Special Issue

Progesterone Receptor Signaling

Message from the Guest Editors

Progesterone receptors (PR) mediate the endocrine actions of the female sex steroid progesterone (P4), which result in cellular and physiological changes to the reproductive system that establish and maintain pregnancy. While many of the actions of P4 are mediated by a classical mechanism non-classical P4 signaling mechanisms also occur. Epidemiological and genomic studies in women, as well as conditional mutagenesis studies in rodents not only highlight an essential role of PRs in the development and maintenance of female reproductive organs, fertility, behavior, and immune regulation during pregnancy, they also demonstrate participation of PRs in the development of diseases when disrupted. Indeed, faulty or absent P4 signaling through classical or non-classical mechanism results in a variety of disease states that include endometriosis and women's reproductive cancers. The objective of this Special Issue is to provide an overview of novel PR signaling mechanisms in diverse reproductive tissues both in the contexts of physiology and pathophysiology.

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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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