

## Curriculum vitae

**Name:** Professor Dr. Fabian Kiessling

**Address:** Weissshausstrasse 33  
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[www.molecular-imaging.ukaachen.de](http://www.molecular-imaging.ukaachen.de)  
[http://de.wikipedia.org/wiki/Fabian\\_Kießling](http://de.wikipedia.org/wiki/Fabian_Kießling)

**Birthday and -place:** 16.08.72, Mannheim

**Family status:** married, three children

**Nationality:** German

**Education:**

1979 – 1983	Primary school
1983 – 1992	Comprehensive secondary school
19.5.1992	General qualification for university entrance

**Civilian service:**

1992-1993	Arbeiter-Samariter-Bund Heidelberg
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**Professional training:**

1993-2000	Study of Medicine at the Heidelberg University
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**Graduation:**

11.2.2001	At the University-Hospital Heidelberg, Department of Internal Medicine III; Title: ECV 304: Eine polare humane Endothelzelllinie? Score: Magna cum laude
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**State doctorate (Habilitation):**

14.6.2006 University Heidelberg; Discipline: Experimental Radiology;  
Title: Nichtinvasive Bildgebung der Tumorangiogenese und  
Verfolgung ihrer Inhibition im Kleintier.

**Occupational career:**

01.1.01-31.6.02 First year resident at the Department of Oncological Diagnostic  
and Therapy, German Cancer Research Center (DKFZ)

01.7.02-31.12.02 Intern at the Department of Oncological Diagnostic and  
Therapy, German Cancer Research Center (DKFZ)

01.1.03-31.12.03 Intern at the Thoraxklinik Heidelberg, Department of  
Oncological Medicine (part of the professional training)

01.4.03-31.5.06 Head of the group “Molecular Diagnostics”, Department of  
Biophysics and Medical Radiation Physics, German Cancer  
Research Center (DKFZ)

01.1.04-31.8.04 Intern at the Thoraxklinik Heidelberg, Department of Radiology  
(part of the professional training)

01.9.04-31.12.04 Intern at the Department of Gynaecological Radiology,  
Heidelberg University

01.1.05-31.12.06 Intern at the Department of Diagnostic Radiology, Heidelberg  
University

11.6.2007 Board certification as a specialist in radiology

01.6.2006-30.4.08 Head of the Junior Group Molecular Imaging

**01.5.08- Director of the “Institute for Experimental Molecular  
Imaging”, RWTH, Aachen**

5.11.08 Foundation of the „InvivoContrast GmbH“ by Matthias  
Braeutigam and Fabian Kiessling

**01.01.09- Scientific Manager of the „InvivoContrast GmbH“**

**01.03.15- Consultant of Bracco S.p.A.**

**Awards:**

- 2002 First poster prize, 26. Dreiländertreffen, Basel, Schweiz  
Krix M, Kiessling F, Heilmann M, Vosseler S, Farhan N, Kleinschmidt K, Fusenig NE, Delorme S. Vergleich von Perfusionsparametern aus dynamischer MRT und intermittierender Sonographie. *Ultraschall Med* 2002, S1-S82: 41
- 2003 Best presentation in the session “Contrast Media”, European Congress of Radiology (ECR), Wien, Austria  
Kiessling F, Krix M, Heilmann M, Vosseler S, Lichy M, Farhan N, Kleinschmidt K, Fusenig NE, Delorme S. Comparing dynamic parameters of tumor vascularisation in nude mice revealed by MRI and intermittent power Doppler sonography. *Eur Radiol* 2003; 13 (Suppl. 1): 235
- 2003 „Certificate of Merit“ at the “European Congress of Radiology (ECR)”, Wien, Austria  
Kiessling F, Huber P, Grobholz R, Heilmann M, Meding J, Lichy M, Krix M, Peschke P, Schlemmer H-P. Dynamic MR-Tomography and Proton MR Spectroscopy of orthotopic grown prostate cancers in rats treated by radiotherapy. *Eur Radiol* 13 (Suppl. 1): 451
- 2003 „Certificate of Appreciation“ for the following poster at the “European Congress of Radiology (ECR)”, Wien, Austria  
Fink C, Bock M, Kiessling F, Lichy MP, Krissak R, Zuna I, Schmähel A, Delorme S. Comparison of 1.0 M gadobutrol versus 0.5 M gadopentate dimeglumine (Gd-DTPA) for time-resolved pulmonary MR-angiography. *Eur Radiol* 13 (Suppl 1): 439
- 2004 „Certificate of Merit“ for the following poster at the “European Congress of Radiology (ECR)”, Wien, Austria  
Kiessling F, Le-Huu M, Kunert T, Thorn S, Vosseler S, Schmidt K, Semmler W, Meinzer HP, Fusenig N. Quantitative 3D-reslicing essentially improves comparison of histological images with radiological data. *Eur Radiol* 14 (Suppl 2): 425
- 2005 „Certificate of Merit“ for the following poster at the “European Congress of Radiology (ECR)”, Wien, Austria  
Kiessling F, Dittrich, J, Moehler T, Le-Huu M, Bock M, Schulz R, Peter J, Mueller M, Semmler W (2005). Human progenitor cells migrate into squamous cell carcinoma (SCC) xenografts. *Eur Radiol* 15 (Suppl 1): 436

- 2006 „Magna Cum Laude“ for the following poster at the 87. German X-ray congress, Berlin, Deutschland  
Zhang C, Zentrgraf H, Eisenhut M, Mueller M, Jugold M, Semmler W, Kiessling F (2006). Herstellung und Erprobung ultrakleiner superparamagnetischer Eisenoxid-Partikel (USPIO) mit spezifischer Bindung an alpha-v-beta3-Integrine auf Endothelzellen. *Röfo* 178(Suppl 1): 322
- 2006 Awarded as “Junior group leader” of the Helmholtz society
- 2006 Dr. Emil-Salzer-Award for Cancer Research
- 2006 Richtzenhain-Award
- 2008 Best Contribution in the category “Molecular Imaging”, European Congress of Radiology (ECR), Wien, Austria  
Palmowski M, Huppert J, Ladewig G, Hauff P, Reinhardt M, Mueller MM, Maurer M, Semmler W, Kiessling F. Molecular profiling of tumor neovascularisation by multi-target molecular ultrasound imaging. *European Radiology* 18 (Suppl. 1): 148.
- 2008 Young Investigator Award for Stefan Zwick at the International OncoRay Workshop (Molekulare Bildgebung 08), 19.-21.6.08, Dresden  
Zwick S, Woenne EC, Strecker R, Hengerer A, Taupitz M, Schnorr J, Mueller M, Semmler W, Kiessling F. Combined use of DCE-MRI and VSI to monitor an antiangiogenic therapy against VEGF in tumor xenografts
- 2008 DEGUM research award to Moritz Palmowski as representative of the following group:  
Palmowski M, Huppert J, Ladewig G, Hauff P, Reinhardt M, Mueller MM, Woenne EC, Jenne JW, Maeurer M, Kauffmann GW, Semmler W, Kiessling F (2008). Molecular profiling of angiogenesis with targeted ultrasound imaging: early assessment of antiangiogenic therapy effects.
- 2008 Radiology Editor’s Recognition Award for reviewing with distinction
- 2009 Best scientific poster, German X-ray Congress, Berlin, Germany  
Zwick M, Brix G, Semmler W, Kiessling F (2009). Vergleich zweier häufig genutzter Methoden zur pharmakokinetischen Analyse von dynamischen kontrastverstärkten MR-Untersuchungen. *Röfo* 181: 263
- 2009 First poster prize at the 442. WE-Heraeus-Seminar in Bad Honnef for the following contribution: Lammers T, Ulbrich K, Peschke P, Kiessling F, Storm

