Keauhou I

9:00 a.m. - 10:45 a.m. - Concurrent Symposia

Genetic, Molecular and Circuit Features of Cortical Interneurons in Schizophrenia

Keauhou II

Cell-Specific Mechanisms in the Neuroplastic Response to Stress and Rapidly Acting Antidepressants

Keauhou III

Molecular Models for Autism Spectrum Disorder

Keauhou IV

11:00 a.m. - 12:45 p.m. - Concurrent Symposia

Emerging Themes in the Molecular Organization of Synapses and Their Implications for Psychiatric Disorders

Keauhou II

Neurobiology of Reward and Motivation: From Molecular Mechanisms to Circuit Dissection and Behavior

Keauhou III

Molecularly Defined Circuit Mechanisms Underlying Feeding

Keauhou IV

12:45 p.m. - 6:00 p.m. - Mid-day Break

6:00 p.m. - 7:00 p.m.

Plenary I: Implications of Genomic Findings for Schizophrenia - Patrick Sullivan

Keauhou II

FRIDAY, MARCH 8TH

7:00 a.m. - 8:45 a.m. - Poster Session II with Breakfast

Keauhou I

9:00 a.m. - 10:45 a.m. - Concurrent Symposia

Linking Genetic Variation to Therapy

Keauhou II

Microglia at the Synapse – Deciphering the Relevant and Targetable Mechanisms in Schizophrenia

Keauhou III

Novel Treatment Targets for Depression Through Cross-Species Investigation of Approach/Avoidance Decision Making

Keauhou IV

11:00 a.m. - 12:45 p.m. - Concurrent Symposia

Future of Rapid Therapeutics: Novel Mechanisms

Keauhou II

Mapping Rare Genetic Risk Factors Across Phenotypic Layers to Understand Common Psychiatric Presentations

Keauhou III

Molecular Mechanisms Regulating Stress Integrative Neural Networks – Novel Translational Insight into the Neurobiology of Stress Vulnerability

Keauhou IV

12:45 p.m. - 6:00 p.m. - Mid-day Break

6:00 p.m. - 7:00 p.m.

Plenary II: The Evolving Landscape of Autism Research - Kelsey Martin

Keauhou II

CONFERENCE AGENDA

SATURDAY, MARCH 9TH

6:30 a.m. - 7:00 a.m. - Breakfast

Keauhou I

7:00 a.m. - 8:45 a.m. - Concurrent Symposia

Cross-Species Analysis of the Autism Risk Gene, CHD8: Translating Insights From Diverse Animal Systems to Inform Human Studies

Keauhou II

Disruption of Proteostasis as a Mechanism Leading to Mental Illness

Keauhou III

Multifaceted Neurobiological Substrates for Stress

Keauhou IV

9:00 a.m. - 10:45 a.m. - Concurrent Symposia

Unraveling Molecular Changes in Schizophrenia With Collective Multiomics of Human Prefrontal Cortex Samples

Keauhou II

Somatic Mosaicism in the Human Brain – Implications for Brain Function and Neuropsychiatric Disorders

Keauhou III

Recent Biomarker Advances in Novel Depression Treatments

Keauhou IV

11:00 a.m. - 12:00 p.m. - MPA Business Meeting

Keauhou II

SCAN to access the complete program and other conference information



MPA'S CODE OF CONDUCT

The Molecular Psychiatry Association (MPA) is dedicated to providing a safe and respectful environment for all participants, including members, staff, vendors, and attendees at all official MPA events regardless of sex, race, color, national origin, religion, age, physical or mental disability, perceived disability, ancestry, marital status, sexual orientation, or any other basis protected by federal or pertinent state laws. MPA does not tolerate discrimination or any form of prohibited harassment and is committed to enforcing this Code of Conduct at its Annual Meeting or at any other MPA event. As a professional society, the MPA is committed to providing an atmosphere that encourages the free expression and exchange of scientific and educational ideas. Furthermore, MPA upholds the philosophy of equal opportunity for and treatment of all meeting participants and staff in any venue.

[CLICK HERE](#) to continue reading MPA's Code of Conduct.

MEETING EVALUATION

We want your feedback!

We encourage all meeting attendees to complete the meeting survey, which helps us shape future MPA meetings. The survey is completely anonymous.

Your input on MPA 2024 is crucial and will help us improve the meeting each time!

[CLICK HERE TO TAKE THE SURVEY!](#)

THANK YOU

to our **sponsors!**



**Sergey Brin
Family Foundation**



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