

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.

Guest Editors

Dr. Ramona Lattao

Institute of Biochemistry and Cell Biology (IBBC), National Research Council (CNR), 00015 Monterotondo, Italy

Dr. H       Rangone

Institute of Molecular and Cellular Pharmacology (IPMC), Universit   C     d'Azur, Sophia Antipolis, 06560 Valbonne, France

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

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