

Prof. Dr. Bernd Pichler

Personal Data

Status/Function:	Director of Department
Scientific focus:	Bernd Pichler is in the field of PET and PET/MR imaging science since more than 15 years and pioneered the development of preclinical and clinical (together with Siemens) PET/MRI. He performed research at the TU Munich, the MPI for Physics in Munich, UC Davis, USA and the University Tuebingen. Bernd Pichlers's lab is focussing on small animal and translational imaging and performs research in the fields of oncology, neurology, cardiovascular and infectious diseases.
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Education and qualifications

2007	Postdoctoral thesis (Habilitation) in Preclinical Imaging, Title "Molekulare Bildgebung in der Präklinischen Forschung", Eberhard Karls University Tübingen, Mentor: Prof. Dr. C. Claussen
2001	Doctoral thesis in Physics, Technische Universität München, Mentor: Prof. Dr. M. Schwaiger/Prof. Dr. Ziegler
1992 - 1997	College of Electrical Engineering, Biomedical Engineering, at the Technische Universität München, Diploma of Electrical Engineering, Biomedical Engineering

Work Experience

Since 2014	Research Director of the Department of Radiology, Eberhard Karls Universität Tübingen, Germany
Since 2008	Full Professor (W3) and Head of the Laboratory for Preclinical Imaging and Imaging Technology of the Werner Siemens-Foundation; Department of Radiology, Eberhard Karls University Tübingen
Since 2005	Head of the Laboratory for Preclinical Imaging and Imaging Technology; Department of Radiology of the Eberhard Karls University Tübingen
2003 – 2004	Assistant Biomedical Research Engineer (Assistant Research Professor), Department of Biomedical Engineering, University of California, Davis, USA
2001 – 2002	Postdoctoral Research Fellow at the Clinic of Nuclear Medicine (Prof. Schwaiger) at the Technische Universität München

Teaching Experience

Until 2017	Supervision of 26 doctoral theses (completed) Supervision of 26 diploma/master/bachelor theses (completed)
Currently	Supervision of 23 doctoral theses

Additional Qualifications and Skills

2014 – 2015	President of the European Society for Molecular Imaging (ESMI)
Since 2011	Deputy Managing Director (Responsible for Research) of the Department of Radiology, Eberhard Karls University Tübingen
2010	Highlight paper in the Journal “Physics in Medicine and Biology”
Since 2008	Cooptation as Professor at the Faculty of Mathematics and Physics of the Eberhard Karls University Tübingen
Board member	World Molecular Imaging Society (WIMS); European Society for Molecular Imaging (ESMI); Helmholtz-Zentrum, Dresden-Rossendorf (Advisory Board)
Reviewer	Scientific Journals: Nature Medicine, Proceedings of the National Academy of Sciences, IEEE Transactions on Medical Imaging, IEEE Transactions on Nuclear Science, European Journal of Radiology, Radiology, Journal of Nuclear Medicine, Scientific Journal: Physics in Medicine & Biology, Nuclear Instruments and Methods in Physics Research, European Journal of Nuclear Medicine and Molecular Imaging, Molecular Imaging; German Research Foundation (DFG), Tiroler Wissenschaftsfond, Swiss National Science Foundation, Wellcome trust, England, Annual Meetings: IEEE Medical Imaging Conference, Deutsche Gesellschaft für Nuklearmedizin, Society of Nuclear Medicine, World Molecular Imaging Congress
Advisor	Siemens Preclinical Solutions, Knoxville, TN, USA; Lecturer: Northern California PET Imaging Center, Sacramento, USA: PET preceptor course (CME credits) 2004

Publications

		5-year Impact
2018	186. Schmidt F, Kolb A, Pichler BJ , Optimization, evaluation and calibration of a cross-strip DOI detector. Phys Med Biol. 2018 Jan 31. [Epub ahead of print]	3.104
	185. Hage C, Gremse F, Griessinger CM, Maurer A, Hoffmann SHL, Osl F, Pichler BJ , Kiessling F, Scheuer W, Pöschinger T. Comparison of the Accuracy of FMT/CT and PET/MRI for the Assessment of Antibody Biodistribution in Squamous Cell Carcinoma Xenografts. J Nucl Med. 2018 Jan;59(1):44-50.	6.459
	184. Connert T, Judenhofer MS, Hülber-J M, Schell S, Mannheim JG, Pichler BJ , Löst C, ElAyouti A. Evaluation of the accuracy of nine electronic apex locators by using Micro-CT. Int Endod J. 2018 Feb;51(2):223-232.	3.089
	183. Bailey DL, Pichler BJ , Gückel B, Antoch G, Barthel H, Bhujwalla ZM, Biskup S, Biswal S, Bitzer M, Boellaard R, Braren RF, Brendle C, Brindle K, Chiti A, la Fougère C, Gillies R, Goh V, Goyen M, Hacker M, Heukamp L, Knudsen GM, Krackhardt AM, Law I, Morris JC, Nikolaou K, Nuyts J, Ordonez AA, Pantel K, Quick HH, Riklund K, Sabri O, Sattler B, Troost EGC, Zaiss M, Zender L, Beyer T. Combined PET/MRI: Global Warming-Summary Report of the 6th International Workshop on PET/MRI, March 27-29, 2017, Tübingen, Germany. Mol Imaging Biol. 2017 Oct 2. [Epub ahead of print]	2.726
2017	182. Napieczynska H, Severin GW, Fonslet J, Menegakis A, Wiehr S, Pichler BJ , Calaminus C. Imaging neuronal pathways with 52 Mn PET in rats. J Cereb Blood Flow Metab. 2017;37 1:149-149	5.081
	181. Marciano S, Kuebler L, Maurer A, Pichler BJ , Herfert K. Evaluation of CRISPr/Cas9 induced gene knockdown in primary neurons and N27 cells. J Cereb Blood Flow Metab. 2017;37 1:479-480	5.081

180. Herfert K, Landeck N, Kuebler L, Maurer A, Kirik D, Pichler BJ. Identifying biomarkers of alpha-synuclein pathology using multiparametric imaging. **J Cereb Blood Flow Metab.** 2017;37 1:150-150 5.081
179. Amend M, Watabe T, Thielcke A, Stumm R, Hatazawa J, Pichler B, Wehrl H. Simultaneous PET/MRI depicts changes in serotonin transporters, glucose metabolism and multimodal brain connectivity patterns after pharmacological stimulation. **J Cereb Blood Flow Metab.** 2017;27 1:76-77 5.081
178. Schell S, Judenhofer MS, Mannheim JG, Hülber-J M, Löst C, Pichler BJ, ElAyouti A. Validity of longitudinal sections for determining the apical constriction. **Int Endod J.** 2017 Jul;50(7):706-712. 3.089
177. Napieczynska H, Severin GW, Fonslet J, Wiehr S, Menegakis A, Pichler BJ, Calaminus C. Imaging neuronal pathways with ⁵²Mn PET: Toxicity evaluation in rats. **Neuroimage.** 2017 Sep;158:112-125. 6.943
176. Parl C, Kolb A, Schmid AM, Wehrl HF, Disselhorst JA, Soubiran PD, Stricker-Shaver D, Pichler BJ. A novel optically transparent RF shielding for fully integrated PET/MRI systems. **Phys Med Biol.** 2017 Sep 1;62(18):7357-7378. 3.104
175. Davies G, Rolle AM, Maurer A, Spycher PR, Schillinger C, Solouk-Saran D, Hasenberg M, Weski J, Fonslet J, Dubois A, Boschetti F, Denat F, Gunzer M, Eichner M, Ryder LS, Jensen M, Schibli R, Pichler BJ, Wiehr S, Thornton CR. Towards Translational ImmunoPET/MR Imaging of Invasive Pulmonary Aspergillosis: The Humanised Monoclonal Antibody JF5 Detects Aspergillus Lung Infections In Vivo. **Theranostics** 2017 Aug 11;7(14):3398-3414 9.195
174. Thunemann M, Schörg BF, Feil S, Lin Y, Voelkl J, Golla M, Vachaviolos A, Kohlhofer U, Quintanilla-Martinez L, Olbrich M, Ehrlichmann W, Reischl G, Griessinger CM, Langer HF, Gawaz M, Lang F, Schäfers M, Kneilling M, Pichler BJ, Feil R. Cre/lox-assisted noninvasive in vivo tracking and quantification of specific cell populations by positron emission tomography. **Nat Commun.** 2017 Sep 5;8(1):444. 13.092
173. Castaneda Vega S, Weinl C, Calaminus C, Wang L, Harant M, Ehrlichmann W, Thiele D, Kohlhofer U, Reischl G, Hempel JM, Ernemann U, Quintanilla Martinez L, Nordheim A, Pichler BJ. Characterization of a novel murine model for spontaneous hemorrhagic stroke using in vivo PET and MR multiparametric imaging. **Neuroimage.** 2017 Jul 15;155:245-256. 6.943
172. Mannheim JG, Schmid AM, Pichler BJ. Influence of Co-57 and CT Transmission Measurements on the Quantification Accuracy and Partial Volume Effect of a Small Animal PET Scanner. **Mol Imaging Biol.** 2017 Dec;19(6):825-836. 2.726
171. Katiyar P, Divine MR, Kohlhofer U, Quintanilla-Martinez L, Schölkopf B, Pichler BJ, Disselhorst JA. A Novel Unsupervised Segmentation Approach Quantifies Tumor Tissue Populations Using Multiparametric MRI: First Results with Histological Validation. **Mol Imaging Biol.** 2017; 19(3): 391–397. 2.726
170. Hoffmann SHL, Maurer A, Reck DI, Reischl G, Pichler BJ, Kneilling M, Griessinger CM. Murine 1.113

