# WCPG

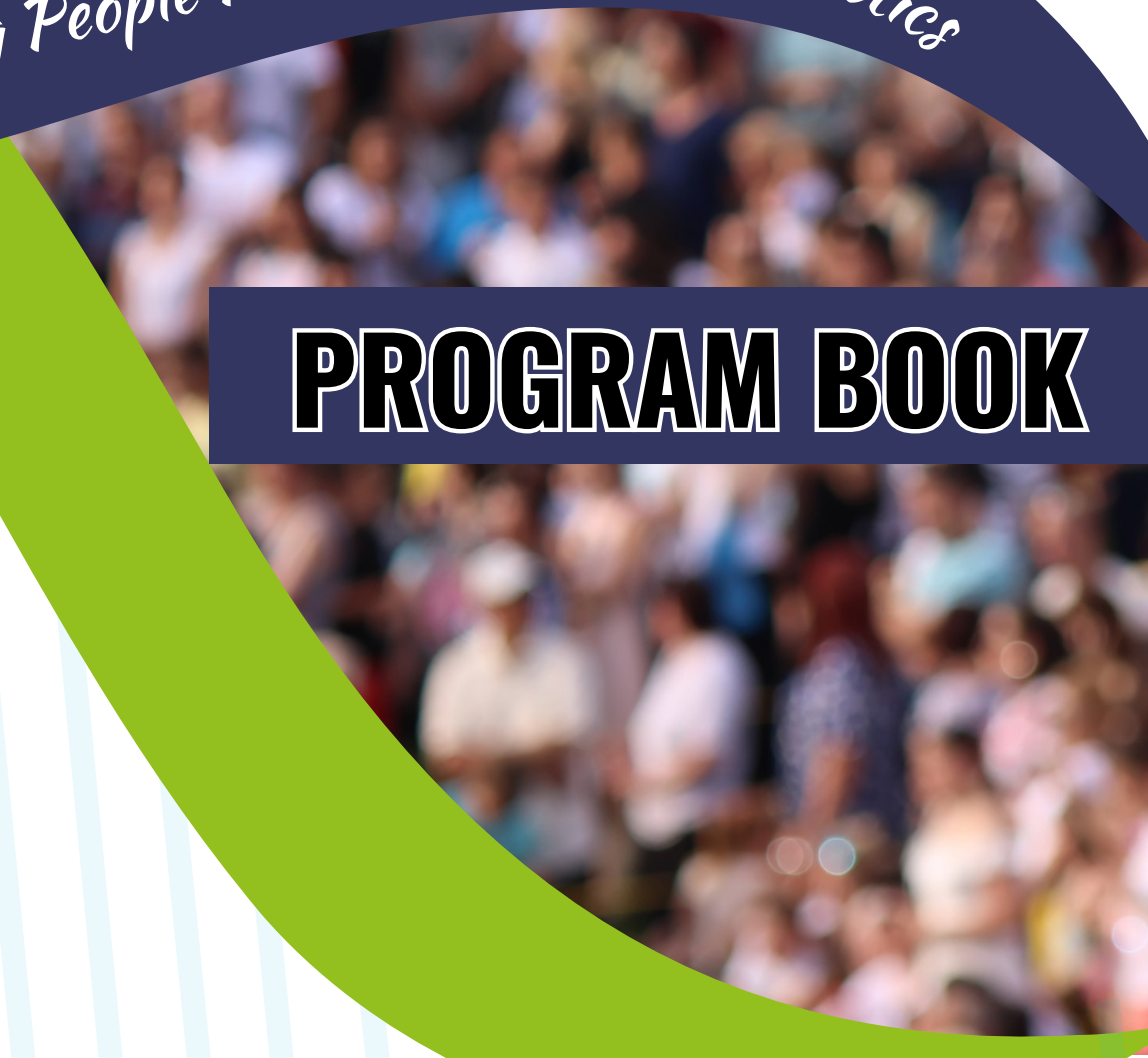
ISPG
INTERNATIONAL SOCIETY OF PSYCHIATRIC GENETICS

## WORLD CONGRESS OF PSYCHIATRIC GENETICS

OCTOBER 10-14, 2023

*Montreal, Canada*

*Putting People First in Psychiatric Genetics*



# PROGRAM BOOK

# 2023 WELCOME LETTER

## Welcome to the 2023 World Congress of Psychiatric Genetics!

Dear Colleagues,

The International Society of Psychiatric Genetics (ISPG) warmly invites you to attend the World Congress of Psychiatric Genetics (WCPG), October 10-14, 2023 in Montreal, Canada. These are exciting times in psychiatric genetics. With unprecedented data availability, thanks to international efforts, we are moving from gene-identification to understanding mechanisms of psychiatric disorders, allowing for a rethinking of psychiatric categorization and for new intervention approaches to be envisaged. The WCPG is the premier international scientific meeting for research in psychiatric genetics and related areas. Leading experts of genetics, neuroscience, and psychiatry from all over the world will be participating.

The theme of this year's WCPG is *"Putting People First in Psychiatric Genetics."* With this motto, we want to give attention to the importance of the people in our field - scientists, researchers, practitioners, and patients. We hope to highlight ISPG's strategic focus on diversity, inclusion, and equity through focusing on the personal aspect of our field as well as the scientific.

We look forward to seeing you in Montreal!

Sincerely,

**2023 ISPG WCPG Program Chairs**
Dr. Jehannine Austin, Co-Chair
Dr. Laura Huckins, Co-Chair
Dr. Gustavo Turecki, Co-Chair

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# 2023 WCPG CONGRESS CHAIRS

## JEHANNINE AUSTIN, PH.D.

Dr. Jehannine Austin is Executive director of the BC Mental Health and Substance Use Services Research Institute, and is a Professor in Psychiatry & Medical Genetics at the University of British Columbia. Jehannine is a board certified genetic counsellor and their research work involves studying the impact of genetic counselling for people with psychiatric disorders and their families. They live with depression, anxiety and nightmare disorder, and founded the world's first specialist psychiatric genetic counselling service to help people with similar issues. The clinic Jehannine founded has won an award for its impact on patient outcomes, and in addition to peer-reviewed publications, they have written a book, and won awards for teaching, leadership, and research. Jehannine is a member of the College of the Royal Society of Canada, and a Fellow of the Canadian Academy of Health Sciences.

