

Curriculum Vitae

Rory E. Morty Professor & Department Chair
d.o.b. January 4th, 1973, in Durban, South Africa

University Education

1996-1998 Doctor of Philosophy, University of Natal, South Africa
1991-1995 Undergraduate studies, University of Natal, South Africa

Scientific Career

2023 Chair of the Gordon Research Conference: Lung Development, Injury and Repair, Waterville Valley, New Hampshire, U.S.A.

Since 2021 Member of the Steering Committee of the Translational Lung Research Center (TLRC) campus of the German Center for Lung Research (*Deutsches Zentrum für Lungenforschung*, DZL), Heidelberg, Germany

Since 2021 Professor and Chair, Department of Translational Pulmonology, University Hospital Heidelberg, Heidelberg; Germany

Since 2021 Member of the Dissertation Prize Selection Committee of the *Deutsche Lungenstiftung*

Since 2020 Chair of Group 07.08 “Lung and Airway Developmental Biology” at the *European Respiratory Society*

Since 2020 Member of the Editorial Board, *Physiological Reviews*

2019 Vice-Chair of the Gordon Research Conference: Lung Development, Injury and Repair, Waterville Valley, New Hampshire, U.S.A.

Since 2018 Editor-in-Chief: *American Journal of Physiology–Lung Cell and Molecular Physiology*

Since 2017 Co-Coordinator (together with Silke Meiners) of the German Center for Lung Research (*Deutsches Zentrum für Lungenforschung*, DZL) Academy

2016 Founded Group 07.08 “Lung and Airway Developmental Biology” at the *European Respiratory Society*

2016-2019 Fellowships & Awards Director of the *European Respiratory Society*

2015-2018 Deputy Editor: *American Journal of Physiology–Lung Cell and Molecular Physiology*

2015-2017 Associate Editor: *Pharmacology and Therapeutics*

2014-2016 Member of the Fellowships & Awards Working Group of the *European Respiratory Society*

2014-2017 Review Editor: *Frontiers of Medicine*

2013-2016 Member of the Editorial Board: *Physiological Reports*

2013 Member of the Program Committee of the Assembly on Respiratory Cell and Molecular Biology of the *American Thoracic Society*

2013 Appointed Member of the Nominating Committee of the Assembly on Respiratory Cell and Molecular Biology of the *American Thoracic Society*

Since 2012 Member of the Editorial Board: *American Journal of Respiratory Cell and Molecular Biology*

2011-2015 Area Leader (together with Konstantin Mayer) Area “ARDS and Pneumogenic Sepsis” of the University of Giessen and Marburg Lung Centre (UGMLC), Justus Liebig University School of Medicine, Giessen, Germany

2011-2014 Area Leader (together with Jürgen Lohmeyer) “Acute Lung Injury” of the “Excellence Cluster Cardio-Pulmonary System” (ECCPS) of the Universities of Giessen and Frankfurt and the Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany

2011-2016 Member of the Research Fellowships evaluation panel of the *European Respiratory Society*

2010-2021 Coordinator, University of Giessen and Marburg Lung Center (UGMLC) School, Justus Liebig University School of Medicine, Giessen, Germany

2010-2021 Independent Research Group Leader (Associate Professor level), Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany

- Since 2010 Member of the Editorial Board: *American Journal of Respiratory and Critical Care Medicine*
- 2010-2016 Standing Member of the Education and Training Committee of the “Excellence Cluster Cardio-Pulmonary System” (ECCPS) of the Universities of Giessen and Frankfurt and the Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany
- 2009-2021 Director of the International Graduate Programme “Molecular Biology and Medicine of the Lung” of the Justus Liebig University, Giessen, Germany
- 2007-2010 Staff scientist (Assistant Professor level), Department of Pulmonology, Justus Liebig University School of Medicine, Giessen, Germany
- Since 2007 Founding Associate Editor, *PLOS ONE*
- 2005-2007 Post-doctoral researcher, Department of Pulmonology, Justus Liebig University School of Medicine, Giessen, Germany
- 2003-2009 Deputy Director of the International Graduate Programme “Molecular Biology and Medicine of the Lung” of the Justus Liebig University, Giessen, Germany
- 2002-2004 Fellow of the Alexander von Humboldt Foundation, within the Department of Pulmonology, Justus Liebig University School of Medicine, Giessen, Germany
- 1998-2001 Fellowship in Infectious Disease (Tropical Medicine), Section of Microbial Pathogenesis, Yale University School of Medicine, New Haven Connecticut, U.S.A.

Awards and Honors

- 2007 Research Prize of the René Baumgart Foundation.

Citation Record

Total citations: 8,209; *h-index*: 57 (Google Scholar June 5th, 2023)

Top-10 selected Publications

Ruiz-Camp J, Quantius J, Lignelli E, Arndt PF, Palumbo F, Nardiello C, Surate Solaligue DE, Sakkas E, Mižíková I, Rodríguez-Castillo JA, Vadász I, Richardson WD, Ahlbrecht K, Herold S, Seeger W, **Morty RE**. Targeting *miR-34a/Pdgfra* interactions partially corrects alveologenesis in experimental bronchopulmonary dysplasia. *EMBO Mol Med*. 2019 Mar;11(3):e9448. doi: [10.15252/emmm.201809448](https://doi.org/10.15252/emmm.201809448).

