




Leanne Williams

Vincent V.C. Woo Professor and Professor of Psychiatry and Behavioral Sciences (Major Laboratories and Clinical Translational Neurosciences Incubator)

 NIH Biosketch available Online

 Curriculum Vitae available Online

CONTACT INFORMATION

• Alternate Contact

Hosna Omarzad - Executive Director

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Bio

BIO

Leanne M. Williams, PhD, is the inaugural Vincent V.C. Woo Professor of Psychiatry and Behavioral Sciences and the Founding Director of the Stanford Center for Precision Mental Health at the Stanford University School of Medicine. She directs the PanLab for Personalized and Translational Neuroscience and serves as Associate Chair of Translational Neuroscience within Stanford Psychiatry. She also holds a joint appointment as Director of the Precision Medicine Core at the VA Palo Alto Health Care System MIRECC.

Dr. Williams is leading a transformation in psychiatry through the development and clinical translation of a brain circuit-based platform for patient stratification. Her work addresses a central challenge in mental health care: substantial biological heterogeneity within diagnostic categories that contributes to prolonged trial-and-error treatment. Over the past 25 years, she has established and validated a taxonomy of brain-circuit 'biotypes' for depression, anxiety, attentional, and related disorders.

Her team has developed standardized neuroimaging and behavioral paradigms that quantify circuit function at the individual level, enabling prospective matching of patients to pharmacologic, neuromodulatory, behavioral, and emerging rapid-acting therapeutics, including psychedelic-assisted treatments. Across multi-site studies, this stratification approach has been shown to identify subgroups with substantially higher remission rates when treatments are aligned to circuit profiles, demonstrating the capacity to double treatment success compared to non-stratified care.

Dr. Williams has published over 400 scientific papers and authored the first book on Precision Psychiatry. She previously founded and directed the Brain Dynamics Center at Sydney Medical School.

ACADEMIC APPOINTMENTS

- Professor, Psychiatry and Behavioral Sciences
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford Center for Precision Mental Health, (2018- present)
- Director, Williams PanLab for Personalized & Translational Neuroscience, (2012- present)
- Director, Precision Medicine Core, MIRECC, VA Palo Alto Healthcare System, (2020- present)
- Associate Chair, Translational Neuroscience, Psychiatry and Behavioral Sciences, Stanford University, (2018- present)
- Associate Chair, Research Strategy, Psychiatry and Behavioral Sciences, Stanford University, (2016-2018)
- Steering Committee Chair, Major Labs & Clinical Translational Neurosciences Incubator, Psychiatry & Behavioral Sciences, (2015-2018)
- Director, PTSD Education & Dissemination, MIRECC, VA Palo Alto Healthcare System, (2013-2019)

