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As part of its balanced presentation,
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address the biological/bioethical issues
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regenerative biology and medicine second edition Sep 05, 2020 Posted By J. R. R. Tolkien Ltd TEXT ID 94837e66 Online PDF Ebook Epub Library global picture the book is organized into three parts since the publication of the first edition of regenerative biology and medicine in 2006 steady advances have been made

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advances applied in recent years to strategies for healing and generating tissue contributions from a stellar cast of researchers cover the

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of Part I provide a discussion of the mechanisms and the basic biology of regeneration while Part II examines the strategies of regenerative medicine being developed for each organ system.

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organized into three parts. Part I discusses the mechanisms and the basic biology of regeneration, while Part II deals with the strategies of regenerative medicine developed for restoring tissue, organ, and appendage structures. Part III reflects on the achievements of regenerative biology and medicine; future challenges; bioethical

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issues that need to be addressed; and the most promising developments in regenerative medicine. The book is designed for multiple audiences: undergraduate students, graduate students, medical students and postdoctoral fellows, and research investigators interested in an overall synthesis of this field. It will also

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appeal to investigators from fields not directly related to regenerative biology and medicine, such as chemistry, informatics, computer science, mathematics, physics, and engineering. Highly Commended 2013 BMA Medical Book Award for Medicine Includes coverage of skin, hair, teeth, cornea, and central neural tissues

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Virtually any disease that results from

malfunctioning, damaged, or failing tissues may be potentially cured through regenerative medicine therapies, by either regenerating the damaged tissues in vivo, or by growing the tissues and organs in vitro and implanting them into the patient.

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Biology The first of its kind to offer an advanced understanding of the latest technologies in regenerative medicine

New discoveries from leading researchers on restoration of diseased tissues and organs

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This book is the second of two volumes that together offer a comprehensive account of cutting-edge advances in the development of biomaterials for use within tissue engineering and regenerative medicine. In this volume, which is devoted to biomimetic biomaterials, the opening section discusses bone regeneration by

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means of duck's feet-derived collagen

scaffold and the use of decellularized extracellular matrices. The role of various novel biomimetic hydrogels in regenerative medicine is then considered in detail. The third section focuses on the control of stem cell fate by biomimetic biomaterials, covering exosome-integrated

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biomaterials for bone regeneration, cellular responses to materials for biomedical engineering, and the regulation of stem cell functions by micropatterned structures. Finally, the use of nano-intelligent biocomposites in regenerative medicine is addressed, with discussion of, for example, recent advances in biphasic

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calcium phosphate bioceramics and blood-contacting polymeric biomaterials. The authors are recognized experts in the interdisciplinary field of regenerative medicine and the book will be of value for all with an interest in regenerative medicine based on biomaterials.

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Defined as, "The science about the development of an embryo from the fertilization of the ovum to the fetus stage," embryology has been a mainstay at universities throughout the world for many years. Throughout the last century, embryology became overshadowed by experimental-based genetics and cell

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biology, transforming the field into developmental biology, which replaced embryology in Biology departments in many universities. Major contributions in this young century in the fields of molecular biology, biochemistry and genomics were integrated with both embryology and developmental biology to

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provide an understanding of the molecular portrait of a "development cell." That new integrated approach is known as stem-cell biology; it is an understanding of the embryology and development together at the molecular level using engineering, imaging and cell culture principles, and it is at the heart of this seminal book. Stem

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of embryonic and cancer cells plus their key involvement in self-renewal, muscle repair, epigenetic processes, and therapeutic applications. In addition, it covers other key relevant topics such as nuclear reprogramming induced pluripotency and stem cell culture techniques using novel biomaterials. A

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thorough introduction to stem-cell biology, this reference is aimed at graduate students, post-docs, and professors as well as executives and scientists in biotech and pharmaceutical companies.

The second edition of Stem Cells:
Scientific Facts and Fiction provides the

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non-stem cell expert with an understandable review of the history, current state of affairs, and facts and fiction of the promises of stem cells. Building on success of its award-winning preceding edition, the second edition features new chapters on embryonic and iPS cells and stem cells in veterinary

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Medicine Second Edition. It contains major revisions on cancer stem cells to include new culture models, additional interviews with leaders in progenitor cells, engineered eye tissue, and xeno organs from stem cells, as well as new information on "organs on chips" and adult progenitor cells. In the past decades

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our understanding of stem cell biology has increased tremendously. Many types of stem cells have been discovered in tissues that everyone presumed were unable to regenerate in adults, the heart and the brain in particular. There is vast interest in stem cells from biologists and clinicians who see the potential for regenerative

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medicine and future treatments for chronic diseases like Parkinson's, diabetes, and spinal cord lesions, based on the use of stem cells; and from entrepreneurs in biotechnology who expect new commercial applications ranging from drug discovery to transplantation therapies. Explains in straightforward, non-

