# Special Issue

# SAM Domains in Health and Diseases: Structural and Functional Insights

## Message from the Guest Editors

SAM (Sterile Alpha Motif) domains are small protein-interaction modules found in a variety of proteins from yeast to humans. They share a common three-dimensional five-helix bundle, but despite structural similarity, they display great binding versatility. Some SAM domains form oligomers and/or polymers through homo- and heterotypic SAM-SAM associations, while others bind proteins lacking a SAM domain. Interactions with nucleic acids or lipids have also been reported. This binding heterogeneity brings functional versatility, allowing SAM domains to participate in diverse physiological and pathological mechanisms, including signaling pathways, gene transcription regulation, and cytoskeletal organization. SAM domain mutations have been linked to diseases such as cancer, cataracts, and neurological disorders. We invite contributions to the Special Issue “SAM Domains in Health and Diseases: Structural and Functional Insights,” including original research and reviews. Multidisciplinary studies combining in silico and experimental work are highly desired.

## Guest Editors

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## Deadline for manuscript submissions

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*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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