Lymphocyte Labeling by ⁶⁴Cu-Antibody Receptor Targeting for In Vivo Cell Trafficking by PET/CT. **J Vis Exp**. 2017 Apr 29;(122).

169. Katiyar P, Divine MR, Kohlhofer U, Quintanilla-Martinez L, Schölkopf B, Pichler BJ, Disselhorst JA. Spectral Clustering Predicts Tumor Tissue Heterogeneity Using Dynamic ¹⁸F-FDG PET: A Complement to the Standard Compartmental Modeling Approach. **J Nucl Med**. 2017 Apr;58(4):651-657. 6.459
168. Haubner R, Schmid AM, Maurer A, Rangger C, Roig LG, Pichler BJ, Virgolini IJ. [⁶⁸Ga]NOTA-Galactosyl Human Serum Albumin: a Tracer for Liver Function Imaging with Improved Stability. **Mol Imaging Biol**. 2017 Oct;19(5):723-730. 2.726
167. Fuchs K, Kuehn A, Mahling M, Guenthoer P, Hector A, Hartl D, Laufer S, Kohlhofer U, Quintanilla-Martinez L, Reischl G, Röcken M, Pichler BJ, Kneilling M. In vivo hypoxia PET imaging quantifies the severity of arthritic joint inflammation in line with overexpression of HIF and enhanced ROS generation. **J Nucl Med**. 2017 May;58(5):853-860. 6.459
- 2016** 166. Maier FC, Schmitt J, Maurer A, Ehrlichmann W, Reischl G, Nikolaou K, Handgretinger R, Pichler BJ, Thaiss WM. Correlation between positron emission tomography and Cerenkov luminescence imaging in vivo and ex vivo using ⁶⁴Cu-labeled antibodies in a neuroblastoma mouse model. **Oncotarget**. 2016 Oct 11;7(41):67403-67411. 5.415
165. Schweifer A, Maier F, Ehrlichmann W, Lamparter D, Kneilling M, Pichler BJ, Hammerschmidt F, Reischl G: [¹⁸F]Fluoro-azomycin-2'-deoxy-β-d-ribofuranoside - A new imaging agent for tumor hypoxia in comparison with [¹⁸F]FAZA. **Nucl Med Biol**. 2016 Dec;43(12):759-769. 2.299
164. Wiehr S, Rolle AM, Warnke P, Kohlhofer U, Quintanilla-Martinez L, Reischl G, Autenrieth IB, Pichler BJ, Autenrieth SE: The Positron Emission Tomography Tracer 3'-Deoxy-3'-[¹⁸F]Fluorothymidine ([¹⁸F]FLT) Is Not Suitable to Detect Tissue Proliferation Induced by Systemic *Yersinia enterocolitica* Infection in Mice. **PLoS One**. 2016 Oct; 11(10): e0164163. 3.535
163. Bailey DL, Pichler BJ, Gückel B, Barthel H, Beer AJ, Botnar R, Gillies R, Goh V, Gotthardt M, Hicks RJ, Lanzenberger R, la Fougere C, Lentschig M, Nekolla SG, Niederdraenk T, Nikolaou K, Nuyts J, Olego D, Riklund KÅ, Signore A, Schäfers M, Sossi V, Suminski M, Veit-Haibach P, Umutlu L, Wissmeyer M, Beyer T: Combined PET/MRI: from Status Quo to Status Go. Summary Report of the Fifth International Workshop on PET/MR Imaging; February 15-19, 2016; Tübingen, Germany. **Mol Imaging Biol**. 2016 Oct;18(5):637-50. 2.467
162. Pichler B: Multimodal Imaging of Infections - In- vivo-Visualization of Pathogen-Host-Interaction. **JDDG**. 2016 Aug. Volume: 14 Special Issue: SI Supplement: 3 Pages: 55-55 Meeting Abstract: LV8 2.279
161. Eckert F, Schmitt J, Zips D, Krueger MA, Pichler BJ, Gillies SD, Strittmatter W, Handgretinger R, Schilbach K: Enhanced binding of necrosis-targeting immunocytokine NHS-IL12 after local tumor irradiation in murine xenograft models. **Cancer Immunol Immunother**. 2016;65(8): 1003-13. 4.011
160. Schmitz J, Schwab J, Schwenck J, Chen Q, Quintanilla-Martinez L, Hahn M, Wietek B, Schwenzer N, Staebler A, Kohlhofer U, Aina OH, Hubbard NE, Reischl G, Borowsky AD, Brucker S, Nikolaou K, La Fougère C, Cardiff RD, Pichler BJ, Schmid AM: Decoding intratumoral heterogeneity of breast cancer by multiparametric in vivo imaging: A translational study. **Cancer Res**. 2016 Sep 9.241

- 15;76(18):5512-22.
159. Schwenck J, Mehling R, Pichler B, Rocken M, Kneilling M. In vivo dynamics of reactive oxygen species (ROS) and NF- κ B activation during acute and chronic contact hypersensitivity reaction (CHSR). **J Invest Dermatol**. 2016 Sep 136 Suppl. 2 (9):S236-S236. 6.475
 158. Schörg BF, Krüger D, Griessinger C M, Pichler B, Kneilling , Quintanilla-Martinez L, Schaller M, Roecken M. Tumor antigen (TA) specific Th1 cells combined with immune checkpoint blockade induces tumor regression even in mice with progressed cancer. **J Invest Dermatol**. 2016 Sep;136 Suppl. 2 (9):S191-S191. 6.475
 157. Niessner H, Schmitz J, Tabatabai G, Schmid A, Calaminus C, Sinnberg T, Weide B, Eigentler TK, Garbe C, Schittek B, Quintanilla-Fend L, Bender B, Mai M, Praetorius C, Beisert S, Schackert G, Muders M, Meinhardt M, Baretton GB, Dummer R, Flaherty KT, Pichler BJ, Kulms D, Westphal D, Meier F: PI3K pathway inhibition achieves potent antitumor activity in melanoma brain metastases in vitro and in vivo. **Clin Cancer Res**. 2016 Dec 1;22(23):5818-5828. 9.241
 156. Mannheim JG, Schlichthaerle T, Kuebler L, Quintanilla-Martinez L, Kohlhofer U, Kneilling M, Pichler BJ: Comparison of small animal CT contrast agents. **Contrast Media Mol Imaging**. 2016 Jul;11(4):272-84. 2.950
 155. Schell S, Judenhofer MS Mannheim J, Hülber-J M, Löst C, Pichler BJ, ElAyouti A: Validity of longitudinal sections for determining the apical constriction. **Int Endod J**. 2017 Jul;50(7):706-712. 2.794
 154. Chen H; Fajol A; Hoene M; Zhang B; Schleicher ED; Lin Y; Calaminus C; Pichler BJ; Weigert C; Haring HU; Lang F; Foller, M: PI3K-resistant GSK3 controls adiponectin formation and protects from metabolic syndrome. **Proc Natl Acad Sci U S A**. 2016 May 17, 113(20):5754-9. 9.423
 153. Honndorf VS, Wiehr S, Rolle AM, Schmitt J, Kreft L, Quintanilla-Martinez L, Kohlhofer U, Reischl G, Maurer A, Boldt K, Schwarz M, Schmidt H, Pichler BJ: Preclinical evaluation of the anti-tumor effects of the natural isoflavone genistein in two xenograft mouse models monitored by [18F]FDG, [18F]FLT, and [64Cu]NODAGA-cetuximab small animal PET. **Oncotarget**. 2016 May 10;7(19):28247-61. 6.368
 152. Wiehr S, Warnke P, Rolle AM, Schütz M, Oberhettinger P, Kohlhofer U, Quintanilla-Martinez L, Maurer A, Thornton C, Boschetti F, Reischl G, Autenrieth IB, Pichler BJ, Autenrieth SE: New pathogen-specific immunoPET/MR tracer for molecular imaging of a systemic bacterial infection. **Oncotarget**. 2016 Mar 8;7(10):10990-1001. 6.368
 151. Rolle AM, Hasenberg M, Thornton CR, Solouk-Saran D, Männ L, Weski J, Maurer A, Fischer E, Spycher PR, Schibli R, Boschetti F, Stegemann-Koniszewski S, Bruder D, Severin GW, Autenrieth SE, Krappmann S, Davies G, Pichler BJ, Gunzer M, Wiehr S: ImmunoPET/MR imaging allows specific detection of *Aspergillus fumigatus* lung infection in vivo. **Proc Natl Acad Sci U S A**. 2016 Feb 23;113(8):E1026-33. 10.472
 150. Divine MR, Katiyar P, Kohlhofer U, Quintanilla-Martinez L, Pichler BJ, Disselhorst JA: A Population-Based Gaussian Mixture Model Incorporating 18F-FDG PET and Diffusion-Weighted MRI Quantifies Tumor Tissue Classes. **J Nucl Med**. 2016 Mar;57(3):473-9. 6.527

