

Special Issue

Biogenesis and Function of Centrioles, Centrosomes, and Primary Cilia in Health and Disease

Message from the Guest Editors

Centrosomes, composed of two centrioles, act as the main microtubule-organizing centers (MTOCs) in animal cells, regulating spindle formation, polarity, and intracellular transport. Their accurate duplication and maintenance are essential to avoid abnormal division and dysfunction. Cilia, derived from basal bodies, play key roles in sensory signaling, and defects in these structures cause ciliopathies, underscoring their importance in cell organization and disease. Recent advances in imaging, proteomics, and model systems have deepened our understanding of their structure, dynamics, and regulation. This Special Issue, *“Biogenesis and Function of Centrioles, Centrosomes, and Primary Cilia in Health and Disease,”* aims to elucidate how these organelles sustain cellular organization and how their defects drive disease. We welcome original research and reviews on centriole and centrosome biogenesis, assembly, spatial control, cytoskeletal interactions, and ciliary function in health and pathology.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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