

## Curriculum Vitae

**Wolfram Stiller** PD, Dr. sc. hum., Dipl.-Phys. (Univ.)  
d.o.b. December 22<sup>nd</sup>, 1976, in Kassel, Germany

### University Education

2021 Habilitation in Medical Physics, Medical Faculty, Ruprecht-Karls-University Heidelberg  
2008 Doctorate in Medical Physics/Biophysics, Medical Faculty, Ruprecht-Karls-University Heidelberg  
2006–2007 Postgraduate studies “*Medical Physics for Physicists (DGMP)*”, Academy for Professional Scientific Development, University of Heidelberg  
2000–2002 Graduate studies in Physics, Ludwig-Maximilians-University (LMU) Munich  
1997–2000 Undergraduate/graduate studies in Physics, University of Kaiserslautern

### Scientific Career

Since 2013 Principal Investigator (PI) of the “*Imaging*” platform, Translational Lung Research Center (TLRC) Heidelberg, Member of the German Center for Lung Research (DZL)  
Since 2010 Senior Research Fellow and Section Head “*Physics & Methods*”, Diagnostic & Interventional Radiology (DIR), University of Heidelberg  
Since 2017 Member of the “*Physics*” section of the “*Scientific Editorial Board*” of the radiological journal “*European Radiology*”  
2016–2019 Member of the “*EuroSafe Imaging Steering Committee*” of the “*EuroSafe Imaging*” campaign, European Society of Radiology (ESR)  
2016–2018 Member of the “*Radiation Protection Subcommittee*” within the “*Quality, Safety & Standards Committee*”, European Society of Radiology (ESR)  
2014–2017 Official representative with regard to radiation protection research in medicine, European Society of Radiology (ESR)  
2012–2017 Project Leader (PI) “*Innovative Imaging of Tissue Perfusion*” (R02), Transregional Collaborative Research Center SFB/TRR 125 “*Cognition-guided Surgery*”  
2009–2012 Project Leader (PI) “*Reduction of Radiation Exposure Caused by Computed Tomography Examinations*” (02NUK008G), BMBF Collaboration Project “*Innovative Methods for the Optimization of Radiological Applications in Biomedical Imaging*”  
2008–2010 Postdoctoral Research Fellow, Department of Radiology, German Cancer Research Center (DKFZ) Heidelberg  
2004–2008 Postgraduate Research Fellow, Department of Medical Physics in Radiology, DKFZ  
2003–2004 Postgraduate Research Fellow, ATLAS-MDT myon group, Max-Planck-Institute for Physics (Werner-Heisenberg-Institute) Munich

### Awards and Honors

2013 “*Best Scientific Presentation Award*”, 3<sup>rd</sup> World Congress of Thoracic Imaging (WCTI)  
2013 “*Young Investigator Scholarship*”, 3<sup>rd</sup> World Congress of Thoracic Imaging (WCTI)  
2011 “*Trainee Research Prize*” in the category “*Physics/Fellow*”, Radiological Society of North America (RSNA)

### Citation Record

Total citations: 5,201; h-index: 21; h-index since 2017: 8  
(Web of Science™ Citation Report, Clarivate™, July 22<sup>nd</sup>, 2022)

## Top-10 selected Publications

Zhu L, Duerr J, Zhou-Suckow Z, Wagner W, Weinheimer O, Salomon J, Leitz D, Konietzke P, Yu H, Ackermann M, **Stiller W**, Kauczor HU, Mall MA, Wielpütz MO.  $\mu$ CT to quantify muco-obstructive lung disease and effects of neutrophil elastase knockout in mice. **Am J Physiol Lung Cell Mol Physiol** 2022; 322(3): L401-11. doi: [10.1152/ajplung.00341.2021](https://doi.org/10.1152/ajplung.00341.2021).

Konietzke P, Steentoft HH, Wagner WL, Albers J, Dullin C, Skornitzke S, **Stiller W**, Weber TF, Kauczor HU, Wielpütz MO. Consolidated lung on contrast-enhanced chest CT: the use of spectral-detector computed tomography parameters in differentiating atelectasis and pneumonia. **Heliyon** 2021; 7(5): e07066. doi: [10.1016/j.heliyon.2021.e07066](https://doi.org/10.1016/j.heliyon.2021.e07066).

