Special Issue

Functions of Cilia

Message from the Guest Editor

Cilia are membrane-bound microtubule-based cellular organelles that play a crucial role in various biological processes and human diseases. Beyond their well-established functions in cell motility and fluid movement, cilia serve as sensory and secretory organelles. Studies across diverse organisms have demonstrated that cilia secrete extracellular vesicles via the budding of the ciliary membrane into the extracellular environment. These cilia-derived vesicles contain bioactive products that facilitate intercellular communication. Emerging as a key signaling hub, cilia can receive a diverse array of input signals and transmit them to regulate a wide range of cellular responses.

For this Special Issue, we invite research articles and reviews that explore the diverse functions of cilia, spanning motility, sensory perception, and secretion, across a broad range of model organisms, from unicellular eukaryotes to vertebrates. Additionally, this Special Issue will feature recent studies highlighting the role of cilia or cilia-derived vesicles in human diseases and various physiological processes.

Guest Editor

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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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