

OSTEOLOGY GUIDELINES FOR ORAL AND MAXILLOFACIAL REGENERATION – PRECLINICAL MODELS FOR TRANSLATIONAL RESEARCH

The first book published on behalf of the Osteology Foundation is a valuable reference for scientists and clinicians wishing to conduct targeted applied research.

The editors, Prof. William V. Giannobile and Prof. Myron Nevins, recruited experienced researchers to cover the key aspects of preclinical and translational research of relevance to dental medicine.

This book provides tools for implementing effective research strategies and conducting high-impact, practice-oriented, preclinical research.

What is the aim of the book?

The aim of the Osteology Research Guidelines Book is to provide young researchers at the beginning of their career with high quality guidelines to conduct preclinical animal research. At the same time, the book is intended to serve as a valuable reference for scientists, who wish to build on the experience of people with a track record in preclinical and translational research.

Who is the target Group?

The target group of the present book are young researchers starting their first independent research activities (e.g. Osteology Grant applicants) and scientists and clinicians who wish to build on the experience of people with a track record in preclinical and translational research.

Which topics are covered in the book?

The general part the book covers basic aspects of animal research including phylogenetics and physiology, aspects of ethical and regulatory issues and deals with study design and methods of numeric analysis.

The second part of the book reflects many topics of research in the field of tissue regeneration in the oral and maxillofacial area:

- Experimental designs to study bone regeneration in different clinical situations.
- Guidelines are provided on how to proceed in designing experiments in the rather novel area of oral soft tissue regeneration as well as in the thoroughly studied field of periodontal regeneration.
- Methods are described for exploring integration and disintegration of implants.
- Recommendations are provided with respect to screening models for questions regarding materials and mechanisms of tissue engineering.
- In all these topics various experimental designs are described and qualified assessments are provided regarding advantages and disadvantages of specific design possibilities.

For more information and readings, visit the Osteology Foundation homepage - <http://www.osteology.org/de/research-guidelines.html>

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