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Book information

Authors: William Giannobile / Myron Nevins

Title: Osteology Guidelines for Oral & Maxillofacial Regenerations

Subtitle: Preclinical Models for Translational Research

Short text:

The Osteology Guidelines provide comprehensive guidance when creating protocols for the most prevalent maxillofacial regenerative research so that there will be meaningful outcomes. The overarching purpose of these projects is to be able to translate the results to clinical investigation and eventually determine the safety and efficacy of new biologics for the benefit of patients.

This book includes a distinguished coterie of contributors experienced in the initiation of or participation in preclinical trials. The chapters are constructed to help create workable protocols and avoid common early career errors. The goals are to help select the appropriate animal models and corresponding experimental designs to enable the next steps toward human investigation. The chapters also contain comprehensive information on microscopic and other imaging technologies necessary to gain the maximum information from preclinical investigations.

The topics covered include soft and hard tissue research as well as osseointegrated implants. The bone repair section covers topics ranging from periodontal regeneration to procedures that correct localized edentulous ridge procedures for the purpose of placing dental implants. Furthermore, sections on ridge preservation, horizontal and vertical ridge expansion, as well as augmentation of the sinus floor are presented. The biomaterials used for these regenerative efforts include osteoconductive products as well as the introduction of tissue engineering.

Each section provides illustrations with details relevant to decisions of the research team. This book is a valuable addition to any dental library and is an essential reference for both undergraduate and graduate scholars as well as researchers in all disciplines of dentistry.

Categories: Oral/Maxillofacial Surgery, Oral Surgery