# Special Issue

# Research on the Amyloid in Alzheimer's Disease

## Message from the Guest Editor

Alzheimer's disease (AD) is a globally prevalent progressive and neurodegenerative brain disorder, characterized by amyloid plaques and tau tangles leading to cognitive decline. Recent research on the amyloid in AD, including the "amyloid clock" biomarker, has made significant strides. While there is still no cure for AD, the recent FDA-approved anti-amyloid drugs aducanumab and lecanemab reduce its symptoms. However, there is a need to understand the interaction between neurons and non-neurons, which contributes to an imbalance between the production and clearance of the amyloid in AD, better. AD-patient-derived inducible pluripotent stem cells (iPSCs) can differentiate into various types of neurons, non-neurons, and brain organoids in vitro and in in vivo models, recapitulating the AD pathology in relevant cells. This Special Issue will examine novel amyloid-associated mechanisms and improved biomarkers for AD; the amyloid's effect on the AD brain network; AD patient iPSC-derived neurons, non-neurons, and brain organoids; and in vivo models investigating the role of the amyloid in AD. Yours faithfully,

## Guest Editor

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## Deadline for manuscript submissions

closed (30 June 2025)

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*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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