

Curriculum Vitae & Major Scientific Achievements



1. Personal Information

Niklaus F. Friederich, MD, Prof. Dr. med (University of Basel)

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2. Education

- 1975 – 1981 Medical School University of Bern; Swiss Federal Licence exam: 1981 ECFMG:1982
- Dec 9, 1985 Dr. med. (Univ. of Bern) Thesis: “Diffuse idiopathic skeletal hyperostosis - DISH in shoulder“
- Dec 11, 1991 Board certified Orthopaedic Surgeon FMH (Switzerland)
- Oct 16, 1997 Venia docendi University of Basel: Privatdozent für Orthopädische Biomechanik
- Oct 30, 2003 Professor of Orthopaedic Surgery: University of Basel

3. Professional Experience (since 1985)

- 1985-1986 Fellowship in Bone Radiology (UTHSC San Antonio, Texas and UCSD San Diego, USA)
- 1987-1987 Fellowship Orthopaedic Sports Medicine, O&A Hospital Toronto, Canada
- 1990-1997 (Junior and senior) Staff positions in Orthopaedic Surgery at University Hospital Basel, University Children's Hospital Basel and Kantonsspital Bruderholz, Switzerland
- 4/1998-3/2013 Head of Department of Orthopaedic Surgery, Kantonsspital Bruderholz, Switzerland
- 1/2010 – ongoing Head, Center of Biomechanics and Biocalorimetry, Dept. Biomedical Engineering, University of Basel, Switzerland
- 4/2013-6/2015 Senior consultant and dpartner, Orthoklinik Dornach, Switzerland
- 7/2015- ongoing Senior consultant, Dept. Orthopaedics & Traumatology, University Hospital Basel, Switzerland
- 10/2019-12/2019 Visiting Professor in Orthopaedic Surgery, Dept. Surgery, Div. Orthopaedic Surgery, University of Toronto, Canada

4. Institutional Responsibilities (selected)

2001-2002: Medical Director Kantonsspital Bruderholz/2006-2012: Member Fakultätsleitung University of Basel/2011- ongoing: Member advisory board honorary doctorates/2015 – ongoing: Member advisory board University Library Basel.

5. Approved research projects (selected)

- Hans-Heiner Zaeslin Trust (2010-2020): Grant DMB2003 1100k CHF
- SNF (1998): "The contact area and the pressure distribution: An in vitro study with collagen meniscus implants" 59k CHF
- KTI (2005): Kombinierte Ultraschall- und Fotogrammetrierferenzierung Hüft-TP 88k CHF
- Deutsche Arthroshilfe (2003-2005): Testmethoden Knorpel, Knorpelkonstrukte EURO 92k CHF
- Gesellschaft für Gelenkchirurgie und Arthroskopie (2007): Knorpelrekonstruktion Talus 75k EURO
- Deutsche Arthroshilfe (2009): Klinische Bedeutung SPECT-CT 160k EURO