## LAURA HUCKINS, PH.D.

Dr. Laura Huckins is an Associate Professor in the Department of Psychiatry. She received her masters in BioEngineering from Imperial College London in 2011, and her PhD in Molecular Biology and Psychiatric Genetics from the University of Cambridge in 2015. Her research focuses primarily on studying psychiatric disorders, with an emphasis on eating disorders and PTSD, as well as the development and application of multi-omic methods to interpret the functional consequences of GWAS variants. Her lab focuses particularly on Eating Disorders and PTSD; to this end, she is co-chair of the PGC Eating Disorders working group. Dr. Huckins' work is funded by the Klarman Family Foundation, the National Institute of Mental Health, and the National Institute of Environmental Health Sciences.

# 2023 WCPG CONGRESS CHAIRS

## GUSTAVO TURECKI, M.D., PH.D.

Attempted and completed suicides are major problems in our society, making the understanding, prevention, and treatment of suicidal behaviors a top priority. Individuals who suffer from major depression are especially at risk. Dr. Turecki conducts studies to better understand the characteristics of these individuals, focusing on early development, personality traits and neurobiological factors, with particular attention to how the environment interacts with the genome to increase risk. Dr. Turecki's studies address questions such as: "Why do some people who become depressed commit suicide while others who have the same illness do not?" At a molecular level, he is involved with investigating the role of epigenetic risk factors, and particularly, how life experience changes gene function and increases risk for suicidal behavior. Dr. Turecki is the director of the McGill Group for Suicide Studies (MGSS), a center comprising eight independent investigators and carrying out multidisciplinary studies on suicide, including the study of biological, behavioral, clinical and psychosocial risk factors for suicide. The MGSS manages the Quebec Suicide Brain Bank, which provides tissue for postmortem work on suicide and mental illnesses. Dr. Turecki is also the Head of the Depressive Disorders Program, a superspecialized service for children and adults who are suffering from major depression and/or severe forms of other depressive disorders. It offers cutting-edge treatment for depressed patients and develops knowledge on major depression, its risk factors, and treatments, by conducting research projects that are integrated into the clinical practice. Dr. Turecki has several administrative responsibilities. He is the vice-chair of research and academic affairs of the department of psychiatry, McGill University and is the director of the RQRS (Réseau québecois de recherché sur le suicide). He is also the president of the International Academy of Suicide Research.

