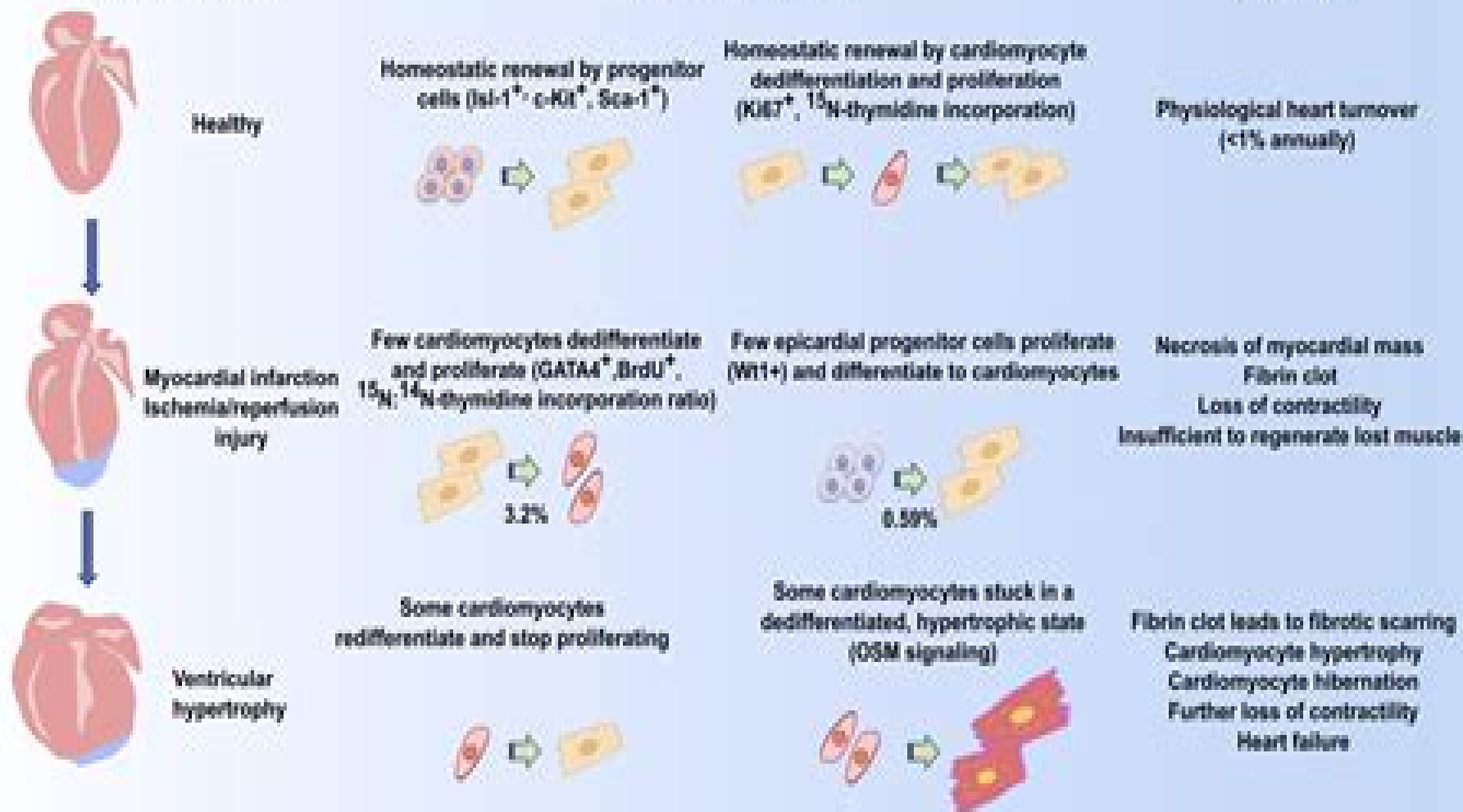


Heart condition

Regenerating cells

Outcomes

Adult mouse



Legend:



mature cardiomyocyte



epicardial-derived progenitor cell



immature/dedifferentiated cardiomyocyte



cardiac progenitor cell



dedifferentiated hypertrophic cardiomyocyte

Regeneration Stem Cells And Beyond

Luca Bonfanti,Irmgard Amrein



Regeneration Stem Cells And Beyond:

