



## Research Colloquium

### Dr. Paulo Lizano

Translational Neuroscience at BIDMC  
Harvard Medical School, Boston

## Bridging Retinal Imaging, Biomarkers, and Neuromodulation: Advancing Precision Interventions for Psychosis Spectrum Disorders

Monday, 17.03.25, 15:00

Lecture Hall, Department of Psychiatry and Psychotherapy,  
Philosophenweg 3, 07743 Jena

Additional zoom access

<https://uni-jena-de.zoom.us/j/69357966003>

ID code: talk

### Dr. Paulo Lizano



Dr. Paulo Lizano serves as an Assistant Professor of Psychiatry at Harvard Medical School and is the Division Chief of Translational Neuroscience at Beth Israel Deaconess Medical Center, where he also directs the ASPIRE clinic for early psychosis. His research focuses on understanding the inflammatory and microvascular underpinnings of psychosis. He employs techniques such as retinal and brain imaging, blood-based biomarker analysis, and neuromodulation to identify novel biomarkers and potential treatment targets for psychotic disorders. In addition to his research and clinical roles, Dr. Lizano is committed to advancing mental health care through education and advocacy. He has received multiple awards and grants from NIH supporting his work in psychosis and related fields.

## Bridging Retinal Imaging, Biomarkers, and Neuromodulation: Advancing Precision Interventions for Psychosis Spectrum Disorders

I focus on utilizing retinal/brain imaging, blood-based biomarker technology, and neuromodulation to better characterize and offer more personalized and targeted interventions to individuals with psychosis spectrum disorders. I actively develop retinal and brain imaging processing tools and blood-based biomarker subtyping to parse the heterogeneity in psychosis. My work also involves bridging in vivo and ex vivo techniques to examine inflammation-mediated disruption of the blood brain barrier in psychosis. I have expertise in non-invasive neuromodulation to target causal brain regions in the extrastriate visual cortex or superior temporal sulcus that are associated with visual hallucinations and overall hallucinations respectively.