

Prof. Dr. Bernd Pichler

Personal Data

Status/Function: Director of Department

Scientific focus: Bernd Pichler works in the field of PET and PET/MR imaging science since more than 15 years and pioneered (together with Siemens) the development of preclinical and clinical PET/MRI. He performed research at the TU Munich, the MPI for Physics in Munich, UC Davis USA and the University of Tuebingen. Bernd Pichler's lab is focussing on interdisciplinary basic research in biomedicine with the use of state-of-the-art imaging technologies. This includes multi-modality imaging in oncology, immunology and neurology as well as the development of new imaging technologies and innovative imaging probes. In recent years, he has published widely on the preclinical as well as clinical implementation of PET/MR imaging.

Phone: +49 7071 29-83443

Fax: +49 07071 29-4451

Email: bernd.pichler@med.uni-tuebingen.de

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 2020** Dean of the Faculty of Medicine of the Eberhard Karls University of Tübingen
- 2011 - 2014** Deputy Managing Research Director of the Clinical Department of Radiology of the Eberhard Karls University of Tübingen, Germany
- since 2011** Chair of the Department of Preclinical Imaging and Radiopharmacy at the Clinical Department of Radiology of the Eberhard Karls University of Tübingen, Germany
- since 2008** Head of the Radiopharmacy at the Clinical Department of Radiology of the Eberhard Karls University of Tübingen, Germany
- since 2008** Full Professor and Head of the Laboratory for Preclinical Imaging and Imaging Technology of the Werner Siemens-Foundation at the Clinical Department of Radiology of the Eberhard Karls University of Tübingen, Germany
- since 2008:** Cooptation as Professor at the Faculty of Mathematics and Physics of the Eberhard Karls University Tübingen
- 2007** Acceptance of the call for the W3-Professorship (Full Professorship) for "Preclinical Imaging and Imaging Technology" at the Eberhard Karls University of Tübingen, Germany

- since 2005** Head of the Laboratory for Preclinical Imaging and Imaging Technology; Department of Radiology of the Eberhard Karls University of Tübingen, Germany
- 2003 - 2004** Assistant Biomedical Research Engineer (Assistant Research Professor), Department of Biomedical Engineering, University of California, Davis, CA, USA
- 2001 - 2002** Postdoctoral Research Fellow at the Clinic of Nuclear Medicine at the Technische Universität München, Munich, Germany
- 1997 - 2001** PhD student at the Clinic of Nuclear Medicine at the Technische Universität München, Munich, Germany and the Max-Planck-Institute for Physics, Munich, Germany

Teaching Experience

- Until 2020:** Supervision of 38 doctoral theses (completed, MD and PhD)
Supervision of 27 diploma/master/bachelor theses (completed)
- Currently:** Supervision of 36 doctoral theses

Additional Qualifications and Skills

- Reviewer** for scientific journals: Nature Medicine, Nature Biotechnology, Proceedings of the National Academy of Sciences, IEEE Transactions on Medical Imaging, IEEE Transactions on Nuclear Science, Journal of Radiology, Radiology, Journal of Nuclear Medicine, Physics in Medicine & Biology, Nuclear Instruments and Methods in Physics Research, European Journal of Nuclear Medicine & Molecular Imaging, Molecular Imaging
- Reviewer** for societies: German Research Foundation (DFG), The German Council of Science and Humanities (Wissenschaftsrat), European Research Council (ERC), Tiroler Wissenschaftsfond, Swiss National Science Foundation, Wellcome Trust - England
- Reviewer** for annual meetings: IEEE Medical Imaging Conference, Deutsche Gesellschaft für Nuklearmedizin, Society of Nuclear Medicine, World Molecular Imaging Congress
- Advisor:** Consulting Editor for a Scientific Journal: Molecular Imaging and Biology. Since 2020; Siemens Preclinical Solutions, Knoxville, TN, USA; Lecturer: Northern California PET Imaging Center, Sacramento, USA: PET preceptor course (CME credits) 2004

National and International Scientific Awards and Achievements

- 2023** Gold Medal Award of the World Molecular Imaging Society
- 2023** Honorary membership for outstanding contributions of the European Society for Molecular Imaging
- 2021** Georg de Hevesy Medal of the German Society of Nuclear Medicine
- since 2019** Elected Member of the Senate Strategic Committee of the Leibniz Association
- 2018 - 2020** Council Member of the European Society for Molecular Imaging (ESMI)

- since 2018** Appointed Member of the board of trustees of the Natural and Medical Sciences Institute, Eberhard Karls University of Tübingen, Germany
- since 2017** Elected Member of the German National Academy of Sciences Leopoldina
- since 2016** Elected Member of the Faculty Board of the Medical Faculty, Eberhard Karls University of Tübingen, Germany
- since 2015** Elected Member of the German Academy of Science and Engineering (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” (ImageLink)
- since 2012** Member of the Advisory Board of the Werner Siemens-Foundation, Zug, Switzerland
- 2012 - 2020** Member of the Professional Council (Fachkollegium) “Oncology” and “Medical Technology” of the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG)
- 2012** EANM Springer Preis 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
- since 2011** Chair of the Doctoral Candidate Admissions Board of the Medical Faculty, Eberhard Karls University of Tübingen, Germany
- 2011 - 2015** Board member of the World Molecular Imaging Society (WMIS)
- 2011 - 2015** Council Member and Executive Committee Member /Treasurer of the European Society for Molecular Imaging (ESMI)
- 2011 - 2018** 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 Preclinical Imaging Task Force of the Center for Molecular Imaging Innovation and Translation (CMIIT), Society of Nuclear Medicine and Molecular Imaging (SNMMI), USA
- 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 Collaborative Research Center 773 (SFB 773)
- 2008** Member of the International Advisory Board for the Australian National Imaging Facility
- 2006** 2nd best Paper Award, IEEE Medical Imaging Conference, San Diego, CA, USA: Judenhofer MS, Siegel SB, Catana C, Swann BK, Newport DF, Jung WI, Nutt RE, Cherry SR, Claussen CD, Pichler BJ: APD based PET system for simultaneous small animal PET-MR-Imaging in a 7 Tesla Magnet, 2006 IEEE Nuclear Science Symposium Conference Record, 2006, ppVI
- 2006** Poster-Award: fortune-colloquium; University Hospital Tübingen, Germany: M.Kneilling, B.J. Pichler, et al: Nicht invasive in vivo Untersuchung der Hypoxie-Induzierten Angiogenese im Verlauf T-Zell vermittelter Immunantworten.
- 2004** Academic Federation Research Travel Award, UC Davis, CA, USA
- 1999** Travel Award: IEEE Medical Imaging Conference, Seattle, WA, USA
- 1998** Young investigator publication award 1998 (received from “Verein zur Förderung der Nuklearmedizin an der Techn. Universität München e.V.”)

