

Prof. Dr. Fabian Kiessling

Department: Molecular Diagnostics: Medical Physics in Radiology

CV:

FABIAN KIESSLING

Prof. Dr. med.

Personal

Date of birth: August 8, 1972

Academic Education and Appointments

1993 – 2000

Study of Medicine: Heidelberg University

2001

MD Degree: Heidelberg University, Internal Medicine III (Dr. med.; magna cum laude)

2001 – 2007

Internships:

- Radiology: German Cancer Research Center (DKFZ) Heidelberg
- Oncology and Radiology: Thoraxklinik Heidelberg
- Gynecological and Diagnostic Radiology: Heidelberg University

2006

State Doctorate (Habilitation): Experimental Radiology: Heidelberg University

2003 – 2006

Head of Molecular Diagnostics: Medical Physics in Radiology, DKFZ

2007

Board Certification: Diagnostic Radiology

2006 – 2008

Junior Group Leader for Molecular Imaging, DKFZ

2008

- Full Professor and Chair: Experimental Molecular Imaging, ExMI (W3): RWTH – Aachen University
- Foundation: InvivoContrast GmbH (with Prof. Dr. Matthias Bräutigam)

2018

10% affiliation to the Fraunhofer MEVIS Institute as coordinator of the Digital Information Technology Group in Aachen

Memberships and Duties (selection)

- Chairman of the “Molecular Imaging Subcommittee”, European Society for Radiology (ESR)
- Founding Member: European Society for Molecular and Functional imaging in Radiology
- Council member and treasurer of the European Society for Molecular Imaging (ESMI)
- Program chair for the “European Molecular Imaging Meeting (EMIM)” 2014
- Program chair of the World Molecular Imaging Congress 2016 (WMIS)
- Board of Trustees of the World Molecular Imaging Society
- Member of the nomination committee for the “Margulis Award for Scientific Excellence” of the RSNA

Editorial Boards (selection)

- Radiology
- European Radiology
- American Journal of Nuclear Medicine and Molecular Imaging
- Nanotheranostics

Publications

(This is not a complete list of publications, but only a selection of the major ones.)

Opacic T., Dencks S., Theek B., Piepenbrock M., Ackermann D., Rix A., Lammers A., Stickeler E., Delorme S., Schmitz G., Kiessling F. Motion Model Ultrasound Localization Microscopy for Preclinical and Clinical Multiparametric Tumor Characterization. Nat Commun, 9:1527

Tsvetkova Y., Beztsinna N., Baues M., Klein D., Rix A., Golombek S., Al Rawashdeh W., Gremse F., Barz M., Koynov K., Banala S., Lederle W., Lammers T., Kiessling F. Balancing Passive and Active Targeting to Different Tumor Compartments Using Riboflavin-functionalized Polymeric Nanocarriers. *Nano Lett*, 17:4665-4674

Lammers T., Koczera P., Fokong S., Gremse F., Ehling J., Vogt M., Pich A., Storm G., van Zandvoort M., Kiessling F. Theranostic USPIO-loaded microbubbles for mediating and monitoring blood-brain barrier permeation. *Adv Funct Mater*, 25:36-43

Zhang C., Jugold M., Woenne E.C., Lammers T., Morgenstern B., Mueller M.M., Zentgraf H., Bock M., Eisenhut M., Semmler W., Kiessling F. Specific targeting of tumor angiogenesis by RGD-conjugated USPIO using a clinical 1.5 T MR-scanner. *Cancer Res*, 67:1555-1562

Kiessling F., Greschus S., Lichy M.P., Bock M., Fink C., Vosseler S., Moll J., Mueller M.M., Fusenig N.E., Traupe H., Semmler W. Volumetric Computed Tomography (VCT): A novel technology for non-invasive high resolution monitoring of tumor angiogenesis. *Nature Med*, 10:1133-1138

Awards

2006

Dr. Emil-Salzer-Prize for Cancer Research

2006

Richtzenhain-Prize

2008

Radiology Editor's Recognition Award

2009

Radiology Editor's Recognition Award