HONORS AND AWARDS

- The Gold Medal Award, Society of Biological Psychiatry (SOBP) (2026)
- The Perry Award (In memory of Samuel Wesley Perry III, MD), Weill Cornell Medicine (2025)
- Educator Award, Society of Biological Psychiatry (SOBP) (2023)
- Chairman's Senior Faculty Mentor Award, Stanford School of Medicine, Department of Psychiatry and Behavioral Sciences (2023)
- Best Female Scientist Award: top 1000 of all female scientists in the world across disciplines, Research.com - world ranking based on impact factor (2022, 2023, 2024)
- George Thompson Award to the Women's Leadership Group of SOBP, Society of Biological Psychiatry (SOBP) (2022)
- Fellow, American College of Neuropsychopharmacology (2017)
- Chairman's Award for Advanced Contributions to Science, Stanford School of Medicine (2016)
- Ernst Strüngmann Award: "Schizophrenia evolution and synthesis", Ernst Strüngmann Institute for Neuroscience in Cooperation with Max Planck Institute (2012)
- Presidential Award, US Society for Psychosomatic Medicine (2008)
- Senior Research Fellowship, Pfizer Foundation (2004)
- Australian Museum Eureka Prize for Science Prize, Australian Museum (2003)
- Young Investigator Award, International Schizophrenia Congress (2001)
- Senior Scientist Award, 10th Biennial Winter Workshop on Schizophrenia (2000)
- Wellcome Trust-Ramaciotti Research Award for advanced study, London Institute of Psychiatry, Wellcome Trust-Ramaciotti Foundation (1998)
- British Council Postgraduate scholarship Award for PhD study at Oxford University, UK, British Council (1991)
- Australian Postgraduate Research Award, Australian federal government (1990)
- Australian Psychological Society Prize for the most outstanding Honors year research dissertation, Australian Psychological Society (1990)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scientific Advisory Board, Stanford Center for Clinical and Translational Research Award (2025 - present)
- Scientific Advisory Board, Advanced Research and Invention Agency (ARIA), UK government Department for Science, Innovation and Technology (2025 - present)
- Councilor-at-Large, Society of Biological Psychiatry (SOBP) (2023 - present)
- External Scientific Advisory Board, Cancer Neuroscience Program at MD Anderson Cancer Center (2024 - present)
- Special Editor, NEUROPSYCHIATRIC IMAGING section of the American Journal of Neuroradiology (<https://www.ajnr.org>) (2023 - present)
- Program Chair, 2021 Society for Biological Psychiatry Annual Meeting (2019 - 2023)
- Scientific Advisory Board, One Mind Psyberguide, of the One Mind Institute (2015 - present)
- Member, Global Future Council on Technologies for Mental Health - World Economic Forum (2019 - present)
- Member, American College for Neuropsychopharmacology (2012 - present)

- Member, Society for Biological Psychiatry (2009 - present)
- Member, Society for Biological Psychiatry Women's Leadership Group (2016 - present)
- Editorial Board, Journal of Mood and Anxiety Disorders (Elsevier journal) (2023 - present)
- Editorial Board, Journal of Psychiatric Research (Elsevier journal) (2019 - present)
- Editorial Board, Depression and Anxiety (Wiley-Blackwell) (2018 - present)
- Editorial Board, Network Neuroscience (MIT Press) (2017 - present)
- Editorial Board, Personalized Medicine for Psychiatry (Elsevier) (2016 - present)
- Faculty member, Stanford Precision Health and Integrated Diagnostics Center (PHIND) (2018 - present)
- Faculty member, Stanford Neurosciences Institute (2016 - present)

COMMUNITY AND INTERNATIONAL WORK

- Precision Psychiatry: Are We Getting Closer?
- World Economic Forum 2019: "Using big data to diagnose & treat depression faster & more accurately", Davos, Switzerland
- Brain Research and Integrative Neuroscience Network: BRAINnet, www.BRAINnet.net

PATENTS

- Leanne Williams. "United States Patent 11,701,078 Systems and Methods for Detecting Complex Networks in MRI Image Data", Jul 18, 2023
- Leanne Williams. "United States Patent 10,702,232 B2 Systems and Methods for Detecting Complex Networks in MRI Image Data", Jul 7, 2020
- Leanne Williams. "United States Patent 10,285,658 Systems and methods for detecting complex networks in MRI image data", May 14, 2019
- Leanne Williams. "United States Patent 10,034,645 Systems and methods for detecting complex networks in MRI image data", Jul 31, 2018

