

# Curriculum vitae

## Frank W. Roemer, M.D.

### Current post:

**Since 07/2015-ongoing:** Section Chief Musculoskeletal Research, Attending Radiologist, Professor of Radiology, Department of Radiology, Friedrich-Alexander University Erlangen-Nürnberg (FAU), Erlangen, Germany

**Since 01/2019- ongoing:** Adjunct Professor of Radiology, Boston University School of Medicine (BUSM), Boston, MA, USA

**01/2013-09/2015:** Attending Radiologist, Department of Radiology, Klinikum Augsburg, Germany

**09/2007-12/2018:** Adjunct Associate Professor of Radiology, Department of Radiology, Boston University School of Medicine; Co-Director Quantitative Imaging Center (QIC), Boston University

**09/2008-12/2012:** Section Chief MRI, Department of Radiology, Klinikum Augsburg, Germany

**09/2007-08/2008:** Research Scholarship as Associate Professor in Research at the Department of Radiology, Boston University, Boston, MA

**06/2007-08/2007:** Assistant Professor and Attending Radiologist at the Department of Radiology ("Oberarzt"), Klinikum Augsburg, Germany

**7/2006-5/2007:** Head of the Department-associated "Private Practice for Musculo-Skeletal MRI" Ulmer Str. 315, 86193 Stadtbergen, Germany

**12/2003-6/2006:** Assistant Professor at the Department of Radiology ("Funktionsoberarzt"), Klinikum Augsburg, Germany

**11/2002-11/2003:** Post-doctoral Research Fellowship at the Department of Radiology, University of California at San Francisco, Osteoporosis and Arthritis Research Group (OARG)

### Medical Training:

**10/2002:** German Board Examination Radiology ("Facharzt für Diagnostische Radiologie")

### **3/1998 – 10/2002**

Residency Training in Radiology at the Department of Diagnostic Radiology and Neuroradiology at the Klinikum Augsburg, K. Bohndorf

### **9/1996 – 3/1998**

"Arzt im Praktikum" (Internship) at the 3<sup>rd</sup> Medical Department (Diabetology/ Endocrinology/ Ultrasonography, E. Standl) Krankenhaus Munich-Schwabing (Teaching hospital of the Ludwigs – Maximilians - University, Munich).

### Bibliometrics:

Publications: (Peer-Reviewed listed in PubMed): 364

Citations: 11019 (Scopus 08.02.2021)

Podium presentations at scientific conferences: 233

Poster presentations at scientific conferences: 305

Books and Book Chapters: 16

H-Index: 57

### 10 Core publications 2018-2021

Complete List of Published Work in My Bibliography:

<http://www.ncbi.nlm.nih.gov/pubmed/?term=roemer+f>

- **Roemer FW**, Kwok CK, Fujii T, Hannon MJ, Boudreau RM, Hunter DJ, Eckstein F, John MR, Guermazi A. From early radiographic knee osteoarthritis to joint arthroplasty: Determinants of structural progression and symptoms. *Arthritis Care Res (Hoboken)*. 2018 Dec;70(12):1778-1786. doi: 10.1002/acr.23545.
- Heiss R, Guermazi A, Jarraya M, Engebretsen L, **Roemer FW**. The epidemiology of MRI-detected pelvic injuries in athletes in the Rio de Janeiro 2016 Summer Olympics. *Eur J Radiol*. 2018;105:56-64. doi: 10.1016/j.ejrad.2018.05.029.