- G (2009). Image-guided and passively tumor-targeted nanomedicines for radiochemotherapy.
- 2009 Radiology Editor's Recognition Award for reviewing with distinction
- 2010 Poster award (magna cum laude), German X-ray Congress, Berlin, Germany  
Doleschel D, Lederle W, Gätjens J, Jarsch M, Mundigal O, Wessner A, Kiessling F (2010). In-vivo Visualisierung des Erythropoietin Rezeptors durch eine innovative EpoR-Sonde. Röfo 182: 309
- 2010 Poster award (cum laude), German X-ray Congress, Berlin, Germany  
Brix G, Zwick S, Kiessling F, Griebel J (2010). Tracerkinetische Analyse dynamischer kontrastverstärkter Bilddaten Mehrmodellsschätzung physiologischer Gewebeparameter. Röfo 182: 298
- 2010 Winner of the „BMBF-Innovationswettbewerb zur Förderung der Medizintechnik“ (Team: Wiesmann M, Mühlenbruch G, Schreiber F, Kiessling F, Weis J): Entwicklung eines bioresorbierbaren Kunststoffstents für die Gefäßimplantation zur Ausschaltung intrakranieller Aneurysmen)
- 2011 Poster award: European Molecular Imaging Meeting 2011, Category „Cancer Biology“, Leiden, The Netherlands  
Doleschel D, Mundigl O, Wessner A, Gremse F, Bachmann J, Rodriguez A, Kingmueller U, Jarsch M, Kiessling F, Lederle W. Assessment of erythropoietin receptor status by non invasive imaging using a newly generated near-infrared probe.
- 2011 Poster award: European Molecular Imaging Meeting 2011, Category „Imaging Analysis and Quantification“, Leiden, The Netherlands  
Gremse F, Grouls C, Palmowski M, Lammers T, de Vries A, Grüll H, Das M, Mühlenbruch G, Akhtar S, Schober A, Kiessling F. Quantification of Vessel Stenosis using a Virtual Elastic Sphere.
- 2012 Poster award: World Molecular Imaging Congress (WMIC), Dublin, Irland  
Kunjachan S, Gremse F, Kiessling F, Lammers T. Non-invasive CT-FMT imaging of the biodistribution and tumor accumulation of vascular-targeted polymeric nanomedicines.
- 2013 Poster award: World Molecular Imaging Congress (WMIC), Savannah, USA  
Ehling J, Bartneck M, Bábíčková J, Gremse F, Wu Z, Botnar RN, van Zandvoort M, Boor P, Tacke F, Kiessling F, Lammers T. Functional and Molecular Imaging of Liver and Kidney Fibrosis.

- 2013 First poster prize: Annual meeting of the “Interdisziplinäre Netzwerk Molekulare Bildgebung (INMB)“, Mobi13  
Baetke S, Ehling J, Huth L, Wu Z, Möckel D, Gremse F, Dahl E, Kiessling F, Lammers T. In vivo imaging of aberrant tumor growth and angiogenesis caused by loss of secreted frizzled-related protein 1.
- 2014 Poster Award: European Molecular Imaging Meeting 2014, Antwerp, Belgium. Category „Novel MRI contrast materials“. Mertens ME, Wehner J, Schuster P, Kiessling F, Lammers T. <sup>19</sup>F-magnetic resonance imaging of fluorinated textile-based vascular grafts.
- 2014 Poster Award: European Molecular Imaging Meeting 2014, Antwerp, Belgium. Category „Tumour vascularization, angiogenesis and hypoxia“. Baetke S, Ehling J, Huth L, Wu Z, Möckel D, Gremse F, Dahl E, Kiessling F, Lammers T. In vivo imaging of aberrant tumor growth and angiogenesis caused by loss of secreted frizzled-related protein 1 (SFRP1).
- 2014 Poster Award: SFNan (Meeting of the “French Society for Nanomedicine”), Nancy, France. Beztsinna N., Tsvetkova Y., Bartneck M., Kiessling F., Bestel I. New amphiphile riboflavin derivatives for biomedical applications.
- 2015 Poster Award: European Molecular Imaging Meeting 2014, Tuebingen, Germany. Category „Cardiovascular Imaging“. Rix A, Fokong S., Heringer S., Pjontek R., Nonn A., Theek B., Wiesmann M., Kiessling F. Assessment of  $\alpha_v\beta_3$ -integrin expression in pig carotids after vessel injury using molecular ultrasound imaging with PBCA-microbubbles.
- 2016 Poster Award: European Molecular Imaging Meeting 2016, Utrecht, The Netherlands. Category “Visualization of tumour and the micronenvironment I”. Baues M., Möckel D., Ehling J., Theek B., Bartneck M., Tacke F., Kiessling F., Lammers T. HRG and anti-CCL2 treatment induce vascular normalization and improve drug delivery to tumors.
- 2016 Poster Award: European Molecular Imaging Meeting 2016, Utrecht, The Netherlands. Category “Novel diagnostic and therapeutic imaging strategies in Oncology”. Golombek S.K., Pola R., Pechar M., Klein D., Kiessling F., Lammers T. Characterizing pathophysiological mechanisms underlying EPR mediated tumor accumulation.
- 2017 Poster Award: European Molecular Imaging Meeting 2017, Cologne, Germany. Category “MRI probes”. Dadfar S.M., Camozzi D., Metselaar B., Banala S.,

Güvener N., Slabu I., Engelmann U., Straub M., Schulz V., Kiessling F., Lammers T. Size-specific separation of iron oxide nanoparticles by selective centrifugation for optimized MRI, MPI and hyperthermia applications.

2017 Poster Award: "Immuno-Imaging and Molecular Therapy" Workshop at ICMI, Brussels, Belgium. May J.N., Golombek S.K., Pola R., Pechar M., Storm G., Kiessling F., Lammers T. Multimodal optical imaging of ultrasound-mediated blood-brain barrier opening.

