

Friday
September 25,
2026

6th Annual Precision Mental Health Symposium

Poster & Networking Session

LKSC
291 Campus Dr
Stanford, CA

Posters 1-28 in Foyer | Posters 29-52 in Auditorium

1. Within-person prediction of depressive symptom change using year-long Screenome data and CES-D assessments

Merve Cerit, Andrea Mock, Vryan Almanon Feliciano, Thomas N. Robinson, Byron Reeves, Nilam Ram, Nick Haber

2. Toward Continuous Mental Health Monitoring in Patients Undergoing Hematopoietic Cell Transplantation: Protocol and Implementation Framework for a 24-Week Digital Phenotyping Study

Crane Huang, Rachel Lim, Kenichiro Kubo, Vanessa E. Kennedy, Kevin Schulman

3. The Cognitive Cost of Short-Form Content

Vinan Adhikesavan, Noah Ghanmi

4. Modeling Dopaminergic and Anxiety Circuit Interactions in Approach-Avoidance Dynamics in Depression

April Luo, Stephen Read

5. Medical trainee attitudes toward an AI-powered video clinical interview agent: A pilot study

Sevim Bianchi, Caroline Liu, Megan Kou, Riley Danna, Valerie A Gerriets, Steven Chan, Peter Yellowlees

6. K-Bench: Clinician-Calibrated Evaluation of Mental Health Conversational Safety in Large Language Models

Matthew Vowels, Apoorv Jha, Shivali Sharma

7. Kurate: Scalable, Source-Traceable Evaluation of Scientific Quality in Mental Health Research

Matthew Vowels, Jamie Cummins

8. Transcranial magnetic stimulation for targeting restricted and repetitive behaviors in autism spectrum disorder

Seigo Ninomiya, Mohamad Matout, Hamidreza Komaki, Briana Hernandez, Ryan Villacrusis, Nina Raman, Serena Park, Ethan Makarewycz, Masataka Wada, Antonio Y. Hardan, John P. Hegarty

9. Genetic and environmental influences on brain regions supporting social functioning

Nina R. Raman, Jennifer M. Phillips, Joachim F. Hallmayer, Antonio Y. Hardan, John P. Hegarty II

10. A Randomized Placebo-Controlled Trial of Pregnenolone in Adolescents and Adults with Autism

Nina R. Raman, Briana Hernandez, Lawrence K Fung, Robin Libove, Antonio Y. Hardan

11. Cerebellar Structure and Excitation-Inhibition Balance in Autism Spectrum Disorder: A Pilot Study to Identify Biomarkers for Precision Mental Health

Beatrice B. Begley, Hamidreza Komaki, Meng Gu, Daniel M. Spielman, Antonio Y. Hardan, John P. Hegarty II

12. The role of norepinephrine signaling in the medial entorhinal cortex

Christa Rose, Lavonna Mark, Lisa Giocomo

13. Developmental Origins of Norepinephrine Dysfunction: Critical Periods for Cognition

David C Wang, Setareh Metanat, Robert Malenka

14. Targeting cortical networks with electrical stimulation

Patrycja Dzialecka, Cephra Raja, Naseem Moussa, Anish Mitra

15. Optimizing Neuromodulation Outcomes in Treatment-Resistant Depression: A Systematic Review and Meta-Analysis of Personalized fMRI Connectivity-Guided TMS Targeting

Satvik Vuppalapati

16. Psychotropic Medication Prescribing Patterns by Provider Type in the US, 2020-2025: A Cross-Sectional Analysis of 11.4 Million Pharmacy Claims

Tanner Pulice, Laura T. Derry, Howard Bauchner* *Co-senior authors*

17. Beyond Mood: Changes in verbal learning and memory following transcranial magnetic stimulation in U.S. military veterans with major depressive disorder

Kaetlin R. Kohlhorst, Nicole D. Evangelista, Michelle L. Wong, Alesha Heath, Emilee Brussow, Kelvin Lim, Noah Philip, Paul Holtzheimer, Leanne Williams, Michelle R. Madore

18. Exploring the Effects of Tobacco Use on rTMS Treatment in Veterans with Treatment-Resistant Depression

Areebah Mubin, **Raquel Ramirez**, Alesha Heath, Chloe Alkadri, Michelle R. Madore

19. Redosing of Psilocybin in Veterans with Severe Treatment-Resistant Depression: A Case Series

Madeleine Cluck, Anna Donnelly, Catherine M Bostian, Elizabeth Conlan, Sara Ellis, Michael J. Ostacher, Scott T. Aaronson, Trisha Suppes

20. Individual Differences in Psilocybin Response: EEG Complexity Predicts Next-Day Mood Shift and Longer-Term Self-Criticism Change

