Special Issue

Cilia-Based New Discoveries: Ciliogenesis, Function, and Human Diseases

Message from the Guest Editor

The interest in the primary cilia has drastically increased since it was first described in 1898. The number of diseases where the primary cilia seem to play an important role is constantly increasing. Primary cilia are non-motile antenna-like structures present in a single copy on the surface of most growth-arrested mammalian cells, including stem cells, neurons, and astrocytes. The primary cilium coordinates a series of signal transduction pathways, including Hedgehog, PDGFRalpha, WNT, mTOR, and integrin signaling. Defects in the primary cilium have been associated with a large number of phenotypes, including developmental defects, kidney diseases, cancer, tuberous sclerosis, Bardet–Biedl syndrome, obesity, and diabetes. However, much remains to be carried out before we have a full understanding of the function of this organelle. Increased knowledge could lead to the identification of new drug targets. The aim of this Special Issue is to focus on new insights into the role of the primary cilium with relevance to human disease.

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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