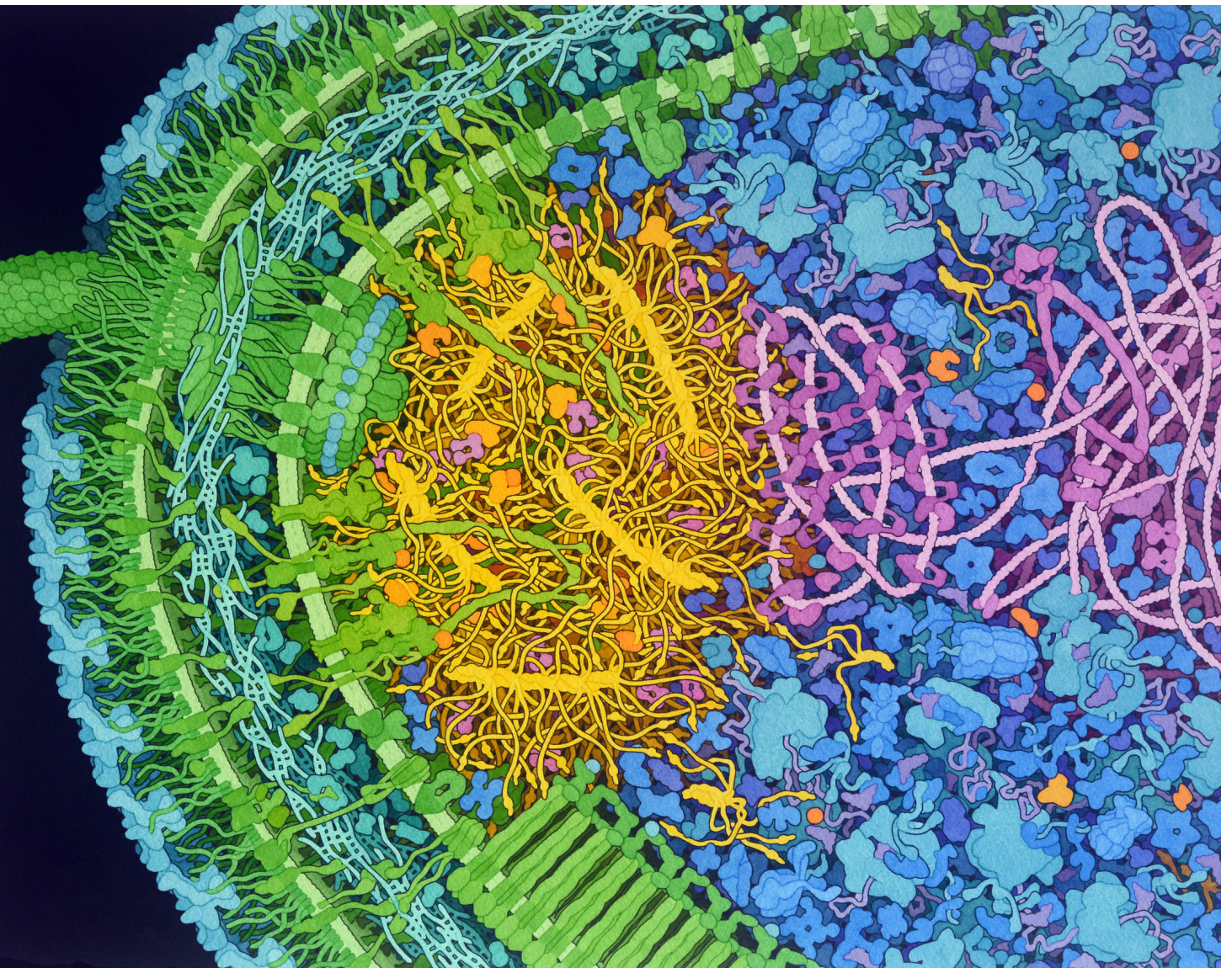


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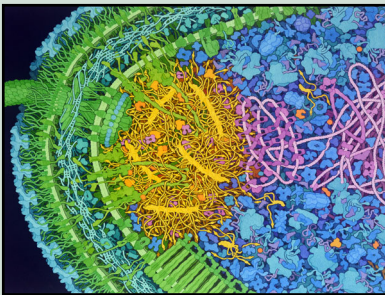
MOLECULAR BIOLOGY OF THE CELL



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Artistic conception of the membraneless microdomain formed by the disordered protein PopZ in *Caulobacter crescentus* cells. This condensate gathers regulatory molecules (“clients”) at the poles of the cell and guides construction of flagellar motors and pili in the mobile form of the bacteria, and a complex holdfast structure in sessile forms. The illustration integrates current knowledge from microscopy, proteomics, and structural biology, and was created by David S. Goodsell and Keren Lasker as part of a workshop on “Reimagining a cellular space occupied by condensates.”

The Philosophy of Molecular Biology of the Cell

Molecular Biology of the Cell (MBoC) is published by the nonprofit American Society for Cell Biology (ASCB) and is free from commercial oversight and influence. We believe that the reporting of science is an integral part of research itself and that scientific journals should be instruments in which scientists are at the controls. Hence, *MBoC* serves as an instrument of the ASCB membership and as such advocates the interests of both contributors and readers through fair, prompt, and thorough review coupled with responsible editorial adjudication and thoughtful suggestions for revision and clarification. Our most essential review criterion is that the work significantly advances our knowledge and/or provides new concepts or approaches that extend our understanding. At *MBoC*, active working scientists—true peers of the contributors—render every editorial decision.

The Society and *MBoC* are committed to promoting the concept of open access to the scientific literature. *MBoC* seeks to facilitate communication among scientists by

- publishing original papers that include full documentation of Methods and Results, with Introductions and Discussions that frame questions and interpret findings clearly (even for those outside an immediate circle of experts) and
- exploiting technical advances to enable rapid dissemination of articles prior to print publication and transmission and archiving of videos, large datasets, and other materials that enhance understanding.

Scope of MBoC

MBoC publishes research articles that present conceptual advances of broad interest and significance within all areas of cell, molecular, and developmental biology. We welcome manuscripts that describe advances with applications across topics including but not limited to: cell growth and division; nuclear and cytoskeletal processes; membrane trafficking and autophagy; organelle biology; quantitative cell biology; physical cell biology and mechanobiology; cell signaling; stem cell biology and development; cancer biology; cellular immunology and microbial pathogenesis; cellular neurobiology; prokaryotic cell biology; and cell biology of disease.

Submissions that report novel methodologies or large datasets are also encouraged, particularly when the technology or data will be widely useful, when it will significantly accelerate progress within the field, or when it reveals a new result of biological significance.

Authors should include with their manuscript submissions all previously unpublished data and methods essential to support the conclusions drawn.