LINKS

- Stanford Center for Precision Mental Health and Wellness (PMHW): <https://med.stanford.edu/pmhw>
- PanLab: Personalized and Translational Neuroscience Lab: <https://med.stanford.edu/pmhw/panlab>
- Youtube channel Stanford Center for Precision Mental Health & Wellness: <https://www.youtube.com/channel/UCN8g9b2eCpSRMs6AyY15U3g/videos>
- PMHW Chat with the Experts Podcast Series: <https://med.stanford.edu/pmhw/chat-with-the-experts>
- Precision Psychiatry: Using Neuroscience Insights to Inform Personally Tailored, Measurement-Based Care (Book): <https://med.stanford.edu/pmhw/precision-psychiatry-books>
- KPIX | CBS News Bay Area: Brain imaging reveals distinct types of depression in study led by Stanford Medicine: <https://www.youtube.com/watch?v=s1SJRVBteh8>
- Leanne Williams receives \$18 million National Institutes of Health grant to diagnose and treat depression: <https://med.stanford.edu/news/all-news/2024/06/leanne-williams-grant.html>
- Tell Me More with Kelly Corrigan | Bad Days, Tough Seasons or Clinical Depression?: <https://www.pbs.org/video/leanne-williams-z9shxg/>
- New Stanford Center focuses on Precision Mental Health: <https://scopeblog.stanford.edu/2018/04/12/new-stanford-center-focuses-on-precision-mental-health/>
- Precision Psychiatry: Are We Getting Closer?: <https://psychnews.psychiatryonline.org/doi/10.1176/appi.pn.2022.09.9.23>
- "Brain scans could help personalize treatment for people who are depressed or suicidal" in Science Magazine: <https://www.sciencemag.org/news/2019/08/brain-scans-could-help-personalize-treatment-people-who-are-depressed-or-suicidal>
- "Deeper learning: Machine learning makes new sense of psychiatric symptoms" in Nature Medicine: <https://www.nature.com/articles/s41591-018-0313-2>
- "Doctors can predict if antidepressants will work for you" in Time Magazine: <http://time.com/4525613/antidepressants-depression-stress/>
- 'We could be changing lives' in Stanford Medicine Magazine: <https://stanmed.stanford.edu/precision-mental-health-promise/>
- 'Let's talk about it' in Stanford Medicine Magazine: <https://stanmed.stanford.edu/open-talk-depression-fight-stigma/>

- Science feature. "READING AN ANGUISHED BRAIN". Brain scans could help personalize treatment for people who are depressed or suicidal.: <https://www.sciencemag.org/news/2019/08/brain-scans-could-help-personalize-treatment-people-who-are-depressed-or-suicidal>
- "Brain scans and DNA tests personalise mental health care" in Financial Times: <https://www.ft.com/content/54b53350-de73-11e7-a0d4-0944c5f49e46>
- "Predicting the usefulness of antidepressants" in NIH News: <https://www.nih.gov/news-events/news-releases/predicting-usefulness-antidepressants>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

A revolution is under way in psychiatry.

We can now understand mental illness as an expression of underlying brain circuit disruptions, shaped by experience and genetics.

Our challenge is to now accelerate the translation of these insights into new models of mental disorder, and improve lives. Right now, mental disorders are our number one cause of ruined lives. At least 1 in 10 of us is affected by these disorders but only a fraction get access to treatment. Fewer still get better after the first treatment they try.

My lab is finding solutions to these problems.

We are defining precision brain circuit biotypes for mood, anxiety and attention disorders. We integrate across large amounts of brain imaging, behavior and other data and computational approaches. Biotypes are used in personalized intervention studies with selective drugs, neuromodulation and exploratory therapeutics. To close the loop, field ready insights are applied in practice.

We are advancing a neuroscience-informed approach to Precision Mental Health for Psychiatry.

1. Neural circuit taxonomy

We have developed a novel brain-based taxonomy for understanding mental disorders. Each person's experience of mental disorder is characterized as an expression of the way in which underlying circuits are disrupted. Our model accounts for how circuit disruptions are shaped by early life experience, by daily function, and by genetic contributions.

2. Advanced computational models

To continually refine our taxonomy, and to discover new types, we use advanced machine-learning approaches. By choosing to use common data elements, we have amassed the largest available databank of integrated imaging, physiological, behavioral and genetic data on a spectrum of mood, anxiety and attention disorders, people at risk of these disorders and healthy people. With these large amounts of data, we are accelerating the discovery of new types, and the detailed mapping between brain circuits, behavior and experience.