149. Walker M, Ehrlichmann W, Stahlschmidt A, Pichler BJ, Fischer K: In Vivo Evaluation of ¹¹C-DASB for Quantitative SERT Imaging in Rats and Mice. **J Nucl Med**. 2016 Jan;57(1):115-21. 6.527
148. Leibrock CB, Alesutan I, Voelkl J, Michael D, Castor T, Kohlhofer U, Quintanilla-Martinez L, Kübler L, Mannheim JG, Pichler BJ, Rosenblatt KP, Kuro-O M, Lang F: Acetazolamide sensitive tissue calcification and aging of klotho-hypomorphic mice. **J Mol Med (Berl)**. 2016 Jan;94(1):95-106. 4.690
147. Honndorf VS, Schmidt H, Wiehr S, Wehrl HF, Quintanilla-Martinez L, Stahlschmidt A, Barjat H, Emmas SA, Pichler BJ: The Synergistic Effect of Selumetinib/Docetaxel Combination Therapy Monitored by [(18) F]FDG/[(18) F]FLT PET and Diffusion-Weighted Magnetic Resonance Imaging in a Colorectal Tumor Xenograft Model. **Mol Imaging Biol**. 2016 Apr;18(2):249-57. 3.519
- 2015 146. Clemens LE, Weber JJ, Wlodkowski TT, Yu-Taeger L, Michaud M, Calaminus C, Eckert SH, Gaca J, Weiss A, Magg JC, Jansson EK, Eckert GP, Pichler BJ, Bordet T, Pruss RM, Riess O, Nguyen HP: Olesoxime suppresses calpain activation and mutant huntingtin fragmentation in the BACHD rat. **Brain**. 2015 Dec;138(Pt 12):3632-53. 10.545
145. Bailey DL, Pichler BJ, Gückel B, Barthel H, Beer AJ, Bremerich J, Czernin J, Drzezga A, Franzius C, Goh V, Hartenbach M, Iida H, Kjaer A, la Fougère C, Ladefoged CN, Law I, Nikolaou K, Quick HH, Sabri O, Schäfer J, Schäfers M, Wehrl HF, Beyer T: Combined PET/MRI: Multi-modality Multi-parametric Imaging Is Here: Summary Report of the 4th International Workshop on PET/MR Imaging; February 23-27, 2015, Tübingen, Germany. **Mol Imaging Biol**. 2015 Oct;17(5):595-608. 3.519
144. Schilbach K, Alkhaled M, Welker C, Eckert F, Blank G, Ziegler H, Sterk M, Müller F, Sonntag K, Wieder T, Braumüller H, Schmitt J, Eyrych M, Schleicher S, Seitz C, Erbacher A, Pichler BJ, Müller H, Tighe R, Lim A, Gillies SD, Strittmatter W, Röcken M, Handgretinger R: Cancer-targeted IL-12 controls human rhabdomyosarcoma by senescence induction and myogenic differentiation. **Oncoimmunology**. 2015 Mar 19;4(7):e1014760. 6.269
143. Bezrukov I, Schmidt H, Gatidis S, Mantlik F, Schäfer JF, Schwenzler N, Pichler BJ: Quantitative Evaluation of Segmentation- and Atlas-Based Attenuation Correction for PET/MR on Pediatric Patients. **J Nucl Med**. 2015 Jul;56(7):1067-74. 6.527
142. Maier FC, Keller MD, Bukala D, Bender B, Mannheim JG, Brereton IM, Galloway GJ, Pichler BJ. Quantification of beta-amyloidosis and rCBF with dedicated PET, 7 T-MR imaging and high-resolution microscopic MR imaging at 16.4 T in APP23 mice. **J Nuc Med**. 2015 Oct;56(10):1593-9. 6.527
141. Weinl C, Castaneda Vega S, Riehle H, Stritt C, Calaminus C, Wolburg H, Mauer S, Breithaupt A, Gruber AD, Wasyluk B, Olson EN, Adams RH, Pichler BJ, Nordheim A. Endothelial depletion of murine SRF/MRTF provokes intracerebral hemorrhagic stroke. **Proc Natl Acad Sci U S A**. 2015 Aug 11;112(32):9914-9. 10.472
140. Mahling M, Fuchs K, Thaiss WM, Maier FC, Feger M, Bukala D, Harant M, Eichner M, Reutershan J, Lang F, Reischl G, Pichler BJ, Kneilling M: A comparative pO₂ probe and [18F]-fluoro-azomycinara-furanoside ([18F]FAZA) PET study reveals anesthesia-induced impairment of oxygenation and perfusion in tumor and muscle. **PLoS One**. 2015 Apr 22;10(4):e0124665. 4.015
139. Cristofanon S, Abhari BA, Krueger M, Tchoghandjian A, Momma S, Calaminus C, Vucic D, Pichler BJ, Fulda S: Identification of RIP1 as a critical mediator of Smac mimetic-mediated sensitization

- of glioblastoma cells for Drozitumab-induced apoptosis. **Cell Death Dis.** 2015 April 16;6:e1724.
138. Kolb A, Sauter AW, Eriksson LA, Vandenbrouke A, Liu CC, Levin CS, Pichler BJ, Rafecas M: Shine-through in PET/MRI: effects of the magnetic field on positron range and subsequent image artifacts. **J Nucl Med.** 2015 Mar 12;56(6):951-4 6.527
137. Schwenck J, Griessinger CM, Fuchs K, Bukala D, Bauer N, Eichner M, Röcken M, Pichler BJ, Kneilling M: In vivo optical imaging of matrix metalloproteinase activity detects acute and chronic contact hypersensitivity reactions and enables monitoring of the antiinflammatory effects of N-acetylcysteine. **Mol Imaging.** 2014 Mar 1;(0):1-12. 3.295
136. Bailey DL, Antoch G, Bartenstein P, Barthel H, Beer AJ, Bisdas S, Bluemke DA, Boellaard R, Claussen CD, Franzius C, Hacker M, Hricak H, la Fougère C, Gückel B, Nekolla SG, Pichler BJ, Purz S, Quick HH, Sabri O, Sattler B, Schäfer J, Schmidt H, van den Hoff J, Voss S, Weber W, Wehrl HF, Beyer T: Combined PET/MR: The Real Work Has Just Started. Summary Report of the Third International Workshop on PET/MR Imaging; February 17-21, 2014, Tübingen, Germany. **Mol Imaging Biol.** 2015 Feb 12;17(3):297-312. 3.519
135. Wehrl HF, Sauter AW, Divine MR, Pichler BJ: Combined PET/MR: A Technology Becomes Mature. **J Nucl Med.** 2015 Feb;56(2):165-8. 6.527
134. Severin GW, Jørgensen JT, Wiehr S, Rolle AM, Hansen AE, Maurer A, Hasenberg M, Pichler B, Kjær A, Jensen AI: The impact of weakly bound ⁸⁹Zr on preclinical studies: Non-specific accumulation in solid tumors and aspergillus infection. **Nucl Med Biol.** 2015 Apr;42(4):360-8. 2.458
133. Sauter AW, Schwenzer N, Divine MR, Pichler BJ, Pfannenbergl C: Image-derived biomarkers and multimodal imaging strategies for lung cancer management. **Eur J Nucl Med Mol Imaging.** 2015 Apr;42(4):634-43. 4.756
132. Rolle AM, Soboslay PT, Reischl G, Hoffmann WH, Pichler BJ, Wiehr S: Evaluation of the Metabolic Activity of Echinococcus multilocularis in Rodents Using Positron Emission Tomography Tracers. **Mol Imaging Biol.** 2015 Jan 6;17(4):512-20. 3.519
131. Griessinger CM, Maurer A, Kesenheimer C, Kehlbach R, Reischl G, Ehrlichmann W, Bukala D, Harant M, Cay F, Brück J, Nordin R, Kohlhöfer U, Rammensee HG, Quintanilla-Martinez L, Schaller M, Röcken M, Pichler BJ, Kneilling M: ⁶⁴Cu antibody-targeting of the T-cell receptor and subsequent internalization enables in vivo tracking of lymphocytes by PET. **Proc Natl Acad Sci U S A.** 2015 Jan 27;112(4):1161-6. 10.472
130. Schwenck J, Tabatabai G, Skardelly M, Reischl G, Beschorner R, Pichler B, la Fougère C: In vivo visualization of prostate-specific membrane antigen in glioblastoma. **Eur J Nucl Med Mol Imaging.** 2015 Jan;42(1):170-1. 4.756
129. Wehrl HF, Bezrukov I, Wiehr S, Lehnhoff M, Fuchs K, Mannheim JG, Quintanilla-Martinez L, Kohlhöfer U, Kneilling M, Pichler BJ, Sauter AW: Assessment of murine brain tissue shrinkage caused by different histological fixatives using magnetic resonance and computed tomography imaging. **Histol Histopathol.** 2015 May;30(5):601-13. 2.312
128. Umbach AT, Zhang B, Daniel C, Fajol A, Velic A, Hosseinzadeh Z, Bhavsar SK, Bock CT, Kandolf R, Pichler BJ, Amann KU, Föllner M, Lang F: Janus kinase 3 regulates renal 25-hydroxyvitamin D 1 α -hydroxylase expression, calcitriol formation, and phosphate metabolism. **Kidney Int.** 2015 6.341

