

Special Issue

Molecular Insights into Development and Cancer

Message from the Guest Editors

Normal embryonic development is governed by signaling pathways that control a myriad of processes, ranging from cell division, migration and differentiation to organ formation. These pathways are often co-opted and de-regulated in common diseases of adulthood, including the progression of cancer. Many parallels exist between the normal cellular process required for the establishment of an embryo (such as asymmetric cell division in stem cells, epithelial to mesenchymal transitions in organ establishment, and formation of the vascular system required) with identical pathways that drive tumor initiation and progression. In effect, tumor growth can, in many cases, be thought of as the aberrant establishment of a new “organ” (Gerlitz et al., *EMBO Reports* 9: 730-734), utilizing and corrupting precisely the same signaling pathways required for normal growth. This Special Issue is devoted to understanding these parallels; by determining the normal pathways of tissue and organ establishment, we can better understand the consequences of their deregulation in the context of cancer development.

Guest Editors

Dr. Seb Dworkin
Dr. Charbel Darido
Dr. Tomasz Wilanowski

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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