

Mechthild Krause, * 1976

PI of Program *Cancer Research, Topic Imaging and Radiooncology*



Current positions:	Director, Institute of Radiooncology – OncoRay (HZDR) and OncoRay, Dresden since 2016 Chair, Dept. of Radiation Oncology , Faculty of Medicine, and University Hospital Carl Gustav Carus (UKD), TU Dresden Executive Director, NCT Dresden Spokesperson, DKTK partner site Dresden , DKFZ Professor for Translational Radiation Oncology at TU Dresden since 2013
Previous positions:	Deputy Spokesperson, DKTK partner site Dresden (2015-16); Vice Chair, Dept. of Radiation Oncology, UKD (2012-16); Senior Physician, Responsible Medical Specialist (2010-12), Specialist Radiotherapy (2007-09), Dept. of Rad. Oncology, UKD; Visiting scientist, Princess Margaret Hospital, Toronto, Canada (04-10/2007); Group leader, Exp. Radiotherapy, Dept. of Rad. Oncology, UKD (2006-07); Specialist Radiotherapy/Scientific Assistant, UKD (2006-07);
Scientific degrees:	Habilitation, TU Dresden 2007 Dr. med., TU Dresden 2002 Approbation as Physician (M.D.), TU Dresden 2000

Research topics: biologically individualized radiotherapy (clinical trials and preclinical-translational studies); evaluation of particle radiotherapy (clinical trials and preclinical-biological studies)

Publications (5 most relevant)

- Schmidt, S. et al.: Development and validation of a gene signature for patients with head and neck squamous cell carcinomas treated by postoperative radio(chemo)therapy. *Clin Cancer Res.* 24 (2018), 1364
- Krause, M. et al.: Cancer stem cells: Radioresistance, prediction of radiotherapy outcome and specific targets for combined treatments. *Adv Drug Deliv Rev.* 109 (2017), 63
- Baumann, M. et al.: Radiation oncology in the era of precision medicine. *Nat Rev Cancer.* 16, 4 (2016), 234
- Linge, A. et al.: Low Cancer Stem Cell Marker Expression and Low Hypoxia Identify Good Prognosis Subgroups in HPV(-) HNSCC after Postoperative Radiochemotherapy: A Multicenter Study of the DKTK-ROG. *Clin Cancer Res.* 22, 11 (2016), 2639
- Seidlitz, A. et al.: Impact of waiting time after surgery and overall time of postoperative radiochemotherapy on treatment outcome in glioblastoma multiforme. *Radiat Oncol.* 10 (2015), 172

Activities in the Scientific Community (selected)

Since 2019 Spokesperson of the ARO/DKG (Arbeitsgemeinschaft Radiologische Onkologie); Editor, *Radiotherapy and Oncology* (since 2016); Editor, *British Journal of Radiology* (2013-2016); Member of the Editorial Board, *Radiotherapy and Oncology* (2010-2016)

Scientific Honors and Awards (selected)

2009 Hermann-Holthusen-Award of the Deutsche Gesellschaft für Radiooncologie (DEGRO)
2005 VARIAN – Juliana Denekamp Award of the European Society for Therapeutic Radiation Oncology (ESTRO), Wolfsberg, CH