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127. Honndorf VS, Schmidt H, Wehrl HF, Wiehr S, Ehrlichmann W, Quintanilla-Martinez L, Barjat H, Ricketts SA, Pichler BJ: Quantitative Correlation at the Molecular Level of Tumor Response to Docetaxel by Multimodal Diffusion-Weighted Magnetic Resonance Imaging and [18F]FDG/[18F]FLT Positron Emission Tomography. **Mol Imaging**. 2014 Nov 1;13(0):1-12. 3.295
 126. Maier FC, Wehrl HF, Schmid AM, Mannheim JG, Wiehr S, Lerdkrai C, Calaminus C, Stahlschmidt A, Ye L, Burnet M, Stiller D, Sabri O, Reischl G, Staufenbiel M, Garaschuk O, Jucker M, Pichler BJ: Longitudinal PET-MRI reveals β -amyloid deposition and rCBF dynamics and connects vascular amyloidosis to quantitative loss of perfusion. **Nat Med**. 2014 Dec;20(12):1485-92. 26.418
 125. Fahkri H, Zhang B, Fajol A, Hernando N, Elvira B, Mannheim JG, Pichler BJ, Daniel C, Amann K, Hirao A, Haight J, Mak TW, Lang F, Föllner M.: Checkpoint kinase Chk2 controls renal Cyp27b1 expression, calcitriol formation, and calcium-phosphate metabolism. **Pflugers Arch**. 2015 Sep;467(9):1871-80. 3.615
 124. Schwenck J, Griessinger CM, Fuchs K, Bukala D, Bauer N, Eichner M, Röcken M, Pichler BJ, Kneilling M: In vivo optical imaging of matrix metalloproteinase activity detects acute and chronic contact hypersensitivity reactions and enables monitoring of the antiinflammatory effects of N-acetylcysteine. **Mol Imaging**. 2014 Nov 1;13(0):1-12. 3.295
 123. Nittka S, Krueger MA, Shively JE, Boll H, Brockmann MA, Doyon F, Pichler BJ, Neumaier M : Radioimmunoimaging of liver metastases with PET using a ⁶⁴Cu-labeled CEA antibody in transgenic mice. **PLoS One**. 2014 Sep 16;9(9):e106921. 4.015
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	4.	<u>Pichler BJ</u> , Bernecker F, Böning G, Rafecas M, Pimpl W, Schwaiger M, Lorenz E, Ziegler SI: A 4x8 APD array, consisting of two monolithic silicon wafers, coupled to a 32-channel LSO matrix for high resolution PET. IEEE Trans. Nucl. Sci. , 2001 Aug;48(4):1391-1396.	1.390

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1999	2.	<u>Pichler BJ</u> , Böning G, Rafecas M, Schlosshauer M, Lorenz E, Ziegler SI: LGSO scintillation crystals coupled to new large area APDs compared to LSO and BGO. IEEE Trans. Nucl. Sci. , 1999 Jun;46(3):289-291.	1.390
1998	1.	<u>Pichler BJ</u> , Böning G, Lorenz E, Mirzoyan R, Pimpl W, Schwaiger M, Ziegler SI: Studies with a prototype high resolution PET scanner based on LSO-APD modules. IEEE Trans. Nucl. Sci. , 1998 45(3):1298-1302.	1.390

Patents

2016		<i>Use of quinoxaline derivatives useful in imaging method for pancreas including Langerhans islets, preferably beta-cells, and receptor for glucagon-like peptide 1 receptor and as diagnostic agent.</i> Inventors: Bowden, Gregory; <u>Pichler, Bernd</u> ; Michelotti, Filippo; Schmidt-Honndorf, Valerie; Cotton, Jonathan; Kesenheimer, Christian. <i>DE102014112747 A1 ; WO2016034708 A1</i>
2015		<i>Method for the temporal calibration of a switched capacitor array.</i> Inventors: <u>Pichler, Bernd</u> ; Stricker-Shaver, Daniel; Kolb, Armin; Parl, Christoph; Ritt, Stefan. <i>WO2015051824 A1, EP3055866 A1</i>
2015		<i>Measuring unit for a combined pet-mr system.</i> Inventors: <u>Pichler, Bernd</u> ; Kolb, Armin; Wehrl, Hans; Parl, Christoph. <i>DE102013108497 A1, WO2015018894 A1</i>
2014		<i>Halogenated Benzoxazines and their use.</i> Inventors: Kesenheimer, Christian; Maier, Florian; Stumm, Ramona; <u>Pichler, Bernd</u> . <i>WO2014032732 A1, US20150166572 A1, EP 2890700 A1</i>
2014		<i>Senecence Tracers.</i> Inventors: Cotton, Jonathan; <u>Pichler, Bernd</u> ; Fuchs, Kerstin; Teske, Anna; Krueger, Marcel; Kesenheimer, Christian; Schulze-Osthoff, Klaus; Hildebrand Dominic. <i>WO2014032737A1, US2015168374 A1, EP 2890981 A1</i>
2012		<i>Gamma detector based on geigermode avalanche photodiodes.</i> Inventors: <u>Bernd Pichler</u> , Armin Kolb, Eckhard Lorenz. <i>US20140246594 A1, EP2707751 A2, WO2012152587 A2, WO2012152587 A3</i>
2008		<i>Method for determining a property map of an object, particularly of a living being, based on at least a first image, particularly a magnetic resonance image.</i> Inventors: <u>Pichler, Bernd</u> ; Hofmann, Matthias; Scholkopf, Bernhard; Steinke, Florian. <i>DE102006033383 A1, WO2008006451 A1, EP2041719 A1, US20100049032 A1</i>
2006		<i>An integrated PET-MR scanner.</i> Inventors: Cherry; Simon, Catana; Ciprian, Pichler; Bernd J. <i>US20080214927 A1, US7835782 B2, WO2006119085A2, WO2006119085A3</i>
2006		<i>Combined PET/MR imaging system and APD-based pet detector for use in simultaneous PET/MR imaging.</i> Inventors: Schmand, Matthias J.; Grazioso, Ron; Nutt, Ronald; Nutt, Robert E.; Zhang, Nan; Corbeil, James Luke; Ladebeck, Ralf; Vester, Markus; Schnur, Gunter; Renz, Wolfgang; Fischer, Hubertus; <u>Pichler, Bernd J.</u> <i>WO2006071922 A2, EP1853161 A2, CA2592685 A1, US20150369890 A1</i>

