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Bio-Implant Interface: Improving Biomaterials And Tissue Reactions



Synopsis

Achieving good clinical outcomes with implanted biomaterials depends upon achieving optimal function, both mechanical and biological, which in turn depends upon integrating advances realized in biological science, material science, and tissue engineering. As these advances push back the frontiers of biomaterial medicine, the control and patterning of bio-implant interface reactions will have a tremendous impact on future design and prospects of implant treatments. *Bio-Implant Interface: Improving Biomaterials and Tissue Reactions* brings together a remarkable panel of scientists to present the state-of-the-art in our understanding of interactions at the interface between biomaterials and living tissue. Much of the focus is on the importance of the implant surface's topography and chemistry to its interaction with the biological environment. Biomineralization along with the biological content of the interface and its role in directing cellular response along desired pathways also receive particular attention. The pursuit of new and better designs for improved biocompatibility and patient response to implants continues to challenge clinicians and scientists alike. This book offers a unique opportunity to bring yourself up-to-date on recent advances in the field and new strategies for controlling the bio-implant interface.

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