

Christian Dullin PD Dr. sc. hum.
d.o.b. November 15th , 1975, in Jena, Germany

University Education

2015 Ph.D. (Dr. sc. hum.), University Medicine Goettingen, Institute for Diagnostic and Interventional Radiology, Goettingen (UMG, Germany)

2001 Dipl. Phys., Studies of technical physics, Friedrich Schiller University Jena (FSU, Germany)

Scientific Career

Since 2022 External Supervisor Italian Synchrotron “Elettra” Trieste, Italy

Since 2020 Research assistant, Institute for Diagnostic and Interventional Radiology, University Hospital Heidelberg, Germany

Since 2019 Junior group leader – “x-ray based preclinical imaging technologies” Institute for Diagnostic and Interventional Radiology, University Hospital Heidelberg, Germany

2019 Habilitation “vena legendi”-experimental radiology, University Medicine Goettingen, Germany

Since 2013 Guest scientist, MPI for Multidisciplinary Sciences, Goettingen, Germany

Since 2004 Research assistant, Institute for Diagnostic and Interventional Radiology, University Medicine Goettingen, Germany

Awards and Honors

2018-2020 leader „study group – x-ray imaging“ of the European Society for Molecular Imaging

2024 Scientific Ambassador – EuroBioImaging Initiative

Since 2017 member of the review panels of the Canadian light source and the EuroBioImaging network

2016 Fellowship Italian Synchrotron “Elettra” Trieste, Italy

Citation Record: **Total citations: 6303** **h-index: 42** (Google Scholar July 2nd, 2024)

Top 10 selected Publications:

J. Albers, S. Pacilé, M. A. Markus, M. Wiart, G. Vande Velde, G. Tromba, and **C. Dullin**: X-Ray-Based 3D Virtual Histology—Adding the Next Dimension to Histological Analysis. (**Molecular Imaging and Biology** (2018): 20 (5): 732–41. <https://doi.org/10.1007/s11307-018-1246-3>).

J. Albers, A. Svetlove, J. Alves, A. Kraupner, F. di Lillo, M. A. Markus, G. Tromba, F. Alves, and **C. Dullin**: Elastic Transformation of Histological Slices Allows Precise Co-Registration with MicroCT Data Sets for a Refined Virtual Histology Approach. (**Scientific Reports** (2021): 11 (1): 10846. <https://doi.org/10.1038/s41598-021-89841-w>).

J. Albers, W. L. Wagner, M. O. Fiedler, A. Rothermel, F. Wünnemann, F. Di Lillo, D. Dreossi, N. Sodini, E. Baratella, M. Confalonieri, F. Arfelli, A. Kalenka, J. Lotz, J. Biederer, M. O. Wielpütz, H.-U. Kauczor, F. Alves, G. Tromba and **C. Dullin**: High Resolution Propagation-Based Lung Imaging at Clinically Relevant X-Ray Dose Levels: (**Scientific Reports** (2023): 13 (1): 4788. <https://doi.org/10.1038/s41598-023-30870-y>).

L. D'Amico, A. Svetlove, E. Longo, R. Meyer, B. Senigagliesi, G. Saccomano, P. Nolte, W. L. Wagner, M. O. Wielpütz, D. H. W. Leitz, J. Duerr, M. A. Mall, L. Casalis, S. Köster, F. Alves, G. Tromba and **C. Dullin**: Characterization of Transient and Progressive Pulmonary Fibrosis by Spatially Correlated Phase Contrast MicroCT, Classical Histopathology and Atomic Force Microscopy. (**Computers in Biology and Medicine** (2024): 169 (February):107947. <https://doi.org/10.1016/j.compbiomed.2024.107947>).

C. Dullin, M. A. Markus, E. Larsson, G. Tromba, S. Hülsmann, and F. Alves: X-Ray Based Lung Function Measurement—a Sensitive Technique to Quantify Lung Function in Allergic Airway Inflammation Mouse Models. (**Scientific Reports** (2016): 6 (1): 36297. <https://doi.org/10.1038/srep36297>).

C. Dullin, J. Albers, A. Tagat, A. Lorenzon, L. D'Amico, S. Chiriotti, N. Sodini, D. Dreossi, F. Alves, A. Bergamaschi and G. Tromba: In Vivo Low-Dose Phase-Contrast CT for Quantification of Functional and Anatomical Alterations in Lungs of an Experimental Allergic Airway Disease Mouse Model. (**Frontiers in Medicine** (2024): 11:1338846. <https://doi.org/10.3389/fmed.2024.1338846>).

C. Dullin, A. Svetlove, J. Zschüntzsch, and F. Alves: Simultaneous Assessment of Lung Morphology and Respiratory Motion in Retrospectively Gated In-Vivo MicroCT of Free Breathing Anesthetized Mice. (**Scientific Reports** (2022): 12 (1): 13299. <https://doi.org/10.1038/s41598-022-17335-4>).

C. Dullin, W. L. Wagner, M. Confalonieri, and G. Tromba: Pulmonary Phase Contrast CT Imaging: A Novel Setup at the Italian Synchrotron for the Study of Fresh Lungs at Human Scale. (**European Respiratory Journal** (2024): 63 (3): 2301604. <https://doi.org/10.1183/13993003.01604-2023>).

M.A. Markus, S. Borowik, M. Reichardt, G. Tromba, F. Alves, and **C. Dullin**: X-Ray-Based Lung Function Measurement Reveals Persistent Loss of Lung Tissue Elasticity in Mice Recovered from Allergic Airway Inflammation. (**American Journal of Physiology-Lung Cellular and Molecular Physiology** (2017.): 313 (5): L763–71. <https://doi.org/10.1152/ajplung.00136.2017>).

W. L. Wagner, **C. Dullin**, S. Andreas, and M. Lizé: Three-Dimensional Assessment of Bronchiectasis in a Mouse Model of Mucociliary Clearance Disorder. (**ERJ Open Research** (2021): 7 (1): 00635–02020. <https://doi.org/10.1183/23120541.00635-2020>).