Invited Talks

- 2017**
- 144. Pichler BJ: German Imaging Science in European Context. eMed Meeting, Göttingen, 22. November, 2017
 - 143. Pichler BJ: Multiparametric Imaging in Preclinical and Translational Research. MD Anderson, Houston, 02. November, 2017
 - 142. Pichler BJ: The benefits of Simultaneous Imaging. PET/MRI Workshop, Chicago, 28. October, 2017
 - 141. Pichler BJ: Multiparametric Imaging in Preclinical and Translational Research. Johns Hopkins, Baltimore, 23. October, 2017
 - 140. Pichler BJ: Multimodal Imaging in Preclinical Research and Clinical Translation. Symposium Translational Imaging, Ulm, 04. October, 2017
 - 139. Pichler BJ: Molekulare Bildgebung – Geräte. Nuklearmedizinisches Symposium, München, 15 September 2017
 - 138. Pichler BJ: Multiparametric Imaging: Beyond Fusion of Anatomy and Function. Basel, 07. September, 2017
 - 137. Pichler BJ: Current Multimodal Imaging. MDS 2017, Vancouver, 05. June, 2017
 - 136. Pichler BJ: Combining multiparametric imaging data with –omics information for precision medicine. MEDAMI, Orsei, 31. May, 2017
 - 135. Pichler BJ: Role of Quantitative Preclinical Imaging to Enhance Precision Health and Medicine. MPIC 2017, Nashville, 14. May, 2017
 - 134. Pichler BJ: PET/MR Imaging in Preclinical and Translational Research. The 90th Annual Meeting of the Japanese Pharmacological Society , Nagasaki, 16 March, 2017
 - 133. Pichler BJ: In vivo tracking of lymphocytes by PET. Salzburg Breast Cancer Talk, Salzburg, 10 February 2017
- 2016**
- 132. Pichler BJ: Multimodal PET/MR Imaging in Preclinical Research and Clinical Translation. ESMRMB 33rd Annual Scientific Meeting, Wien, 29 September 2016
 - 131. Pichler BJ: Non-invasive in vivo imaging to track immune and cancer cells, ZTZ Symposium "Oncology meets Immunology: Opening Symposium of the Center for Translational Cell Research", Freiburg, 16 August 2016
 - 130. Pichler BJ: "PET/MRI: Multiparametric Imaging in Preclinical & Translational Research, Limits of Perception, The physiological society, Warwick, 09 August 2016
 - 129. Pichler BJ: Multimodale Bildgebung von Infektionen – In-vivo-Visualisierung der Erreger-Wirt Interaktion, Leopoldina Symposium, Berlin, 06 July 2016

128. Pichler BJ: Funktionelle & Molekulare Bildgebung, Retreat ZPM, Allensbach, 24 March 2016
127. Pichler BJ: Multiparametrische Bildgebung in der präklinischen und translationalen Forschung, Kolloquien der Klinik für Nuklearmedizin, MHH, Hannover, 23. March 2016
- 2015**
126. Pichler BJ: PET/MR: Multiparametric Imaging in Preclinical and Translational Research. JHU ICMIC SEMINAR SERIES, Johns Hopkins University School of Medicine, Baltimore, 9. December, 2015
125. Pichler BJ: Simultaneous MR/PET studies. PET/MR Symposium DZNE Magdeburg, 24. November, 2015
124. Pichler BJ: Longitudinal PET-MRI reveals b-amyloid deposition and rCF dynamics and connects vascular amyloidosis to quantitative loss of perfusion. 15th EIBSEE Meeting on Cellular Mechanisms of Neurodegeneration, Eibsee, 28-30 October, 2015
123. Pichler BJ: Präklinische Forschung in der Radiologie. Symposium "Strahlenforschung in der Medizin – Relevanz und Perspektiven". Leopoldina, Halle (Saale), 8-9 May, 2015
122. Pichler BJ: Technik und translationale PET-MRT. Deutscher Röntgenkongress, Hamburg, 13-16 May, 2015
121. Pichler BJ: Molecular Imaging – Part 1. 10th International Conference on Radiopharmaceutical Therapy, Innsbruck, Austria, 3-8 May, 2015
120. Pichler BJ: Highlight-Lecture NuklearMedizin 2015, 53. Jahrestagung of the DGN, Hannover, April 2015
119. Pichler BJ: Translationale PET/MR Bildgebung und mögliche zukünftige klinische Anwendungen. MEDISO, 53. Jahrestagung of the DGN, Hannover, April 2015
118. Pichler BJ: How to get your work funded: German/european/international funding opportunities. 53. Jahrestagung of the DGN, Hannover, April 2015
117. Pichler BJ: Neue Wege in der funktionellen Bildgebung. Kongress der Deutschen Gesellschaft für Innere Medizin.V. (DGIM2015), Congress Center Rosengarten, Mannheim, Germany, 18-21 April 2015
116. Pichler BJ: Möglichkeiten der PET/MRT in der Neurokologie und Neurodegeneration, Klinisch-nuklearmedizinische Kolloquien München-Augsburg, Klinikum rechts der Isar/Technische Universität München, München, Germany
- 2014**
115. Pichler BJ: Von Mäusen und Menschen - von der präklinischen Bildgebung zur Translation, 49. Jahrestagung der Deutschen Gesellschaft für Neuroradiologie, Köln, Germany, 23-25 Oktober, 2014
114. Pichler BJ: Detector Designs, PET/MR Symposium: The New Imaging Frontier, Zurich, Switzerland, 20 June, 2014
113. Pichler BJ: The Technical Revolution of Integrated PET/MRI, Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging, St Louis, USA, 7-11 June, 2014
112. Pichler BJ: PET/MRI: Options and Challenges in Basic and Translational Research, 9th Annual Meeting of the Japanese Society for Molecular Imaging, Tokyo, Japan, 22 – 23 May, 2014
111. Pichler BJ: Translating Personalized Medicine, Symposium: A nuclear spin on Personalized Medicine,

Vienna, Austria, 16 May, 2014

- 2013**
- 110. Pichler BJ: Towards hybrid imaging of anatomy, function and molecular pathways in health and disease. Opening of the 3rd funding period of the special research field 656 "Molecular cardiovascular imaging", Muenster, Germany, 27 November 2013
 - 109. Pichler BJ: New methods for tumour functional imaging. 2013 NCRI Cancer Conference, Liverpool, Great Britain, 3-6 November 2013
 - 108. Pichler BJ: MR-PET Instrumentation & the Gains for Both Modalities. ISMRM 21st Annual Meeting & Exhibition, Salt Palace Convention Center, Salt Lake City, Utah, USA, 20-26 April 2013
 - 107. Pichler BJ: A Different Spin on Nuclear Imaging: The Role of PET/MRI in Molecular Imaging. SNMMI Mid-Winter Meeting, New Orleans, Louisiana, USA, 24 January, 2013
- 2012**
- 106. Pichler BJ: PET/MR: Novel Imaging Options in Preclinical Research and Clinical Diagnosis. Annual Congress of the European Association of Nuclear Medicine, EANM'12, Milano, Italy, 27-31 October, 2012
 - 105. Pichler BJ: Hybridverfahren: PET/CT, PET/MR, Radiochemie. Forscher für die Zukunft 2012/2013 (FFZ), Heidelberg, 25-26 October, 2012
 - 104. Pichler BJ: Multimodality operation of PET detectors with MRI/fMRI. First Mediterranean Thematic Workshop on Advanced Molecular Brain Imaging with Compact High Performance MRI Compatible PET and SPECT Imager – Potential for a Paradigm Shift. Giardini Naxos, Italy, 30 August- 3 September, 2012
 - 103. Pichler BJ: PET/MR Systems: Current Status and Future Directions. SNM Annual Meeting, Miami Beach, Florida, USA, 9-13 June, 2012
 - 102. Pichler BJ: PET/MR Application in Small Animal Brain Imaging Studies. SNM Annual Meeting, Miami Beach, Florida, USA, 9-13 June, 2012
 - 101. Pichler BJ: The search for the killer application in PET-MR. PET/MR and SPECT/MR: New Paradigms for Combined Modalities in Molecular Imaging Conference, Elba, Italy, 26-30 May, 2012
 - 100. Pichler BJ: Multimodality Imaging: PET/CT, PET/MR. The First Annual International Meeting of The Society of Molecular Imaging of Thailand: From Preclinical Research to Clinical Application, Bangkok, Thailand, 9-12 April, 2012
 - 99. Pichler BJ: Advances in MR/PET. ANS2012 Satellite Symposium on Imaging, Queensland Brain Institute, University of Queensland, 28 – 29 January, 2012
 - 98. Pichler BJ: PET/MRI and the Brain. 30th International Symposium, Radioactive Isotopes in Clinical Medicine and Research, Bad Hofgastein, Austria, 11 -13 January, 2012
- 2011**
- 97. Pichler BJ: Solutions to the MR-AC problem. Symposium "Issues and Developments in PET/MR, University Hospital, Zurich, Switzerland, 4-5 November, 2011
 - 96. Pichler BJ: How to Monitor Therapy Effects in Animal Models? CME 13 - Translational Molecular Imaging: Preclinical Models for the Characterization and Therapy of Disease, Annual Congress of the European Association of Nuclear Medicine, Birmingham, UK, 15 – 19 October, 2011