Publications

			5-year Impact
2023	258.	Parkins KM, Krishnamachary B, Jacob D, Kakkad SM, Solaiyappan M, Mishra A, Mironchik Y, Penet MF, McMahon MT, Knopf P, Pichler BJ , Nimmagadda S, Bhujwala ZM. PET/MRI and Bioluminescent Imaging Identify Hypoxia as a Cause of Programmed Cell Death Ligand 1 Image Heterogeneity. Radiol Imaging Cancer. 2023 Jul;5(4):e220138	4.200#
	257.	Schwenck J, Sonanini D, Seyfried D, Ehrlichmann W, Kienzle G, Reischl G, Krezer P, Wilson I, Korn R, Gonzalez-Menendez I, Quintanilla-Martinez L, Seith F, Forschner A, Eigentler T, Zender L, Röcken M, Pichler BJ , Flatz L, Kneilling M, la Fougere C. In vivo imaging of CD8+ T cells in metastatic cancer patients: first clinical experience with simultaneous [89Zr]Zr-Df-IAB22M2C PET/MRI. Theranostics. 2023 Apr 17;13(8):2408-2423	12.201#
	256.	Katiyar P, Schwenck J, Frauenfeld L, Divine MR, Agrawal V, Kohlhofer U, Gatidis S, Kontermann R, Königsrainer A, Quintanilla-Martinez L, la Fougère C, Schölkopf B, Pichler BJ , Disselhorst JA. Quantification of intratumoural heterogeneity in mice and patients via machine-learning models trained on PET–MRI data. Nat Biomed Eng. (2023).doi: 10.1038/s41551-023-01047-9. Online ahead of print.	31.072#
	255.	Schwenck J, Sonanini D, Cotton JM, Rammensee HG, la Fougère C, Zender L, Pichler BJ . Advances in PET imaging of cancer. Nat Rev Cancer. 2023 May 31.doi: 10.1038/s41568-023-00576-4.	78.980#
	254.	Di Nanni A, Saw RS, Bowden GD, Bidesi NSR, Bjerregaard-Andersen K, Korat Š, Herth MM, Pichler BJ , Herfert K, Maurer A. The Structural Combination of SIL and MODAG Scaffolds Fails to Enhance Binding to α -Synuclein but Reveals Promising Affinity to Amyloid β . Molecules. 2023 May 10;28(10):4001.doi: 10.3390/molecules28104001.	5.110#
	253.	Schmidt FP, Krämer JC, Parl C, Schmand M, Pichler BJ . Evaluation of a modular all-in-one high-resolution PET detector and readout electronics setup. Phys Med Biol. 2023 May 29;68(11).doi: 10.1088/1361-6560/acd432.	3.902#
	252.	Boeke S, Winter RM, Leibfarth S, Krueger MA, Bowden G, Cotton J, Pichler BJ , Zips D, Thorwarth D. Machine learning identifies multi-parametric functional PET/MR imaging cluster to predict radiation resistance in preclinical head and neck cancer models. Eur J Nucl Med Mol Imaging. 2023 May 6.	9.111
	251.	Patzwaldt K, Berezhnoy G, Ionescu T, Schramm L, Wang Y, Owczorz M, Calderón E, Poli S, Serna Higuera LM, Gonzalez-Menendez I, Quintanilla-Martinez L, Herfert K, Pichler B , Trautwein C, Castaneda-Vega S. Repurposing the mucolytic agent ambroxol for treatment of sub-acute and chronic ischaemic stroke. Brain Commun. 2023 Mar 29;5(2):fcad099.doi: 10.1093/braincomms/fcad099	0
	250.	Schütte JP, Manke MC, Hemmen K, Münzer P, Schörg BF, Ramos GC, Pogoda M, Dicenta V, Hoffmann SHL, Pinnecker J, Kollotzek F, Zdanyte M, Mueller KAL, Singh Y, Mack AF, Pichler B , Lang F, Nieswandt B, Gawaz M, Heinze KG, Casadei N, Borst O. Platelet-Derived MicroRNAs Regulate Cardiac Remodeling After Myocardial Ischemia. Circ Res. 2023 Mar 31;132(7):e96-e113.doi: 10.1161/CIRCRESAHA.122.322459	25.233#
	249.	Thomas B, Warszawski J, Falkner F, Bleichert S, Haug V, Bigdeli AK, Schulte M, Hoffmann SH, Garvalov BK, Schreiber C, Takamiya M, Sleeman JP, Schmidt VJ, Kneser U, Pichler BJ , Dimmler A, Thiele W. Avascular fat grafts show lower volume retention but higher hypoxia, angiogenesis, adipocyte proliferation, and macrophage infiltration	5.348#

- than vascularized adipocutaneous flaps in an in vivo pilot mouse study Fat grafting vs. flap transfer in mice.
Plast Reconstr Surg. 2023 Jan 3.doi: 10.1097/PRS.0000000000010146. Online ahead of print.
248. Feil S, Stowbur D, Schörg BF, Ehrlichmann W, Reischl G, Kneilling M, Pichler BJ, Feil R. 25.233#
 Noninvasive Detection of Smooth Muscle Cell-Derived Hot Spots to Study Atherosclerosis by PET/MRI in Mice.
Circ Res. 2023 Mar 17;132(6):747-750.doi: 10.1161/CIRCRESAHA.122.322296
247. Pommranz CM, Schmidt FP, Mannheim JG, Diebold SJ, Tenzer C, Santangelo A, Pichler BJ. 3.902#
 Design and performance simulation studies of a breast PET insert integrable into a clinical whole-body PET/MRI scanner.
Phys Med Biol. 2023 Feb 28;68(5).doi: 10.1088/1361-6560/acba77
246. Isser S, Maurer A, Reischl G, Schaller M, Gonzalez-Menendez I, Quintanilla-Martinez L, 11.082
 Gawaz M, Pichler BJ, Beziere N. Radiolabeled GPVI-Fc for PET imaging of multiple extracellular matrix fibers: A new look into pulmonary fibrosis progression.
J Nucl Med. 2023 Jun;64(6):940-945.doi: 10.2967/jnumed.122.264552.
245. Leiss V, Piekorz RP, Vega SC, Jacoby C, Flögel U, Pexa K, Schrader J, Pichler BJ, Beer-Hammer S, Nürnberg B. Data on common carotid artery occlusion inducing focalized stroke lesions after Pertussis toxin injection. 0
Data Brief. 2022 Dec 25;46:108851. doi: 10.1016/j.dib.2022.108851. eCollection 2023 Feb.
244. Knopf P, Stowbur D, Hoffmann SHL, Fransen MF, Schwenck J, Pichler BJ, Kneilling M. 3.484#
 Preclinical Identification Of Tumor-Draining Lymph Nodes Using a Multimodal Non-invasive In vivo Imaging Approach.
Mol Imaging Biol. 2023 Jun;25(3):606-618.doi: 10.1007/s11307-022-01797-z.
243. Trautwein NF, Reischl G, Seitz C, Dittmann H, Seith F, Scheuermann S, Feuchtinger T, 9.837#
 Dombrowski F, Handgretinger R, Fuchs J, Pichler B, la Fougère C, Schwenck J. First in human PET/MRI imaging of in vivo GD2 expression in osteosarcoma.
J Nucl Med. 2023 Feb;64(2):337-338.doi: 10.2967/jnumed.122.264626.
242. Ionescu TM, Amend M, Watabe T, Hatazawa J, Maurer A, Reischl G, Pichler BJ, Wehrl HF, Herfert K. Neurovascular Uncoupling: Multimodal Imaging Delineates the Acute Effects of 3,4-Methylenedioxymethamphetamine. 9.837#
J Nucl Med. 2022 Sep 29;jnumed.122.264391. Online ahead of print
- 2022** 241. Stegner D, Göb V, Krenzlin V, Beck S, Hemmen K, Schuhmann MK, Schörg B, 0
 Hackenbroch C, May F, Burkard P, Pinnecker J, Zerneck A, Rosenberger P, Greinacher A, Pichler BJ, Heinze KG, Stoll G, Nieswandt B. Foudroyant cerebral venous (sinus) thrombosis triggered through CLEC-2 and GPIIb/IIIa dependent platelet activation. *Nat Cardiovasc Res* 1, 132–141 (2022). <https://doi.org/10.1038/s44161-021-00017-1>
240. Becker H, Castaneda-Vega S, Patzwaldt K, Przystal JM, Walter B, Michelotti FC, Canjuga D, Tatagiba M, Pichler B, Beck SC, Holland EC, la Fougère C, Tabatabai G. 3.706#
 Multiparametric Longitudinal Profiling of RCAS-tva-Induced PDGFB-Driven Experimental Glioma.
Brain Sci. 2022 Oct 24;12(11):1426.doi: 10.3390/brainsci12111426.
239. Zizmare L, Mehling R, Gonzalez-Menendez I, Lonati C, Quintanilla-Martinez L, Pichler BJ, Kneilling M, Trautwein C. Acute and chronic inflammation alter immunometabolism in a cutaneous delayed-type hypersensitivity reaction (DTHR) mouse model. 6.816#
Commun Biol. 2022 Nov 15;5(1):1250. doi: 10.1038/s42003-022-04179-x.