# 2023 WCPG PROGRAM COMMITTEE

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# Thank you

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# PLENARY SPEAKERS

## PANOS ROUSSOS, M.D., PH.D.

Panos Roussos is a Professor of Psychiatry and Genetics and Genomic Sciences at the Icahn School of Medicine at Mount Sinai and Director of the Center for Disease Neurogenomics. He is a VA/MIRECC Research Physician at the James J. Peters VA Medical Center. He received his medical and doctorate degrees from the University of Crete in Greece and he completed his residency in Psychiatry (research track) at Icahn School of Medicine at Mount Sinai. His research focuses on the utilization of neurogenomics and informatics to promote precision psychiatry.

## GAMZE GÜRSOY, PHD,

Gamze Gürsoy, PhD, is a Core Faculty Member at the New York Genome Center. She holds a joint appointment as Assistant Professor in the Departments of Biomedical Informatics and Computer Science at Columbia University. Dr. Gürsoy's lab's overarching research goal is to harmonize diverse fields such as biology, bioinformatics, molecular biology, engineering, and cryptography to achieve two fundamental aims: (1) to increase biomedical data access to a wider group of scientists while preserving privacy of research participants; and (2) to uncover the molecular underpinnings of gene dysregulation via knowledge gained from functional genomics data. They create modular and privacy-enhancing omics and clinical data analysis tools, which can be adapted to new data modalities and analysis needs as they arise, by combining knowledge in molecular biology and applied cryptography. They also develop computational and biochemical technologies to pinpoint genetic and epigenetic determinants of chromatin organization. Dr. Gürsoy leads a group of computational and experimental scientists, creating opportunities for training in cross-disciplinary studies in her lab. Dr. Gürsoy's work has been recognized with many honors, most recently a 2022 NIGMS Maximizing Investigators' Research Award, a 2020 NHGRI Pathway to Independence Award, a 2018 NIH/IBM Big Data to Knowledge Young Investigator Award, and a 2017 University of Illinois Outstanding Dissertation Award. She led teams to win first and third place in NHGRI iDASH Secure Genome Analysis Competition in 2018 and 2019, respectively. She is also recognized by her contributions to diversity, equity, and inclusion in STEM and selected as one of the inaugural Intersections Science Fellows in 2021. Dr. Gürsoy joined the NYGC from Yale University, where she was a Postdoctoral Research Associate in the Molecular Biophysics & Biochemistry Department. During her postdoctoral training with Dr. Mark Gerstein, she specialized in genome privacy and functional genomics; and received training in biochemistry and genome engineering in Dr. Andrew Miranker's lab. Dr. Gürsoy obtained her PhD in Bioinformatics from University of Illinois at Chicago, where she studied the role of 3D genome organization on the function of the genome. Before her graduate studies, she was trained as a chemical engineer with a focus in bioengineering.

## CARLOS BUSTAMANTE, PH.D.

Dr. Carlos D. Bustamante is CEO and Founder of Galatea Bio, Inc., a genomics company focused on delivering Precision Health at Scale for All and adjunct (former tenured full) Professor of Genetics and Biomedical Data Science at Stanford University. He is one of the world's foremost thought leaders in population genetics and genomics and has lead teams at the interface of genomics and data science solving important problem in healthcare, agriculture, and anthropology. He received his PhD in Biology and MS in Statistics from Harvard University (2001) was a postdoctoral scholar at University of Oxford (2001) and was on the faculty at Cornell University (2002-9) and Stanford University School of Medicine (2010-2022). Throughout the trajectory of his career, he's held roles in academia and business including founder and principal of multiple startups, a consulting business, Venture Partner at F-Prime Capital, SAB member with over a dozen startups, and advisor to the US Federal Government on multiple assignments.. Dr. Bustamante was also awarded a MacArthur Fellowship in 2010 for his contributions to population genetics (mining DNA sequence data to address fundamental questions about mechanisms of evolution, origins of human genetic diversity, and patterns of population migration).

