Topical Collection

Cilia and Flagella: Structure, Function and Beyond

Message from the Collection Editors

Cilia and flagella have evolved to perform diverse functions, such as locomotion, mucus clearance, fluid circulation, chemosensation, and mechanosensation. It is now known that defects in cilia and flagella assembly or function give rise to a wide spectrum of human diseases including infertility, loss of vision, kidney cysts, respiratory defects, skeletal anomalies, and neurological disorders. In spite of functional differences, cilia and flagella are remarkably similar in terms of molecular composition and structure, consisting of stabilized microtubules arranged in a nine-fold radial symmetry. The Special Issue focuses on current advances in the biology of cilia and flagella. We welcome contributions that include, but are not limited to, structural and functional studies of cilia/flagella, different cilia/flagella model systems, mechanisms of cilia/flagella assembly, maintenance, and disassembly, mechanisms of cilia/flagella-mediated sensing mechanisms and signal transduction, link between cilia/flagella and the cell cycle or other relevant cell physiological processes implicated in disease.

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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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