

## SPECIAL ISSUE CALL FOR PAPERS

### Alzheimer's Disease and Related Dementias: From Risk Factors to Disease Pathogenesis



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Alzheimer's disease and related dementias are devastating conditions that are becoming a public health crisis as our population ages. Despite great progress recently in dementia research, including identification of genes and lifestyle factors that contribute to disease risk and insights into cellular and molecular changes in the brain, we have no disease modifying treatments. One of the key knowledge gaps in the field preventing effective translation is the lack of understanding of how risk factors change the brain to cause disease.

This special issue aims to gather contributions illustrating recent research advances in Alzheimer's disease and related dementias with a focus on understanding the links between risk factors and neurobiological changes in disease. We welcome contributions elucidating how genetic, lifestyle and environmental risk factors, and ageing, influence brain structure and function. How risk factors may interact is also of interest; for example, how gene polymorphisms highly expressed in glia may be affected by chronic systemic inflammation to cause neurodegeneration. Studies examining biomarkers of underlying patho-mechanisms using pre-clinical and human subjects are also of interest. Studies examining all levels of inquiry, from cognition to molecules and using a wide range of techniques and model systems are welcome.

All types of papers are encouraged; i.e., research papers, targeted reviews, meta-analyses and commentaries. Work can cover studies in animals and/or humans, as well as theoretical concepts. Behavioral and/or pharmacological studies are welcome, but should be placed within the broader neuroscientific context.

*Figure courtesy of Caitlin Davies shows a three-dimensional reconstruction of array tomography staining of a neurofibrillary tangle and synapses from an Alzheimer's disease patient brain post-mortem.*

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