Sai Jayakumar

21. A Transformer-Based Delta Expression Encoder Recovers Cell-Type and Drug-Specific Transcriptional Structure in Psilocybin Response Without Pathway Supervision

Sai Jayakumar

22. Dynamic Default Mode Network Substates Track Mystical Effects and Clinical Outcomes after Ibogaine

Kenneth Shinozuka, Clayton Olash, Tracy Han, Azeezat Azeez, Malvika Sridhar, Andrew D. Geoly, Catherine Daye, Saron Hunegnaw, Kirsten N. Cherian, Jakob N. Keynan, Randi E. Brown, Derrick M. Buchanan, John P. Coetzee, Ian H. Kratter, Raag D. Airan, Martijn Arns, Maheen M. Adamson, Manish Saggat, Cammie Rolle

23. Structural Brain Changes Following Magnesium-Ibogaine in Veterans With Blast-Related Traumatic Brain Injury

Andrew D. Geoly, **John P. Coetzee**, Derrick Matthew Buchanan, Wiebke Struckmann, Bora Kim, Malvika Sridhar, Azeezat Azeez, Jennifer I. Lissemore, Kirsten Cherian, Afik Faerman, Jakob N. Keynan, Prakamya Singal, Alaa Shanbour, Igor D. Bandeira, Ian H. Kratter, Maheen M. Adamson, Manish Saggat, Cammie Rolle, Nolan R. Williams

24. Implicit Emotional Conflict Adaptation and Bilateral Mastectomy Choice in Women With Breast Cancer

John P. Coetzee, Tracy Han, Cassidy Kinderman, David Spiegel

25. Changes in Effective Connectivity in an Extended Reward Circuit Are Associated with Decreases in Alcohol Consumption after Ibogaine Treatment

Reece Jones, Kenneth Shinozuka, Julia Alexsandra Galiza Soares, Jennifer I. Lissemore, Azeezat Azeez, Malvika Sridhar, Andrew D. Geoly, Saron Hunegnaw, Igor Bandeira, John P. Coetzee, Kirsten N. Cherian, Jakob N. Keynan, Ian H. Kratter, Raag D. Airan, Martijn Arns, Maheen M. Adamson, Cammie Rolle*, Jason Tucciarone*

26. Subjective Music Experience during MDMA Assisted Therapy for Obsessive Compulsive Disorder: Pilot Data from an Observational Sub-Study

Anna Payton, Edith Noyes, Boris Heifets, Carolyn Rodriguez, Mendel Kaelen

27. Toward Personalized TMS with Response-Guided Prefrontal Target Optimization

Leonhard Schreiner, Christopher C. Cline, Samantha M. Gray, Emma Klebaner, Hansong Lee, Umair Hassan, Nicholas T. Trapp, Aaron D. Boes, Corey J. Keller

28. Repeated iTBS Doses Increase Prefrontal Excitability in Major Depressive Disorder

Apoorva Karekal, Lily Forman, Jade Truong, Winn Hartford, Corey Keller, Christopher C Cline

29. State-Dependent Neuromodulation for GAD: Feasibility of Worry-Induced cTBS with TMS-EEG and Autonomic Monitoring

Arline C. Pierre-Louis, Charles W. Dickey, Ethan A. Solomon, Hansong Lee, Emma Klebaner, Christopher C. Cline, Corey J. Keller

30. Interpretable Symptom Vectors for Depression in a Large Language Model

Fangyi Zhu, Ajay Subramanian, Allison Constant, Camille Wang, Ravish Gupta, Corey J. Keller

31. Feedforward auditory cortex connectivity predicts neuronal population activity during naturalistic music processing: implications for music-enhanced neurotherapeutics

Samantha M Gray, Ethan Solomon, Leonhard Schreiner, Christopher C Cline, Ritika Garg, Sofia Pantis, Josef Parvizi, Joel Berger, Jessica M Ross, Andrea Goldstein-Piekarski*, Corey Keller**

32. Shared Spectral Signatures of Sensory and Affective Pain Circuits in Human Intracranial EEG

Sabra Sisler, Ethan Solomon, Danny Huang, Yu Zhang, Corey Keller

33. Distinct Temporal Patterns of Brain Functional Connectivity Change During Antidepressant Treatment

Xiaoyu Tong, Feng Vankee Lin, Yu Zhang

34. Predicting CBT-I Response for Depression and Insomnia from fMRI Functional Connectivity

Zhitong John Wang, Madeline Babros, Adam J. Krause, Raquel Osorno, Natalie Solomon, Maryam Ahmadi, Leanne M. Williams, James Gross, Jun Ma, Jerome Yesavage, Jared M. Saletin, Hadi H.M. Hosseini, Andrea N. Goldstein-Piekarski