238. Marciano S, Ionescu TM, Saw RS, Cheong RY, Kirik D, Maurer A, Pichler BJ, Herfert K. 13.451#
Combining CRISPR-Cas9 and brain imaging to study the link from genes to molecules to networks.
Proc Natl Acad Sci U S A. 2022 Oct 4;119(40):e2122552119. Epub 2022 Sep 26.
237. Schmitt J, Schwenck J, Maurer A, Przybille M, Sonanini D, Reischl G, Wehrmüller JE, 12.201#
Quintanilla-Martinez L, Gillies SD, Krueger MA, Schaefer JF, la Fougère C, Handgretinger
R, Pichler BJ. Translational immunoPET imaging using a radiolabeled GD2-specific
antibody in neuroblastoma.
Theranostics 2022; 12(13):5615-5630. doi:10.7150/thno.56736
236. Schwenck J, Maurer A, Beziere N, Fiz F, Boschetti F, Geistlich S, Seyfried D, Gunzer M, 9.837#
Reischl G, Wehrmüller J, Ehrlichmann W, Horger M, Gatidis S, Davies G, Vogel W, la
Fougere C, Pichler BJ, Thornton C. Antibody-guided Molecular Imaging of Aspergillus
Lung Infections in Leukemia Patients.
Journal of Nuclear Medicine September 2022, 63 (9) 1450-1451
235. Montes-Mojarro IA, Steinhilber J, Griessinger CM, Rau A, Gersmann AK, Kohlhofer U, 12.254#
Fallier-Becker P, Liang HC, Hofmann U, Haag M, Klapper W, Schaeffeler E, Pichler BJ,
Schwab M, Fend F, Bonzheim I, Quintanilla-Martinez L. CD147 a direct target of miR-
146a supports energy metabolism and promotes tumor growth in ALK+ ALCL.
Leukemia (2022). <https://doi.org/10.1038/s41375-022-01617-x>, online ahead of print
234. Griessinger J, Schwab J, Chen Q, Kühn A, Cotton J, Bowden G, Preibsch H, Reischl G, 7.241#
Quintanilla-Martinez L, Mori H, Dang AN, Kohlhofer U, Aina OH, Borowsky AD, Pichler
BJ, Cardiff RD, Schmid AM. Intratumoral in vivo staging of breast cancer by multi-tracer
PET and advanced analysis.
NPJ Breast Cancer. 2022 Mar 24;8(1):41.
233. Disselhorst JA, Newport DF, Schmid AM, Schmidt FP, Parl C, Liu CC, Pichler BJ, 3.554#
Mannheim JG. NEMA NU 4-2008 performance evaluation and MR compatibility tests
of an APD-based small animal PET-insert for simultaneous PET/MR imaging.
Phys Med Biol. 2022 Feb 16;67(4).
232. Trautwein C, Zizmare L, Mäurer I, Bender B, Bayer B, Ernemann U, Tatagiba M, Grau SJ, 8.315*,#
Pichler BJ, Skardelly M, Tabatabai G. Tissue metabolites in diffuse glioma and their
modulations by IDH1 mutation, histology and treatment.
JCI Insight. 2022 Feb 8;7(3):e153526.
- 2021 231. Seitz CM, Mittelstaet J, Atar D, Hau J, Reiter S, Illi C, Kieble V, Engert F, Drees B, Bender 7.959#
G, Krahl AC, Knopf P, Schroeder S, Paulsen N, Rokhvarguer A, Scheuermann S, Rapp E,
Mast AS, Rabsteyn A, Schleicher S, Grote S, Schilbach K, Kneilling M, Pichler B, Lock D,
Kotter B, Dapa S, Miltenyi S, Kaiser A, Lang PT, Handgretinger R, Schlegel P. Novel
adapter CAR-T cell technology for precisely controllable multiplex cancer targeting.
Onc Immunology. 2021 Dec2;10(1).
230. Traenkle B, Kaiser PD, Pezzana S, Richardson J, Gramlich M, Wagner TR, Seyfried D, 7.624#
Weldle M, Holz S, Parfyonova Y, Nueske S, Scholz AM, Zeck A, Jakobi M, Schneiderhan-
Marra N, Schaller M, Maurer A, Gouttefangeas C, Kneilling M, Pichler BJ, Sonanini D,
Rothbauer U. Single-Domain Antibodies for Targeting, Detection, and In Vivo Imaging
of Human CD4+ Cells.
Front Immunol. 2021 Dec 9;12:799910.
229. Bowden GD, Stotz S, Kinzler J, Geibel C, Lämmerhofer M, Pichler BJ, Maurer A. DoE 7,319#
Optimization Empowers the Automated Preparation of Enantiomerically Pure
[18F]Talazoparib and its In Vivo Evaluation as a PARP Radiotracer.
J Med Chem. 2021 Nov 11;64(21):15690-15701.

