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Therapies for Injured Peripheral Nerve; Therapies for Injured Spinal Cord; Therapies for Neurodegenerative Diseases; Summary; References; Chapter 7: Regeneration of Digestive, Respiratory and Urogenital Tissues; Introduction; Intestinal Epithelium; Liver; Pancreas; Alveolar Epithelium of the Lung; Kidney and Urinary System; Gonads; Prostate Tissue; Summary; References; Chapter 8: Regenerative Medicine of Digestive, Respiratory and Urinary Tissues; Introduction; Regenerative Therapies for the Liver
Regenerative Therapies for the PancreasRegenerative Therapies for the Esophagus and Intestine; Regenerative Therapies for the Respiratory System; Regenerative Therapies for the Urinary System; Summary; References; Chapter 9: Regeneration of Musculoskeletal Tissues; Introduction; Regeneration of Skeletal Muscle; Regeneration of Bone; Repair of Articular Cartilage; Repair of Tendon and Ligament; Summary; References; Chapter 10: Regenerative Medicine of Musculoskeletal Tissues; Introduction; Regenerative Therapies for Muscle; Regenerative Therapies for Meniscus and Articular Cartilage
Regenerative Therapies for BoneRegenerative Therapies for Tendon and Ligament; Summary; References; Chapter 11: Regeneration of Hematopoietic and Cardiovascular Tissues; Introduction; Regeneration of Hematopoietic Cells; Regeneration of Blood Vessels; Regeneration of Cardiac Muscle; Summary; References; Chapter 12: Regenerative Medicine of Hematopoietic and Cardiovascular Tissues; Introduction; Therapies for Hematopoietic Disorders; Therapies for Blood Vessel Regeneration; Therapies for Protection and Regeneration of the Infarcted Myocardium; Summary; References
Chapter 13: Regenerative Medicine: Developmental Plasticity of Adult Stem Cells

Sommario/riassunto

The purpose of the book is to bring together in one place the different facets of regenerative biology and medicine while providing the reader with an overview of the basic and clinically-oriented research that is being done. Not only does the content cover a plethora tissues and systems, it also includes information about the developmental plasticity of adult stem cells and the regeneration of appendages.As part of its balanced presentation, Regenerative Biology and Medicine does address the biological/bioethical issues and challenges involved in the new and exciting field of r