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Bioengineering in Cell and Tissue Research



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Megh R. Goyal

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Introduction to Tissue Engineering Ravi Birla, 2014-06-05 A comprehensive reference and teaching aid on tissue engineering covering everything from the basics of regenerative medicine to more advanced and forward thinking topics such as the artificial liver bladder and trachea Regenerative medicine tissue engineering is the process of replacing or regenerating human cells tissues or organs to restore or establish normal function It is an incredibly progressive field of medicine that may in the near future help with the shortage of life saving organs available through donation for transplantation Introduction to Tissue Engineering Applications and Challenges makes tissue engineering more accessible to undergraduate and graduate students alike It provides a systematic and logical eight step process for tissue fabrication Specific chapters have been dedicated to provide in depth principles for many of the supporting and enabling technologies during the tissue fabrication process and include biomaterial development and synthesis bioreactor design and tissue vascularization The tissue fabrication process is further illustrated with specific examples for liver bladder and trachea Section coverage includes an overall introduction of tissue engineering enabling and supporting technologies clinical applications and case studies and future challenges Introduction to Tissue Engineering Presents medical applications of stem cells in tissue engineering Deals with the effects of chemical stimulation growth factors and hormones Covers current disease pathologies and treatment options pacemakers prosthesis Explains bioengineering design and fabrication and critical challenges during tissue fabrication Offers PowerPoint slides for instructors Features case studies and a section on future directions and challenges As pioneering individuals look ahead to the possibility of generating entire organ systems students may turn to this text for a comprehensive understanding and preparation for the future of regenerative medicine

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Multiscale Modeling to Tackle the Complexity of Load-Bearing Organ and Tissue Regulation Jerome Noailly, Stephane Avril, Peter Pivonka, Stefan Scheiner, 2022-03-11 Issues in Life Sciences: Cellular Biology: 2011 Edition ,2012-01-09 Issues in Life Sciences Cellular Biology 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Life Sciences Cellular Biology The editors have built Issues in Life Sciences Cellular Biology 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Life Sciences Cellular Biology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Life Sciences Cellular Biology 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com **Principles of Tissue Engineering** Robert Lanza, Robert Langer, Joseph P. Vacanti, Anthony Atala,2020-03-26 Now in its fifth edition Principles of Tissue Engineering has been the definite resource in the field of tissue engineering for more than a decade The fifth edition provides an update on this rapidly progressing field combining the prerequisites for a general understanding of tissue growth and development the tools and theoretical information needed to design tissues and organs as well as a presentation by the world's experts of what is currently known about each specific organ system As in previous editions this book creates a comprehensive work that strikes a balance among the diversity of subjects that are related to tissue engineering including biology chemistry material science and engineering among others while also emphasizing those research areas that are likely to be of clinical value in the future This edition includes greatly expanded focus on stem cells including induced pluripotent stem iPS cells stem cell niches and blood components from stem cells This research has already produced applications in disease modeling toxicity testing drug development and clinical therapies This up to date coverage of stem cell biology and the application of tissue engineering techniques for food production is complemented by a series of new and updated chapters on recent clinical experience in applying tissue

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