

## Special Issue

# Amyloid–Metal Interactions in Alzheimer’s Disease: Mechanisms, Biomarkers, and Therapeutic Advances

### Message from the Guest Editor

Alzheimer’s disease (AD) is not merely a story of amyloid-beta (A $\beta$ ) plaques—it is a story of metals. Iron, copper, and zinc are now well recognised as key players in amyloid aggregation, oxidative stress, and neurotoxicity, creating a vicious cycle that accelerates neurodegeneration. As evidence proving that metal dyshomeostasis is a pivotal driver in neurological conditions in general, and AD in particular, continues to grow, the need to unravel these interactions has never been more urgent. Understanding how metals influence amyloid pathology could open avenues for new diagnostic tools and groundbreaking therapeutic strategies. Innovative treatments targeting metal–A $\beta$  interactions are opening new avenues for disease intervention. This Special Issue invites original research, reviews, and perspectives that explore the intricate relationship between amyloids and metals, their role in AD pathology, and potential targets for diagnosis and therapeutic intervention. We welcome cutting-edge contributions that push the boundaries of AD research and offer fresh perspectives on how metal-targeted strategies could transform the field.

### Guest Editor

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### Deadline for manuscript submissions

25 September 2025



## Cells

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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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