**Work as reviewer:**

Nature Medicine, Nature Methods, Nature Reviews Clinical Oncology, Nature Protocols, Nature Nanotechnology, Nature Biomedical Engineering, The Lancet, J National Cancer Institute, PLOS One, Cancer Research, Clinical Cancer Res, International J Cancer, British J Cancer, Neoplasia, Molecular Cancer Therapeutics,

Radiology, J Nuclear Medicine, European Radiology, Investigative Radiology, European Journal of Nuclear Medicine and Molecular Imaging, Röfo, Magma, J Magnetic Resonance Imaging, Pediatric Radiology, International J Radiation Biology, NMR Biomedicine, IEEE Transactions on Medical Imaging,

Respiration, Personalized Medicine, Thrombosis and Haemostasis, J Thrombosis and Haemostasis,

Pharmacology Research, Toxicology and Applied Pharmacology, Langmuir, Bioconjugate Chemistry, ACS Applied Materials & Interfaces, ACS Nano, Medicinal Chemistry Communications, International J Nanomaterials, Advanced Materials, Small, Biomaterials, Angewandte Chemie Int Ed, JACS, Chemical Reviews

Association for International Cancer Research (AICR), Fondation InNaBioSanté, Israel Science Foundation, German Research Foundation (DFG), Bundesministerium für Bildung

und Forschung (BMBF), Deutscher Akademischer Austausch Dienst (DAAD), European Science Foundation (ESF), Alexander von Humboldt-Foundation, Deutsche Krebshilfe, Agence Nationale de la Recherche

### **Editorial board memberships:**

- Radiology

2009-2016 Associate Editor

2014 Member of the nomination committee for the “Margulis Award for Scientific Excellence” of the RSNA

2015 Member of the nomination committee for the “Margulis Award for Scientific Excellence” of the RSNA

2016 Member of the nomination committee for the “Margulis Award for Scientific Excellence” of the RSNA

2016- Consultant to the Editor

- European Radiology

2009- Editorial board member

2014- Head of the Molecular-Experimental section of the Scientific Editorial Board

- European Radiology Experimental

2016- Editorial board member

- 2016- Der Radiologe (Member of the Advisory Committee)

- American Journal of Nuclear Medicine and Molecular Imaging

2011- Senior Editorial board member

- Current Medicinal Chemistry (IF 5.2)

- The Open Organic Chemistry Journal



- Frontiers in Bioscience
- Nanotheranostics

### Grants:

- 2002            Research-program of the Medical Faculty of the University of Heidelberg  
CT-Perfusionsmessung nach Lungeneinzeitbestrahlung.  
Hof H, Kiessling F (**80 000 €**)
- 2003            Integrated project, European Cancer Proteases Consortium (EUCPC), FP6 EU  
Influence of proteases on tumor morphology, vascularization, and metabolism  
using noninvasive imaging techniques.  
Kiessling F, Semmler W (**140 000 €**)
- 2004            German Research Foundation (DFG)  
Entwicklung spezifischer Kontrastmittel zur Detektion molekularer Marker in  
malignen Tumoren mit MRT.  
Kiessling F (**157 000 €**)
- 2005            German Research Foundation (DFG)  
SFB Vascular Differentiation and Remodeling (central-project: Non-invasive  
assessment of tissue micro-morphology, vessel function and progenitor cell  
migration with contrast-enhanced MRI and sonography).  
Kiessling F, Krix M (**92 250 €**)
- 2005            Federal Ministry of Education and Research (BMBF)  
NanoAG (integrated project).  
Kiessling F (**150 000 €**)
- 2006            German Israel Cooperation (MOST)  
High resolution assessment of angiogenesis and normalization of tumor vessel  
phenotype under therapy using implanted MR-coils and functional and  
molecular MR-imaging methods.  
Kiessling F, Bock M, Mueller M, Neeman M (**91 000 €**)
- 2006            Merk KGaA  
Entwicklung nanoskaliger MRT Kontrastmittel.  
Kiessling F (**140 000 €**)

- 2006 Bracco Altana Pharma GmbH  
Preclinical cardiac and dynamic flat-panel CT using Iomeron 400.  
Kiessling F (**5 000 €**)
- 2007 Federal Ministry of Education and Research (BMBF)  
Quantitative molekulare Bildgebung mit spezifischen Ultraschall-  
kontrastmitteln: Reduktion der Versuchstierzahlen durch individuelle  
Verlaufsbetrachtung pathologischer und therapeutischer Prozesse (315017).  
Kiessling F, Morgenstern B (**394 862 €**)
- 2007 German Research Foundation (DFG)  
Development of fluorescent and magnetic dual-functional probes for molecular  
imaging of prostate cancers.  
Kiessling F (**200 000 €**)
- 2007 Intramural DKFZ funding  
Tumor targeting of immune effector cells loaded with iron-oxide nanoparticles  
through external magnetic fields.  
Momburg F, Kiessling F, Beckhove P (**60 000 €**)
- 2007 Intramural DKFZ funding  
Functional consequence of selective matrix metalloproteinase (MMP)  
inhibition for stromal activation, tumor growth and progression.  
Mueller M, Kiessling F (**40 000 €**)
- 2007 German Research Foundation (DFG)  
Comparison of fluorescence based imaging, Volume-CT and MRI for the  
staging and therapy monitoring of experimental colon carcinomas and multiple  
myelomas (KI 1072/2-1).  
Kiessling F, Schulz R (**125 000 €**)
- 2008 German-Israeli Foundation for Scientific Research and Development (GIF)  
Synthesis and characterization of novel iodinated nanoparticles for x-ray CT  
Immphography.  
Margel S, Kiessling F (**196 950 €**)
- 2008 Federal Ministry of Education and Research (BMBF)  
LungSys – Systembiologie von Lungenkrebs (Coordinator: PD Dr. Ursula  
Klingmüller).  
Kiessling F (Total: **3 699 996 €**; WP-Kiessling: **252 384 €**)
- 2008 Bracco GmbH

- Utility of targeted microbubbles for the prediction of aggressiveness and therapy resistance of breast cancer.  
Palmowski M, Kiessling F (**102 000 €**)
- 2009 German Research Foundation (DFG), program “Großgeräte für die Forschung”  
Dual energy small animal CT (INST 948/2-1 FUGG).  
Kiessling F, Schmitz-Rode T, Guenther R (**285 600 €**)
- 2009 Federal Ministry of Education and Research (BMBF)  
Quantitative molekulare Bildgebung mit spezifischen Ultraschall-  
kontrastmitteln: Reduktion der Versuchstierzahlen durch individuelle  
Verlaufsbetrachtung pathologischer und therapeutischer Prozesse (0315481).  
Kiessling F, Palmowski M (**208 314 €**)
- 2009 Interdisziplinäres Zentrum für Klinische Forschung (IZKF)  
Kombinierte NIRF-OT und OCT-Bildgebung für das Staging von Urothel-  
Neoplasien.  
Kiessling F (**147 700 €**)
- 2009 German Research Foundation (DFG)  
Excellence academy Medical Engineering about Molecular Imaging (KI  
1072/6-1).  
Kiessling F (**67 664 €**)
- 2009 Bayer-Schering Pharma  
Evaluation of the therapeutic efficacy of multispecific tyrosine kinase  
inhibitors on the growth of orthotopic colon cancer xenografts and analysis of  
the antiangiogenic therapy response with functional vascular imaging.  
Kiessling F, Lederle W (**40 590 €**)
- 2009 German Research Foundation (DFG)  
Optimization of E-Selectin specific ultrasound contrast agents and of their  
detection in experimental breast cancer with quantitative ultrasound techniques.  
Kiessling F, Schmitz G (**104 700 €**)
- 2010 Astra Zeneca  
Qualitative and quantitative in vivo imaging of tumor micro-vascularisation  
using high resolving molecular imaging methods (Power-Doppler ultrasound,  
contrast-enhanced Power-Doppler ultrasound,  $\mu$ -computed tomography).  
Kiessling F (**16 880 €**)