228. Stotz S, Bowden GD, Cotton JM, [Pichler BJ](#), Maurer A. Covalent 18F-Radiotracers for SNAPTag: A New Toolbox for Reporter Gene Imaging. **Pharmaceuticals (Basel)**. 2021 Sep 3;14(9):897 5.850#
227. Ionescu TM, Amend M, Hafiz R, Biswal BB, Maurer A, [Pichler BJ](#), Wehrl HF, Herfert K. Striatal and prefrontal D2R and SERT distributions contrastingly correlate with default-mode connectivity. **Neuroimage**. 2021 Aug 22;243:118501. 7.219#
226. Cotton J, Goehring, CM, Kuehn A, Maurer A, Fuchs K, [Pichler BJ](#). Synthesis and Biological Evaluation of a Radiolabeled PET Probe for Visualization of In Vivo α -Fucosidase Expression. **Pharmaceuticals (Basel)**. 2021 Jul 29;14(8):745. 5.850#
225. Sonanini D, Griessinger CM, Schörg BF, Knopf P, Dittmann K, Röcken M, [Pichler BJ](#), Kneilling M. Low-dose total body irradiation facilitates antitumoral Th1 immune responses. **Theranostics**. 2021 Jun 16;11(16):7700-7714 11.629#
224. Bowden GD, Chailanggar N, [Pichler BJ](#), Maurer A. Scalable 18F processing conditions for copper-mediated radiofluorination chemistry facilitate DoE optimization studies and afford an improved synthesis of [18F]olaparib. *Org Biomol Chem*. 2021 Aug 28;19(32):6995-7000 3.397#
223. Rudalska R, Harbig J, Snaebjornsson MT, Klotz S, Zwirner S, Taranets L, Heinzmann F, Kronenberger T, Forster M, Cui W, D'Artista L, Einig E, Hinterleitner M, Schmitz W, Dylawerska A, Kang T-W, Poso A, Rosenfeldt MT, Malek NP, Bitzer M, Laufer S, [Pichler BJ](#), Popov N, Schulze A, Zender L, Dauch D. LXR α activation and Raf inhibition trigger lethal lipotoxicity in liver cancer. **Nat Cancer**. 2021 Feb, 2: 201–217. N/A
222. Nording, H., Baron, L., Haberthür, D. Emschermann F, Mezger M, Sauter M, Sauter R, Patzelt J, Knoepp K, Nording A, Meusel M, Meyer-Saraei R, Hlushchuk R, Sedding D, Borst O, Eitel E, Karsten CM, Feil R, [Pichler BJ](#), Erdmann J, Verschoor A, Chavakis E, Chavakis T, von Hundelshausen P, Köhl J, Gawaz M, Langer HF. The C5a/C5a receptor 1 axis controls tissue neovascularization through CXCL4 release from platelets. **Nat Commun**. 2021 Jun, 12: 3352 15.805#
221. Ionescu TM, Amend M, Hafiz R, Biswal BB, Wehrl HF, Herfert K, [Pichler BJ](#). Elucidating the complementarity of resting-state networks derived from dynamic [18F]FDG and hemodynamic fluctuations using simultaneous small-animal PET/MRI. **Neuroimage**. 2021 Apr 10;236:118045. 7.219#
220. Henneberg S, Hasenberg A, Maurer A, Neumann F, Bornemann L, Gonzalez-Menendez I, Kraus A, Hasenberg M, Thornton CR, [Pichler BJ](#), Gunzer M, Beziere N. Antibody-guided in vivo imaging of Aspergillus fumigatus lung infections during anti-fungal azole treatment. **Nat Commun**. 2021 Mar 17;12(1):1707. 15.805#
219. Castaneda-Vega S, Katiyar P, Russo F, Patzwaldt K, Schnabel L, Mathes S, Hempel JM, Kohlhofer U, Gonzalez-Menendez I, Quintanilla-Martinez L, Ziemann U, la Fougere C, Ernemann U, [Pichler BJ](#), Disselhorst JA, Poli S. Machine learning identifies stroke features between species. **Theranostics** 2021; 11(6):3017-3034. 11.629#
218. Zekri L, Vogt F, Osburg L, Müller S, Kauer J, Manz T, Pflügler M, Maurer A, Heitmann JS, Hagemstein I, Märklin M, Hörner S, Todenhöfer T, Calaminus C, Stenzl A, [Pichler B](#), la 13.408#

- Fougère C, Schneider MA, Rammensee HG, Zender L, Sipos B, Salih HR, Jung G. An IgG-based bispecific antibody for improved dual targeting in PSMA-positive cancer. **EMBO Mol Med.** 2021 Feb 5;13(2):e11902
217. Mehling R, Schwenck J, Lemberg C, Trautwein C, Zizmare L, Kramer D, Mueller A, Fehrenbacher B, Gonzalez-Menendez I, Quintanilla-Martinez L, Schroeder K, Brandes RP, Schaller M, Ruf W, Eichner M, Ghoreschi K, Roecken M, Pichler BJ, Kneilling M. Immunomodulatory role of reactive oxygen species and nitrogen species during T cell-driven neutrophil-enriched acute and chronic cutaneous delayed-type hypersensitivity reactions. **Theranostics** 2021; 11(2):470-490. 11.629#
- 2020 216. Brück J, Calaminus C, Hoffmann SHL, Schwenck J, Holstein J, Yazdi AS, Pichler B, Kneilling M, Ghoreschi K. Non invasive in vivo monitoring of dimethyl fumarate treatment in EAE by assessing the glucose metabolism in secondary lymphoid organs. **Eur J Immunol.** 2021 Apr;51(4):1006-1009. 5.384
215. Kuebler L, Buss S, Leonov A, Ryazanov S, Schmidt F, Maurer A, Weckbecker D, Landau AM, Lillethorup TP, Bleher D, Saw RS, Pichler BJ, Griesinger C, Giese A, Herfert K. [11C]MODAG-001-towards a PET tracer targeting α -synuclein aggregates. **Eur J Nucl Med Mol Imaging.** 2021 Jun;48(6):1759-1772. 8.391
214. Thaiss WM, Gatidis S, Sartorius T, Machann J, Peter A, Eigentler TK, Nikolaou K, Pichler BJ, Kneilling M. Noninvasive, longitudinal imaging-based analysis of body adipose tissue and water composition in a melanoma mouse model and in immune checkpoint inhibitor-treated metastatic melanoma patients. **Cancer Immunol Immunother.** 2021 May;70(5):1263-1275. 6.271
213. Grimm J, Kiessling F, Pichler BJ. Quo Vadis, Molecular Imaging? **J Nucl Med.** 2020 Oct;61(10):1428-1434. 8.573
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2004	9.	Daldrup-Link HE, Rudelius M, Metz S, Piontek G, <u>Pichler BJ</u> , Settles M, Heinzmann U, Schlegel J, Oostendorp RAJ, Rummeny EJ: Cell tracking with Gadophrin-2: a bifunctional contrast agent for MR imaging, optical imaging, and fluorescence microscopy. Eur. J. Nucl. Med. Mol. Imaging. 2004 Sep;31(9):1312-21.	3.953 *
	8.	Rafecas M, Böning G, <u>Pichler BJ</u> , Lorenz E, Schwaiger M, Ziegler SI: Effect of noise in the probability matrix used for statistical reconstruction of PET data. IEEE Trans. Nucl. Sci. 2004 Apr 5;51(1):149-156.	1.737 *
	7.	<u>Pichler BJ</u> , Swann BK, Rochelle J, Nutt RE, Cherry SR, Siegel SB: Lutetium oxyorthosilicate block detector readout by avalanche photodiode arrays for high resolution animal PET. Phys. Med. Biol. 2004 Sep 21;49(18):4305-19.	2.128 *
2003	6.	Rafecas M, Boening G, <u>Pichler BJ</u> , Lorenz E, Schwaiger M, Ziegler SI: Inter-crystal scatter in a dual layer, high resolution LSO-APD positron emission tomograph. Phys. Med. Biol. 2003 Apr 7;48(7):821-48.	2.342 *
	5.	<u>Pichler BJ</u> , Gremillion T, Ermer V, Schmand M, Bendriem B, Schwaiger M, Ziegler SI, R. Nutt R, Miller SD: Detector characterization and detector setup of a NaI-LSO PET/SPECT camera. IEEE Trans. Nucl. Sci. 2003 Oct 14;50(5):1420-1427.	1.119 *
2001	4.	<u>Pichler BJ</u> , Pimpl W, Buttler W, Kotoulas L, Boening G, Rafecas M, Lorenz E, Ziegler SI. Integrated low-noise low-power fast charge-sensitive preamplifier for avalanche photodiodes in JFET-CMOS technology. IEEE Trans Nucl Sci. 2001 Dec;48(6): 2370-2374	0.771 *
	3.	Rafecas M, Böning G, <u>Pichler BJ</u> , Lorenz E, Schwaiger M, Ziegler SI: A Monte Carlo study of high resolution PET with granulated dual layer detectors. IEEE Trans. Nucl. Sci. 2001 Aug;48(4):1490-1495.	0.771 *
	2.	<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.	0.771 *
	1.	Ziegler SI, <u>Pichler BJ</u> , Boening G, Rafecas M, Pimpl W, Lorenz E, Schmitz N, Schwaiger M. A prototype high-resolution animal positron tomograph with avalanche photodiode arrays and LSO crystals. Eur J Nucl Med. 2001 Feb;28(2):136-43.	3.464 *