## DANIELLE M. DICK, PH.D

Danielle M. Dick, Ph.D. is a tenured Professor of Psychiatry at Rutgers Robert Wood Johnson Medical School, where she serves as the inaugural director of the Rutgers Addiction Research Center at the Brain Health Institute and holds the Greg Brown Endowed Chair in Neuroscience. She received her Ph.D. in Psychology in 2001 from Indiana University and subsequently completed a postdoctoral fellowship in the Department of Medical and Molecular Genetics. She was on the faculty at Washington University, St. Louis from 2003 – 2007, and Virginia Commonwealth University from 2007 – 2022, before joining Rutgers University. Her research involves studying how genetic predispositions interact with environmental factors to contribute to patterns of substance use and related behavioral disorders across development. She has served as the Principal Investigator (PI) or site PI on 15 National Institutes of Health (NIH) grants, and Co-Investigator on another 9 NIH grants, with grant funding totaling >55 million dollars. She has >400 peer-reviewed publications, and has won numerous national and international awards, including the Richard Todd Award in Child Psychiatry and Ted Reich Young Investigator Award from WCPG. She has been named as one of the top 1.5% most highly cited researchers in the world across all fields of science. She is also passionate about bringing research to the public in ways that are engaging and accessible; her first book "The Child Code: Understanding your child's unique nature for happier, more effective parenting" is out now from Penguin Random House.

## ALIZA WINGO, M.D.

Dr. Aliza Wingo is an Associate Professor of Psychiatry at Emory University. She obtained her B.S. in chemistry from the University of California, Irvine, and her M.D. from Emory University School of Medicine. Following her medical training, Dr. Wingo pursued a post-doctoral research fellowship in genetics and functional genomics. In her clinic, Dr. Wingo often encounters patients with multiple comorbid psychiatric conditions. This sparked her interest in exploring the interconnections among the psychiatric disorders using a multifaceted approach involving phenotypic, genetic, and molecular investigation. Her recent research, which was published in leading journals such as Nature Communications, Nature Neuroscience, and Nature Genetics, has focused on genetic and brain omics data to uncover distinct and shared risk genes and biological pathways among psychiatric and neurodegenerative diseases. Ultimately, her work aims to deepen our understanding of the mechanisms underlying these neuropsychiatric disorders and pave the way for developing novel therapeutic.

## DANIEL MORENO DE LUCA, M.D., M.SC.

Dr. Moreno De Luca is an Associate Professor, the Principal Investigator of the Precision Medicine in Autism (PRISMA) group, and the inaugural CASA Research Chair at the University of Alberta, Alberta Health Services and CASA Mental Health. He completed his MD at the Universidad Industrial de Santander in Bucaramanga, Colombia, followed by a Master's in neuroscience at the Université Pierre et Marie Curie, Sorbonne Universités in Paris, France. He then moved to the USA for a Postdoctoral Fellowship in Neurogenetics at Emory University, followed by Psychiatry Residency at Yale University, a Fellowship in Bioethics at Harvard Medical School, and his Child and Adolescent Psychiatry Fellowship at Brown University, where he remained until this past winter. There, following input from the community he serves, he launched a comprehensive program around autism and other neurodevelopmental conditions, which included the creation of two clinical services in Psychiatric Genetic Counseling and Genomic Psychiatry, an autism subspecialty track as part of education within the Child and Adolescent Psychiatry Fellowship, the establishment of the Autism Clinical Network that brought together the clinical and patient community, and the launch of his research efforts in rare genetic variation and its potential to enhance patient care. Aiming to grow the scope and reach of these initiatives, he accepted a position as the Inaugural CASA Research Chair, bringing along the PRISMA group to the University of Alberta to continue advancing genomically-oriented clinical care, education, and research alongside with the autism and neurodevelopmental community.

