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Stem Cell and Developmental Biology: At the Interface of Differentiation and Morphogenesis

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Message from the Guest Editors

Dear Colleagues,

Developmental biology has been fundamental in determining the properties that shape multicellular organisms. Cell fate decisions drive differentiation, while diverse cell interactions – adhesion, signalling exchange and migration – drive the morphogenetic movements and tissue forces that shape organs in space and time. Stem cells are critical in orchestrating developmental decisions, from establishing cell lineages during embryogenesis to supporting tissue maintenance and repair in the adult. Elucidating these dynamic processes also has implications in understanding responses to injury and disease, and in developing regenerative and therapeutic strategies. At the interface of differentiation and morphogenesis, we invite contributions on themes including: Gene regulatory networks and epigenetics; Signalling and cell-cell interactions; Tissue mechanics and mechanotransduction; Germ cells and reproduction; Tissue aging; Evolution of developmental control.

More details can be found at:
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Guest Editors



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Message from the Editor-in-Chief

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