* Journal Impact Factor; # Journal/5-year Impact factor 2021

Patents

- 2018** *Radiolabeled beta-galactosidase substrate for PET imaging od senescence*
Inventors: Cotton, Jonathan; Kühn, Anna; Maurer, Andreas; Pichler, Bernd; Schulze-Osthoff, Klaus; Fuchs, Kerstin; Krüger, Marcel André; Zender, Lars
WO2018153966 A1; DE102017103600 A1
- 2016** *Use of quinoxaline derivatives useful in imaging method*
Inventors: Bowden, Gregory; Pichler, Bernd; Michelotti, Fillippo; Schmidt-Honndorf, Valerie; Cotton, Jonathan; Kesenheimer, Christian
WO2016034708 A1, DE102014112747 A1
- 2015** *Method for the temporal calibration of a switched capacitor array*
Inventors: Pichler, Bernd; Stricker-Shaver, Daniel; Kolb, Armin; Parl, Christoph; Ritt, Stefan
WO2015051824 A1, EP3055866 A1
- 2015** *Measuring unit for a combined PET-MR system*
Inventors: Pichler, Bernd; Kolb, Armin; Wehrl, Hans; Parl, Christoph
WO2015018894 A1, DE102013108497 A1
- 2014** *Halogenated Benzoxazines and their use thereof*
Inventors: Kesenheimer, Christian; Maier, Florian; Stumm, Ramona; Pichler, Bernd
WO2014032732 A1, US20150166572 A1, US9796730 B2, EP2890700 B1, DK2890700 T3
- 2014** *Senecence Tracers*
Inventors: Cotton, Jonathan; Pichler, Bernd; Fuchs, Kerstin; Teske, Anna; Krueger, Marcel; Kesenheimer, Christian; Schulze-Osthoff, Klaus; Hildebrand Dominic
WO2014032737 A1, US2015168374 A1, US9829481 B2, EP 2890981 A1, EP2890981 B1
- 2012** *Gamma detector based on geigermode avalanche photodiodes*
Inventors: Bernd Pichler, Armin Kolb, Eckhard Lorenz
WO2012152587 A2, WO2012152587 A3, US20140246594 A1, EP2707751 A2, JP2014519025 A
- 2008** *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*
Inventors: Pichler, Bernd; Hofmann, Matthias; Scholkopf, Bernhard; Steinke, Florian
WO2008006451 A1, DE102006033383 A1, EP2041719 A1, EP2041719 B1, US20100049032 A1, US8290568 B2, AT485572 T
- 2006** *Integrated PET-MRI scanner*
Inventors: Cherry, Simon; Catana, Ciprian; Pichler, Bernd J.
WO2006119085 A2, WO2006119085 A3, US20080214927 A1, US7835782 B2
- 2006** *Combined PET/MR imaging system and APD-based PET detector for use in simultaneous PET/MR imaging*
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; Pichler, Bernd J.
WO2006071922 A3, WO2006071922 A2, US9121893 B2, US2007102641 A1, US10036790 B2, US2015369890 A1, KR20070090974 A, KR100914429 B1, JP2014032204 A, JP2008525161 A, EP1853161 A4, EP1853161 A2, CA2592685 A1, CA2592685 C, AU2005322793 B8, AU2005322793 B2, AU2005322793 A1

Invited Talks

- 2022** 162. Pichler BJ: Ring-Vorlesungsreihe, Gesundheit. Gesellschaft in der Krise, Sinn und Form | Schnittstelle Wissenschaft und Politik | Forschen in der Krise, Medical University Vienna, Center for Medical Physics and Biomedical Engineering, Austria, 3. May 2022
161. Pichler BJ: Novel Biologicals as imaging pipeline for immune cells, Combined EATRIS Plus and EATRIS Cell Tracking WG Symposium, Klinikum rechts der Isar, Munich, Germany, 21. May 2022
- 2021** 160. Pichler BJ: Next Generation Imaging Targets, SFB 824 Symposium, TranslaTUM - Center for Translational Cancer Research of the Technical University of Munich, Munich, Germany, June 24, 2021
- 2020** 159. Pichler BJ: PET-MR and applications in brain studies, 2020 Advanced Imaging Research Center Annual Symposium “Frontiers in Brain Imaging”, O'Donnell Brain Institute, UT Southwestern Medical Center, Dallas, Texas, USA, January 30, 2020
158. Pichler BJ: Unravelling the Universe of the Immune System by Targeted Molecular Imaging, 2020 EANM 20 WORLD LEADING MEETING Joint Symposium 27 (EANM/ESMI): Radar on Immune Cell Imaging; European Association of Nuclear Medicine (EANM) Vienna, Austria, September 20, 2020
157. Pichler BJ: Beyond PET/MR: Multiparametric data Integration in Preclinical and Translational Research, 34th International Austrian Winter Symposium “Radionuclides in Molecular Imaging & Therapy” at Zell am See, Salzburg, Austria, January 24, 2020
- 2019** 156. Pichler BJ: PET/MR –Perspektiven und neue Entwicklungen in der präklinischen und translationalen Forschung, Opening symposium of the Core Facility PET/MR at Ulm University, Ulm, Germany, October 23, 2019
155. Pichler BJ: Engineered solutions to enhance therapy, Cancer Research UK – AACR Joint Conference on Engineering and Physical Sciences in Oncology, London, UK, October 17, 2019
154. Pichler BJ: Multiparametric functional and metabolic imaging for early cancer detection and profiling, 9th Mildred Scheel Cancer Conference, Bonn, Germany, May 15, 2019
153. Pichler BJ: Leuchtturm-Sitzung 6: Translationale Bildgebung, 57. Jahrestagung der Deutschen Gesellschaft für Nuklearmedizin (DGN), Bremen, Germany, April 5, 2019
152. Pichler BJ: Multimodality Imaging & Machine Learning for Translational Research: Converging PET, MR & Omics, EMIM 2019, Glasgow, UK, March 21, 2019
151. Pichler BJ: Multimodal imaging in basic research and clinical translation, 4th German Pharm-Tox Summit, Stuttgart, Germany, February 26, 2019
- 2018** 150. Pichler BJ: PET/MRI, Imaging in 2020, Visualizing the future of health care with MR imaging, Jackson Hole, Wyoming, USA, September 23, 2018
149. Pichler BJ: Imaging tumour cell senescence for therapy-guidance, WMIC, Seattle, Washington, USA, September 15, 2018
148. Pichler BJ: Preclinical imaging in translational medical research, Opening of the Center for Experimental Imaging and Medicine, Cologne, Germany, September 5, 2018
147. Pichler BJ: MRI PET, Structure, Function, Molecular Signature: Frontiers in Multimodal Biomedical Imaging (Special Symposium), Zurich, Switzerland, June 25, 2018