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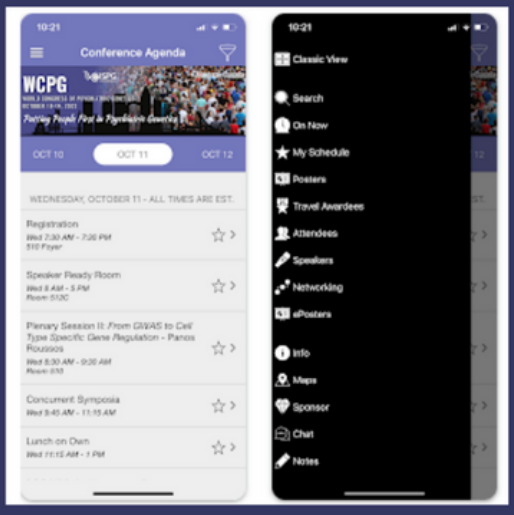


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# MING TSUANG LIFETIME ACHIEVEMENT AWARD

## DR. CYNTHIA M. BULIK

Clinical psychologist Cynthia M. Bulik, Ph.D., FAED is the Founding Director of the University of North Carolina Center of Excellence for Eating Disorders, Distinguished Professor of Eating Disorders in the School of Medicine at the University of North Carolina at Chapel Hill, and Professor of Nutrition in the Gillings School of Global Public Health. She is also Professor in the Department of Medical Epidemiology and Biostatistics and Director of the Centre for Eating Disorders Innovation at Karolinska Institutet in Stockholm, Sweden. She leads global eating disorder genetics initiatives and develops, evaluates, and disseminates evidence-based treatments for eating disorders. Dr. Bulik has been the recipient of numerous awards including the Eating Disorders Coalition Research Award, the Academy for Eating Disorders Leadership Awards for Research and Advocacy, the Price Family National Eating Disorders Association Research Award, and Lifetime Achievement Awards from both the National Eating Disorders Association and the Academy for Eating Disorders.

She has published over 700 peer-reviewed papers, 60 chapters, and 7 books related to eating disorders. Between 1991-1996 she was Lecturer and Senior Lecturer in the Department of Psychology at the University of Canterbury and is currently Honorary Professor in the Department of Psychological Medicine at the University of Otago, Christchurch School of Medicine. She is the global lead principal investigator of the Eating Disorders Genetics Initiative (EDGI).

Prof. Bulik is past president of the Academy for Eating Disorders, past Vice-President of the Eating Disorders Coalition, and past Associate Editor of the International Journal of Eating Disorders. She serves on advisory boards of several advocacy organizations and is founder and co-chair of the Eating Disorders Working Group of the Psychiatric Genomics Consortium. See http://cynthiabulik.com.

# THEODORE REICH EARLY CAREER AWARD

## DR. LAURA HUCKINS

Dr. Laura Huckins is an Associate Professor in the Department of Psychiatry. She received her masters in BioEngineering from Imperial College London in 2011, and her PhD in Molecular Biology and Psychiatric Genetics from the University of Cambridge in 2015.

Her research focuses primarily on studying psychiatric disorders, as well as development and application of multi-omic methods to interpret the functional consequences of GWAS variants and to study how genetics and environment interact. Her lab focuses particularly on Eating Disorders and PTSD; to this end, she is co-chair of the PGC Eating Disorders working group. Dr. Huckins' work is funded by the Klarman Family Foundation, the National Institute of Mental Health, and the National Institute of Environmental Health Sciences.

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# Gershon Paper of the Year Award

"Multivariate genome-wide association meta-analysis of over one million subjects identifies loci underlying multiple substance use disorders"

## DR. ALEXANDER S. HATOUM

Alexander S. Hatoum is a Research Assistant Professor at Washington University and is affiliated with the departments of Psychological & Brain sciences and the Artificial Intelligence and the Internet of Things in Medicine (AIM) Institute. His research focuses on biostatistical and psychometric algorithms to predict addiction severity and treatment, with particular focus on drug repositioning for addiction and psychiatric heterogeneity.

Alexander's work has appeared in prominent outlets in our field including Nature, Biological Psychiatry, Jama Psychiatry, Lancet Psychiatry, Nature Reviews Neuroscience, among others.

Beyond the academic halls, Alexander's work has been used to advise U.S. government interest on predictive machine learning algorithms for Opioid Use Disorder. He feels incredibly fortunate to have worked in the supportive psychiatric genomics consortium substance use disorders working group throughout the process of producing this paper and he would like to thank the consortium members whose continued support led to this achievement. He would also like to thank his network of coauthors and recognize the foundational work many of them have done in the field that made this paper possible. He accepts this award on behalf of the continued effort of the working group to produce foundational work in the field of addiction science.

