Seminar

iBraiN

Tuesday, November 10th

12:00-13:00

Amphi D, School of Medicine

The Gut-Brain Axis - From Microbial Mechanisms to Brain Health and Disease



Prof. Damian Holsinger

The University of Sydney, Australia

Biography - Damian Holsinger is the Head of the Laboratory of Molecular Neuroscience and Dementia at The University of Sydney, Australia. His research focuses on the molecular mechanisms underlying neurodegenerative diseases, particularly Alzheimer's disease, with interests spanning neuroinflammation, neuronal signaling and potential therapeutic approaches. He has also made contributions to research exploring the roles of the gut microbiome in Alzheimer's disease, including experimental studies investigating fecal microbiota transplantation.

Seminar - The gut-brain axis has emerged as an important area of research, highlighting the complex interactions between environmental exposures, microbial communities and brain function. This talk will explore the biological mechanisms through which the gut microbiome may influence brain health and disease, drawing on evidence from neurodevelopmental, psychiatric and neurodegenerative disorders. The talk will also consider the challenges of establishing causality and the potential for microbiome-targeted approaches to open new avenues for research and therapeutic intervention across brain disorders.

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