Regeneration: Stem Cells and Beyond Ellen Heber-Katz, 2012-12-06 In this issue of Current Topics in Microbiology and Immunology the authors present a unique range of examples of the regenerative response and the role of stem cells from the amphibian to human It seems that all roads lead to cells that have the plasticity to become something else not only in the amphibian but also in the mammal

Heart Regeneration: Stem Cells And Beyond Felix B Engel, 2012-03-22 Injured mammalian hearts do not regenerate but scar This is a major medical problem as ischemic heart disease is among the leading causes of morbidity and mortality worldwide Essential clues for human heart repair are uncovered when zebrafish and newt are found to regenerate cardiac muscle after injury This book presents the major advances of the last decade in the field of cardiac regeneration These recent advances include demonstration that zebrafish a genetically tractable system can regenerate heart the identification of several new stem cell populations in the heart demonstration that stem cells can be used to improve heart function and demonstration that induction of cardiomyocyte proliferation is a realistic future option to repair injured hearts This book also provides detailed reviews of the research on model organisms capable of heart regeneration as well as innovative translational research to achieve regeneration in mammals that comprises work on blood born stem cells endogenous cardiac stem cells paracrine factors reawakening of cardiomyocyte proliferation and bioengineering More importantly the book in the concluding chapter dovetails the studies with a comprehensive overview of clinical trials

Heart Regeneration Felix B. Engel, 2012 This title presents the major advances of the last decade in the field of cardiac regeneration

Biology of Negative Strand RNA Viruses: The Power of Reverse Genetics Yoshihiro Kawaoka, 2004-05-07 Negative strand RNA viruses so named because of the polarity of their genomic RNA to mRNA include important human and non human pathogens This volume covers major advances in reverse genetics techniques over the past decade state of the art basic science and the clinical implications of experimental findings This should rekindle interest in negative strand RNA viruses among readers including those in other disciplines leading to further progress in understanding these important viruses and in developing effective measures of control

Glaucoma: A Neurodegenerative Disease of the Retina and Beyond Part B Giacinto Bagetta, Carlo Nucci, 2020-09-26 Glaucoma A Neurodegenerative Disease of the Retina and Beyond Part B Volume 257 the latest release in the Progress in Brain Research series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Topics covered in this new release include Glaucoma neurodegeneration and myopia Links between obstructive sleep apnea and glaucoma neurodegeneration Artificial intelligence and deep learning in glaucoma Current state and future prospects Brain networks reorganization and functional disability in glaucoma Advanced vascular examinations of the retina and optic nerve head in glaucoma and much more Covers all key aspects of current research on glaucoma Provides extensively referenced chapters giving readers a comprehensive list of resources on topics covered Includes comprehensive and in depth background