- 2010 Hightech.NRW (NRW-EU-Ziel2; EFRE)  
ForSaTum.  
Kiessling F (total: **11 400 000 €**; ExMI: **1 468 800 €**)
- 2010 Federal Ministry of Education and Research (BMBF)  
Virtual Liver.  
Kiessling F (**253 951 €**)
- 2010 German Research Foundation (DFG)  
Entwicklung und Erprobung multimodaler Proben für die in vivo  
Charakterisierung der Stabilität atherosklerotischer Plaques (KI 1072/8-1).  
Kiessling F, van Zandvoort M, Weber C (**225 000 €**)
- 2010 FP7 EU  
Sublima (Grant agreement # 241711; Coordinator: Solf T)  
Kiessling F (**Total: 11 746 804 €**; WP Kiessling F: **749 400 €**)
- 2010 Ziel-2.NRW, EFRE  
InnoMeT Cluster „Patientenspezifische Medizintechnische Lösungen für die  
Kardiovaskuläre Therapie“ (Coordinator: Schmitz-Rode T).  
Subcluster „Entwicklung & Bildgebung patientenoptimierter Implantate  
(PATIM)“.  
Coordinator: Kiessling F (**Total: 3 671 777 €**; WP Kiessling F: **790 429 €**)
- 2010 Federal Ministry of Education and Research (BMBF)  
Entwicklung und Testung eines bioresorbierbaren, flussmodulierenden  
Kunststoffstents für die Gefäßimplantation zur Ausschaltung intrakranieller  
Aneurysmen (Coordinator: Wiesmann M)  
Kiessling F (**Total: 274 492 €**; WP Kiessling F: **39 676 €**)
- 2011 FP7 EU COST Action  
Theragnostics imaging and therapy: an action to develop novel nanosized  
systems for imaging-guided drug delivery (coordinator: Aime S).  
Kiessling F (partner)
- 2011 Federal Ministry of Education and Research (BMBF)  
LungSys II (Coordinator: Klingmüller U).  
Kiessling F, Lederle W (WP Kiessling F: **269 722 €**)
- 2012 Portfolio grant (Helmholtz-Society) „Technologie und Medizin“  
Multimodale Bildgebung zur Aufklärung des In-vivo-Verhaltens von

- polymeren Biomaterialien (Coordinator: Coenen HH).  
Shah J, Kiessling F: **500 000 €**
- 2012 Merck Serono  
Preclinical research collaboration on contrast-enhanced ultrasound (CEUS)-  
imaging.  
Kiessling F (**34 736 €**)
- 2012 DFG-RWTH ERS (Exploratory Research Space)  
Magnetic Characterization of Iron Oxide Nanoparticles in Physiologically  
Relevant Fluids: A Feasibility Study.  
Kiessling F, Kögerler P (**50 000 €**)
- 2012 German Research Foundation (DFG) 91B  
Center for Biohybrid Medical Systems.  
Speakers: Kiessling F, Schmitz-Rode T (**39 400 000 €**)
- 2013 German Research Foundation (DFG)  
Micromorphological functional and molecular characterization of tumor  
vasculature by bubble tracking (KI1072/11-1).  
Kiessling F, Schmitz G (**179 288 €**)
- 2013 Philips Research  
SNR Improvement of MPI.  
Kiessling F (**220 000 €**)
- 2013 German Research Foundation (DFG)  
Personalizing EPR-mediated passive drug targeting to tumors using non-  
invasive imaging.  
Kiessling F, Lammers T (**448 500 €**)
- 2013 German Research Foundation (DFG) 91B  
Magnetic Particle Imaging (MPI) small animal imaging scanner for in-vivo-  
imaging (INST 222/1050-1).  
Kiessling F (**3 340 000 €**)
- 2014 Deutscher Akademischer Austauschdienst (DAAD), PPP France – PROCOPE  
Development of multimodal imaging probes for intravascular molecular  
imaging of tumors and inflammation.  
Kiessling F (**10 623 €**)
- 2014 Federal Ministry of Education and Research (BMBF)

- 3D-TAM: 3D-gedrucktes biomimetisches In-Vitro-Tumor Angiogenese Modell.  
Kiessling F, Fischer H (**459 939 €**)
- 2014 EU FP7: Biophotonics Plus  
RapidPharma.  
Kiessling F (**1 545 965 €**)
- 2014 German Research Foundation (DFG)  
Tumorbildgebung in vivo mit para-Wasserstoff (KI 1072/15-1).  
Kiessling F, Blümich B (**358 187 €**)
- 2015 Federal Ministry of Education and Research (BMBF), TU9-IIT Mandi joint program.  
Development of gelator systems starting from bi-compatible starting materials for microbubble mediated drug delivery and bio imaging applications.  
Kiessling F, Banala S. (~**12 000 €** depending on travel activities)
- 2015 German Research Foundation (DFG) 91B  
High resolution  $\mu$ CT, low field MRI, high field MRI (INST 222/1097-1).  
Kiessling F (**2 662 000 €**)
- 2015 Ministry of Innovation, Science and Research of the State of North Rhine-Westphalia (MiWi). ForSaTum – Beschleunigte Umsetzung neuer Tumorbehandlungskonzepte – Testphase und Aufbau des Referenzbetriebes.  
Kiessling F (Coordinator; Gesamt: **379 800 €**, WP Kiessling: **83 752 €**)
- 2015 Federal Ministry of Education and Research (BMBF), Forschungsnetz Systemmedizin der Leber (LiSyM) Pillar II. (WP Kiessling: **205 000 €**)
- 2016 Bracco GmbH.  
Study on clinical samples to evaluate VEGFR2 expression in the thyroid and its neoplasms. Kiessling F. (**37909 €**)
- 2016 European Union HORIZON 2020, Marie Skłodowska-Curie actions, Innovative Training Network (ITN)  
International network for training on risks of vascular intimal calcification and roads to regression of cardiovascular disease. (Role Kiessling: Partner)
- 2016 German Research Foundation (DFG)  
FOR2591: Severity assessment in animal based research. Project: Influence of imaging on study results and animal welfare. Kiessling F. (**424 950 €**)
- 2017 German Research Foundation (DFG), program “Forschungsgroßgeräte ”

In vivo  $\mu$ CT for mice and rats (INST 948/44-1FUGG).

Kiessling F (124 500 €)

### **Memberships/Functions:**

- 2005 - 2012 Speaker of the section “Molecular Imaging“ in the “Method and Research” working group, German x-ray society (DRG)
- 2006 - Delegate of the DRG in the „German interdisciplinary network of molecular imaging“
- 2008 - 2012 Head of the “Method and Research” working group of the DRG
- 2009 - 2011 Member of the selection committee of the „Deutscher Akademischer Austausch Dienst (DAAD)”
- 2009- Member of the research alliance between the Helmholtz-Zentrum Jülich and the RWTH (Jülich-Aachen Research Alliance, JARA-Brain)
- 2009 - 2014 Member of the advisory board of the FP7-EU-project „Public Private Partnership for Asthma Imaging and Genomics“
- 2010- European Science Foundation
- 2011 Founding member („Member at Large“) of the “European Society for Molecular and Functional imaging in Radiology (ESMOFIR)“
- 2011 - Appointment as „Research Radiologist“ in the „ESR Research Committee Board“, European Society for Radiology (ESR)
- 2012 - Member of the extended council of the “Method and Research” working group, German x-ray society (DRG)
- 2012 - Member of the council of the European Society for Molecular Imaging (ESMI)
- 2012 Founding member of the ESMI working group “Image Guided Therapy and Drug Delivery (IGTDD)“
- 2012 - 2013 Secretary of the European Society for Molecular Imaging (ESMI)
- 2012 - Member of the coordinating board of the profile area „medicine and technology“ of the RWTH-Aachen University
- 2013 - Member of the “Biomarker Subcommittee” of the ESR
- 2013- Advisor of the company „Molecular Targeting Technologies Inc.“, West Chester, PA, USA
- 2013 - Treasurer of the European Society for Molecular Imaging (ESMI)
- 2014 Chairman of the “Molecular Imaging Subcommittee” of the ESR

