Special Issue

Prospects in GSK-3 Signaling: From Cellular Regulation to Disease Therapy

Message from the Guest Editor

Glycogen synthase kinase-3 (GSK-3) participates in diverse biological processes and plays different roles in different contexts. Yet, it is a promising drug discovery target in treating multiple pathological conditions. Perhaps, the sophisticated mechanises in which GSK-3 is integrated into cellular networks is key in our understanding of the therapeutic benefits achieved with GSK-3 inhibition. The role of GSK-3 in the pathogenies of diseases such as diabetes, psychiatric disorders and Alzheimer's disease has been demonstrated, more connections describing GSK-3 with cellular targets and biological resposnes are uncovered in present studies. Another 'hot' topic to be mentioned is the efforts in understanding the (potential) distinguished functions of GSK-3 isozymes, GSK-a and GSK-b, an issue that remains soemwhat elusive. **Keywords:**

- GSK-3
- Protein kinases
- Cell signaling
- Wnt signaling
- Neurodegenerative disorders
- Psychiatric disorders
- Development
- Sperm function
- Neuron plasticity
- Stem cell biology
- Translational medicine
- Drug discovery
- Drug design

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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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