3. Mapping human connectomes

In a new human connectome study, we are adding higher resolution imaging of brain connectivity to our brain circuit model. With these connectome data, we extend our taxonomy to the precise mapping of how each person's brain circuits connect and communicate, and how "short circuits" in these connections cause particular types of symptom experiences.

4. Biomarkers to predict treatment

Our lab led the first multi-site international studies to identify imaging and genetic biomarkers that predict the right treatment for the right person at the right time. With these advances, we can double the number of people who recover from depression. We have launched new precision medicine in mental health studies that use biotypes to guide selection of interventions. Our intervention studies span selective drugs, targeting particular biotypes, neuromodulation techniques such as transcranial magnetic stimulation and rapid acting exploratory therapeutics, including ketamine, MDMA and psilocybin.

5. Accelerating translation into practice

There is a giant chasm between neuroscience insights and their application in practice to improve lives for people experiencing mental disorders. To close this loop, we lead first-in-nation studies to accelerate the translation of field-ready insights into clinical practice and education.

Because our focus is on changing the way we understand mental disorder, our lab embraces the heterogeneity of these disorders. We focus on the commonly co-occurring experiences of mood, anxiety and attentional disruption in adults and in young people. We also investigate other commonly associated experiences such as substance use.

For more about what motivates us check out the websites for our Center for Precision Mental Health and Wellness, the Williams PanLab and our Youtube channel:

<http://med.stanford.edu/pmhw>

<https://williamspanlab.com>

<https://youtu.be/ys9I8hax-To>

CLINICAL TRIALS

- Stanford Regulating Circuits of the Brain Study - MDMA, Recruiting
- BIG, Not Recruiting
- International Study to Predict Optimised Treatment - in Depression, Not Recruiting
- Research Aimed at Improving Both Mood and Weight, Not Recruiting
- Circuit Markers of TMS, Not Specified
- Stanford RAD-AT Study (Research on Anxiety and Depression - Anhedonia Treatment), Not Specified
- Stratified Pharmacological Approaches for Regulating Circuit-Level Effects, Not Specified
- Using the Neuroscience of Fear Extinction for Anxiety Reduction, Not Specified

PROJECTS

- Precision Health for Depression
- Precision Psychiatry Continuity Clinic Project: Translating neuroscience into mental health care - Stanford (7/25/2017)
- RAD-AT Project: Research on Anxiety and Depression – Anhedonia Treatment - Stanford University School of Medicine and VA Palo Alto
- RAD Project: Neural Dimensions of Threat Reactivity and Regulation for Understanding Anxiety - Stanford University and PAVIR (September 1, 2013 - present)
- ENGAGE Project: Engaging self-regulation targets to understand the mechanisms of behavior change and improve mood and weight outcomes - Stanford University and University of Chicago Illinois (9/30/2015)
- iSPOT-D: International Study to Predict Optimized Treatment - in Depression - Stanford University and collaborating sites
- Family Study: Emotional and Cognitive Brain Function Biomarkers of Risk in First Degree Relatives of Depressed Proband - Stanford University and Sydney Medical School
- GEM Study: General and Emotional Cognition in First Onset Psychosis - Stanford University and Sydney Medical School

- ACTION Study: ADHD Controlled Trial Investigation Of a Non-stimulant - University of Sydney Medical School and Stanford University
- TWIN-E Project: The Twin study in Wellbeing using Integrative Neuroscience of Emotion - Sydney Medical School, Flinders University, Neuroscience Australia and Stanford University
- LIMCA Project: Limbic Maturational Changes in Adolescence and young adulthood
- Brain Connectivity Imaging Markers to Confirm Diagnosis for Bipolar vs. Unipolar Depression - University of Sydney Medical School (3/1/2015)
- ACE-D: Accelerating Cognition-guided signatures to Enhance translation in Depression - Stanford University (May 2024 - present)

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Jeesung Ahn, Elizabeth Beam, Liangfang Li

