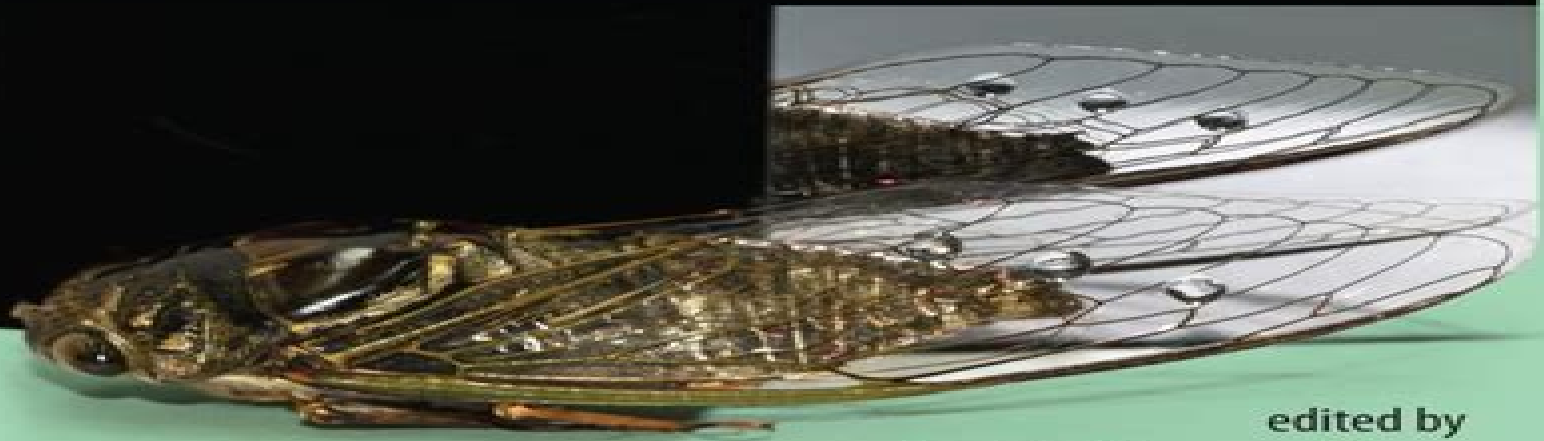




edited by
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Advanced Surfaces for Stem Cell Research Ashutosh Tiwari, Bora Garipcan, Lokman Uzun, 2016-11-29 The book outlines first the importance of Extra Cellular Matrix ECM which is a natural surface for most of cells In the following

chapters the influence of biological chemical mechanical and physical properties of surfaces in micro and nano scale on stem cell behavior are discussed including the mechanotransduction Biomimetic and bioinspired approaches are highlighted for developing microenvironment of several tissues and surface engineering applications are discussed in tissue engineering regenerative medicine and different type of biomaterials in various chapters of the book This book brings together innovative methodologies and strategies adopted in the research and development of Advanced Surfaces in Stem Cell Research Well known worldwide researchers deliberate subjects including Extracellular matrix proteins for stem cell fate The superficial mechanical and physical properties of matrix microenvironment as stem cell fate regulator Effects of mechanotransduction on stem cell behavior Modulation of stem cells behavior through bioactive surfaces Influence of controlled micro and nanoengineered surfaces on stem cell fate Nanostructured polymeric surfaces for stem cells Laser surface modification techniques and stem cells applications Plasma polymer deposition a versatile tool for stem cell research Application of bioreactor concept and modeling techniques in bone regeneration and augmentation treatments Substrates and surfaces for control of pluripotent stem cell fate and function Application of biopolymer based surface modified devices in transplant medicine and tissue engineering Silk as a natural biopolymer for tissue engineering **Active Coatings for Smart**

Textiles Jinlian Hu, 2016-04-06 Active Coatings for Smart Textiles presents the latest information on active materials and their application to textiles in the form of coatings and finishes for the purpose of improving performance and creating active functional effects This important book provides detailed coverage of smart coating types processes and applications After an introduction to the topic Part One introduces various types of smart and active coatings including memory polymer coatings durable and self cleaning coatings and breathable coatings Technologies and related processes for the application of coatings to textiles is the focus of Part Two with chapters devoted to microencapsulation technology plasma surface treatments and nanotechnology based treatments The book ends with a section on applications of smart textiles with responsive coatings which are increasingly finding commercial niches in sportswear protective clothing medical textiles and architecture Introduces various types of smart and active coatings for textiles Covers technologies and application processes for the coating and finishing of textiles Reviews commercial applications of such coatings including in sportswear protective clothing medical textiles and architecture *Encyclopedia of Plasma Technology - Two Volume Set* J. Leon Shohet, 2016-12-12

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