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specialist language the basic biology of stem cells and their applications in modern medicine and future therapy Includes extensive coverage of adult and embryonic stem cells both historically and in contemporary practice Richly illustrated to assist in understanding how research is done and the current hurdles to clinical

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It is clear that the potentials of assessing embryonic stem (ES) cells in regenerative medicine applications is evident in the ever-increasing publications in which ES cell biology and differentiation along diverse lineages appear in the academic as

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well as the popular press. These two new volumes present important advances in the field since the publication of Embryonic Stem Cells: Methods and Protocols four years ago. These two volumes provide an update and complement to that volume, focusing on ES cells recently isolated from other/non-mouse species. Each volume

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contains numerous updates, more advanced approaches; and completely new protocols for the use of ES cells in studies of diverse cell lineages. These two volumes will surely expand the experimental repertoires of both experts and novices in the field.

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Recent scientific breakthroughs, celebrity patient advocates, and conflicting religious beliefs have come together to bring the state of stem cell research—specifically embryonic stem cell research—into the political crosshairs. President Bush's watershed policy statement allows federal funding for embryonic stem cell research

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but only on a limited number of stem cell lines. Millions of Americans could be affected by the continuing political debate among policymakers and the public. Stem Cells and the Future of Regenerative Medicine provides a deeper exploration of the biological, ethical, and funding questions prompted by the therapeutic

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potential of undifferentiated human cells.

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Regenerative Medicine also provides an overview of the moral and ethical problems that arise from the use of embryonic stem cells. This timely book compares the impact of public and private research funding and discusses approaches to appropriate research oversight. Based on the insights of leading scientists,

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ethicists, and other authorities, the book offers authoritative recommendations regarding the use of existing stem cell lines versus new lines in research, the important role of the federal government in this field of research, and other fundamental issues.

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The study of stem cell biology is under intensive investigation. Because stem cells have the unique capability to self-renew and differentiate into one or several cell types, they play a critical role in development, tissue homeostasis and regeneration. Stem cells also constitute promising cell candidates for cell and gene

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therapy. The aim of this book is to provide readers and researchers with timely and accurate knowledge on stem cell biology and regenerative medicine. This book will cover many topics in the field and is based on conferences given by recognized scientists involved in the international master course on stem cell biology at

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Since the publication of the first edition of this book in 2010, an explosion of spectacular discoveries in the field of regeneration has compelled the current revisit of the field of Regenerative Nephrology. This second edition features

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subjects as diverse as age and gender influencing regenerative processes; mechanisms and pathways of premature cell senescence affecting kidney regeneration; the ways intrinsic regenerative processes can become subverted by noxious stressors eventuating in disease progression; novel mechanistic

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and engineering efforts to recreate functional kidney or its component parts; cell reprogramming and reconditioning as emerging tools of future regenerative efforts; and effects of various biologicals on kidney regeneration. These newer additions to the armamentarium of Regenerative Medicine and Nephrology

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have become an integral part of the second edition of the book. Cutting-edge investigations are summarized by the constellation of the most experienced contributing authors coming together from around the world under the umbrella of the second edition. A significant expansion of section on induced pluripotent cells and

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trajectories of their differentiation. This will be followed by mechanisms and modalities of cell reprogramming for therapeutic purposes A new section on tissue engineering of the kidney of interest to nephrologists and urologists An entire section dedicated to causes of regenerative failure with the emphasis on recent

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discoveries of senescent cells in kidney disease, pathologic effects of senescent cells, adverbs in senotherapies and rejuvenation therapies A vastly expanded section on pharmacotherapies promoting kidney regeneration, trials of engineered organs, manufacturing in regenerative medicine and smooth transition to the

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clinical trials, with an update on some
ethical issues

This book discusses the two different cellular approaches that are pursued in regenerative medicine: cell therapy and tissue engineering. It examines in detail the therapeutic application of

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regeneration, multi-potent mesenchymal stem cells (MSCs), also referred to as mesenchymal stromal cells. The interest in MSCs can be seen in more than 150 clinical trials, some of which have progressed to Phase III, despite the cells' limited differentiation potential. The book

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Medicine Second Edition also explores how embryonic stem (ES) cells, being pluripotent in nature, can resolve some of the problems associated with adult stem cells, yet entail other challenges like risks of teratoma formation and immune rejection. A separate chapter deals with the role of noncoding RNAs in neuronal commitment of induced

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pluripotent stem (iPS) cells. Chapters like
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global scenario]; [3D bioprinting of tissue]
and others will make this book an
extremely interesting read for all students,
researchers and clinicians working in the
area of regenerative medicine/stem cells.
The book is broadly divided into two

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parts, the first of which is devoted to basic information on stem cells, and the second of which addresses potential clinical applications in the areas of hematology, cardiology, orthopedic and immune suppression, etc.

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