

VOLLMUTH, PHILIPP, PD DR. MED. (NÉ KICKINGEREDER)

GENERAL INFORMATION



Head

Section for Computational Neuroimaging
Department of Neuroradiology, University Hospital Heidelberg
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69120 Heidelberg, Germany

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ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
2017-2018	Master of Business Administration (MBA) postgraduate studies at IE Business School, Madrid, Spain
2006-2012	Medical studies at the Medical University of Innsbruck, Austria

SCIENTIFIC EDUCATION & QUALIFICATION

Year(s)	Education
01/2020	Habilitation (Postdoctoral Lecturing Qualification) in Radiology at Heidelberg University with a thesis on "Application of Artificial Intelligence in Neuro-Oncology Imaging: Development, Validation and Clinical Integration"
2010-2013	Dissertation at the University of Cologne (Department of Stereotaxy and Functional Neurosurgery, magna cum laude)

PROFESSIONAL EXPERIENCE

Year(s)	Experience
since 2020	Head, Section for Computational Neuroimaging, Department of Neuroradiology, Heidelberg University Hospital, Germany
since 2020	Attending Physician at the Department of Neuroradiology, Heidelberg University Hospital, Germany
2018-2019	Fellowship in Neuroradiology at the Department of Neuroradiology, Heidelberg University Hospital, Germany
2017-2020	Head, Research group Computational Neuroimaging, Department of Neuroradiology, Heidelberg University Hospital, Germany
2013-2018	Residency in Radiology at the Department of Radiology & Neuroradiology, Heidelberg University Hospital, Germany
2012-2013	Postdoc in the Clinical Cooperation Unit Neuropathology, German Cancer Research Center (DKFZ), Heidelberg, Germany

OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

Year(s)	Awards & Scholarships
2022	Sibylle Assmus Award for Neuro-Oncology
2020	Life Sciences Bridge Award by the Aventis Foundation
2020	Clinical Research Award of the Society for the Promotion of Neurological Sciences Frankfurt
2019	Gerhard Domagk Prize for Cancer Research
09/2019	Visiting Professor for Radiology, University of Ulsan College of Medicine, Seoul, Korea
2018	Editor's Recognition Award from the Radiological Society of North America
2016	Kurt-Decker-Award from the German Society of Neuroradiology
2015-2017	Physician-Scientist-Fellowship of the Medical Faculty of Heidelberg
2014	Marc-Duenzl-Prize of the German Society of Neuroradiology