# Richard Todd Award

## DR. CHRISTEL M. MIDDELDORP

Professor Christel Middeldorp started in 2023 as the Director of the academic collaborate centre “Family Mental Health”, a collaboration between Amsterdam University Medical Centres, Arkin mental health service and Levvel child and youth mental health service. She also has an honorary professor position with the Child Health Research Centre (CHRC), UQ, and Child and Youth Mental Health Service (CYMHS), Children’s Health Queensland Hospital and Health Service (CHQ HHS) in Brisbane, Australia where she worked for six years.

Her research interests involve the role of genetic and other familial influences on the development and persistence of psychopathology across the lifespan. She is the co-PI of the Behavior&Cognition working group of the EAGLE consortium (EArly Genetics and Lifecourse Epidemiology), a large collaborative of population based longitudinal child and adolescent cohorts from over the world. She has also set up longitudinal clinical cohorts of children with mental disorders and their parents. Finally, Middeldorp aims to improve the treatment for families with multiple members affected by performing clinical trials.

In 2019, Christel was appointed by the Australian federal government as Co-Chair of the Childhood Mental Health and Wellbeing Strategy Working Party. The strategy was published in October 2021.

HUGH GURLING FINALISTS

**Gabriela Chavarria-Soley, Escuela de Biologia, Universidad de Costa Rica |** Allele Frequency Variation of Association Signals for Schizophrenia in Latin American Populations

**Nadia Corral-Frias, Universidad de Sonora |** Advancing the Understanding of Depression Genetics: An Introduction to the Major Depression Working Group of the Latin American Genomics Consortium

**Zhiqiang Li, Qingdao University |** Investigating the Relationship Between Mosaic Chromosomal Alterations and Schizophrenia

**Shih-Kai Lin, Institute of Epidemiology and Preventive Medicine, College of Public Health, National Taiwan University |** The Potential Microbiota Biomarker and Functional Characteristics between Patients with Major Depressive Disorder, Bipolar Disorder, and Healthy Controls

**Gabriela Martinez-Levy, Instituto Nacional de Psiquiatría Ramon de la Fuente Muñíz |** European Externalizing Polygenic Risk Scores Predicts ADHD Among Mexican Youth

**Marcos Santoro, Universidade Federal de São Paulo |** Analysis of Copy Number Variants (CNVs) in a Brazilian High-Risk Cohort for Psychiatric Disorders

**Huan Song, West China Hospital, Sichuan University |** Shared Genetic Factors between Stress-Related Disorders and Cardiovascular Diseases

**Olivia Wootton, University of Cape Town |** Using Genetically Informed Cognitive Dimensions to Explore Phenotypic Heterogeneity in Schizophrenia

# ISPG TRAVEL AWARD WINNERS

EARLY CAREER INVESTIGATOR PROGRAM

**Clara Albiñana**
Exploring the Genetic Association Between Multi-Omic Traits and Psychiatric Diagnosis, Prognosis and Treatment Response

**Cibele Edom Bandeira**
Clinical, Genetic and Neuroimaging Aspects of Attention-Deficit/Hyperactivity Disorder Courses Through Midlife

**Tsaone Chalumbila**
Investigating Transgenerational Effects of Maternal Psychological Distress Through Infant Gene Expression Profiles in a South African Birth Cohort Study

**Kai-Yuan Cheng**
Impact of Traumatic Brain Injury on Risk for Schizophrenia and Bipolar Disorder: A Dual Case-Control Study

**Ábel Fóthi**
Unveiling Cellular Associations in Brain-Metabolic Disorder Comorbidity: Insights From a Multiomics Approach

**Vera Karlbauer**
Targeted Bisulfite Sequencing Reveals Drivers of FKBP5 Methylation in Maltreated and Non-Maltreated Children

**Maria Koromina**
Statistical and Functional Fine-Mapping as a Powerful Tool to Unravel the Genetic Etiology of Bipolar Disorder

**Soowhee Kim**
Whole Genome Sequencing Analysis Identifies Phenotypic Patterns and Genetic Architecture Underlying Female Protective Effect in Autism Spectrum Disorder

**Susan Kuo**
Characterizing Associations Between Disruptive De Novo Rare Variant Burdens and Phenotypic Combinations in Over 3,000 Autistic Children: Towards Building a Public Clinical Genetic Resource