Doctoral Dissertation Advisor (AC)

Divya Rajasekharan

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)
- Psychiatry and Behavioral Science (Fellowship Program)

Publications

PUBLICATIONS

- **A stratified precision medicine trial targeting α -adrenergic receptor agonism as a treatment for the cognitive biotype of depression** *NATURE MENTAL HEALTH*
Hack, L. M., Jubeir, J., Hilton, R., Tozzi, L., Boyar, L., Zhang, X., Lyons, T., Jo, B., O'Hara, R., Schatzberg, A. F., Williams, L. M.
2025
- **Developing Clinically Interpretable Neuroimaging Biotypes in Psychiatry.** *Biological psychiatry*
Ahn, J., Foland-Ross, L., Akiki, T. J., Boyar, L., Wydler, I., Bostian, C., Zhang, X., Yang, H. J., Ellsay, A., Ma, E., Rajasekharan, D., Holtzheimer, P., Lim, et al
2025
- **Negative Affect Circuit Subtypes and Neural, Behavioral, and Affective Responses to MDMA: A Randomized Clinical Trial.** *JAMA network open*
Zhang, X., Hack, L. M., Bertrand, C., Hilton, R., Gray, N. J., Boyar, L., Laudie, J., Heifets, B. D., Suppes, T., van Roessel, P. J., Rodriguez, C. I., Deisseroth, K., Knutson, et al
2025; 8 (4): e257803
- **Adaptive cognitive control circuit changes associated with problem-solving ability and depression symptom outcomes over 24 months.** *Science translational medicine*
Zhang, X., Pines, A., Stetz, P., Goldstein-Piekarski, A. N., Xiao, L., Lv, N., Tozzi, L., Lavori, P. W., Snowden, M. B., Venditti, E. M., Smyth, J. M., Suppes, T., Ajilore, et al
2024; 16 (763): eadh3172
- **A cognitive neural circuit biotype of depression showing functional and behavioral improvement after transcranial magnetic stimulation in the B-SMART-fMRI trial.** *Nature. Mental health*
Tozzi, L., Bertrand, C., Hack, L. M., Lyons, T., Olmsted, A. M., Rajasekharan, D., Chen, T., Berlow, Y. A., Yesavage, J. A., Lim, K., Madore, M. R., Philip, N. S., Holtzheimer, et al
2024; 2 (8): 987-998
- **Personalized brain circuit scores identify clinically distinct biotypes in depression and anxiety.** *Nature medicine*
Tozzi, L., Zhang, X., Pines, A., Olmsted, A. M., Zhai, E. S., Anene, E. T., Chesnut, M., Holt-Gosselin, B., Chang, S., Stetz, P. C., Ramirez, C. A., Hack, L. M., Korgaonkar, et al