146. Pichler BJ: Alpha-phase Testing from a Customer Perspective; Molecular Imaging in the Future, WFNMB, Melbourne, Australia, April 21, 2018
145. Pichler BJ: Molecular Imaging. 2nd Donau Symposium, Vienna, Austria, March 15, 2018
- 2017**
144. Pichler BJ: German Imaging Science in European Context, 4th annual e:Med Meeting, Göttingen, Germany, November 22, 2017
143. Pichler BJ: Multiparametric Imaging in Preclinical and Translational Research. MD Anderson, Houston, Texas, USA, November 2, 2017
142. Pichler BJ: The benefits of Simultaneous Imaging, ISMRM-SNMMI Co-Provided Workshop on PET/MRI, Chicago, Illinois, USA, October 28, 2017
141. Pichler BJ: Multiparametric Imaging in Preclinical and Translational Research, Johns Hopkins, Baltimore, Maryland, USA, October 23, 2017
140. Pichler BJ: Multimodal Imaging in Preclinical Research and Clinical Translation, Symposium Translational Imaging, Zentrum für Translationale Bildgebung "From Molecule to Man", Ulm, Germany, October 4, 2017
139. Pichler BJ: Molekulare Bildgebung – Geräte, Nuklearmedizinisches Symposium "Strahlen, Spins und Menschen" der LMU und TU, Münchner Künstlerhaus, Munich, Germany, September 15, 2017
138. Pichler BJ: Multiparametric Imaging: Beyond Fusion of Anatomy and Function, Clinic of Radiology and Nuclear Medicine, University Hospital of Basel, Basel, Switzerland, September 8, 2017
137. Pichler BJ: Current Multimodal Imaging, International Congress of Parkinson's Disease and Movement Disorders (MDS congress 2017), Vancouver, Canada, June 5, 2017
136. Pichler BJ: Combining multiparametric imaging data with –omics information for precision medicine, 5th Mediterranean Forum on Advanced Molecular Imaging (MEDAMI) 2017, Orsoi, Italy May 31, 2017
135. Pichler BJ: Role of Quantitative Preclinical Imaging to Enhance Precision Health and Medicine, 3rd Annual Midwest Preclinical Imaging Consortium (MPIC) 2017, Nashville, Tennessee, USA, May 14, 2017
134. Pichler BJ: PET/MR Imaging in Preclinical and Translational Research, 90th Annual Meeting of the Japanese Pharmacological Society, Nagasaki, Japan, March 16, 2017
133. Pichler BJ: In vivo tracking of lymphocytes by PET, Salzburg Breast Cancer Talk, Salzburg, Austria, February 10, 2017
- 2016**
132. Pichler BJ: Multimodal PET/MR Imaging in Preclinical Research and Clinical Translation, ESMRMB 33rd Annual Scientific Meeting, Vienna, Austria, September 29, 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", Zentrum Translationale Zellforschung (ZTZ), University Medical Center Freiburg, Freiburg, Germany, August 16, 2016
130. Pichler BJ: PET/MRI: Multiparametric Imaging in Preclinical & Translational Research, Conference on Limits of Perception: Advances in Bio-Imaging, The Physiological Society, Warwick, UK, August 9, 2016

129. Pichler BJ: Multimodale Bildgebung von Infektionen – In-vivo-Visualisierung der Erreger-Wirt Interaktion, Leopoldina Symposium, Berlin, Germany, July 6, 2016
128. Pichler BJ: Funktionelle & Molekulare Bildgebung, Retreat of the ZPM (Zentrum für Personalisierte Medizin der Universität Tübingen), Allensbach, Germany, March 24, 2016
127. Pichler BJ: Multiparametrische Bildgebung in der präklinischen und translationalen Forschung, Kolloquien der Klinik für Nuklearmedizin, MHH (Medizinische Hochschule Hannover), Hannover, Germany, March 23, 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, Maryland, USA, December 9, 2015
125. Pichler BJ: Simultaneous MR/PET studies, PET/MR Symposium, DZNE (Deutsches Zentrum für Neurodegenerative Erkrankungen), Magdeburg, Germany, November 24, 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, Germany, October 28-30, 2015
123. Pichler BJ: Präklinische Forschung in der Radiologie, Symposium “Strahlenforschung in der Medizin – Relevanz und Perspektiven”, Leopoldina, Halle (Saale), Germany, May 8-9, 2015
122. Pichler BJ: Technik und translationale PET-MRT, Deutscher Röntgenkongress, Hamburg, Germany, May 13-16, 2015
121. Pichler BJ: Molecular Imaging – Part 1, 10th International Conference on Radiopharmaceutical Therapy, Innsbruck, Austria, May 3-8, 2015
120. Pichler BJ: Highlight-Lecture NuklearMedizin 2015, 53th Annual Meeting of the DGN (Deutsche Gesellschaft für Nuklearmedizin), Hannover, Germany, April 22-25, 2015
119. Pichler BJ: Translationale PET/MR Bildgebung und mögliche zukünftige klinische Anwendungen, MEDISO, 53th Annual Meeting of the DGN (Deutsche Gesellschaft für Nuklearmedizin), Hannover, Germany, April 22-25, 2015
118. Pichler BJ: How to get your work funded: German/european/international funding opportunities, 53th Annual Meeting of the DGN (Deutsche Gesellschaft für Nuklearmedizin), Hannover, Germany, April 22-25, 2015
117. Pichler BJ: Neue Wege in der funktionellen Bildgebung, 121st Congress of the DGIM (Deutsche Gesellschaft für Innere Medizin), Congress Center Rosengarten, Mannheim, Germany, April 18-21, 2015
116. Pichler BJ: Möglichkeiten der PET/MRT in der Neuroökologie und Neurodegeneration, Klinisch-nuklearmedizinische Kolloquien München-Augsburg, Rechts der Isar Hospital of the Technical University of Munich, Munich, Germany, February 4, 2015
- 2014**
115. Pichler BJ: Von Mäusen und Menschen - von der präklinischen Bildgebung zur Translation, 49th Annual Meeting of the DGNR (Deutsche Gesellschaft für Neuroradiologie), Cologne, Germany, 23-25 Oktober, 2014
114. Pichler BJ: Detector Designs, PET/MR Symposium: The New Imaging Frontier, Zurich, Switzerland, June 20, 2014