- **Roemer FW**, Englund M, Turkiewicz A, Struglics A, Guermazi A, Stefan Lohmander L, Larsson S, Frobell R. Molecular and structural biomarkers of inflammation at 2 years after acute anterior cruciate ligament injury do not predict structural knee osteoarthritis at 5 years. *Arthritis Rheumatol.* 2019;71(2):238-243. doi: 10.1002/art.40687. Epub 2018 Dec 4.
- Crema MD, Krivokapic B, Guermazi A, Grailovic P, Popovic N, D'Hooghe P, **Roemer FW**. MRI of ankle sprain: the association between joint effusion and structural injury severity in a large cohort of athletes. *Eur Radiol.* 2019;29(11):6336-6344. doi: 10.1007/s00330-019-06156-1.
- **Roemer FW**, Collins J, Kwok CK, Hannon MJ, Neogi T, Felson DT, Hunter DJ, Lynch JA, Guermazi A. MRI-based screening for structural definition of eligibility in clinical DMOAD trials: Rapid OsteoArthritis MRI Eligibility Score (ROAMES). *Osteoarthritis Cartilage.* 2020;28(1):71-81. doi: 10.1016/j.joca.2019.08.005.
- Treutlein C, Bäuerle T, Nagel AM, Guermazi A, Kleyer A, Simon D, Schett G, Hepp T, Uder M, **Roemer FW**. Comprehensive assessment of knee joint synovitis at 7 T MRI using contrast-enhanced and non-enhanced sequences. *BMC Musculoskelet Disord.* 2020 Feb 21;21(1):116. doi: 10.1186/s12891-020-3122-y.
- **Roemer FW**, Eckstein F, Duda G, Guermazi A, Maschek S, Sharma L, Wirth W. Is Lamellar Cartilage Composition as Determined by T2 Relaxometry Associated with Incident and Worsening of Cartilage or Bone Marrow Abnormalities? *Cartilage.* 2020 Jun 12:1947603520932197. doi: 10.1177/1947603520932197. Online ahead of print.
- **Roemer FW**, Demehri S, Omoumi P, Link TM, Kijowski R, Saarakkala S, Crema MD, Guermazi A. State of the Art: Imaging of Osteoarthritis – Revisited 2020. *Radiology.* 2020;296(1):5-21. doi: 10.1148/radiol.2020192498.
- **Roemer FW**, Kraines J, Aydemir A, Wax S, Hochberg MC, Crema MD, Guermazi A. Evaluating the structural effects of intra-articular sprifermin on cartilage and non-cartilaginous tissue alterations, based on sqMRI assessment over 2 years. *Osteoarthritis Cartilage.* 2020;28(9):1229-1234. doi: 10.1016/j.joca.2020.05.015.
- Guermazi A, Neogi T, Katz JN, Kwok CK, Conaghan PG, Felson DT, **Roemer FW**. Intra-articular Corticosteroid Injections for the Treatment of Hip and Knee Osteoarthritis-related Pain: Considerations and Controversies with a Focus on Imaging- *Radiology Scientific Expert Panel.* *Radiology.* 2020;297(3):503-512. doi: 10.1148/radiol.2020200771.

#### Awards:

2001	Award of Excellence with Distinction by the Federal Ministry of Health of Germany for Quality Assurance Improvement in Hospitals
2008	Scientific Exhibit Award: 94th Scientific Assembly & Annual meeting of the RSNA, Chicago
2010	Recipient of the Gold Medal for scientific activities of the Bavarian Roentgen Society in 2010
2010	First Prize of the Dr. Wolfbauer Stiftung Donauwörth for Scientific Excellence
2010	Scientific Exhibit Award: 94th Scientific Assembly & Annual meeting of the RSNA, Chicago
2011	Scientific Exhibit Award: 97th Scientific Assembly & Annual meeting of the RSNA, Chicago
2013	EULAR Abstract award for best scientific presentation at the European League Against Rheumatism Annual Assembly 2013
2014	Best Rated Paper Award International Workshop on Osteoarthritis Imaging, Reykjavik, Iceland
2014	Scientific Exhibit Award: 100th Scientific Assembly & Annual meeting of the RSNA, Chicago
2014	Editor's Recognition Award for reviewing with Special Distinction – Radiology – Radiologic Society of North America
2015	On-site Best Scientific Paper Presentation Award European Congress of Radiology – ECR
2016-2020	Editor's Recognition Award for reviewing with Special Distinction – Radiology – Radiologic Society of North America

#### Other:

- Member of the German Society of Radiology (DRG) since 1998
- Member of the European Society of Radiology (ESR) since 2001
- Member of the Radiologic Society of North America (RSNA) since 2008
- Member of the European Society of Musculo-Skeletal Radiology (ESSR) since 2002
- Member of the Osteoarthritis Research Society International (OARSI) since 2007
- Member of the International Skeletal Society (ISS) since 2008
- Member of the International Cartilage Repair Society (ICRS) since 2013
- Founding Member of the German Society of Musculo-Skeletal Radiology 2014
- Founding Member of the International Society of Osteoarthritis Imaging (ISOAI) 2019
- Board Member ISOAI

Scientific collaborations with UCSF San Francisco, Massachusetts General Hospital, Harvard University, Boston, MA, University of Sydney, Australia, University of Arizona, Oulo University, Finland, Lund University Sweden, Paracelsus University Salzburg, Austria, Northwestern University, Chicago