2024

- **Brain circuit derived biotypes for treatment selection in mood disorders: A critical review and illustration of a functional neuroimaging tool for clinical translation.** *Biological psychiatry*
Song, E. J., Tozzi, L., Williams, L. M.
2024
- **A Cognitive Biotype of Depression and Symptoms, Behavior Measures, Neural Circuits, and Differential Treatment Outcomes: A Prespecified Secondary Analysis of a Randomized Clinical Trial.** *JAMA network open*
Hack, L. M., Tozzi, L., Zenteno, S., Olmsted, A. M., Hilton, R., Jubeir, J., Korgaonkar, M. S., Schatzberg, A. F., Yesavage, J. A., O'Hara, R., Williams, L. M.
2023; 6 (6): e2318411
- **New and emerging approaches to treat psychiatric disorders.** *Nature medicine*
Scangos, K. W., State, M. W., Miller, A. H., Baker, J. T., Williams, L. M.
2023
- **Mapping Neural Circuit Biotypes to Symptoms and Behavioral Dimensions of Depression and Anxiety.** *Biological psychiatry*
Goldstein-Piekarski, A. N., Ball, T. M., Samara, Z., Staveland, B. R., Keller, A. S., Fleming, S. L., Grisanzio, K. A., Holt-Gosselin, B., Stetz, P., Ma, J., Williams, L. M.
2021
- **Intrinsic connectomes are a predictive biomarker of remission in major depressive disorder.** *Molecular psychiatry*
Korgaonkar, M. S., Goldstein-Piekarski, A. N., Fornito, A., Williams, L. M.
2019
- **Connectivity of the Cognitive Control Network During Response Inhibition as a Predictive and Response Biomarker in Major Depression: Evidence From a Randomized Clinical Trial.** *Biological psychiatry*
Tozzi, L. n., Goldstein-Piekarski, A. N., Korgaonkar, M. S., Williams, L. M.
2019
- **Transdiagnostic Symptom Clusters and Associations With Brain, Behavior, and Daily Function in Mood, Anxiety, and Trauma Disorders** *JAMA PSYCHIATRY*
Grisanzio, K. A., Goldstein-Piekarski, A. N., Wang, M., Ahmed, A. R., Samara, Z., Williams, L. M.
2018; 75 (2): 201-209
- **Human amygdala engagement moderated by early life stress exposure is a biobehavioral target for predicting recovery on antidepressants** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Goldstein-Piekarski, A. N., Korgaonkar, M. S., Green, E., Suppes, T., Schatzberg, A. F., Hastie, T., Nemeroff, C. B., Williams, L. M.
2016; 113 (42): 11955-11960
- **Precision psychiatry: a neural circuit taxonomy for depression and anxiety** *LANCET PSYCHIATRY*
Williams, L. M.
2016; 3 (5): 472-480
- **Amygdala Reactivity to Emotional Faces in the Prediction of General and Medication-Specific Responses to Antidepressant Treatment in the Randomized iSPOT-D Trial** *NEUROPSYCHOPHARMACOLOGY*
Williams, L. M., Korgaonkar, M. S., Song, Y. C., Paton, R., Eagles, S., Goldstein-Piekarski, A., Grieve, S. M., Harris, A. W., Usherwood, T., Etkin, A.
2015; 40 (10): 2398-2408
- **Examining fronto-limbic brain and sleep mechanisms of antidepressant effects in cognitive-behavioral therapy for insomnia.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
Krause, A. J., Osorno, R., Solomon, N. L., Ahmadi, M., Lam, P., Magana, O., Blozyte-Sakenis, E., Harris, L. N., Babros, M. C., Izabel, S. S., Bernert, R. A., Williams, L. M., Gross, et al
2026
- **Relationship of Behavioral Activation to Time-Varying Sub-Network Coherence in Attention and Reward Neural Networks.** *Brain topography*
Warthen, K. G., Keller, A. S., Williams, L. M.
2026; 39 (3)
- **Emotional scars: limbic brain processing alterations in adults with childhood abuse across mental health disorders.** *Molecular psychiatry*
Korgaonkar, M. S., Tobler, C., Felmingham, K., Williams, L. M., Bryant, R. A., Breukelaar, I. A.