- 2016 Member of the external advisory board of the “Department of Imaging and Pathology” at the University of Leuven, Belgium
- 2017 Appointment to the board of trustees of the Fraunhofer Institute Mevis (Bremen, Germany)
- 2018 Member at large in Executive Committee der European Society for Hybrid Medical and Translational Imaging

*Actual memberships in academic societies:* Radiological Society of North America (RSNA), World Molecular Imaging Society (WMIS), European Society for Molecular Imaging (ESMI), European Society for Radiology (ESR), German x-ray society (DRG), German Society for Nuclear Medicine (DGN), German Japanese Radiological Affiliation (GJRA), Fraunhofer Society

#### **Organization of Workshops and Conferences:**

- 11.-12.7.05 Organisation of the interdisciplinary workshop „Molecular Imaging“ of the „Methods and Research“ group of the German x-ray society at the German Cancer Research Center, Heidelberg
- 2008 Member of the scientific committee of the “International OncoRay Workshop” (Molekulare Bildgebung 08), 19.-21.6.08, Dresden, Germany
- 2009 Track Chair for „Molecular Imaging“, Medical Physics and Biomedical Engineering World Congress, Munich, Germany
- 2009 Category Co-chair (Ultrasound Probes), World Molecular Imaging Congress, Montreal, Canada
- 4.10.-7.10.09 Organization of the 442<sup>nd</sup> WE-Heraeus-seminar about “Molecular Imaging”, in Bad Honnef by Fabian Kiessling, Christoph Bremer, Wolfhard Semmler
- 26.4.-1.5.10 Organization of the 4th DFG-Excellence Academy Medical Engineering about Molecular Imaging in Aachen
- 2010 Track Chair, Category Chair, Reviewer, World Molecular Imaging Congress, Kyoto, Japan
- 1.10.-2.10.10 Organization of the 1<sup>st</sup> „Fit for Future“ Workshop of the German X-ray Society (DRG) about Molecular Imaging in Aachen
- 2011 Member of the “Organizing and Scientific committee”, European Society for Molecular Imaging (ESMI) Annual Meeting in Leiden, The Netherlands



- 2011 Member of the program committee of the “World Molecular Imaging Congress (WMIC)”, San Diego, USA
- 10.9.-14.9.12 “Quantitative Image Analysis and Application Specific Imaging (PRIMA IV)” Workshop in Dublin, Ireland, Organizers: ESMI, WMIS and ESMOFIR, Committee: N. Grenier, F. Kiessling, T. Lammers, B. Pichler, A. Prina-Mello, S. Wiehr
- 2012-2013 Member of the program committee and chairman of the educational program of the “World Molecular Imaging Congress (WMIC)”, Savannah, Georgia, USA
- 2012 Member of the “Scientific Advisory Board” of the Mobi 2012 in Erlangen, Germany
- 2012 Member of the „Program Committee“ for the International Workshop on Magnetic Particle Imaging (IWMPI) 2013 in Berkley, USA
- 31.1.-1.2.13 Organization of the 2<sup>nd</sup> seminar of the „Researcher for the Future“ program of the German X-ray Society (DRG) about Molecular Imaging in Aachen
- 2013 Member of the „Program Committee“ for the International Workshop on Magnetic Particle Imaging (IWMPI) 2014 in Berlin, Germany
- 2014 Program co-chair for the European Molecular Imaging Meeting (EMIM), Antwerp, Belgium
- 2015 Member of the „Program Committee“ for the International Workshop on Magnetic Particle Imaging (IWMPI) 2015 in Istanbul, Turkey
- 2015 Co-chair of the program committee of the “World Molecular Imaging Congress (WMIC)”, Hawaii, USA
- 2015 Program co-chair for the European Molecular Imaging Meeting (EMIM), Tübingen, Germany
- 17.3.2015 Co-organizer (O. Clement, F. Kiessling, K. Nikolaou) of the “ESMOFIR Workshop 2015 – Diffusion 2.0”, Tuebingen, Germany
- 2015 Member of the “Scientific Advisory Board” for the “Contrast Media Research (CMR) 2015” conference
- 2016 Program chair of the “World Molecular Imaging Congress (WMIC) 2016”, New York, USA
- 2017 Member of the “EMIM 2017 Local Committee”
- 2017 Member of the program committee of the “World Molecular Imaging Congress 2018 (WMIC)”, Seattle, USA

23.-24.11.17 Chair of the MoBi 2017 (Meeting of the German Interdisciplinary Network Molecular Imaging), Aachen, Germany

### **Selection of invited talks**

- 25.4.05 12<sup>th</sup> Workshop of the „Japanese-German Radiological Affiliation“; Berlin, Germany (Title: Cell Tracking in MRI)
- 4.5.05 Workshop „Molecular Imaging“ at the German x-ray congress 2005; Berlin, Germany (Title: Molecular Imaging in Oncology)
- 17.6.05 Workshop „Molecular Imaging and Magnetic nanoparticles“; Jena, Germany (Title: Perspectives of molecular imaging in oncology)
- 2.11.05 9<sup>th</sup> Bremer Cancer Congress; Bremen, Germany (Title: Future developments in the oncological diagnostic with a special focus on functional imaging)
- 11.11.05 Prostate-Workshop of the „Uroradiology“ group of the German x-ray society; Berlin, Germany (Title: Use of DCE MRI to detect and characterize prostate cancer)
- 6.-10.3.06 18<sup>th</sup> Winterschool of the SGMP, SSRPM, SSRFM (Topic: „Molecular Imaging“); Pichl, Austria (Talk 1: Prinzipien der Angiogenese und MRT-Verfahren zur Erfassung der Gefäßfunktion; Talk 2: Microcirculation II: CT und Ultraschall; Talk 3: Experimentelle Tumorforschung)
- 26.5.06 Refreshercourse „Methods and Research I – Molecular Imaging and new therapeutic options in oncology“, German x-ray congress 2006; Berlin, Germany (Title: “Imaging of tumor angiogenesis“).
- 27.6.06 Eurocancer Congress 2006; Paris, France (Title: Surrogate marker imaging of angiogenesis; Eurocancer 2006, John Libbey Eurotext Limited, UK: 43-44).

