

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 first volume of *Stem Cells* deals with the fundamental principles that govern embryonic and somatic stem cell biology. Historically, the identification and characterization of such pathways and general rules of *stemness* occurred during embryonic development and Volume I reflects this with topics spanning cell cycle regulation, epigenetics, and asymmetric cell division in a number of organ systems from planarian to human. Three specific sections discuss i) Basic Stem Cell Biology, ii) Tissue Formation During Development, and iii) Model Organisms with particular emphasis on those more relevant for biomedical research and, thus, leading to the topics addressed in Volume II.

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