Dzhuraev G, Rodríguez-Castillo JA, Ruiz-Camp J, Salwig I, Szibor M, Vadász I, Herold S, Braun T, Ahlbrecht K, Atzberger A, Mühlfeld C, Seeger W, **Morty RE**. Estimation of absolute number of alveolar epithelial type 2 cells in mouse lungs: a comparison between stereology and flow cytometry. *J Microsc*. 2019 Jul;275(1):36-50. doi: [10.1111/jmi.12800](https://doi.org/10.1111/jmi.12800).

Kalymbetova TV, Selvakumar B, Rodríguez-Castillo JA, Gunjak M, Malainou C, Heindl MR, Moiseenko A, Chao CM, Vadász I, Mayer K, Lohmeyer J, Bellusci S, Böttcher-Friebertshäuser E, Seeger W, Herold S, **Morty RE**. Resident alveolar macrophages are master regulators of arrested alveolarization in experimental bronchopulmonary dysplasia. *J Pathol*. 2018 Jun;245(2):153-159. doi: [10.1002/path.5076](https://doi.org/10.1002/path.5076).

Hönig J, Mižíková I, Nardiello C, Surate Solaligue DE, Daume MJ, Vadász I, Mayer K, Herold S, Günther S, Seeger W, **Morty RE**. Transmission of microRNA antimirs to mouse offspring via the maternal-placental-fetal unit. *RNA*. 2018 Jun;24(6):865-879. doi: [10.1261/rna.063206.117](https://doi.org/10.1261/rna.063206.117).

Nardiello C, Mižíková I, Silva DM, Ruiz-Camp J, Mayer K, Vadász I, Herold S, Seeger W, **Morty RE**. Standardisation of oxygen exposure in the development of mouse models for bronchopulmonary dysplasia. *Dis Model Mech*. 2017 Feb 1;10(2):185-196. doi: [10.1242/dmm.027086](https://doi.org/10.1242/dmm.027086).

Mižíková I, Ruiz-Camp J, Steenbock H, Madurga A, Vadász I, Herold S, Mayer K, Seeger W, Brinckmann J, **Morty RE**. Collagen and elastin cross-linking is altered during aberrant late lung development associated with hyperoxia. *Am J Physiol Lung Cell Mol Physiol*. 2015 Jun 1;308(11):L1145-58. doi: [10.1152/ajplung.00039.2015](https://doi.org/10.1152/ajplung.00039.2015).

Nave AH, Mižíková I, Niess G, Steenbock H, Reichenberger F, Talavera ML, Veit F, Herold S, Mayer K, Vadász I, Weissmann N, Seeger W, Brinckmann J, **Morty RE**. Lysyl oxidases play a causal role in vascular remodeling in clinical and experimental pulmonary arterial hypertension. *Arterioscler Thromb Vasc Biol*. 2014 Jul;34(7):1446-58. doi: [10.1161/ATVBAHA.114.303534](https://doi.org/10.1161/ATVBAHA.114.303534).

Peters DM, Vadász I, Wujak L, Wygrecka M, Olschewski A, Becker C, Herold S, Papp R, Mayer K, Rummel S, Brandes RP, Günther A, Waldegger S, Eickelberg O, Seeger W, **Morty RE**. TGF- β directs trafficking of the epithelial sodium channel ENaC which has implications for ion and fluid transport in acute lung injury. *Proc Natl Acad Sci U S A*. 2014 Jan 21;111(3):E374-83. doi: [10.1073/pnas.1306798111](https://doi.org/10.1073/pnas.1306798111).

Kumarasamy A, Schmitt I, Nave AH, Reiss I, van der Horst I, Dony E, Roberts JD Jr, de Krijger RR, Tibboel D, Seeger W, Schermuly RT, Eickelberg O, **Morty RE**. Lysyl oxidase activity is dysregulated during impaired alveolarization of mouse and human lungs. *Am J Respir Crit Care Med*. 2009 Dec 15;180(12):1239-52. doi: [10.1164/rccm.200902-0215OC](https://doi.org/10.1164/rccm.200902-0215OC).

Alejandro-Alcázar MA, Kwapiszewska G, Reiss I, Amarie OV, Marsh LM, Sevilla-Pérez J, Wygrecka M, Eul B, Köbrich S, Hesse M, Schermuly RT, Seeger W, Eickelberg O, **Morty RE**. Hyperoxia modulates TGF-beta/BMP signaling in a mouse model of bronchopulmonary dysplasia. *Am J Physiol Lung Cell Mol Physiol*. 2007 Feb;292(2):L537-49. doi: [10.1152/ajplung.00050.2006](https://doi.org/10.1152/ajplung.00050.2006).