2026

- **The 12-year longitudinal impact of risk and resilience trajectories on adult health following childhood trauma.** *The American psychologist*
Connon, E., Park, H. R., Turner, R. M., Williams, L. M., Gatt, J. M.
2026
- **Polygenic score for C-reactive protein is linked to faster cortical thinning and psychopathology risk in adolescents** *NATURE MENTAL HEALTH*
Zheng, H., Savitz, J., Haroon, E., Ahern, J., Loughnan, R. J., Naber, F., Xu, B., Forthman, K. L., Aupperle, R. L., Williams, L. M., Paulus, M. P., Fan, C., Thompson, et al
2026
- **Polygenic score for C-reactive protein is linked to faster cortical thinning and psychopathology risk in adolescents.** *Nature. Mental health*
Zheng, H., Savitz, J., Haroon, E., Ahern, J., Loughnan, R. J., Naber, F., Xu, B., Forthman, K. L., Aupperle, R. L., Williams, L. M., Paulus, M. P., Fan, C. C., Thompson, et al
2026; 4 (3): 427-438
- **STRATIFYING MDMA RESPONSE USING NEGATIVE AFFECT CIRCUIT BIOTYPES WITH CLINICAL VALIDATION**
Zhang, X., Hack, L., Bertrand, C., Hilton, R., Gray, N., Boyar, L., Laudie, J., Heifets, B., Suppes, T., Van Roessel, P., Rodriguez, C. I., Deisseroth, K., Knutson, et al
SPRINGERNATURE.2026
- **EXAMINING FRONTO-LIMBIC BRAIN AND SLEEP MECHANISMS OF ANTI-DEPRESSANT EFFECTS IN COGNITIVE-BEHAVIORAL THERAPY FOR INSOMNIA**
Krause, A., Osorno, R., Solomon, N., Ahmadi, M., Lam, P., Magana, O., BlozYTE, E., Izabel, S., Bernert, R., Williams, L., Gross, J., Ma, J., Lazzeroni, et al
SPRINGERNATURE.2026
- **Topological data analysis reveals rigid brain-state dynamics during self-viewing in trait rumination.** *bioRxiv : the preprint server for biology*
Geniesse, C., Jahanikia, S., Xie, H., Sonalkar, N. S., Williams, L. M., Saggari, M.
2025
- **Targeting a specific molecular mechanism alleviates the cognitive biotype of depression** *NATURE MENTAL HEALTH*
Williams, L. M.
2025
- **A stratified precision medicine trial targeting α 2A-adrenergic receptor agonism as a treatment for the cognitive biotype of depression.** *Nature. Mental health*
Hack, L. M., Jubair, J., Hilton, R., Tozzi, L., Boyar, L., Zhang, X., Lyons, T., Jo, B., O'Hara, R., Schatzberg, A. F., Williams, L. M.
2025; 3 (11): 1363-1373
- **Transforming psychiatry with computational and brain-based methods.** *Nature computational science*
Akiki, T. J., Williams, L. M., Wolfers, T., Yang, Y., Stahl, D., Gillan, C. M.
2025; 5 (10): 844-847
- **Defining suicidality phenotypes for genetic studies: perspectives of the Psychiatric Genomics Consortium Suicide Working Group.** *Molecular psychiatry*
Colbert, S. M., Monson, E. T., Andreassen, O. A., Ayinde, O. O., Barr, P. B., Bejan, C. A., Ceja, Z., Coon, H., DiBlasi, E., Edenberg, H. J., Gelernter, J., Hatoum, A., Izotova, et al
2025
- **Functional connectivity profiles of amygdala subregions in posttraumatic stress disorder.** *Translational psychiatry*
Haris, E. M., Bryant, R. A., Felmingham, K. L., Williams, L. M., Korgaonkar, M. S.
2025; 15 (1): 280
- **From Scanner to Bedside: Building Bridges in Translational Psychiatric Neuroimaging.** *The American journal of psychiatry*
Yu, J. J., Williams, L. M., Tanabe, J., Schmitt, J. E., Dagher, R.
2025; 182 (8): 793
- **Attention-Deficit/Hyperactivity Disorder Subtypes Defined by Cognition Have a Distinct Neural and Clinical Profile and Differ in Response to Atomoxetine.** *Journal of the American Academy of Child and Adolescent Psychiatry*
Leikauf, J. E., Griffiths, K. R., Clarke, S. D., Kohn, M. R., Williams, L.

