Special Issue

Molecular Mechanisms behind the Wnt Signalling Pathways

Message from the Guest Editors

The Wnt signalling pathways underpin embryonic and organ development as well as tissue homeostasis. The dysregulation of these pathways, in particular, the b-catenin-dependent pathway, can result in oncogenesis and impaired stem-cell function. Accordingly, Wnt-signalling-pathway components are of interest as potential therapeutic targets in the treatment of cancer and in molecular biotechnological applications. The aim of this Special Issue is to provide a contemporary update on the latest studies of these fascinating pathways. In this Special Issue, we welcome the following submissions:

- Original research articles investigating molecular, cellular, and preclinical studies on Wnt signalling;
- Reviews covering recent studies of Wnt signalling and its relevance to specific aspects of biology;
- Technical reports detailing new in silico, in vitro, and in vivo methodologies for the study of Wnt signalling in diseases and biotechnology;
- Opinions and perspectives covering new hypotheses on Wnt signal transduction and the role of Wnt signalling in mediating specific cellular and whole-organ developmental processes.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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