information written in a clear form that is accessible to both specialists and non specialists Endodontics Beyond Basics: Navigating New Frontiers in Root Canal Therapy Dr Kailash Attur, 2022-03-13 Navigate the new frontiers of root canal therapy with this in depth guide to advanced endodontic practices From innovative techniques to the latest research this book is essential for endodontists and dental professionals seeking to enhance their skills and knowledge **Beyond Human: The Ethics and Possibilities of Bioengineering** VIRUTI SHIVAN, In Beyond Human we delve into the rapidly evolving world of bioengineering a realm where science fiction is becoming science fact This book navigates through the intricate landscape of genetic modification organ regeneration and human enhancement technologies presenting a nuanced exploration of the ethical moral and societal implications these advancements bring As we stand on the brink of significant breakthroughs in biotechnology Beyond Human offers an in depth analysis of the potential benefits and risks The book examines case studies and theoretical scenarios providing a balanced view of bioengineering s promise to cure diseases extend life and improve human capabilities against the backdrop of ethical quandaries and the risk of unintended consequences With contributions from leading scientists ethicists and thinkers this book is an essential guide for anyone interested in the future of humanity It poses critical questions How far should we go in altering our biology What are the potential impacts on society and the environment And who gets to decide the path forward Beyond Human is not just a book about science it s a conversation starter about the kind of future we want to create **Bone Morphogenetic Proteins: Regeneration of Bone and Beyond** Slobodan Vukicevic, Kuber T. Sampath, 2004-08-20 Since the discovery of the bone morphogenetic proteins BMPs more than 15 years ago there has been an unpredicted explosion of both basic scientific discoveries and clinical reports on their use from institutions all over the world The potent efficacy of BMPs in almost all crucial developmental events as well as during regeneration of various organs such as bone kidney brain liver heart etc has positioned BMPs at the center of scientific interest Many of these aspects are covered in this new PIR volume Their role in development biology signal transduction kidney regeneration ENS functions craniofacial skeleton reconstruction joint and cartilage repair long bone non unions and acute fractures and spinal fusion is reviewed by experts in the field For the first time the role of BMPs in carcinogenesis has been reviewed to provide a rationale for applying their biology in patients with bone tumors The optimism resulting from safe and successful treatment with BMPs for various skeletal malformations of more than 10 000 patients worldwide has opened new avenues for exploring other indications for their use The next big challenge for bringing BMPs to the benefit of mankind is in regenerating articular cartilage defects and rescuing patients with acute and chronic renal failure The volume editors thank all authors for the rapid preparation of their chapters in order that the book remains up to date for readers with specific interest in the field of regenerative medicine The important contribution of Mrs Morana and Mr **Myc as a Disease Target Beyond Cancer** Jonathan R. Whitfield, Mariano F. Zacarias-Fluck, John Sedivy, Yulia A. Nevzorova, 2024-09-02 Myc is a pleiotropic transcription factor fundamental for many

cellular processes It is an infamous and highly studied oncogene with around 10 000 articles published in the last decade The majority of these link it to cancer The focus on Myc as a hot target in cancer has led to immense efforts from academia through to pharmaceutical companies being directed towards finding a Myc inhibitor Not surprisingly given its fundamental nature in many physiological processes Myc has also been linked to a large variety of pathologies other than cancer The growing efforts to develop Myc inhibitors as cancer therapies will have important implications for the treatment of these diseases too whether they have a clearly demonstrated aetiology linked with Myc or so far are only at early stages of association with it Interestingly the activation of Myc may also prove helpful in the field of regenerative medicine and reversal of ageing The aim of this Research Topic is therefore to describe non oncological pathologies and conditions to which Myc modulation could be applied These will include conditions that have strong links to Myc and where Myc modulation has already been modelled as well as conditions that so far have more limited data linking them to Myc but where it seems to have a key role Authors will be expected to briefly review the particular disease and what is known to link Myc to it plus the possibility of any clinical trials in the near future

Adult Neurogenesis: Beyond Rats and Mice Luca Bonfanti,Irmgard Amrein,2019-02-11 Researchers working on adult neurogenesis have focused largely on inbred laboratory rodents While this provides a strong advantage of restricting genetic variation in the group it also narrows our perspective on adult neurogenesis as a biological phenomenon Many unsolved issues and open questions cannot be resolved without the contribution of comparative studies spanning through widely different species how did adult neurogenesis evolve what is the link between adult neurogenesis and brain complexity how do adult neurogenesis and animal behavior influence each other how does adult neurogenesis contribute to brain plasticity cognition and possibly repair and how do experimental conditions affect adult neurogenesis The main message from the comparative approach to adult neurogenesis is that the relative exclusive focus on laboratory rodents can result in a bias on how we think about this biological process

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