

## Curriculum Vitae

### Reinhold G. Erben, MD, DVM

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#### Education and Appointments

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- 2009 - present: Full Professor of Physiology and Pathophysiology and Head of the Institute of Physiology, Pathophysiology, and Biophysics, Department of Biomedical Sciences, University of Veterinary Medicine, Vienna, Austria
- 2006 - 2009: Full Professor of Pathophysiology and Head of the Institute of Pathophysiology, Department of Biomedical Sciences, University of Veterinary Medicine, Vienna, Austria
- 2004 - 2006: Guest Professor of Pathophysiology and Head of the Institute of Pathophysiology, Department of Natural Sciences, University of Veterinary Medicine, Vienna, Austria
- March 1998: M.D., Ludwig Maximilians University, Munich  
Thesis: "Skeletal effects of low dose cyclosporin A in the rat. Histomorphometric and biochemical studies" (Magna cum laude)
- 1998 - 2006: Associate Professor of Physiology, Veterinary Faculty, Ludwig Maximilians University, Munich
- 1994 - 1998: Scientific Assistant, Leader of Bone Biology Research Group, Institute of Physiology, Physiological Chemistry and Animal Nutrition, Ludwig Maximilians University, Munich
- 1992 - 1993: Scientific Fellow, Institute of Physiology, Physiological Chemistry and Animal Nutrition, Ludwig Maximilians University, Munich
- 1992: Internship First Veterinary Clinic, Ludwig Maximilians University, Munich
- 1990 - 1991: Studies in Human Medicine at the Ludwig Maximilians University, Munich: Practical Year, Medical Centers in Augsburg and Munich-Großhadern (Anesthesia, Internal Medicine, Surgery)
- July 1990: D.V.M., Ludwig Maximilians University, Munich  
Thesis: "Histomorphometric studies on the influence of ovariectomy on the skeleton of the rat and prophylactic effects of vitamin D metabolites. Parallels to postmenopausal osteoporosis" (Summa cum laude)
- 1986 - 1989: Studies in Human and Veterinary Medicine (in parallel), Ludwig Maximilians University, Munich
- 1984 - 1986: Studies in Veterinary Medicine, Ludwig Maximilians University, Munich
- 1982 - 1984: Studies in Human Medicine, Ludwig Maximilians University, Munich

#### Research Interests

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My current research interests are focused on the skeletal effects of sex steroids, the pathophysiology of sex steroid deficiency-induced bone loss, the molecular endocrinology of vitamin D metabolism, the molecular endocrinology of phosphate homeostasis, the development of animal models for cells tracking, as well as on cartilage and bone regeneration.

## **Selected Honors and Awards (5 most recent)**

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| 2012 - 2013     | Chair of the European Science Foundation Research Networking Programme "Regenerative Medicine (REMEDIc)"                                |
| 2010 - present: | Member of the Advisory Board of the Center for Regenerative Medicine of the Technical University in Dresden (CRTD), Germany             |
| 2006 - 2009:    | President of the International Society of Bone Morphometry  |
| 2005 – present: | Board member of the Austrian Science Fund   |
| 2005 - 2006:    | Speaker of the Research Training Group 'Functional genome research in Veterinary Medicine' at the Ludwig Maximilians University, Munich |

## **Patents (list from Espacenet)**

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Inventor of patent no. WO2011042181; owned by University of Veterinary Medicine, Vienna, Austria  
Inventor of patent no. WO2008017451; owned by University of Veterinary Medicine, Vienna, Austria  
Inventor of patent no. US2008104720; owned by University of Veterinary Medicine, Vienna, Austria  
Inventor of patent no. ES2251374; owned by Schering AG, Berlin, Germany

## **Peer Review Panels/Editorial Boards**

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During my career, I have performed peer reviews for over 45 different journals. During the last years, I have peer reviewed for: American Journal of Physiology, Bone, Journal of Bone and Mineral Research, Calcified Tissue International, Cell Transplantation, Diabetologia, Endocrinology, European Journal of Endocrinology, Journal of Applied Physiology, Journal of Cellular and Molecular Medicine, Journal of Clinical Endocrinology and Metabolism, Journal of Clinical Investigation, Journal of Molecular and Cellular Cardiology, Journal of Nutrition, Journal of Nutritional Biochemistry, Journal of Veterinary Medicine, Osteoporosis International, Pflueger's Archive, Stem Cells, Tissue Engineering

Grant evaluations for 5 international organizations in Germany, UK, Belgium, Israel, and Australia.

Editorial board member of The Open Bone Journal, Regenerative Medicine Research

## **Professional Societies**

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Member, American Society of Bone and Mineral Research  
Member, International Bone and Mineral Society  
Member, International Society of Bone Morphometry  
Member, European Calcified Tissue Society  
Founding Member, International Veterinary Regenerative Medicine Society

## **Publications/Supervised Thesis Works**

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107 peer-reviewed publications, 8 review articles, 6 book chapters, 45 invited lectures or seminars (20 abroad), h-index 31 (Google Scholar), 38 already supervised D.V.M., M.D., and Ph.D. thesis works.

**Research support last 5 years, role Principal Investigator (5 most important)**

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|-------------|---|---------------------------------------|
| 2011 - 2014 | Vitamin D independent functions of FGF23 and Klotho   | Austrian Science Fund FWF P24186-B21  |
| 2011 - 2014 | The functional role of the EGFR/ErbB system for bone development and homeostasis  | Austrian Science Fund FWF I 764-B13   |
| 2010 - 2015 | Role of mesenchymal stem cells in osteoarthritis therapy  | Austrian Science Fund FWF P 21903-B13 |
| 2010 - 2014 | Selective inhibition of mesenchymal and hematopoietic RANKL   | Austrian Science Fund FWF P 21904-B11 |
| 2010 - 2014 | Investigation of skeletal effects and bone mass accrual in rats treated with different estradiol and dihydrotestosterone regimens | Bayer-Schering, Germany               |