

## Special Issue

# Phase Separation in Biological Regulation and Disease

### Message from the Guest Editors

Biomolecular phase separation is a fundamental organizational principle within cells, creating dynamic, non-membranous compartments known as biomolecular condensates.

This Special Issue, titled "Phase Separation in Biological Regulation and Disease," aims to capture the full breadth of this exciting field. We welcome original research and review articles that illuminate the diverse roles of phase separation in biological regulation, from the underlying biophysical principles to its functional impact on cellular physiology.

Crucially, the breakdown of this precise regulation is increasingly implicated in human pathology. We especially welcome manuscripts that investigate how disease-associated genetic variants or pathological stress lead to condensate dysregulation, resulting in either a loss of normal function or a gain of toxic properties. Furthermore, we invite contributions that explore the downstream consequences of aberrant phase separation on cellular and organismal health, as well as studies presenting novel technologies or therapeutic strategies aimed at precisely modulating these condensates.

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### Guest Editors

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### Deadline for manuscript submissions

20 April 2026



## Life

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### Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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### Editor-in-Chief

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