113. Pichler BJ: The Technical Revolution of Integrated PET/MRI, Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging (SNMMI), St Louis, Missouri, USA, June 7-11, 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, May 22-23, 2014
111. Pichler BJ: Translating Personalized Medicine, Symposium: A nuclear spin on Personalized Medicine, Vienna, Austria, May 16, 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, November 27, 2013
109. Pichler BJ: New methods for tumour functional imaging. 2013 NCRI Cancer Conference, Liverpool, UK, 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, April 20-26, 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, January 24, 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, October 27-31, 2012
105. Pichler BJ: Hybridverfahren: PET/CT, PET/MR, Radiochemie. Forscher für die Zukunft 2012/2013 (FFZ), Heidelberg, Germany, October 25-26, 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, August, 30 - September 3, 2012
103. Pichler BJ: PET/MR Systems: Current Status and Future Directions, 59th Society of Nuclear Medicine (SNM 2012) Annual Meeting, Miami Beach, Florida, USA, June 9-13, 2012
102. Pichler BJ: PET/MR Application in Small Animal Brain Imaging Studies, 59th Society of Nuclear Medicine (SNM 2012) Annual Meeting, Miami Beach, Florida, USA, June 9-13, 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, May 26-30, 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, April 9-12, 2012
99. Pichler BJ: Advances in MR/PET. ANS2012 Satellite Symposium on Imaging, Queensland Brain Institute, University of Queensland, Brisbane, Australia, January 28-29, 2012
98. Pichler BJ: PET/MRI and the Brain. 30th International Symposium, Radioactive Isotopes in Clinical Medicine and Research, Bad Hofgastein, Austria, January 11-13, 2012
- 2011**
97. Pichler BJ: Solutions to the MR-AC problem. Symposium "Issues and Developments in PET/MR", University Hospital, Zurich, Switzerland, November 4-5, 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, October 15-19, 2011
95. Pichler BJ: Multiparametric Imaging in Research. Pre-congress Symposium, Annual Congress of the European Association of Nuclear Medicine, Birmingham, UK, October 15-19, 2011
94. Pichler BJ: Small Animal PET/MRI Innovations – Novel Research Applications and Challenges. Siemens Industry Workshop, WMIC, San Diego Convention Center, San Diego, California, USA, September 8, 2011
93. Pichler BJ: Multimodality imaging, translation to the clinic. Radiopharmacy and Radiopharmacology Symposium, ISRS Meeting, Amsterdam, The Netherlands, August 28, 2011
92. Pichler BJ: Next generation of PET technology. Peter MacCallum Cancer Center, Melbourne, Australia, July 19, 2011
91. Pichler BJ: Next generation of PET technology. ANZSNM Conference, Darwin Convention Centre, Darwin, Australia, July 13-16, 2011
90. Pichler BJ: Preclinical Utilization of PET-MR with potential clinical uses. Breakfast Symposium Siemens, ANZSNM Conference, Darwin Convention Centre, Darwin, Australia, July 13-16, 2011
89. Pichler BJ: Site Requirement, Infrastructure and Personnel for PET/MRI in Research and Clinic. ANZSNM Conference, Darwin Convention Centre, Darwin, Australia, July 13-16, 2011
88. Pichler BJ: PET-MRI: Multiparametric Imaging in Preclinical Research and Clinical Diagnosis. ANZSNM Conference, Darwin Convention Centre, Darwin, Australia, July 13-16, 2011
87. Pichler BJ: PET/MR, Education Centre, Royal Brisbane and Women's Hospital, Brisbane, Australia, July 12, 2011
86. Pichler BJ: Whole body PET/MRI, where are we? Turku PET Symposium, May 28-31, 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, May 9, 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, May 9, 2011
83. Pichler BJ: Preclinical and Translational Imaging in Oncology, Neurology and Immunology. AIT Health & Environment Seminar Series 2011, Vienna, Austria, May 4, 2011
82. B.J.Pichler: PET/MRI in molecular imaging. The 2nd International Symposium on Integrated PET-MRI, Osaka, Japan, January 28-29, 2011
81. Pichler BJ: Small animal & translational imaging. The first comprehensive cancer research training program in medical oncology (CC RTP-MO). Kurhaus Hinterzarten, Hinterzarten, Germany, September 22-26, 2010
80. Pichler BJ: PET/MRI – a new hybrid technology for preclinical research and clinical diagnostic. Institute for Medical Physics, Friedrich-Alexander-University Erlangen-Nürnberg, Erlangen, Germany, June 30, 2010
79. Pichler BJ: Technik und Anwendung der kombinierten PET/MRT-Bildgebung. FZD-Kolloquium, Forschungszentrum Dresden - Rossendorf, Dresden, Germany, June 21, 2010

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, June 16, 2010
77. Pichler BJ: MR/PET: technology. 7th MAGENTOM World Summit, Shenzhen, China, May 27-30, 2010
76. Pichler BJ: PET/MR imaging in mouse and men. BME Research Day, University of Technology, Eindhoven, The Netherlands, May 19, 2010
75. Pichler BJ: PET/MRI: multiparametric imaging in mice and men. Combined MR/Pet Imaging, Emory University, Atlanta, Georgia, USA, April 8, 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, February 13, 2010
- 2009**
73. Pichler BJ: Practical implementations of PET, MRI and PET/MRI in preclinical trials. Global Imaging Summit, Berlin, Germany, October 21-22, 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, September 28, 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, September 24, 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, October 4-7, 2009
69. Pichler BJ: Keynote lecture: MR-PET. 8th International Symposium on Highfield MR in Clinical Applications, University of Bonn, Bonn, Germany, August 28-29, 2009
68. Pichler BJ: Von PET-CT zu MR-PET: Wo liegt die Zukunft? Symposium: Neue Dimensionen in der hybriden Bildgebung, Essen University Hospital, Essen, Germany, August 27, 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, August 6-7, 2009
66. Pichler BJ: Präklinische, translationale Forschung. Innovation durch Kooperation, 2. Forschungstreffen UKT - Siemens MED, Asperg, Germany, July 30-31, 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, May 15-16, 2009
64. Pichler BJ: In vivo small animal imaging in oncology research. Research Seminars in Clinical Oncology, University Hospital Zurich, Zurich, Switzerland, May 8, 2009
63. Pichler BJ: New technical developments. ACSI special focus: Molecular Imaging: Technical Advances and Translation to Clinical Practice, University Medical Center, Mannheim, Germany, March 28, 2009
62. Pichler BJ: Molekulare Bildgebung. Tag der Tübinger Krebsforschung, Südwestdeutsches Tumorzentrum, Tübingen, Germany, March 27, 2009

2008

61. Pichler BJ: MR-PET: Current technical developments and clinical perspectives. 21st European Congress of Radiology (ERC), Vienna, Austria, March 6-10, 2009
60. Pichler BJ: PET/MRI: Hybrid Imaging in Preclinical Research and Clinic. Kolloquium Biomedizinische Technik und verwandte Gebiete, Helmholtz Institute for Biomedical Engineering of the RWTH Aachen University, Aachen, Germany, February 5, 2009
59. Pichler BJ: PET/MRI: the next generation of simultaneous multi-parametric imaging. 7th Biennial Meeting of ANZMAG, Couran Cove, Queensland, Australia, December 7-11, 2008
58. Pichler BJ: PET/MRI Small Animal Imaging. Inauguration of the reference site for small animal molecular imaging, INFINITY (Innovative Flemish In Vivo Imaging Technology), University of Gent, Belgium, November 28, 2008
57. Pichler BJ: Development and impact of multimodality imaging devices. Bayer Schering Pharma Life Science Workshop Series "Molecular Imaging for better diagnosis and management of diseases", Berlin, Germany, November 5-7, 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, October 27-28, 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, September 20, 2008
54. Pichler BJ: Roadmap of First in Vivo Results on Preclinical and Clinical PET/MRI. World Molecular Imaging Congress, Nice, France, September 10-13, 2008
53. Pichler BJ: Latest Advances in Preclinical Imaging. Siemens Industry Workshop, Nice, France, September 12, 2008
52. Pichler BJ: Operational Management of an Imaging Facility. Siemens Preclinical User Group Meeting and Workshop, Nice, France, September 9, 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", Alfred 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, Munich, Germany, May 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
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

2007

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, 2007
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, Karlsruhe, Germany, 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, Germany, June 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, D.C., USA, June 2007
35. Pichler BJ: Combined technologies: MRI/PET, PET/CT, MRI/Optical - Instrumental aspects. Joint annual meeting ISMRM-ESMRMB, Berlin, Germany, May 2007
34. Pichler BJ: Combined clinical MR/PET: Feasibility of Simultaneous Imaging. Joint annual meeting ISMRM-ESMRMB, Berlin, Germany, May 2007
33. Pichler BJ: MRI & Nuclear. Joint annual meeting ISMRM-ESMRMB, Berlin, Germany, May 2007
32. Pichler BJ: Nicht invasive Micro-PET Bildgebung von atherosklerotischen Plaques bei ApoE-Mäusen. 5. Berliner PET/CT-Symposium, Berlin, Germany, May 2007
31. Pichler BJ: Inveon PET/CT- Neue Wege in der präklinischen Hybridbildgebung. Siemens Lunchsymposium, Hannover, Germany, April 2007
30. Pichler BJ: Simultaneous PET/MR animal imaging: First in vivo results. 45th Annual Meeting of the DGN (Deutsche Gesellschaft für Nuklearmedizin), Hannover, Germany, April 2007
29. Pichler BJ: MRI and PET. 7. Tübinger Course "Neuro-fMRI", Eberhard Karls University of Tübingen, Tübingen, Germany, March 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. German Cancer Research Center Heidelberg, Heidelberg, Germany, January 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, Germany, October 2006
 25. Pichler BJ: Combined PET/MRI. Inauguration Prof. Anne Paans, Groningen, The Netherlands, October 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. Institute of Nuclear Chemistry at the University of Mainz, Mainz, Germany, May 2006
 22. Pichler BJ: PET/MR-The way to go? Workshop of the DGN (Deutsche Gesellschaft für Nuklearmedizin), Berlin, Germany, April 2006
 21. Pichler BJ: In-vivo-Kleintierbildgebung: Neue Perspektiven in der Präklinischen Forschung. Siemens Lunch Symposium, Berlin, Germany, 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, December 2005
 16. Pichler BJ: Molekulare Bildgebung am Kleintier - Übersicht und Vergleich der verschiedenen Techniken. 13. Arbeitstreffen der AG Radiochemie/Radiopharmazie der DGN (Deutsche Gesellschaft für Nuklearmedizin), Seefeld, Austria, October 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, May 2005
 8. Pichler BJ: PET Imaging of Cell Trafficking. Biomedical imaging research Opportunities Workshop, NIH, Bethesda, Maryland, USA, March 2005

