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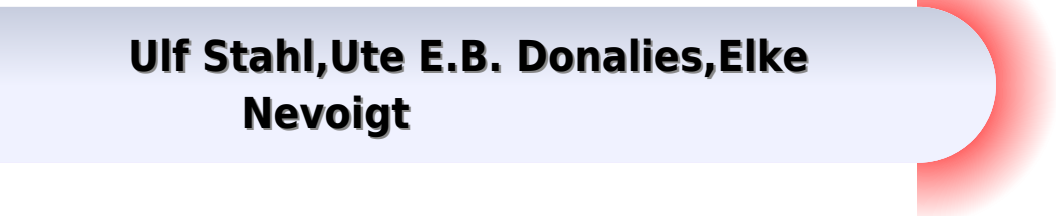
Regenerative Medicine I

Theories, Models and Methods

 Springer

Regenerative Medicine I Theories Models And Methods

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present this special volume on tissue engineering in the series *Advances in Biochemical Engineering and Biotechnology* This volume reflects the emergence of tissue engineering as a core discipline of modern biomedical engineering and

recognizes the growing synergies between the technological developments in biotechnology and biomedicine. Along this vein, the focus of this volume is to provide a biotechnology driven perspective on cell engineering fundamentals while highlighting their significance in producing functional tissues. Our aim is to present an overview of the state of the art of a selection of these technologies punctuated with current applications in the research and development of cell based therapies for human disease. To prepare this volume we have solicited contributions from leaders and experts in their respective fields ranging from biomaterials and bioreactors to gene delivery and metabolic engineering. Particular emphasis was placed on including reviews that discuss various aspects of the biochemical processes underlying cell function such as signaling, growth, differentiation and communication. The reviews of research topics cover two main areas: cellular and non cellular components and assembly, evaluation and optimization of tissue function and integrated reactor or implant system development for research and clinical applications. Many of the reviews illustrate how biochemical engineering methods are used to produce and characterize novel materials, e.g. genetically engineered natural polymers, synthetic scaffolds with cell type specific attachment sites or inductive factors whose unique properties enable increased levels of control over tissue development and architecture.

Cell Culture Engineering Wei-Shu Hu, 2006-08-16 Since the introduction of recombinant human growth hormone and insulin a quarter century ago, protein therapeutics has greatly broadened the horizon of health care. Many patients suffering with life threatening diseases or chronic dysfunctions which were medically untreatable not long ago can attest to the wonder these drugs have achieved. Although the first generation of protein therapeutics was produced in recombinant *Escherichia coli*, most recent products use mammalian cells as production hosts. Not long after the first production of recombinant proteins in *E. coli*, it was realized that the complex tasks of most post translational modifications on proteins could only be efficiently carried out in mammalian cells. In the 1990s we witnessed a rapid expansion of mammalian cell derived protein therapeutics, chiefly antibodies. In fact it has been nearly a decade since the market value of mammalian cell derived protein therapeutics surpassed that of those produced from *E. coli*. A common characteristic of recent antibody products is the relatively large dose required for effective therapy, demanding larger quantities for the treatment of a given disease. This coupled with the broadening repertoire of protein drugs has rapidly expanded the quantity needed for clinical applications. The increasing demand for protein therapeutics has not been met exclusively by construction of new manufacturing plants and increasing total volume capacity. More importantly, the productivity of cell culture processes has been driven upward by an order of magnitude in the past decade.

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