Special Issue

Insulin-Like Growth Factors and Their Receptors on the Road to Personalized Medicine in Cancer: Fact or Fiction?

Message from the Guest Editor

Currently it is well established that IGF-1R is crucial in many physiological processes like growth, differentiation and aging, as well as it being an important player in disease development. IGF-1R is commonly expressed in human cancers and many cell lines are mitogenically responsive to physiological concentrations of IGFs. IGF-1R is classified as a RTK and accordingly tyrosine phosphorylation was considered to be the central process governing IGF-1R signalling As such, most anti-IGF-1r strategies are designed to prevent kinase activation. The clinical success of nearly all tyrosine-kinase inhibitors is predicted by the presence of activating mutations or substantial receptor overexpression, but neither is the case with IGF-1R. IGF-1R does not show intrinsic receptor abnormalities, therefore other pathways and quantitative changes are being assessed. This Special Issue of Cells will follow the development of our understanding of the IGF-1R biology, the contradictions to the classical IGF-1R paradigms as well as the design of anti-IGF-1R therapeutics with a particular focus on those relating to cancer.

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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