95. Pichler BJ: Multiparametric Imaging in Research. Pre-congress Symposium, Annual Congress of the European Association of Nuclear Medicine, Birmingham, UK, 15 – 19 October, 2011
94. Pichler BJ: Small Animal PET/MRI Innovations – Novel Research Applications and Challenges. Siemens Industry Workshop, WMIC, San Diego Convention Center, San Diego, USA, September 8, 2011
93. Pichler BJ: Multimodality imaging, translation to the clinic. Radiopharmacy and Radiopharmacology Symposium, ISRS Meeting, Amsterdam, The Netherlands, 28 August, 2011
92. Pichler BJ: Next generation of PET technology. x, Australia, 19 July, 2011
91. Pichler BJ: Next generation of PET technology. ANZSNM Conference, Darwin Convention Centre, Darwin, Australia, 13- 16 July, 2011
90. Pichler BJ: Preclinical Utilization of PET-MR with potential clinical uses. Breakfast Symposium Siemens, ANZSNM Conference, Darwin Conventaion Centre, Darwin, Australia, 13- 16 July, 2011
89. Pichler BJ: Site Requirement, Infrastructure and Personnel for PET/MRI in Research and Clinic. ANZSNM Conference, Darwin Conventaion Centre, Darwin, Australia, 13- 16 July, 2011
88. Pichler BJ: PET-MRI: Multiparametric Imaging in Preclinical Research and Clinical Diagnosis. ANZSNM Conference, Darwin Convention Centre, Darwin, Australia, 13- 16 July, 2011
87. Pichler BJ: PET/MR, Education Centre, Royal Brisbane and Women’s Hospital, Brisbane, Australia, 12 July, 2011
86. Pichler BJ: Whole body PET/MRI, where are we? Turku PET Symposium, 28 – 31 May, 2011, Turku, Finland
85. Pichler BJ: Preclinical imaging: Infrastructure, Organisation and Science. 39th annual meeting of the British Nuclear Medicine Society, Brighton Conference Centre, Brighton, UK, 9 May, 2011
84. Pichler BJ: PET/MRI: Multiparametric Imaging in Clinic and Research. 39th annual meeting of the British Nuclear Medicine Society, Brighton Conference Centre, Brighton, UK, 9 May, 2011
83. Pichler BJ: Preclinical and Translational Imaging in Oncology, Neurology and Immunology. AIT Health & Environment Seminar Series 2011, Vienna, Austria, 4 May, 2011
82. B.J.Pichler: PET/MRI in molecular imaging. The 2nd International Symposium on Integrated PET-MRI, Osaka, Japan, 28 - 29 January, 2011
- 2010 81. Pichler BJ: Small animal & translational imaging. The first comprehensive cancer research training program in medical oncology (CCRTP-MO). Kurhaus Hinterzarten/Black Forest, Germany, 22 -26 Semptember 2010
80. Pichler BJ: PET/MRI – a new hybrid technology for preclinical research and clinical diagnostic. Institute for Medical Physics, University Erlangen-Nürnberg, Erlangen, Germany, 30 June, 2010
79. Pichler BJ: Technik und Anwendung der kombinierten PET/MRT-Bildgebung. FZD-Kollquium, Forschungszentrum Dresden – Rosendorf, Dresden, Germany, 21 June, 2010
78. Pichler BJ: Bedeutung der molekularen Bildgebung und der Kleintierbildgebung in der Forschung und Entwicklung. Eröffnungssymposium Small Animal Imaging Center (SAIC), Charité am Campus Virchow

Klinikum, Berlin, Germany, 16 Juni, 2010

77. Pichler BJ: MR/PET: technology. 7th MAGENTOM World Summit, Shenzhen, China, 27 – 30 May, 2010
76. Pichler BJ: PET/MR imaging in mouse and men. BME Research Day, University of Technology, Eindhoven, Netherlands, 19 May, 2010
75. Pichler BJ: PET/MRI: multiparametric imaging in mice and men. Combined MR/Pet Imaging, Emory University, Atlanta, USA, 8 April, 2010
74. Pichler BJ: PET/MRI: the next generation of multimodality imaging? The 1st International Conference on Integrated PET-MRI, Senri Life Science Center Toyonaka, Osaka, Japan, 13 February, 2010
- 2009 73. Pichler BJ: Practical implementations of PET, MRI and PET/MRI in preclinical trials. Global Imaging Summit, Berlin, Germany, 21-22 October, 2009
72. Pichler BJ: Multi-modality Preclinical Imaging in Tübingen. Multi-Modality Imaging Meeting, Peter Wall Institute of the University of British Columbia, Vancouver, Canada, 28 September, 2009
71. Pichler BJ: Recent advances in preclinical imaging applications – Studies on neuro applications using multimodal imaging technology. Siemens Industry Workshop 1, World Molecular Imaging Congress, Montreal, Canada, 24 September, 2009
70. Pichler BJ: Multimodal Imaging Approaches: PET/CT and PET/MR. 442. WE-Heraeus Seminar on Molecular Imaging, Physikzentrum Bad Honnef, Bad Honnef, Germany, 4-7 October, 2009
69. Pichler BJ: Keynote lecture: MR-PET. 8th International Symposium on Highfield MR in Clinical Applications, University of Bonn, Bonn, Germany, 28-29 August, 2009
68. Pichler BJ: Von PET-CT zu MR-PET: Wo liegt die Zukunft? Symposium: Neue Dimensionen in der hybriden Bildgebung, Universitätsklinikum Essen, Essen, Germany, 27 August, 2009
67. Pichler BJ: Molecular Imaging in animal models. “Signalling Networks in Oncology: molecules, mice and men”, PhD Retreat, International Graduate School in Molecular Medicine Ulm, Ludwigsburg, Germany, 6-7 August, 2009
66. Pichler BJ: Präklinische, translationale Forschung. Innovation durch Kooperation, 2. Forschungstreffen UKT – Siemens MED, Asperg, Germany, 30-31 July, 2009
65. Pichler BJ: Functional non-invasive imaging of small animals. Symposium “Tumor Immunology meets Oncology V”, Martin Luther University Halle-Wittenberg, University Hospital, Halle-Wittenberg, Germany, 15-16 May, 2009
64. Pichler BJ: In vivo small animal imaging in oncology research. Research Seminars in Clinical Oncology, University Hospital Zurich, Zürich, Switzerland, 8 May, 2009
63. Pichler BJ: New technical developments. ACSI special focus: Molecular Imaging: Technical Advances and Translation to Clinical Practice, University Medical Center, Mannheim, Germany, 28 March, 2009
62. Pichler BJ: Molekulare Bildgebung. Tag der Tübinger Krebsforschung, Südwestdeutsches Tumorzentrum,

