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DESCRIPTION

Biomaterials is an international journal covering the science and clinical application of biomaterials. A biomaterial is now defined as a substance that has been engineered to take a form which, alone or as part of a complex system, is used to direct, by control of interactions with components of living systems, the course of any therapeutic or diagnostic procedure. It is the aim of the journal to provide a peer-reviewed forum for the publication of original papers and authoritative review and opinion papers dealing with the most important issues facing the use of biomaterials in clinical practice. The scope of the journal covers the wide range of physical, biological and chemical sciences that underpin the design of biomaterials and the clinical disciplines in which they are used. These sciences include polymer synthesis and characterization, drug and gene vector design, the biology of the host response, immunology and toxicology and self assembly at the nanoscale. Clinical applications include the therapies of medical technology and regenerative medicine in all clinical disciplines, and diagnostic systems that reply on innovative contrast and sensing agents. The journal is relevant to areas such as cancer diagnosis and therapy, implantable devices, drug delivery systems, gene vectors, bionanotechnology and tissue engineering.

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Medical Device Design and Translation, Cell Therapy, Implant-Centered Infection, Foreign Body
Response, Combination Devices, Surface Capture Diagnostics, Nanotoxicity

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Xiaosong Gu, Nantong University, China

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Vasif Hasirci, Acibadem University, Turkey

Wim Hennink, Utrecht University Department of Pharmaceutical Sciences, Netherlands

Shan-Hui Hsu, National Taiwan University, Taiwan

Biodegradable polyurethane, 3D bioprinting, self-healing hydrogel, tissue engineering scaffolds

John Hunt, Nottingham Trent University, United Kingdom

John’s research focuses on developing breakthrough therapies, devices and technology to repair,
replace, augment and in the future regenerate diseased, infected and damaged tissues in humans and
other mammals using material interventions. Understanding the generic science to deliver
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Dietmar Hutmacher, Queensland University of Technology, Australia

Bone and cartilage tissue engineering

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Hiroo Iwata, Kyoto University, Japan

Wilhelms de Jong, National Institute for Public Health and the Environment, Netherlands

David Kaplan, Tufts University, United States

Kazunori Kataoka, The University of Tokyo, Japan

Polymeric therapeutics, Polymeric micelles, Block copolymers, Gene delivery,Targeting, Hydrogel,
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Yong-Hee Kim, Hanyang University, The Republic of Korea

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Regenerative Engineering, Stem Cell Niche, Limb Regeneration
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Yan Li, Wuhan University, China
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Wei Liu, Shanghai Jiao Tong University - Fahua Campus, China
Ivan Martin, University Hospital Basel, Switzerland
Teruo Okano, Tokyo Women's Medical University Institute of Advanced Biomedical Engineering and Science, Japan

Tissue Engineering Polymers

Richard O.C. Oreffo, University of Southampton Institute of Developmental Science, United Kingdom
Areas of expertise, skeletal stem cells, bone regeneration, biomaterials, osteoarthritis, translation
Hong-wei Ouyang, Zhejiang University Center for Stem Cell and Regenerative Medicine, China
Buddy Ratner, University of Washington Department of Bioengineering, United States
Biomaterials and macrophage response
Rui L. Reis, University of Minho, Portugal
Ugo Ripamonti, University of the Witwatersrand, South Africa
Manuel Salmeron-Sanchez, University of Glasgow Division of Biomedical Engineering, United Kingdom
Areas of expertise: growth factors, extracellular matrix, hydrogels, stem cells, tissue models
Mark W. Saltzman, Yale University, United States
Dror Seliktar, Technion Israel Institute of Technology, Israel
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Areas of expertise, dermal biochemistry, technology translation, human elastic tissue assembly, damage and repair, elastic tissue engineering
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