



# LIFE SCIENCES SEMINAR SERIES 2022-2023

## Alzheimer's Disease 2023: Data and Diatribes



**Prof. Karl Herrup, Ph.D.**  
**Professor of Neurobiology**  
**University of Pittsburgh**

The field of Alzheimer's disease research is going through a period of profound change. After nearly 25 years with no new drug approved to help combat the disease, the past year has seen the approval of three new monoclonal antibody therapies targeting amyloid deposits. All three produced statistically significant slowing of cognitive decline. There is much to celebrate in these new success stories, but there is also reason for caution in how to interpret the new findings. The first part of the lecture will be one person's view of where we are and why we might not yet be ready to put the title "breakthrough" on any of the new therapies. The second part of the talk will focus on new data from the lab that offer an alternative path to dementia and Alzheimer's disease – a path that is amyloid independent. This work ties together the loss of genomic integrity, the process of ageing, and the appearance of neuroinflammation as an interconnected series of events leading to symptoms we recognize as Alzheimer's disease. The talk will conclude by tying the two parts together and offering an assessment of the best way forward.

**25 MAY 2023**

**10:00 to 11:00 AM**

**Venue: Science Center L1**

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