Tübingen, Germany, 27 March, 2009

2008

61. Pichler BJ: MR-PET: Current technical developments and clinical perspectives. 21st European Congress of Radiology (ERC), Vienna, Austria, 6 -10 March, 2009
60. Pichler BJ: PET/MRI: Hybrid Imaging in Preclinical Research and Clinic. Kolloquium Biomedizinische Technik und verwandte Gebiete, Helmholtz-Institut für Biomedizinische Technik der RWTH Aachen, Aachen, Germany, 5 February 2009
59. Pichler BJ: PET/MRI: the next generation of simultaneous multi-parametric imaging. 7th Biennial Meeting of ANZMAG, Couran Cove, Queensland, Australia, 7-11 Dec, 2008
58. Pichler BJ: PET/MRI Small Animal Imaging. Inauguration of the refernce site for small animal molecular imaging, INFINITY (Innovative Flemish In Vivo Imaging Technology), University of Gent, Belgium, 28 November 2008
57. Pichler BJ: Development and impact of multimodality imaging devices. Bayer Schering Pharma Life Science Workshop Series "Molecular Imaging for better dignosis and management of diseases", Berlin, Germany, 5-7 Nov. 2008
56. Pichler BJ: State-of-the-art of small animal MR-PET scanners. Satellite workshop "MR-PET: A Hybrid Imaging System" of the 2008 IEEE NSS/MIC Symposium, Jülich, Germany, 27-28 Oct. 2008
55. Pichler BJ: PET-MRI: Combining multi-functional and morphological information in first preclinical and clinical studies. Bat Shevar Seminar on Frontiers of Biomedical Magnetic Resonance, Safed, Israel, 20 September 2008
54. Pichler BJ: Roadmap of First in Vivo Results on Preclinical and Clinical PET/MRI. World Molecular Imaging Congress, Nice, France, 10-13 Sept. 2008
53. Pichler BJ: Latest Advances in Preclinical Imaging. Siemens Industry Workshop, Nice, France, 12 Sept. 2008
52. Pichler BJ: Operational Management of an Imaging Facility. Siemens Preclinical User Group Meeting and Workshop, Nice, France, 9 Sept. 2008
51. Pichler BJ: Small animal PET, MRI, and CT: revealing morphological and quantitative functional information from images, First International Workshop on Systems Biology, Stuttgart, Germany, June 2008
50. Pichler BJ: Multimodale Kleintierbildgebung: Die Fusion von Morphologie und Funktion, Medizinisches Symposium „Bildgebung in der Grundlagenforschung“, Alfried Krupp Wirtschaftskolleg, Greifswald, Germany, June 2008
49. Pichler BJ: Kleintier-Positronen-Emissions-Tomographie in der präklinischen Forschung. Technische, personelle und fachliche Voraussetzungen für die Anwendung des Kleintier-PET, 37. Seminar über Versuchstiere und Tierversuche, Berlin, Germany, May 2008
48. Pichler BJ: Strategien und Methoden zur Bildgebung im Millimeter- und Submillimeterbereich, Radioonkologisches Kolloquium, München, Mai 2008
47. Pichler BJ: PET/MRI in der Präklinischen Bildgebung: Erste in vivo Ergebnisse, Janus II PET-MRT, Internationales Symposium im Rahmen der 46. Jahrestagung der Deutschen Gesellschaft für

Nuklearmedizin, Leipzig, Germany, April 2008

2007

46. Pichler BJ: PET/MRI in clinical and preclinical research, 28th International Symposium "Radioactive Isotopes in Clinical Medicine and Research", Bad Hofgastein, Austria, January 2008
45. Pichler BJ: PET/MRI: a new generation of multifunctional and morphological imaging, SSCPNM congress, Lillehammer, Norway, February 2008
44. Pichler BJ: Kombinierte funktionale und morphologische Bildgebung mittels PET/MR, Klinisch Nuklearmedizinische Gespräche, Freiburg, Germany, November 2007
43. Pichler BJ: Recent achievements in correlative PET/MRI imaging, Symposium, Department of Nuclear Medicine, University Medical Center Nijmegen, Nijmegen, The Netherlands, November 2007
42. Pichler BJ: Small Animal Imaging: Neue Trends und Entwicklungen. Universitätsklinik für Nuklearmedizin und Radiodiagnostik I, Innsbruck, Austria.
41. Pichler BJ: Combined PET and MRI, 2007 Oxford Biomedical Imaging Festival, Oxford, UK, September 2007
40. Pichler BJ: Simultaneous MR and PET imaging. Bruker BioSpin MRI/MRS Users' Meeting, IHK Center, Karlsruhe, October 2007
39. Pichler BJ: PET/MRI: Tumor imaging to reveal multi-functional information. DiMI/EMIL Summer School, Prague, Czech Republic, August 2007
38. Pichler BJ: Präklinische bildgebende Verfahren in der medizinischen Forschung. Leibniz Kolleg Tübingen, Tübingen, Juni 2007
37. Pichler BJ: PET instrumentation in molecular imaging: from single modality to multimodality and beyond. European Society for Molecular Imaging, Second International Conference, Naples, Italy, June 2007
36. Pichler BJ: Recent developments in small animal PET/MRI. The annual Siemens physicists breakfast, Washington, DC, USA, June 2007
35. Pichler BJ: Combined technologies: MRI/PET, PET/CT, MRI/Optical - Instrumental aspects. Joint annual meeting ISMRM-ESMRMB, Berlin, Mai 2007
34. Pichler BJ: Combined clinical MR/PET: Feasibility of Simultaneous Imaging. Joint annual meeting ISMRM-ESMRMB, Berlin, Mai 2007
33. Pichler BJ: MRI & Nuclear. Joint annual meeting ISMRM-ESMRMB, Berlin, Mai 2007
32. Pichler BJ: Nicht invasive Micro-PET Bildgebung von atherosklerotischen Plaques bei ApoE-Mäusen. 5. Berliner PET/CT-Symposium, Berlin, Mai 2007
31. Pichler BJ: Inveon PET/CT- Neue Wege in der präklinischen Hybridbildgebung. Siemens Lunchsymposium, Hannover, April 2007

30. Pichler BJ: Simultaneous PET/MR animal imaging: First in vivo results. 45. Jahrestagung der DGN, Hannover, April 2007
29. Pichler BJ: MRI and PET. 7. Tübinger Course "Neuro-fMRI", Universität Tübingen, März 2007
28. Pichler BJ: Small animal PET imaging in oncology, neurology and cardiology. Second DIMI workshop, Milan, Italy, February 2007
27. Pichler BJ: Entwicklung eines kombinierten PET/MR Scanners. Deutsches Krebsforschungszentrum Heidelberg, Heidelberg, Januar 2007
- 2006** 26. Pichler BJ: In vivo Animal Imaging: Comparison of Optical Imaging with PET and MRI. Advanced Course on Digital Microscopy and Fluorescence Techniques in Cell Biology, German Cancer Research Center, Heidelberg, October 2006
25. Pichler BJ: Combined PET/MRI. Inauguration Prof. Anne Paans, Groningen, The Netherlands, Oktober 2006
24. Pichler BJ: In vivo Imaging of lymphocyte trafficking by PET, MRI and Optical Imaging. University Medical Center Groningen, Groningen, The Netherlands, May 2006
23. Pichler BJ: Untersuchungen mit dem micro-Imager Focus 120. Institut für Kernchemie, Universität Mainz, Mainz, Mai 2006
22. Pichler BJ: PET/MR-The way to go? Workshop DGN, Berlin, April 2006
21. Pichler BJ: In-vivo-Kleintierbildgebung: Neue Perspektiven in der Präklinischen Forschung. Siemens Lunch Symposium, Berlin, April 2006
20. Pichler BJ: Noninvasive functional imaging by high-resolution positron-emission-tomography. 18th Annual Euro Meeting, Drug Information Association, Paris, France, March 2006
19. Pichler BJ: New development in cell labelling. European Symposium on Radiopharmacy and Radiopharmaceuticals, Lucca, Italy, March 2006
18. Pichler BJ: C-11 dynamic brain studies using microPET. Siemens Preclinical Solutions Workshop, Orlando, Florida, USA, March 2006
- 2005** 17. Pichler BJ: Funktionelle Bildgebung am Kleintier. Medizinische Gesellschaft Universität Erlangen, Erlangen, Germany, Dezember 2005
16. Pichler BJ: Molekulare Bildgebung am Kleintier - Übersicht und Vergleich der verschiedenen Techniken. 13. Arbeitstreffen der AG Radiochemie/Radiopharmazie der DGN, Seefeld, Austria, Oktober 2005
15. Pichler BJ: PET-MRI: A new approach in multimodality imaging. Annual Meeting of the Society of Molecular Imaging, Cologne, Germany, September 2005
14. Pichler BJ: New Approaches in Non-Invasive Molecular Imaging: Combining PET and MRI. 5th World Congress on Alternatives & Animal Use in the Life Sciences, Berlin, Germany, August 2005
13. Pichler BJ: Labeling of cells. MIRT Workshop: "Translational Applications of Molecular Imaging and

