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Hedgehog Signaling in Development and Cancer

Guest Editor:

Dr. Maria Domenica Castellone
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Deadline for manuscript submissions:
closed (31 July 2020)

Message from the Guest Editor

Dear Colleagues,

The Hedgehog pathway represents a key regulator of embryonic development and tissue homeostasis as well as of tissue repair and maintenance of stem cells. Recent studies have demonstrated that Hh signaling is activated in a ligand-independent way in familial cancers such as basal cell carcinoma, medulloblastoma, and rhabdomyosarcoma, as a consequence of genetic aberrations deleting the Ptch inhibitory receptor or activating Smo receptor as well as a consequence of Gli amplification, while in sporadic cancers, Hh pathway activation occurs in a ligand- independent noncanonical way, as a result of a crosstalk with other oncogenic pathways or as a consequence of a ligand-dependent autocrine or paracrine way.

This Special Issue offers an Open Access forum that aims to bring together a collection of original research articles, reviews, and communications on the function of Hh signaling in development, human cancers, and diseases, as well as on the role of Hh signaling molecules as diagnostic, prognostic, and therapeutic targets.

Dr. Maria Domenica Castellone
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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