2004	7.	<u>Pichler BJ</u> : High resolution positron emission tomography of rodents and primates and its potential for airway imaging. 25 th Annual Meeting of the American College of Toxicology, Symposium VI, Palm Springs, California, USA, November 7-10, 2004
	6.	<u>Pichler BJ</u> : 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.	<u>Pichler BJ</u> Munich LSO-APD PET: State report. Crystal Clear Meeting, CERN, Geneva, Switzerland, May 1999
	4.	<u>Pichler BJ</u> : Development of a small animal PET scanner using LSO detectors. Séminaire les caméras TEP pour petits animaux, Psychiatric Hospital, Geneva University Hospital (HUG), Geneva, Switzerland, May 1999
1998	3.	<u>Pichler BJ</u> : PET Cameras. Sarajevo Summer School – Physics without borders Sarajevo, Bosnia and Herzegovina, September 1998
	2.	<u>Pichler BJ</u> : Neue Detektoren für die Nuklearmedizin. Jahrestagung der Bayerischen Gesellschaft für Nuklearmedizin, Munich, Germany, July 1998
	1.	<u>Pichler BJ</u> : Results from the Munich LSO-APD PET. Crystal Clear Meeting, CERN, Geneva, Switzerland, February 1998

Professional Memberships

since 2017	German National Academy of Sciences Leopoldina (Leopoldina - Nationale Akademie der Wissenschaften)
since 2016	German Academy of Science and Engineering (Deutsche Akademie der Technikwissenschaften - acatech)
since 2011	Deutsche Röntgengesellschaft (DRG)
since 2011	World Molecular Imaging Society (WMIS)
since 2010	European Society of Molecular Imaging (ESMI)
since 2007	Deutsche Gesellschaft für Nuklearmedizin (DGN)
2006 - 2011	Academy of Molecular Imaging (AMI)
2002 - 2011	Society of Molecular Imaging (SMI)
since 2002	Society of Nuclear Medicine (SNM; since 2012 Society of Nuclear Medicine and Molecular Imaging - SNMMI)
since 1999	Institute of Electrical and Electronics Engineers (IEEE)

Current Research Grants

2023-2026	<p>DFG - Research Grants Program “Development and Evaluation of a Breast PET/MRI Insert Prototype for a Clinical Whole-Body PET/MRI Scanner” Applicants: Bernd Pichler, Klaus Scheffler, Magdalena Rafecas Funds: 681.248 €</p>
2024-2033	<p>Werner Siemens-Foundation, Zug, Switzerland Werner Siemens Imaging Center Applicant: Prof. Dr. Bernd Pichler Funds: 18.400.000 €</p>
2023-2027	<p>Ministry of Finance, Ministry of Food, Rural Affairs and Consumer Protection, Ministry of Science, Research and the Arts, Baden-Württemberg and European Regional Development Fund: RegioWin - Regional Competitiveness through Innovation and Sustainability “Biologicals Development Center – Reutlingen/Tübingen Research Campus (BioDevCenter)” (grant agreement no.: RegiInn_2449407) Applicant: Prof. Dr. Bernd Pichler, Prof. Dr. Ulrich Rothbauer Funds: 1,750,000 €</p>
2020-2025	<p>National Institutes of Health, USA, RFA-EB-19-002 (No.: 1U01EB029826-01) “Development of the Human Dynamic Neurochemical Connectome Scanner” Applicants: Prof. Dr. Bernd Pichler, Ciprian Catana Funds: 247.135 \$</p>
2020-2025	<p>Eberhard Karls University of Tübingen / Excellence Strategy of the German federal and state governments. Support of the establishment of an independent junior research group by the platform “Medical Technology” of the Eberhard Karls University of Tübingen Applicant: Prof. Dr. Bernd Pichler Funds: 1,000,000 €</p>
2019-2026	<p>Eberhard Karls University of Tübingen / Excellence Strategy of the German federal and state governments. Financing of a position (100%) for the coordination of the platform “Medical Technology” of the Eberhard Karls University of Tübingen Applicant: Prof. Dr. Bernd Pichler Funds: 450,000 €</p>
2019-2024	<p>EU - IMI2 - call 14 - topic 2: Non-invasive clinical molecular imaging of immune cells “Specific Imaging of Immune Cell Dynamics Using Novel Tracer Strategies - Immune-Image” (Grant agreement no.: 831514) Applicants: Albert Windhorst (PhD), Prof. Dr. Bernd Pichler, Dr. med. Manfred Kneilling (i.a.) Funds: 1,103,496 €</p>
2019-2024	<p>Eberhard Karls University of Tübingen / Ministry of Science, Research and the Arts of the State of Baden-Württemberg Future Concept: Strategic research cooperations in the area of “Immune-Imaging” Applicant: Prof. Dr. Bernd Pichler Funds: 750,000 €</p>
2019-2023	<p>DFG - Collaborative Research Center SFB TRR 156 (2nd funding period) “The skin as a sensor and effector organ orchestrating local and systemic immunity” (Grant agreement no.: INST 35/1264-2) Subproject C03: “Impact of noncanonical NF-κB signaling during hapten-induced skin inflammation” Subproject leaders: Prof. Dr. Bernd Pichler, Dr. med. Manfred Kneilling Subproject funds: 465.100 € Total funds: 13,649,500 €</p>

- 2019-2025** DFG - Excellence Strategy of the German federal and state governments
 Clusters of Excellence "Image-Guided and Functionally Instructed Tumor Therapies (iFIT)"
 (Grant agreement no.: EXC 2180)
 Spokesperson: Prof. Dr. med. Lars Zender, Prof. Dr. Bernd Pichler, Prof. Dr. Hans-Georg Rammensee
 Total Cluster of Excellence Funds: 47,255,480 €
- 2018-2022** DFG - Collaborative Research Center SFB TRR 240
 "Platelets - Molecular, cellular and systemic functions in health and disease" (Grant agreement no.: INST 93/992-1)
 Subproject: Z04 "Multiparametric in vivo imaging"
 Subproject leader: Prof. Dr. Bernd Pichler
 Subproject funds: 394,100 €
 Total funds: 14,788,600 €
- 2016-2023** Werner Siemens-Foundation, Zug, Switzerland
 Werner Siemens Imaging Center
 Applicant: Prof. Dr. Bernd Pichler
 Funds: 15,673,646 €

In addition, over 39.000.000€ in third-party funding has been raised since 2005 through previous grants