Radionuclide Therapy", Toronto, Canada, June 2005

12. Pichler BJ: microPET: Exploring the Limits in State-of-the-Art Pre-clinical PET. Siemens Physicists' Breakfast Meeting, Toronto, Canada, June 2005
11. Pichler BJ: Animal PET: From biomedical engineering to basic research and further. Workshop 1: Animal PET, University of Oslo, Norway, May 2005
10. Pichler BJ: Preclinical imaging. Oncological Sessions, Siemens Medical Solutions, Utrecht, The Netherlands, May 2005
9. Pichler BJ: Neue Entwicklungen: PET/MRT. Deutscher Röntgenkongress, Berlin, Germany, Mai 2005
8. Pichler BJ: PET Imaging of Cell Trafficking. Biomedical imaging research Opportunities Workshop, NIH, Bethesda, USA, March 2005
- 2004** 7. Pichler BJ: High resolution positron emission tomography of rodents and primates and its potential for airway imaging. 25th Annual Meeting of the American College of Toxicology, Symposium VI, Palm Springs, California, USA, 2004
6. Pichler BJ: Small Animal Imaging by PET and the Concorde Microsystems R4 microPET System. Small Animal Imaging Training Course at the University of Massachusetts Medical School, Worcester, Massachusetts, USA, April 2004
- 1999** 5. Pichler BJ Munich LSO-APD PET: State report. Crystal Clear Meeting, CERN, Geneva, Switzerland, May 1999
4. Pichler BJ: Development of a small animal PET scanner using LSO detectors. Séminaire les caméras TEP pour petits animaux, Psychiatrische Klinik, University of Geneva (HUG), Geneva, Switzerland, May 1999
- 1998** 3. Pichler BJ: PET Cameras. Sarajevo Summer School – Physics without borders Sarajevo, Bosnien, September 1998
2. Pichler BJ: Neue Detektoren für die Nuklearmedizin. Jahrestagung der Bayerischen Gesellschaft für Nuklearmedizin, München, Germany, Juli 1998
1. Pichler BJ: Results from the Munich LSO-APD PET. Crystal Clear Meeting, CERN, Geneva, Switzerland, February 1998

Professional Memberships

since 2017	Member of the Leopoldina - National Academy of Sciences
since 2016	Member Deutsche Akademie der Technikwissenschaften (acatech)
since 2011	Member Deutsche Röntgengesellschaft (DRG)
since 2011	Member World Molecular Imaging Society (WIMS)
since 2010	Member of the European Society of Molecular Imaging (ESMI)
since 2007	Deutsche Gesellschaft für Nuklearmedizin (DGN)
2006 – 2011	Member of the Academy of Molecular Imaging (AMI)

2002 – 2011	Member of the Society of Molecular Imaging (SMI)
since 2002	Member of the Society of Nuclear Medicine (SNM, since 2012 SNMMI)
since 1999	Member, IEEE

Current Research Grants

2017 - 2021	EU H2020-MSCA-ITN-2017 Innovative Training Network towards raising and supporting the next generation of creative and entrepreneurial cross-speciality imaging experts (HYBRID) Principal Investigator: Prof. Dr. Bernd Pichler
2017 - 2020	DFG – Proposal (PI 771/14-1) Radiomarkierte Benzoxazinole – Eine einzigartige beta-Amyloid PET-Tracer Klasse, die die dichotome Detektion parenchymaler und vaskulärer beta-amyloider Ablagerungen erlaubt. Applicant: Prof. Dr. Bernd Pichler
2017-2019	BMBF - e:Med Systems Biology Supports Multiscale Analysis of Imaging, Omics and Clinical Data to Improve Diagnosis and Therapy of HCCs (MultiscaleHCC) Coordinator: Prof. Dr. Bernd Pichler
2016 – 2023	Werner Siemens-Foundation, Zug, Switzerland Werner Siemens Imaging Center Applicant: Prof. Dr. Bernd Pichler
2015 – 2018	DFG – FOR 2314 - Targeting therapeutic windows in essential cellular processes for tumor therapy Project Z02: Multiparametric and metabolic Imaging Coordinator: Prof. Dr. Bernd Pichler, Prof. Dr. Andreas Beilhack
2015 – 2019	DFG – SFB TRR 156/1 - The skin as a sensor and effector organ orchestrating local and systemic immune Projekt C03: Impact of reactive oxygen species and NF-κB signaling during skin inflammation Coordinator: Prof. Dr. Bernd Pichler, Dr. Manfred Kneilling
2014 – 2017	BMBF - e:Med Systems Biology Supports Multiscale Analysis of Imaging, Omics and Clinical Data to Improve Diagnosis and Therapy of HCCs (MultiscaleHCC) Coordinator: Prof. Dr. Bernd Pichler
2013 – 2018	EU FP7-HEALTH-2013-INNOVATION-1 Multimodal Imaging of rare Synucleinopathies (MultiSyn). WP1 leader: Prof. Dr. Bernd Pichler
2013 – 2018	EU FP7-HEALTH-2013-INNOVATION-1 New Molecular-Functional Imaging Technologies and Therapeutic Strategies for Theranostic of Invasive Aspergillosis (MATHIAS) Coordinator: Prof. Dr. Bernd Pichler
2013 – 2017	DFG - CRC 685 - Immunotherapy: Molecular Basis and Clinical Application Project B6: Non-invasive in vivo imaging of the mode and sites of action of tumor associated antigen-specific T cells Head of project: Prof. Dr. Bernd Pichler, Dr. Manfred Kneilling
2013 – 2018	EU FP7-IDEAS-ERC ADVANCED GRANT Multiparametric Tumor Imaging and Beyond: Towards Understanding in vivo Signals (IMAGELINK) Applicant: Prof. Dr. Bernd Pichler
Since 2005	more than 42,000,000€ third-party funds

Awards and Honours

since 2017	Elected Member of the Leopoldina - National Academy of Sciences
since 2016	Elected Member of the Faculty Board of the Medical Faculty
since 2015	Elected Member of the Deutsche Akademie der Technikwissenschaften (acatech)
2014 – 2015	President of the Executive Committee of the European Society for Molecular Imaging (ESMI)
2013 – 2014	Vice President of the Executive Committee of the European Society for Molecular Imaging (ESMI)
2013	European Research Council – ERC Advanced Grant on the topic “Multiparametric Tumor Imaging and Beyond: Towards Understanding in vivo Signals” [ImageLink].
since 2012	Member of the Advisory Board of the Werner Siemens-Foundation, Zug, Swiss
since 2012	Member of the Professional College (Fachkollegium) “Medicine” of the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG)
2012	EANM Springer Prize 2012 – Best basic science paper: Knetsch PA, Petrik M, Griessinger CM, Rangger C, Fani M, Kesenheimer C, von Guggenberg E, Pichler BJ, Virgolini I, Decristoforo C, Haubner R: [(68)Ga]NODAGA-RGD for imaging $\alpha(v)\beta$ (3) integrin expression. Eur J Nucl Med Mol Imaging. 38(7):1303-12, 2011
2012	Program Chair, World Molecular Imaging Congress, Dublin, Ireland, Sept 2012
since 2011	Chair of the Doctoral Candidate Admissions Board of the Medical Faculty (Promotionsausschuss)
since 2011	Board member of the World Molecular Imaging Society (WIMS)
since 2011	Council Member and Executive Committee Member /Treasurer of the European Society for Molecular Imaging (ESMI)
2011 – 2017	Member of the Scientific Advisory Council of the Helmholtz-Zentrum Dresden-Rossendorf
2010	Highlight paper in Physics in Medicine and Biology: Kolb A, Lorenz E, Judenhofer MS, Renker D, Lankes K, Pichler BJ: Evaluation of Geiger-mode APDs for PET block detector designs. Phys Med Biol. 55(7):1815-1832, 2010
since 2009	Board member of the CMIIT Preclinical Imaging Task Force of the Society of Nuclear Medicine and Molecular Imaging (SNMMI)
2009 – 2011	Council Member of the Society for Molecular Imaging (SMI)
2009 – 2011	Board member of the Academy of Molecular Imaging (AMI)
2009	JNM Editors’ Choice Awards: Hofmann M, Steinke F, Scheel V, Charpiat G, Farquhar J, Aschoff P, Brady M, Schölkopf B, Pichler BJ: MRI-Based Attenuation Correction for PET/MRI: A Novel Approach Combining Pattern Recognition and Atlas Registration. J Nucl Med. 49(11):1875-1883, 2008
since 2008	Chair of the Task Force “Molecular Imaging in Preclinical Research” of the German Society of Nuclear Medicine
2008 – 2012	Member of the Board of Directors of the SFB 773 (Collaborative Research Center)
2008	Member of the International Advisory Board for the Australian National Imaging Facility
2006	2nd best Paper Award, IEEE Medical Imaging Conference, San Diego, USA: M.S. Judenhofer, S.B. Siegel, C. Catana, B.K. Swann, D.F. Newport, W.-I. Jung, R.E. Nutt, S.R. Cherry, C.D. Claussen, B.J. Pichler: APD based PET system for simultaneous small animal PET-MR-Imaging in a 7 Tesla Magnet
2004	Academic Federation Research Travel Award, UC Davis, USA)
1999	Travel Award: IEEE Medical Imaging Conference, Seattle, USA

1998

Young investigator publication award 1998. (Received from „Verein zur Förderung der Nuklearmedizin an der Techn. Universität München e.V.“)