

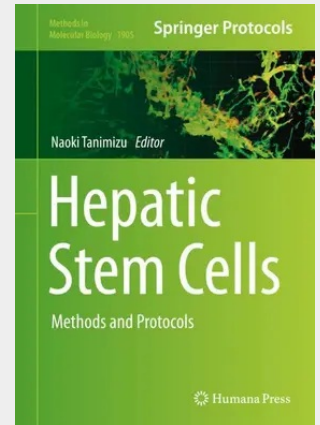
## Hepatic Stem Cells

Methods and Protocols

This volume looks at the liver's epithelial cells—hepatocytes and cholangiocytes—and their progenitors. This book is divided into five parts: isolation of progenitor cells; characterization of liver progenitors in vivo; generation of hepatocytes, cholangiocytes, and their progenitors; reconstitution of liver tissue structures; and liver injury models. The chapters in this book cover topics such as expansion of bipotential liver stem/progenitor cells (LPCs) from fetal and neonatal liver; identifying progenitor cells involved in liver regeneration in vivo; methods for generating hepatocytes and cholangiocytes from multiple cellular sources; 3D tissue structures ex vivo; and resolving hepatic fibrosis by bone marrow transplantation. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Cutting-edge and thorough, *Hepatic Stem Cells: Methods and Protocols* is a valuable resource to help researchers understand the current theories used to study hepatic stem/progenitor cells, and aid them in performing experiments related to liver biology and pathophysiology.

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