2025

- **Polygenic score for C-reactive protein is associated with accelerated cortical thinning and increased psychopathology in adolescents: a population-based longitudinal cohort study.** *Research square*
Zheng, H., Savitz, J., Haroon, E., Ahern, J., Loughnan, R., Nabber, F., Xu, B., Forthman, K., Aupperle, R., Williams, L., Paulus, M., Fan, C. C., Thompson, et al
2025
- **Conserved brain-wide emergence of emotional response from sensory experience in humans and mice.** *Science (New York, N.Y.)*
Kauvar, I., Richman, E. B., Liu, T. X., Li, C., Vesuna, S., Chibukhchyan, A., Yamada, L., Fogarty, A., Solomon, E., Choi, E. Y., Mortazavi, L., Chau Loo Kung, G., Mukunda, et al
2025; 388 (6750): eadt3971
- **Transformer-Based Foundation Model for Functional Neuroimaging**
Akiki, T., Tripathy, M., Zhang, X., Pines, A., Caro, J., Rizvi, S., Averill, C., van Dijk, D., Abdallah, C., Williams, L.
ELSEVIER SCIENCE INC.2025
- **Insomnia Intervention is Associated With Changing Dorsolateral Prefrontal Cortex Activity in Depression**
Wang, Z., Krause, A. J., Osorno, R., Solomon, N., Bernert, R., Williams, L., Gross, J., Ma, J., Lazzeroni, L., Yesavage, J., Manber, R., Goldstein-Piekarski, A.
ELSEVIER SCIENCE INC.2025
- **Insomnia Intervention Associated With Improvements in Affective Brain Function and Mood in Depression**
Krause, A., Osorno, R., Solomon, N., Ahmadi, M., Lam, P., Magana, O., Blozyte, E., Cirelli, A., Harris, L., Izabel, S., Bernert, R., Williams, L., Gross, et al
ELSEVIER SCIENCE INC.2025
- **A genome-wide association study of brain function across multiple cognitive domains**
Waller, L., Broecker, A., Elbersgerd, N., Jaeck, F., Lipka, R., Mograby, L., Neidhart, M., Puzicha, R., Rahimova, F., Reinhardt, P., Reppmann, Z., Schaefer, N., Serin, et al
GEORG THIEME VERLAG KG.2025: 147-148
- **Precision Within Reach: Scalp-Based Targeting Engages Key Network Relationships in Clinical TMS for Depression**
Rajasekharan, D., Madore, M. R., Holtzheimer, P., Lim, K. O., Philip, N. S., Williams, L. M.
ELSEVIER SCIENCE INC.2025
- **Dynamic Mediodorsal Thalamus Activity Predicts and Reflects Longitudinal Treatment Outcomes in Psilocybin Therapy for Treatment-Resistant Depression**
Zhang, X., Zhai, E., Bertrand, C., Ellis, S., Wydler, I., Donnelly, A., Suppes, T., Williams, L.
ELSEVIER SCIENCE INC.2025
- **Defining and Assessing International Classification of Disease Suicidality Phenotypes for Genetic Studies.** *medRxiv : the preprint server for health sciences*
Monson, E. T., Colbert, S. M., Barr, P. B., Bejan, C. A., Andreassen, O. A., Ayinde, O. O., Ceja, Z., Coon, H., DiBlasi, E., Izotova, A., Kaufman, E. A., Koromina, M., Myung, et al
2025
- **Exploring the effects of cognitive behavioral therapy on cognitive control circuit and behavioral task performance in hoarding disorder.** *Journal of psychiatric research*
Muñoz Rodríguez, P. A., Pines, A., Zhang, X., van Roessel, P. J., Mukunda, P., McCarthy, E., Williams, L. M., Rodríguez, C. I.
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- Paradigm Shifts in Precision Medicine for Psychiatry - Society for Biological Psychiatry (May 14, 2016)
- Precision Medicine, Imaging and the NIMH Research Domain Criteria - VA Director's (7/5/2016)
- Decoding Depression: Exploring Neural Circuit Biotypes - American Society of Neuroradiology (ASNR) annual meeting (5/18/2024)
- Connectomes Related to Human Disease (CRHD): Depression and Anxiety - 53rd Annual meeting of the International Neuropsychological Society (2/15/2024)