

## Special Issue

# TRIM Family Proteins and Beyond: Molecular Mechanisms in Tissue Homeostasis and Disease

### Message from the Guest Editor

TRIM proteins participate in diverse biological processes, including ubiquitination, autophagy, innate immunity, chromatin regulation, and signal transduction, positioning them as key determinants of tissue development, homeostasis, and stress adaptation. Their dysregulation has been implicated in a wide array of human diseases, such as cancer, heart failure, muscular dystrophy, neurodegeneration, metabolic disorders, inflammatory diseases, and rare genetic syndromes.

This Special Issue welcomes original research and comprehensive reviews that elucidate the molecular actions of TRIM proteins, their structural and biochemical properties, and the signaling networks in which they operate. Studies exploring emerging mechanisms, such as TRIM-mediated phase separation, post-translational modifications, and functional crosstalk with other E3 ligases or regulatory proteins, are particularly encouraged. We also invite contributions that highlight translational relevance, including TRIM-based biomarkers, therapeutic targeting strategies, and model systems capturing TRIM-associated pathologies.

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### Guest Editor

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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