**Severine Lannoy**
The Roles of Aggregate Genetic Liability and Early Adversity in Risk for Suicidal Thought and Behavior

**Wenqianglong Li**
Polygenic Risks for Alcohol Consumption, Alcohol Use Disorder, and Brain Volumes in Low Risk Drinking Individuals From UK Biobank

EARLY CAREER INVESTIGATOR PROGRAM

# ISPG INTERNATIONAL SOCIETY OF PSYCHIATRIC GENETICS TRAVEL AWARD WINNERS

**Zheng-An Lu**
Shared Genetic Architecture Between Schizophrenia and Anorexia Nervosa: A Cross-Trait Genome-Wide Analysis

**Patricia Maidana Miguel**
Identifying Susceptible Individuals to the Effects of Early Life Adversity Through Genome-Wide Environment Interaction Studies (GWEIS): From Early Impairments in Executive Function to Psychiatric and Metabolic Diseases

**Travis Mallard**
Limited Evidence for a General Dimension of Impulsivity Across Molecular Genetic, Transcriptomic, and Neurogenomic Levels of Analysis

**Alex Miller**
A Genome-Wide Association Study of Using Substances to Cope With Depression and Anxiety in the UK Biobank and Polygenic Associations With Alcohol Use Disorder Severity

**Salahudeen Mirza**
Steps Toward a Combined Clinical-Epigenetic Predictor of Suicide Attempt Risk in Bipolar Disorder: Preliminary Insights From Cross-Sectional and Retrospective Assessments

**Lihle Moyakhe**
Gestational Epigenetic Age Deviation and Child Developmental and Mental Health Outcomes in a South African Birth Cohort Study

**Hannah Park**
Variants of FOXN3 and GDNF are Shared Genetic Risk Factors of Substance Use and Addictive Behaviors in Healthy Young Adults

**Signe Penner-Goeke**
High Throughout Screening of Glucocorticoid-Induced Enhancer Activity Reveals Molecular Mechanisms of Gene by Stress Interactions in Psychiatric Disease

**Baiyu Qi**
Shared Genetic Loci Underlying Smoking Consumption, Alcohol Use, and Body Mass Index: Evidence From Large Multi-Ethnic Genome-Wide Association Studies

**Carina Seah**
Stress in a Dish: Modeling the Impact of Common Genetic Variation on Stress Response in Hipsc-Derived Neurons in PTSD

EARLY CAREER INVESTIGATOR PROGRAM

# TRAVEL AWARD WINNERS

**Sylvanus Toikumo**
The Genetic Architecture of Pain Intensity in the Million Veteran Program

**Rada Veeneman**
The Role of Sex Hormones in the Aetiology of Severe Mental Illness

**Eric Vornholt**
Contextualizing Postmortem Bias for Single-Nuclei Transcriptomic Studies of Human Brain

**Chris Wai Hang Lo**
Dissecting the Genetic Overlap Between Antidepressant Response and Comorbidities: A Polygenic Scoring Analysis

**Xue Xin Goh**
Significant Telomere Shortening in Malaysian Patients With Schizophrenia: Relationship With Total Antioxidant Capacity and Other Covariates

**Jing Zhang**
Investigating the Polygenic Architecture of Autism With and Without Intellectual Disability

# ECIP ORAL FINALISTS

**Vincent-Raphael Bourque, Centre Hospitalier Universitaire Sainte-Justine Centre de Recherche, Montreal, Quebec, Canada**
Predicting Cognitive and Adaptive Outcomes in Individuals With Autism Using Genomic Variants and Early Developmental Milestones

**Sarah Colbert, Icahn School of Medicine at Mount Sinai**
Genome-Wide Association Studies of Suicidal Thoughts and Behaviors: An Update From the Psychiatric Genomics Consortium Suicide Working Group

**Philippe Jawinski, Humboldt-Universität zu Berlin**
Common and Rare Genetic Risk Factors for Schizophrenia at Chromosome 22q Induce Convergent, Dispersed Changes in Gene Expression

**Maria Koromina, Icahn School of Medicine, Mount Sinai**
Novel Insights Into the Genetic Etiology of Bipolar Disorder From a Multi-Ancestry Genome-Wide Association Study From the Psychiatric Genomics Consortium