SELECTED PUBLICATIONS

1. [Vollmuth P](#), Foltyn M, Huang RY, Galldiks N, Petersen J, Isensee F, van den Bent MJ, Barkhof F, Park JE, Park YW, Ahn SS, Brugnara G, Meredig H, Jain R, Smits M, Pope WB, Maier-Hein KH, Weller M, Wen PY, Wick W, Bendszus M. AI-based decision support improves reproducibility of tumor response assessment in neuro-oncology: an international multi-reader study. **Neuro Oncol** **2022** (in press)
 2. Jayachandran Preetha C, Meredig H, Brugnara G, Mahmutoglu MA, Foltyn M, Isensee F, Kessler T, Pflüger I, Schell M, Neuberger U, Petersen J, Wick A, Heiland S, Debus J, Platten M, Idhahbi A, Brandes AA, Winkler F, van den Bent MJ, Nabors B, Stupp R, Maier-Hein KH, Gorlia T, Tonn JC, Weller M, Wick W, Bendszus M, [Vollmuth P](#). Deep-learning-based synthesis of post-contrast T1-weighted MRI for tumour response assessment in neuro-oncology: a multicentre, retrospective cohort study. **Lancet Digit Health**. **2021** Dec;3(12):e784-e794
 3. [Kickingreder P](#), Brugnara G, Hansen MB, Nowosielski M, Pflüger I, Schell M, Isensee F, Foltyn M, Neuberger U, Kessler T, Sahm F, Wick A, Heiland S, Weller M, Platten M, von Deimling A, Maier-Hein KH, Østergaard L, van den Bent MJ, Gorlia T, Wick W, Bendszus M. Noninvasive Characterization of Tumor Angiogenesis and Oxygenation in Bevacizumab-treated Recurrent Glioblastoma by Using Dynamic Susceptibility MRI: Secondary Analysis of the European Organization for Research and Treatment of Cancer 26101 Trial. **Radiology**. **2020** Oct;297(1):164-175.
 4. Schell M, Pflüger I, Brugnara G, Isensee F, Neuberger U, Foltyn M, Kessler T, Sahm F, Wick A, Nowosielski M, Heiland S, Weller M, Platten M, Maier-Hein KH, von Deimling A, van den Bent MJ, Gorlia T, Wick W, Bendszus M, [Kickingreder P](#). Validation of diffusion MRI phenotypes for predicting response to bevacizumab in recurrent glioblastoma: post-hoc analysis of the EORTC-26101 trial. **Neuro Oncol**. **2020** Nov 26;22(11):1667-1676.
 5. [Kickingreder P](#), Isensee F, Tursunova I, Petersen J, Neuberger U, Bonekamp D, Brugnara G, Schell M, Kessler T, Foltyn M, Harting I, Sahm F, Prager M, Nowosielski M, Wick A, Nolden M, Radbruch A, Debus J, Schlemmer HP, Heiland S, Platten M, von Deimling A, van den Bent MJ, Gorlia T, Wick W, Bendszus M, Maier-Hein KH. Automated quantitative tumor response assessment of MRI in neuro-oncology with artificial neural networks: a multicenter, retrospective study. **Lancet Oncol**. **2019** May;20(5):728-740.
 6. [Kickingreder P](#), Neuberger U, Bonekamp D, Piechotta PL, Götz M, Wick A, Sill M, Kratz A, Shinohara RT, Jones DTW, Radbruch A, Muschelli J, Unterberg A, Debus J, Schlemmer HP, Herold-Mende C, Pfister S, Deimling AV, Wick W, Capper D, Maier-Hein KH, Bendszus M. Radiomic subtyping improves disease stratification beyond key molecular, clinical and standard imaging characteristics in patients with glioblastoma. **Neuro Oncol**. **2018** Oct 9;20(11):1517-1524.
 7. Tejada Neyra MA, Neuberger U, Reinhardt A, Brugnara G, Bonekamp D, Sill M, Wick A, Jones DTW, Radbruch A, Unterberg A, Debus J, Heiland S, Schlemmer HP, Herold-Mende C, Pfister S, von Deimling A, Wick W, Capper D, Bendszus M, [Kickingreder P](#). Voxel-wise radiogenomic mapping of tumor location with key molecular alterations in patients with glioma. **Neuro Oncol**. **2018** Oct 9;20(11):1517-1524.
 8. [Kickingreder P](#), Götz M, Muschelli J, Wick A, Neuberger U, Shinohara RT, Sill M, Nowosielski M, Schlemmer HP, Radbruch A, Wick W, Bendszus M, Maier-Hein KH, Bonekamp D. Large-scale Radiomic Profiling of Recurrent Glioblastoma Identifies an Imaging Predictor for Stratifying Anti-Angiogenic Treatment Response. **Clin Cancer Res**. **2016** Dec 1;22(23):5765-5771.
 9. [Kickingreder P](#), Burth S, Wick A, Götz M, Eidel O, Schlemmer HP, Maier-Hein KH, Wick W, Bendszus M, Radbruch A, Bonekamp D. Radiomic Profiling of Glioblastoma: Identifying an Imaging Predictor of Patient Survival with Improved Performance over Established Clinical and Radiologic Risk Models. **Radiology**. **2016** Sep;280(3):880-9.
- [Kickingreder P](#), Bonekamp D, Nowosielski M, Kratz A, Sill M, Burth S, Wick A, Eidel O, Schlemmer HP, Radbruch A, Debus J, Herold-Mende C, Unterberg A, Jones D, Pfister S, Wick W, von Deimling A, Bendszus M, Capper D. Radiogenomics of Glioblastoma: Machine Learning-based Classification of Molecular Characteristics by Using Multiparametric and Multiregional MR Imaging Features. **Radiology**. **2016** Dec;281(3):907-918.