- 28.6.06 BACR / BMS Special Conference „Tumour Vasculature: New Targets & Therapies“; Cirencester, UK (Title: Novel perspectives in oncological imaging; Angiogenesis 9: 15).
- 05.9.06 International Summer School on Molecular Imaging (EMIL, DIMI), EMBL; Heidelberg, Germany (Title: “Imaging of tumor angiogenesis”; Suppl. 23).
- 30.9.06 4th International Congress on MR-Mammography; Jena, Germany (Title: VEGF receptor blockade: is dynamic MRI an early indicator? Kiessling F, Semmler W. Eur Radiol 16 Supplement 5: E55-E56).
- 22.10.06 The Clore Workshop on Novel Imaging Technologies in Disease Models; Weizmann Institut, Israel (Title: Flat panel equipped volumetric computed tomography of small rodents).
- 12.-15.2.07 Guest Professorship Mevis; University Bremen, Germany (Title: 1. Vascular Imaging with MRI and CT, 2. Molecular Imaging).
- 15.3.07 11. IGLD-Symposium; Günzburg, Germany (Title: Molekulare und biomedizinische Bildgebung der Angiogenese mittels MRT).
- 25.4.07 Molecular Imaging Symposium, 45<sup>th</sup> Annual Meeting of the German Society for Nuclear Medicine; Hanover, Germany (Title: Nanobased MR, ultrasound and CT imaging).
- 16.5.06 Workshop „Uroradiology I“, German x-ray congress 2007; Berlin, Germany (Title: “Novel strategies in the diagnosis of prostate cancer“).
- 08.9.07 Prec-conference of the Joint Molecular Imaging, Imaging in Molecular Medicine Symposium; Providence, RI, USA (Title: Contrast Enhanced MicroCT Applications in Rodents: Angiography, Lymphography, Blood Pool Imaging).
- 11.9.07 14th meeting of the German, Austrian and Swiss societies of Angiology; München, Germany (Title: Molecular vascular imaging).

- 13.9.07 62<sup>th</sup> annual meeting of the DGVS and DGVC; Bochum, Germany (Title: Approaches for molecular imaging in oncology).
- 25.9.07 59<sup>th</sup> annual congress of the German Society of Urology; Berlin, Germany (Title: Future Perspectives in Imaging).
- 19.10.07 14<sup>th</sup> DEGA-Workshop Physical Acoustic; Bad Honnef, Germany (Title: Molecular imaging with cyanoacrylate microbubbles).
- 23.1.08 Imaging in Drug Development Conference (ACI); London, UK (Title: Functional and molecular imaging of tumors).
- 01.5.08 Refreshercourse „Methods and Research II – Contrast enhanced sonography“; German x-ray congress 2008, Berlin (Title: Experimental applications for contrast enhanced sonography).
- 03.5.08 Workshop „Uroradiology I – New methods / applications“, German x-ray congress 2008; Berlin, Germany (Title: “New methods and contrast agents for the urologic oncology“).
- 21.6.08 International Oncoray Workshop (Molekulare Bildgebung 08); Dresden, Germany (Title: Mistakes in data interpretation).
- 24.6.08 Grand Rounds, German Cancer Research Center (DKFZ); Heidelberg (Title: Imaging angiogenesis).
- 26.6.08 Bracco Imaging Workshop: From basic research to clinical translation: the challenge of molecular imaging; Turin, Italy (Title: Tumor imaging beyond morphology).
- 2.10.08 International Thoracic Oncology Congress; Dresden, Germany (Title: Modern Imaging from bench to bedside)
- 3.10.08 **Plenary lecture:** ESMRMB; Valencia, Spain (Title: Targeted imaging of tumor angiogenesis)
- 28.1.09 Hot topics in molecular imaging (TOPIM'09); Les Houches, France (Title: Multimodal imaging of tumor angiogenesis)
- 19.3.09 39th Congress of the DGE-BV; München, Germany (Title: Ultrasound based molecular Imaging)
- 28.3.09 **Keynote lecture:** ACSI-Congress, “Special Focus: Molecular Imaging“; Mannheim, Germany (Title: Molecular Imaging in Oncology)

- 07.5.09 Symposium “Novel Tools for Risk Assessment and Early Detection of Premalignant Lesions and Cancer (German Cancer Aid)”, Bonn (Title: Contrast agents and applications to assess tumor angiogenesis in vivo)
- 21.5.09 Session „MTRA 4 – Molecular Imaging“, German x-ray congress 2009; Berlin, Germany (Title: Molecular Imaging – Current Applications)
- 30.5.09 **Plenary lecture:** 4<sup>th</sup> European Molecular Imaging Meeting, Barcelona, Spain (Title: The need for multi-modal molecular imaging in cancer research)
- 01.6.09 32<sup>nd</sup> postgraduate course and 46<sup>th</sup> annual meeting of European society of paediatric radiology (ESPR), Istanbul, Turkey (Title: Molecular imaging and ultrasound with focus on pediatric radiology)
- 23.9.09 World Molecular Imaging Congress, Montreal, Canada (Educational Workshop 1, Title: Imaging Technology & Protocols: CT)
- 26.9.09 5<sup>th</sup> International Congress on MR-Mammography, Jena, Germany (Title: Molecular ultrasound imaging: principles and potential application in diagnosis and therapy monitoring of breast cancer; Eur Radiol. 19 Suppl. 4: 862-867)
- 23.4.09 Workshop “Preclinical Imaging in Small Laboratory Animals”, German Congress of Nuclear Medicine, Leipzig, Germany (Title: Ultrasound)
- 13.5.10 Session “Molekulare Bildgebung für Jedermann”, German X-ray congress (Deutschen Röntgenkongress) 2010, Berlin, Germany (Title: Tipps für den Beginn von Forschungsaktivitäten über Molekulare Bildgebung)
- 22.5.10 15th Workshop of the German-Japanese Radiological Affiliation, Tokyo, Japan (Title: Multimodal imaging of tumor angiogenesis)
- 05.6.10 Society of Nuclear Medicine (SNM) Conference, Session: An Overview of Molecular Imaging: From Basic Concepts to Translational Medicine – Part I, Salt Lake City, USA (Title: Advances in Ultrasound Probes)
- 07.6.10 Society of Nuclear Medicine (SNM) Conference, Session: Nanoparticles, Salt Lake City, USA (Title: Ultrasound Nanobubbles)
- 09.9.10 World Molecular Imaging Congress (WMIC), Kyoto, Japan (Title: Ultrasound and Ultrasound Probes)
- 09.9.10 World Molecular Imaging Congress (WMIC), Kyoto, Japan (Title: Computed Tomography)
- 03.2.11 **Keynote lecture:** EUSOBI meeting at the European Congress of Radiology (ECR), Vienna, Austria (Title: Molecular and functional characterization of breast cancer by ultrasound imaging)

