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Cellular and Molecular Mechanisms of Limb Development and Regeneration

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Message from the Guest Editor

Dear Colleagues,

Embryonic development is a fascinating process requiring a very precise spatiotemporal regulation of cellular proliferation and subsequent differentiation. There are a few model systems addressing experimentally these issues and the vertebrate limb development is one of the more popular ones. This model makes it possible not only to study the embryonic events but also to investigate pathological and repair processes in postnatal life.

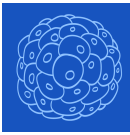
All major signaling pathways are activated during the induction, progression, and regeneration of the vertebrate limb. Most cellular processes such as migration, patterning, differentiation are also present. Several types of stem cells have been described, which are present during limb development.

This Special Issue will focus on the latest developments in limb induction, regeneration, and patterning with the particular focus on the cellular and molecular aspects of those processes.



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Special Issue



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