

About the Series

Stem Cells reviews the current knowledge on stem cell science covering *all* its major topics from basic cell biology to legislation. As opposed to more focused books, *Stem Cells* aims to offer a complete and broad compendium as a key reference for students and more advanced scientists working on any aspect of stem cells. Six sections in two volumes describe: Volume I: i) basic stem cell biology, ii) tissue formation during development, iii) model organisms; Volume II: i) tissue homeostasis and regeneration during adulthood, ii) applications in basic research, medicine and industry, finishing with iii) legislation and ethics; each consisting of self-sufficient and logically connected chapters contributed by prestigious scientists worldwide working on each given topic.

About the Volume

The second volume of *Stem Cells* concentrates on mechanisms of stem cell regeneration in the adult organism with the aim to understand how lost tissue can be replaced during adulthood and aging. The long-term aim of all disciplines is to be able to support the regeneration process within the organism or to generate and expand stem cells to produce complete tissues for cell-based therapies. Therefore, the second main focus of Volume II lies on stem cell identification and manipulation to achieve these long-term goals. Volume II closes with an outlook on generalized approaches to solve legislative and ethical challenges that each society regulates autonomously at present.

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