- 04.2.11 ECR 2011, Vienna, Austria (Title: Molecular imaging from bench to bedside)
- 14.4.11 DGN-Congress 2011, Workshop “Preclinical Imaging in Small Laboratory Animals”, Bregenz, Austria (Title: Disease specific imaging: Oncology-I)
- 26.5.11 **Keynote lecture:** Congress of the “European Society for Surgical Research”, Aachen, Germany (Title: Functional and molecular cancer imaging in rodents)
- 20.6.11 European Molecular Imaging Meeting 2011, Leiden, The Netherlands (Title: Which role nano- & microparticles can play in molecular cancer diagnosis & theranostics?)
- 05.7.11 **Keynote lecture:** Leeds Microbubble Symposium, Leeds, UK (Title: Microbubbles for molecular imaging and theranostics)
- 08.9.11 **Keynote lecture:** VisualSonics Symposium at the “World Molecular Imaging Congress (WMIC)”, San Diego, USA (Title: Contrast enhanced functional, molecular and theranostic ultrasound imaging of tumors)
- 29.9.11 Workshop “New Horizons in Preclinical MR”, Freiburg, Germany (Title: Molecular imaging in translational research)
- 11.10.11 Biotechnika, Hannover, Germany (Title: Quantitative molekulare Bildgebung mit spezifischen Ultraschallkontrastmitteln: Reduktion der Versuchstierzahlen durch individuelle Verlaufsbetrachtung pathologischer und therapeutischer Prozesse)
- 11.10.11 Mobi 2011, Göttingen, Germany (Title: News from WMIC 2011 in San Diego)
- 15.10.11 **Keynote lecture:** 10th International symposium on highfield MR in clinical applications, Bonn, Germany (Title: Molecular Imaging of Cancer)
- 07.11.11 Workshop “MRI probes for molecular Imaging: from design to application”, “Max-Planck Institute for Biological Cybernetics”, Tübingen, Germany (Title: Nano- and microparticles for molecular MRI)
- 10.11.11 Workshop “Personalised Medicine”, Leopoldina, Berlin (Title: Molecular imaging: Molecular imaging in oncology)
- 02.02.12 “16<sup>th</sup> School of Pure and Applied Biophysics - Multimodal Methods for Cell Imaging and Tracking”, Venice, Italy (Title: Multimodal molecular imaging of angiogenesis)
- 02.03.12 ECR 2012, Vienna, Austria (Title: Sonographic and photo acoustic techniques for MI)

- 09.04.12 **Keynote lecture:** 1<sup>st</sup> Meeting of the Society of Molecular Imaging of Thailand (SMITH), Bangkok, Thailand (Title: Instrumentation and Physics of Ultrasound and Computed Tomography)
- 18.05.12 Workshop „Erfolgreich in der Wissenschaft“, German x-ray congress 2012; Hamburg, Germany (Title: “Erstellung von Drittmittelanträgen und Publikationen“)
- 26.05.12 10<sup>th</sup> Workshop of the German-Japanese Radiological Affiliation, Muenster, Germany (Title: Multimodal molecular imaging and theranostics in preclinical cancer research)
- 05.06.12 International Vascular Biology Meeting (IVBM), Wiesbaden, Germany (Title: Novel ways to noninvasively study antiangiogenic therapy effects)
- 05.09.12 World Molecular Imaging Congress (WMIC), Dublin, Ireland (Title: Physical limits: Sensitivity, specificity and quantitation: Computed Tomography)
- 12.09.12 “Quantitative Image Analysis and Application Specific Imaging (PRIMA IV)” Workshop of ESMI, WMIS and ESMOFIR in Dublin, Ireland (Title: Disease-specific imaging: Oncology)
- 29.09.12 6<sup>th</sup> International Congress on MR Mammography, Jena, Germany (Title: Molecular and functional ultrasound imaging of breast tumors)
- 04.10.12 **Plenary lecture:** 20th Annual Meeting of the Working Group Radiochemistry/Radiopharmacy of the German Society for Nuclear Medicine, Bad Honnef, Germany (Title: Multimodal Imaging in Oncology)
- 23.01.13 **Plenary lecture:** Hot Topics in Molecular Imaging (TOPIM 13); Les Houches, France (Title: Imaging the hallmarks of cancer – tumor angiogenesis)
- 07.03.13 ECR 2013, Vienna, Austria (Refresher Course: Emerging molecular imaging techniques)
- 09.03.13 ECR 2013, Professional Challenges Session about personalized medicine, Vienna, Austria (Title: Molecular imaging: solution for personalised diagnosis and treatment?)
- 12.03.13 **Keynote lecture:** Symposium commemorating the 35<sup>th</sup> Anniversary of the German-Israeli Cooperation in Cancer Research honoring Prof. Dr. Dr. Wolfhard Semmler, Heidelberg (Title: Molecular imaging and theranostics at present: the fruits of pioneer`s work)
- 26.05.13 European Molecular Imaging Meeting 2013, Torino, Italy (Title: Nanotheranostics: Promising translational concepts)

- 27.05.13 European Molecular Imaging Meeting 2013, Torino, Italy (Title: Dynamic contrast enhanced imaging using CT, MRI and ultrasound)
- 10.06.13 Society of Nuclear Medicine and Molecular Imaging (SNMMI)'s Annual Meeting, Vancouver, Canada (Title: Characterization of tumor angiogenesis with microstructural, functional, and molecular imaging)
- 14.10.13 Chinese-German Highfield MRI Workshop, Hefei, China (Title: Nanoparticles as MR contrast agents)
- 29.10.13 **Keynote Lecture:** Annual INMB meeting "Mobi 13", Heidelberg, Germany (Title: Ultrasound)
- 01.11.13 ESMOFIR – Workshop "Contrast Enhanced Body Perfusion", Barcelona, Spain (Title: Molecular and Theranostic Ultrasound Imaging)
- 02.11.13 ESMOFIR – Workshop "Contrast Enhanced Body Perfusion", Barcelona, Spain (Title: General - Models and how they relate to each other)
- 02.11.13 ESMOFIR – Workshop "Contrast Enhanced Body Perfusion", Barcelona, Spain (Title: Contrast enhanced  $\mu$ CT imaging)
- 07.03.14 ECR 2014, Vienna, Austria, **New Horizon Session** "Imaging the hallmarks of cancer" (Title: Angiogenesis)
- 10.03.14 ECR 2014, Vienna, Austria, Refresher Course "Molecular Imaging in Oncology" (Title: Emerging Molecular Imaging Techniques)
- 27.03.14 Symposium "Innovative Strategies for Severity Assessment in Laboratory Animals", Hannover, Germany (Title: The role of non-invasive imaging in preclinical oncology research)
- 11.04.14 Workshop "Quo vadis nanomedicine?", Exeter, UK (Title: Nanoparticles as diagnostic and therapeutic agents)
- 28.05.14 Refresher course „Methods and Research I - Molecular Imaging“, German x-ray congress 2014; Hamburg, Germany (Title: Overview - modalities and methods for molecular imaging)
- 04.06.14 European Molecular Imaging Meeting, Antwerp, Belgium. Educational Session I (Title: Functional and molecular ultrasound imaging: chances and pitfalls)
- 05.06.14 European Molecular Imaging Meeting, Antwerp, Belgium, IGDD-Session (Title: Nanoparticles as diagnostic and therapeutic agents)
- 09.06.14 Society of Nuclear Medicine and Molecular Imaging (SNMMI)'s Annual Meeting; St. Louis, USA (Title: Microbubbles for Drug Delivery and Imaging)



