

# Curriculum Vitae

## Markus Ritter

Univ. Prof. Dr. med. univ.

**Date of birth** 15.04.1961

**Language** German (native), English (fluent, EU competence level C2)

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## Academic Career and Achievements

### Current Positions

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- **Professor of Physiology and Director of the Institute of Physiology and Pathophysiology, Paracelsus Medical University**, Salzburg, Austria (<http://www.pmu.ac.at/physiologie.html>)
- Coordinator Center for Physiology, Pathophysiology and Biophysics Salzburg/Austria and Nuremberg/Germany, Paracelsus Medical University
- **Director Gastein Research Institute, Salzburg/Bad Gastein, Austria** (<http://www.pmu.ac.at/forschungsinstitutgastein.html>)
- **Visiting Professor at Kathmandu University School of Medical Sciences, Nepal**
- **Principal Investigator**, Ludwig Boltzmann Institute for Arthritis and Rehabilitation, Salzburg, Austria (<https://crbr.lbg.ac.at/>)
- **Past President Austrian Physiological Society** (<http://physiologie.at/>)

### Education | Academic Appointments | Positions

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A-levels certificate/Matura (1979) | **Medical Studies**, University of Innsbruck, Austria (1979 – 1987) | **Tutor/Research Assistant** at Institute of Physiology and Balneology, University of Innsbruck (1982 – 1987) | Graduation **Doctor of Medicine/Dr. med. univ.** (1987) | **University Assistant** at Institute of Physiology and Balneology, University of Innsbruck (1987 – 1993) | **Habilitation/University Dozent** in Medical Physiology and **Medical Specialist Physiology** (1993) | **Assistant Doctor** at University Hospital for Internal Medicine, University of Innsbruck (1992 – 1998) | **Medical Specialist Internal Medicine** (1998) | **Associate Professor** Institute of Physiology and Balneology, University of Innsbruck (1998 – 2004) | **Deputy Director** Institute of Physiology and Balneology, University of Innsbruck (2002 – 2004) | **Professor of Physiology and Director Institute of Physiology and Pathophysiology**, Paracelsus Medical University (since 2004) | **Director Gastein Research Institute** (since 2006) | **Dean of Research** at Paracelsus Medical University (2007-2009) | **President** (2007 – 2012 & 2019-2021) and Vice-President (2015-2019) **Austrian Physiological Society** | **Chairman of Partner Board of Ludwig Boltzmann Institute for Arthritis und Rehabilitation** (2016-2021), **Principal Investigator** (since 2022) Ludwig Boltzmann Institute (formerly Cluster) for Arthritis and Rehabilitation (since 2015) | **Coordinator Center for Physiology, Pathophysiology and Biophysics Salzburg/Austria and Nuremberg/Germany**, Paracelsus Medical University (since 2021)

### Research Stays | Guest Professorships

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**University of Tübingen**, Institute of Physiology, Germany (1994) | **University of Milan**, Department of Physiology and Biochemistry, Italy (2001) | **University of Milan - Sokrates-Erasmus-Lecturer**, Department of Biomolecular Sciences and Biotechnology, Italy (2002) | **Slovak Academy of Sciences**, Bratislava, Slovakia (2003) | **University of Cambridge**, Department of Pharmacology, United Kingdom (2004) | **Kathmandu University School of Medical Sciences**, Nepal (2010, 2014, 2016)

### Memberships

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Austrian Physiological Society | German Physiological Society | American Physiological Society | Austrian Society of Rheumatology and Rehabilitation

## Committees | Cooperations | Coordinations | Teaching

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>50 **invited talks** at scientific conferences | **Reviewer** and member of **Scientific Advisory Committees** of about 15 International Journals and Scientific Boards | Scientific cooperation with over 30 **international partners** | **Supervisor** of more than 50 doctoral students, graduates/PostDocs and guest scientists | Organization of national and **international scientific symposia and congresses** - Organization and implementation of **Teaching in Physiology and Pathophysiology** at the Paracelsus Medical University | Core Member of the **MBBS Curriculum Review Committee** of the **Kathmandu University School of Medical Sciences**, Nepal | Local **Coordinator** of **Eurasia Pacific Uninet** Programs at Paracelsus Medical University including student exchange program with Chinese Medical Universities (Beijing/Tongji/Fudan/Hong Kong University) and ANMMEC/Austrian-Nepali Mutual Medical Education Cooperation and of the academic cooperation/exchange program of Paracelsus Medical University and Kathmandu University of Medical Sciences, Nepal

## Research Focus

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- Mechanisms and Functional Impact of Cell Volume Regulation
- Regulation by Ion Transport Mechanisms: H-Ras Oncogene-induced Cell Proliferation and Pinocytosis; Apoptosis; Phagocytosis; Cell Migration
- Molecular and/or Functional Characterization of Cell Volume- and Acid-regulated Ion Transporters; non-gastric H<sup>+</sup>/K<sup>+</sup>-ATPase
- Arthritis and Chondrocyte Research
- Balneotherapy, Speleotherapy

## Editorial Boards

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- **Editor-in Chief** Paracelsus Proceedings of Experimental Medicine (PPEXMed) | **Associate Editor** Frontiers in Cell and Developmental Biology | **Editorial Board** Cellular Physiology and Biochemistry; International Journal of Molecular Sciences, Section 'Molecular Pathology, Diagnostics, and Therapeutics'; Southeastern European Medical Journal (SEEMEDJ) | **Guest Editor** Frontiers in Cell and Developmental Biology; Cellular Physiology and Biochemistry, International Journal of Molecular Sciences

## Awards

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Award of the Medical Association of Tyrol (author; 1991) | Award of Franz Volhard Prize/German Society of Nephrology (coauthor; 1991) | Award Austrian Society of Nephrology (coauthor; 1991) | Austrian Society for Internal Medicine (poster/author) | Award PMU Teacher of the Year (2006) | Award for Excellence in Teaching (2007)

## Publications

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- Author/Coauthor of over 250 Articles, Papers, Reviews and Proceedings (>4800 citations, h-index 30; List of Publications at <https://sqquid.pmu.ac.at/fis/suchen.startseite> – searchfield "Personen" – search term "Ritter" - select "Ritter Markus, Universitätsinstitut für Physiologie und Pathophysiologie")
  - ORCID: 0000-0001-7346-7750
  - Textbook author (ISBN: 978-3642399398, 978-3-437-41319-3, 978-3-437-16853-6)
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