**Patricia Maidana Miguel, McGill University**
Identifying Susceptible Individuals to the Effects of Early Life Adversity through Genome-Wide Environment Interaction Studies (GWEIS): From Early Impairments in Executive Function to Psychiatric and Metabolic Diseases

**Jolien Rietkerk, Helmholtz Zentrum München**
Coordinated Epistasis Reveals Symptom-Specific Polygenic Pathway Interactions in Major Depressive Disorder

# ECIP ORAL FINALISTS

**Sylvanus Toikumo, University of Pennsylvania**
The Genetic Architecture of Pain Intensity in the Million Veteran Program

**Tess Vessels, Vanderbilt University**
Identifying Modifiable Comorbidities of Schizophrenia by Integrating Electronic Health Records and Polygenic Risk

**Eric Vornholt, Icahn School of Medicine at Mount Sinai**
Common and Rare Genetic Risk Factors for Schizophrenia at Chromosome 22q Induce Convergent, Dispersed Changes in Gene Expression

**Yan Xia, Yale University**
Transcriptomic Dysfunction Disparities: Greater Burden in Female Brains highlights Immune and Synaptic Pathways for Psychiatric Disorders

**Jessica Yang, Cardiff University**
Exploring Sex Differences in the Genetic Architecture of Bipolar Disorder

ECIP ORAL FINALISTS

# ECIP POSTER FINALISTS

ECIP POSTER FINALISTS

**Sarah Benstock, Texas A & M University**
How Redefining Control Status in GWAS Affects Statistical Power

**Renata Cupertino, University of California San Deigo**
Genome-Wide Association Study of Delay Discounting in 134,935 23andMe Participants

**Marc Kealhofer, Virginia Commonwealth University**
Joint Analysis of De Novo Mutations From Autism Spectrum Disorders, Schizophrenia, and Other Developmental Disorders Improves Detection Power and Implicates Shared Molecular Pathways and CNS Processes

**Danyang Li, Social, Genetic & Developmental Psychiatry Centre, Institute of Psychiatry, Psychology and Neuroscience, King's College London**
Metabolic Effect of CYP2C19 and CYP2D6 on Antidepressant Response: A Meta-Analysis of 13 Depression Pharmacogenetic Studies

**Cassie Overstreet, Yale University**
Genome-Wide Association Study of the Five-Factor Dysphoric Arousal Model of Posttraumatic Stress Disorder in the Million Veteran Program

**Karanvir Singh, University of British Columbia**
Genetic Risk for Anorexia Nervosa and Association With General Dimensions of Psychopathology in Childhood

**Tim van der Es, King's College London**
Dissecting the Relationship Between Major Depressive Disorder and Cognition Using Genetics

# MEETING EVALUATION AND CONTINUING EDUCATION

All meeting attendees are urged to complete an evaluation of the meeting. Attendees who are requesting CE credit for the meeting are required to complete the evaluation. This form is available **online only**. A link to the evaluation will be emailed to attendees at the completion of the congress. All evaluations must be completed by **November 10, 2023.**

## Continuing Education and Disclosures

Attendees will be eligible to receive the credit hours listed below for attending the Congress. To obtain CE credits for the congress, you must complete the post-conference meeting evaluation.

**There will be a charge for registrants to obtain Physician credits.** You will be prompted to pay for the CE credits during the evaluation process. Upon completion of the post-conference evaluation and attestation, your CE certificate will be emailed to you. Please note, this email will often go to spam. If you do not receive your certificate, please email info@ispg.net

## Satisfactory Completion

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

## Accreditation Statement

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and International Society of Psychiatric Genetics (ISPG). Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

## Physicians (ACCME) Credit Designation

Amedco LLC designates this live activity for a maximum of **25.50** *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Physician Assistants

PAs may claim a maximum of **25.50** Category 1 credits for completing this activity. NCCPA accepts *AMA PRA Category 1 Credit*™ from organizations accredited by ACCME or a recognized state medical society.

## Nurse Practitioners

The American Association of Nurse Practitioners (AANP) recognizes the Accreditation Council for Continuing Medical Education (ACCME) and the American Nurses Credentialing Center (ANCC) as approved accreditors and allow reciprocity for AANPCP continuing education credit. Maximum of **25.50** hours.

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# Thank you

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