- 04.07.14 Göttingen SPIRIT Summer School “Multimodal molecular imaging: from high resolution in vitro towards in vivo”, Göttingen, Germany (Title: Microbubbles for diagnostic and therapeutic applications)
- 07.07.14 **Keynote Lecture:** Opening Symposium of the “Bruker Preclinical Imaging Reference Center”, Mannheim, Germany (Title: Bedeutung von molekularer Bildgebung und Theranostik für die personalisierte Medizin)
- 08.07.14 19th Annual PhD Retreat of the German Cancer Research Center (DKFZ), Weil der Stadt (Title: Life is curiosity)
- 07.03.15 ECR 2015, Vienna, Austria, ECR Master Classes: Advances in liver imaging (Title: Molecular Imaging: Where we go?)
- 15.05.15 Workshop „Methods and Research - Molecular Imaging“, German x-ray congress 2015; Hamburg, Germany (Title: Overview - modalities and methods for molecular imaging)
- 19.06.15 **Plenary Lecture:** 11<sup>th</sup> German-Russian-Conference on Biomedical Engineering; Aachen, Germany (Title: Instrumentation and probes for molecular imaging)
- 25.09.15 **Plenary Lecture:** Nanotracking Workshop, Lipari, Italy (Title: Imaging Nanomaterials – Nanomaterials for Imaging)
- 13.10.15 Annual Congress of the European Association of Nuclear Medicine (EANM’15), Hamburg, Germany (Title: Theranostic targeting vectors and nanoparticles)
- 15.10.15 **Keynote Lecture:** Molekulare Bildgebung 15 (Mobi), Freiburg, Germany (Title: Molecular Imaging in Oncology: Which targets and probes have translational potential?)
- 12.11.15 2<sup>nd</sup> Goettingen SPIRIT Summer School on “Multimodal Molecular Imaging: from high resolution in vitro towards in vivo imaging”, Goettingen, Germany (Title: Microbubbles for diagnostic and therapeutic ultrasound applications)
- 04.03.16 ECR 2016, Vienna, Austria, ECR Master Classes: Preclinical imaging as a driver for translational research: how I do it (Title: What about nano-technology?)
- 08.03.16 European Molecular Imaging Meeting, Utrecht, The Netherlands (Title: Novel diagnostic and therapeutic imaging strategies in oncology)
- 20.05.16 **Keynote Lecture:** 100th Annual Meeting of the German Society for Pathology, Berlin, Germany (Title: Multiscale Imaging in Translational Research)

- 06.06.16 18<sup>th</sup> bi-annual meeting of the German-Japanese Radiological Affiliation, Munich, Germany (Title: Imaging of scaffolds and tissue engineered vessels)
- 27.06.16 European and Global Summit for Clinical Nanomedicine and Targeted Medicine (CLINAM), Basel, Switzerland (Title: Microbubbles for drug delivery to tumors and the brain)
- 01.09.16 5<sup>th</sup> International Workshop on Advanced Materials: Challenges for Health and Alternative Energy Solutions, Cologne, Germany (Title: Nanoparticles as diagnostic and theranostic agents)
- 09.09.16 World Molecular Imaging Congress 2016, New York, USA (Title: Molecular ultrasound imaging of arterial inflammation and regeneration)
- 22.09.16 **Keynote Lecture:** Helmholtz Graduate School for Macromolecular Bioscience, Summer School 2016, Potsdam, Germany (Title: Nanoparticles as diagnostic and theranostic agents)
- 28.09.16 **Plenary Lecture:** ICONAN Conference, Paris, France (Title: Considerations on the design of nanoparticles for diagnostic, theranostic and therapeutic purposes)
- 29.09.16 ESMRMB, Vienna, Austria (Title: USPIO and molecular imaging agents)
- 02.02.17 E-WISPIC 2017 – “Sensing and Receptors”, Bressanone, Italy (Title: Diagnostics and Theranostics: What we have to consider to succeed in clinical translation)
- 03.03.17 ECR 2016, Vienna, Austria (Title: Translational research in molecular imaging : how to do the translation - What about nano-technology?)
- 08.03.17 **Keynote Lecture:** International conference on advances in biotechnology and biotherapeutics (ICABBS-2017), Chennai, India (Title: Nanoparticles for diagnosis and therapy)
- 09.03.17 **Keynote Lecture:** Biotechcellence, Chennai, India (Title: Nanoparticles for diagnosis and therapy)
- 08.05.17 European and global conference and exhibition for clinical nanomedicine and Targeted Medicine (CLINAM), Basel, Swiss (Title: Strategies to develop nanomedicines for clinical imaging and therapy)
- 26.05.17 Special course „Is career fortune?“, German x-ray congress 2017; Leipzig, Germany (Title: The unconventional way of a radiologist)

- 26.05.17 Special course „Oncological Imaging II – Radiomics in oncology: Hype or future of radiology“, German x-ray congress 2017; Leipzig, Germany (Title: Applications of imaging in the preclinical research)
- 17.09.17 World Molecular Imaging Congress 2017, Spotlight Session „ESMI Highlights“, Philadelphia, USA (Title: Tumor characterization by multiparametric and super-resolution ultrasound imaging)
- 20.09.17 **Keynote Lecture:** TALEs (Flanders TrAining network Life Sciences) – Nanomaterials in Biomedical Sciences, Gent, Belgium (Title: Strategies to develop nanoparticles for clinical imaging and therapy)
- 20.10.17 Career Day Academia, DKFZ, Heidelberg, Germany (Title: From group leader to institute director)
- 18.01.18 Workshop: The future of medical ultrasound, Berlin, Germany (Title: Microbubbles for ultrasound diagnosis and therapy)

### Teaching\*

\*Single lectures are not listed

- Together with Dr. Peter Huber coordination of the course and seminar „Imaging and Radiation Oncology“ and “Non invasive tumor characterization and radiation therapy “ in the master program „Major Cancer Biology“ at the DKFZ
- Coordinator of the “International Master’s Program Biomedical Engineering“ at the RWTH
- Coordinator of the module „Molecular Imaging“ in the “International Master’s Program Biomedical Engineering“ at the RWTH
- Coordinator of and lecturer in module 8 (medical technology and imaging) of the RWTH master program “Laboratory Animal Science (MLAS)”
- Coordination of the „qualification profiles“ „disease-specific and molecular imaging: seminar“ and „qualification profiles“ „disease-specific and molecular imaging: practical course “ in the “Modellstudiengang” Medicine.

### Former MD and PhD students

- 2007 Nabeel Farhan (Dr. med.)
- 2008 Rui Sun (Dr. med.)
- 2009 Eva Wönne (Dr. rer. nat.)

2009	Stefan Zwick (Dr. rer. medic)
2010	Julia Dittrich (Dr. med.)
2011	Jabadurai Jayapaul (Dr. rer. nat.)
2012	Jessica Bzyl (Dr. rer. medic.)
2012	Christoph Grouls (Dr. med.)
2013	Daniel Truhn (Dr. med.)
2013	Lotfi Abou-Elkacem (Dr. rer. medic.)
2012	Sijumon Kunjachan (Dr. rer. medic)
2014	Stanley Fokong Nyongamsen (Dr. rer. medic)
2014	Marianne Elisabeth Mertens (Dr. rer. nat.)
2014	Wa'el Al Rawashdeh (Dr. rer. medic)
2014	Adelina Curaj (Dr. med.)
2015	Felix Gremse (Dr. rer. medic)
2015	Zhuojun Wu (Dr. rer. nat.)
2015	Patrick Kozcera (Dr. med.)
2016	Dennis Doleschel (Dr. rer. medic)
2016	Josef Ehling (Dr. rer. nat.)
2016	Felix Fuge (Dr. rer. medic)
2016	Igor Spivak (Dr. med.)
2017	Sarah Christina Baetke (Dr. rer. medic)
2017	Adelina Baleano-Curaj (PhD)