35. DBT-FND: The Development of a Manualized Adaptation of Dialectical Behavior Therapy for Functional Neurological Disorder

Jordana Gardenswartz, Lilia Aronoff-Aspaturian, Kim Bullock

36. Decoupling Distress from Action? Ecological Momentary Assessment of Emotion-Related Impulsivity After NACT

Pearl Werbach, Angela Victoria Lee, Jacqueline Carrillo, Olivia Atkinson, Sheri Johnson, Eivind Haga Ronold

37. The long-term association of adverse childhood experiences with C-reactive protein in the SYSTEMAATIC cohort

Ziyan (Anna) Deng, Malia Beaulieu, Rachel Gilgoff, Jackson Schuetz, Rajni K. Badhan, Dinara Bogetic, Ryan Pilkington, Sharon Chinthraiah, Sayantani B. Sindher

38. Childhood Adversity and Positive Experiences in the SYSTEMAATIC Project: Associations with Psychological and Physical Health Burden

Jackson Schuetz, Rachel Gilgoff, Malia Beaulieu, Ryan Pilkington, Rajni Kaur Badhan, Ziyan Deng, Sunsifan Tan, Hadi Hosseini, Sharon Chinthraiah, Sayantani B. Sindher

39. Improving Assessment of Traumatic Brain Injury in Women Veterans

Colleen Mills-Finnerty and Maheen Adamson

40. Military Sexual Trauma, Post-Traumatic Stress, and Post-Concussive Symptoms Among Women Veterans

Colleen Mills-Finnerty, Maheen Adamson and Molly Timmerman

41. Early Adversity Selectively Reshapes the Somato-Cognitive Action Network in the Developing Brain

Chase Antonacci, Eugenia Giampetruzzi, Gracie Grimsrud, Sanju Koirala, Jessica P. Uy, Jocelyn A. Ricard, Yoonji Lee, Andre Zugman, Booil Jo, Kilian M. Pohl, Russell A. Poldrack, Ian H Gotlib

42. Resting-State fMRI Node Strength for Early Detection and Clinical Staging of Behavioral Variant Frontotemporal Dementia

Behnaz Akbarian and Ryan Darby

43. Genetic Mouse Models of Schizophrenia Do Not Capture Human Neuroanatomical Subtypes: A Novel Cross-Species Approach

Craig Waldence McFarland, Robert A. McCutcheon, Rogier B. Mars

44. Partner-inflicted brain injury may cognitively age survivors by over a decade

Craig Waldence McFarland and Eve M. Valera

45. Sex-Specific Associations Between Plasma Biomarkers, Neuroimaging, and Cognition in Down Syndrome and Alzheimer's Disease

Grace Bishay and Jennifer Bruno

46. Chromosome 21 Immune Gene Variants and Neuroinflammatory Biomarker Profiles in Down Syndrome

Niku Sedarat, Jennifer Bruno and Laura Xicota Vila

47. Direct Neuronal Synaptic Gene Dysregulation by C4A: Redefining Druggable Complement Pathways in Schizophrenia

Thomas C. Beck, Ally Kim, Reenal Pattni, Marcus Ho, Alexander Urban, Agnieszka Kalinowski

48. From Genetic Risk to OCD Pathophysiology: Region- and Sex-Specific Molecular and Behavioral Findings Across Human and Mouse Brain

Uma R. Chatterjee and Michael E. Cahill

49. A Neurocognitive Framework for Prospective, Individual-Level Identification of the Cognitive Biotype in Depression

Jeesung Ahn, Lara C. Foland-Ross, Xue Zhang, Teddy J. Akiki, Hyun-Joon Yang, Andrea Ellsay, Booil Jo, Trevor J. Hastie, Laura M. Hack, Peter J. van Roessel, Alex Leow, Ruth O'Hara, Alan F. Schatzberg, Olu Ajilore, Jun Ma, Leanne M. Williams

50. Precision neurolinguistics reveals latent speech signatures of a negative affect biotype and its modulation by MDMA

Elizabeth Beam, Xue Zhang, Leanne M. Williams

51. Stratified Precision Medicine Trial of Transcranial Magnetic Stimulation for the Cognitive Circuit Biotype of Depression: Prospective Validation of a Circuit-Based Framework in the B-SMART fMRI Trial

Liangfang Li, Isabelle Wydler, Divya Rajasekharan, Michelle R. Madore, Noah S. Philip, Kelvin O. Lim, Paul Holtzheimer, Leanne M. Williams

52. From targets to E-fields: The impact of non-focal stimulation on clinical outcomes in transcranial magnetic stimulation for depression

Divya Rajasekharan, Konstantin Weise, Michelle R. Madore, Kelvin O. Lim, Paul Holtzheimer, Leanne M. Williams, Thomas Knösche, Noah S. Philip