Wagner WL, Hellbach K, Fiedler MO, Salg GA, Wehrse E, Ziener CH, Merle U, Eckert C, Weber TF, **Stiller W**, Wielpütz MO, Dullin C, Kenngott HG, Schlemmer HP, Weigand MA, Schirmacher P, Longerich T, Kauczor HU, Kommos FKF, Schwab C. Mikrovaskuläre Veränderungen bei COVID-19 / [Microvascular changes in COVID-19]. **Radiologe** 2020; 60(10): 934-42. doi: [10.1007/s00117-020-00743-w](https://doi.org/10.1007/s00117-020-00743-w).

Leutz-Schmidt P, Wielpütz MO, Skornitzke S, Weinheimer O, Kauczor HU, Puderbach MU, Pahn G, **Stiller W**. Influence of acquisition settings and radiation exposure on CT lung densitometry – An anthropomorphic ex vivo phantom study. **PLoS One** 2020; 15(8): e0237434. doi: [10.1371/journal.pone.0237434](https://doi.org/10.1371/journal.pone.0237434).

Faller F, Mein S, Ackermann B, Debus J, **Stiller W**, Mairani A. Pre-clinical evaluation of dual-layer spectral computed tomography-based stopping power prediction for particle therapy planning at the Heidelberg Ion Beam Therapy Center. **Phys Med Biol** 2020; 65(9): 095007. doi: [10.1088/1361-6560/ab735e](https://doi.org/10.1088/1361-6560/ab735e).

Ackermann M, Stark H, Neubert L, Schubert S, Bochert P, Linz F, Wagner WL, **Stiller W**, Wielpütz M, Hoefer A, Haverich A, Mentzer SJ, Shah HR, Welte T, Kuehnel M, Jonigk D. Morphomolecular motifs of pulmonary neoangiogenesis in interstitial lung diseases. **Eur Respir J** 2020; 55(3): 1900933. doi: [10.1183/13993003.00933-2019](https://doi.org/10.1183/13993003.00933-2019).

Skornitzke S, Kauczor HU, **Stiller W**. Measuring Dynamic CT Perfusion Based on Time-Resolved Quantitative DECT Iodine Maps: Comparison to Conventional Perfusion at 80 kV<sub>p</sub> for Pancreatic Carcinoma. **Invest Radiol** 2019; 54(11): 689-96. doi: [10.1097/RLI.0000000000000591](https://doi.org/10.1097/RLI.0000000000000591).

Wagner WL, Wünnemann F, Pacilé S, Albers J, Arfelli F, Dreossi D, Biederer J, Konietzke P, **Stiller W**, Wielpütz MO, Accardo A, Lotz J, Alves F, Kauczor HU, Tromba G, Dullin C. Towards synchrotron phase-contrast lung imaging in patients – a proof-of-concept study on porcine lungs in a human-scale chest phantom. **J Synchrotron Rad** 2018; 25(6): 1827-32. doi: [10.1107/S1600577518013401](https://doi.org/10.1107/S1600577518013401).

**Stiller W**, Skornitzke S, Fritz F, Klauß M, Hansen J, Pahn G, Grenacher L, Kauczor HU. Correlation of Quantitative Dual-energy CT Iodine Maps and Abdominal CT-perfusion Measurements: Are Single-acquisition DECT Iodine Maps More Than a Reduced-Dose Surrogate of Conventional CT Perfusion? **Invest Radiol** 2015; 50(10): 703-8. doi: [10.1097/RLI.0000000000000176](https://doi.org/10.1097/RLI.0000000000000176).

Pahn G, Skornitzke S, Schlemmer HP, Kauczor HU, **Stiller W**. Toward standardized quantitative image quality (IQ) assessment in computed tomography (CT): A comprehensive framework for automated and comparative IQ analysis based on ICRU Report 87. **Phys Med** 2016; 32(1): 104-15. doi: [10.1016/j.ejmp.2015.09.017](https://doi.org/10.1016/j.ejmp.2015.09.017).