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Sommario/riassunto

Art and Science in Word and Image investigates the theme of 'riddles of form', exploring how discovery and innovation have functioned inter-dependently between art, literature and the sciences. Using the impact of evolutionary biologist D'Arcy Thompson's *On Growth and Form* on Modernist practices as springboard into the theme, contributors consider engagements with mysteries of natural form in painting, photography, fiction, et cetera, as well as theories about cosmic forces, and other fields of knowledge and enquiry. Hence the collection also deals with topics including cultural inscriptions of gardens and landscapes, deconstructions of received history through word and image artworks and texts, experiments in poetic materiality, graphic re-mediations of classic fiction, and textual transactions with animation and photography. Contributors are: Dina Aleshina, Márcia Arbex, Donna T. Canada Smith, Calum Colvin, Francis Edeline, Philippe Enrico, Étienne Février, Madeline B. Gangnes, Eric T. Haskell, Christina Ionescu, Tim Isherwood, Matthew Jarron, Philippe Kaenel, Judy Kendall, Catherine Lanone, Kristen Nassif, Solange Ribeiro de Oliveira, Eric Robertson, Frances Robertson, Cathy Roche-Liger, David Skilton, Melanie Stengele, Barry Sullivan, Alice Tarbuck, Frederik Van Dam.

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Collana	Tissue Engineering and Regeneration
Disciplina	612.028 571.538
Soggetti	Regenerative medicine Tissue engineering Biomedical materials Biomedical engineering Biomathematics Regenerative Medicine/Tissue Engineering Biomaterials Biomedical Engineering and Bioengineering Biomedical Engineering/Biotechnology Physiological, Cellular and Medical Topics
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Nota di contenuto	Part I: 3D Printing: Introduction -- Medical Imaging, Data Retrieval for 3D CAD Models -- Additive Manufacturing Technologies for Fabrication of Scaffolds -- Materials, Methods and Current Progress of 3D Printing for TE Applications -- Characterization of 3D Printed Structures -- Vascularization of 3D Printed and Engineered Tissues -- Computational Methods for the Predictive Design of Tissue Engineering Materials -- Use of Ceramics in Musculoskeletal Regenerative Medicine -- Mathematical Modelling of 3D Tissue Engineering Constructs -- Trends in Additive Manufacturing for TE Applications. Part II: Biofabrication: Introduction -- Extrusion-based Biofabrication in Tissue Engineering and Regenerative Medicine -- Laser-based Cell Printing -- Inkjet etc. (Piezo, Thermo, Surface Wave) -- Scaffold-free Biofabrication --

Commercially Available Bioprinters -- Development of Nanocellulose Bioinks for 3D Bioprinting of Soft Tissue -- Fabrication and Printing of Multi-Material Hydrogels -- Photopolymerizable Materials for Cell Encapsulation -- Bioprinting - The Intellectual Property Landscape -- Translation and Applications of Biofabrication -- Challenges and Perspectives of Biofabrication -- .

Sommario/riassunto

This volume provides an in-depth introduction to 3D printing and biofabrication and covers the recent advances in additive manufacturing for tissue engineering. The book is divided into two parts, the first part on 3D printing discusses conventional approaches in additive manufacturing aimed at fabrication of structures, which are seeded with cells in a subsequent step. The second part on biofabrication presents processes which integrate living cells into the fabrication process. .
