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Quintessenz Verlags-GmbH
Ifenpfad 2-4
12107 Berlin
Tel.: 030/76180-5
Fax.: 030/76180-692
Web: www.quintessenz.de
E-Mail: buch@quintessenz.de

Buch-Information

Hrsg.: Miron, Richard J. / Zhang, Yufeng

Titel: Next-Generation Biomaterials for Bone & Periodontal Regeneration

Kurztext:

New and innovative biomaterials are being discovered or created in laboratories at an unprecedented rate, but many of them remain entirely foreign to practicing clinicians. This book addresses this gap in knowledge by summarizing some of the groundbreaking research performed to date on this topic and providing case examples of these biomaterials at work. The book begins with a review of the biologic background and applications of bone grafting materials utilized in dentistry. The principles of guided tissue and bone regeneration are covered in detail, including many recent advancements in barrier membrane technologies as well as use of platelet-rich fibrin and various growth factors, and many next-generation materials that will optimize future bone and periodontal regeneration are presented. The final chapter is designed to help clinicians select appropriate biomaterials for each specific regenerative protocol. Much like one implant size and shape cannot be utilized for every indication in implant dentistry, one bone grafting material, barrier membrane, or growth factor cannot maximize regenerative outcomes in all clinical situations. This textbook teaches clinicians how to utilize biomaterials in an appropriate, predictable, and evidence-based manner.

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Contributors

Alexandre-Amir Aalam • Mustafa Abd El Raouf • Sarah Al-Maawi •
Nicole B. Arweiler • Ferdinando D'Avenia • Albert Barroso Panella •
Itzhak Binderman • Mark Bishara • Dieter D. Bosshardt • Michael
Brown • Joost de Bruijn • Jordi Caballé Serrano • Fatiha Chandad •
Joseph Choukroun • David L. Cochran • Michel Dard • James
Deschner • Ferenc Döri • Bruce R. Donoff • Nikos Donos • Mariusz
Duda • Meizi Eliezer • Tobias Fretwurst • Stuart Froum • Masako
Fujioka-Kobayashi • Paul Fugazzotto • Shahram Ghanaati • Howard
Gluckman • Andrea Grassi • Reinhard Gruber • Vincent Guillemette •
Gideon Hallel • Robert Horowitz • Angel Insua • Søren Jepsen •
Adrian Kasaj • George Kay • Ismael Khouly • Alina Krivitsky Aalam •
Gregori Kurtzman • Ye Ling • Staale Petter Lyngstadaas • Richard J.
Miron • Alberto Monje • Toshiaki Nakamura • Kathia Nelson •
Carlos Nemcovsky • Dimitris Nikolidakis • Kazuyuki Noguchi •
Michael A. Pikos • Benjamin Pippenger • Alan Pollack • Giulio
Rasperini • Nikola Saulacic • Patrick R. Schmidlin • Anton Sculean •
Yoshinori Shirakata • Alain Simonpieri • Andreas Stavropoulos •
Jonathan Du Toit • Leonardo Trombelli • Hom-Lay Wang • Yulan
Wang • Hudi Xu • Huipin Yuan • Homayoun H. Zadeh • Xiaoxin
Zhang • Yufeng Zhang • Liwei Zheng • Giovanni Zucchelli

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