Curriculum Vitae

Ivana Mižik, PhD

d.o.b. June 20th, 1988, in Košice, Czechoslovakia

University Education

2012-2018	PhD studies, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany; Faculties of Veterinary Medicine and Medicine, University of Giessen Lung Center, Giessen, Germany.
2009-2011	Master of Science Degree studies, Genetics and Molecular Cytology. University of P.J. Šafárik, Košice, Slovakia.
2010	Master of Science Degree studies, University of Oulu, Oulu, Finland.
2006-2009	Bachelor's Degree studies, Biology. University of P.J. Šafárik, Košice, Slovakia.

Scientific Career

Since 2025	Director. The Translational Lung Research College (TLRCollege). Translational Lung Research Center Heidelberg (TLRC), German Center for Lung Research (DZL), Heidelberg, Germany
Since 2024	Junior Research Group Leader, Department of Translational Pulmonology, Heidelberg University Hospital, member of Translational Lung Research Center (TLRC) and German Center for Lung Research (DZL)
2023-2025	Deputy director. International graduate programme Molecular Biology and Medicine of the Lung (MBML). University of Giessen Lung Center, Giessen, Germany.
2021-2023	Postdoctoral researcher. Department of Pediatric and Adolescent Medicine, University Hospital of Cologne, Medical Faculty, Cologne, Germany.
2018-2021	Postdoctoral fellow. Regenerative Medicine Program. Ottawa Hospital Research Institute, Ottawa, ON, Canada.
2016-2018 & 2021-2022	Tutor. International graduate programme Molecular Biology and Medicine of the Lung. University of Giessen Lung Center, Giessen, Germany.
2014-2015	Human tissue processing for Biobank. Trans MIT Gesellschaft für Technologietransfer GmbH, Giessen, Germany.

Awards and Honors

2024	DFG Individual Research Grant. German Research Foundation (DFG)
2023	Köln Fortune Programm research start-up funding. Faculty of Medicine, University of Cologne.
2021	DFG Return Grant. German Research Foundation (DFG)
2019	StemCell Network Travel Award. Annual Till & McCulloch Meeting, Montréal, QC, Canada.
2019	Postdoctoral Fellowship Award. German Research Foundation (DFG)
2013	Travel award. International graduate programme Molecular Biology and Medicine of the Lung.

Citation Record

Total citations: 1,742; *h-index: 18; h-index since 2021: 16* (Google Scholar June 1st, 2026)

Top-10 selected Publications
(ORCHID ID: 0000-0002-3440-9133, Mižik/Mižíková)

Renesme L, Lesage F, Cook DP, Achutan A., Zhong S, Hänninen SM, Carpén O, Mižik I*, Thébaud B*. A human single-nuclei atlas reveals novel cell states during the pseudoglandular-to-canalicular transition. Am J Respir Cell Mol BIol, 2025, Apr 8. doi: 10.1165/rcmb.2024-0244OC

Kuiper-Makris C, Fahle L, Zeitouny C, Vohlen C, Klymenko O, Stephan S, Mižik I, Bae-Gartz I, Selle J, Hirani D, Belu A, Hucho T, Koenig J, Wagner JUG, Mahabir E, Seeger W, Dötsch J, Alejandre Alcazar MA. BDNF-TrkB Signaling Maintains AT2 Survival and Is Blocked in Hyperoxia-induced Neonatal Lung Injury. Am J Respir Cell Mol Biol. 2025 Apr 8. doi: 10.1165/rcmb.2024-0198OC.

C. Cyr-Depauw, I. Mižik, D.P. Cook, F. Lesage, A Vadivel, L. Renesme, Y. Deng, S. Zhong, Pauline Bardin, L. Xu, M. A. Möbius, J. Marzahn, D. Freund, D. J. Stewart, B. C. Vanderhyden, M. Rüdiger, B. Thébaud. Single-Cell RNA Sequencing to Guide Autologous Preterm Cord Mesenchymal Stromal Cell-Therapy. Am J Respir Crit Care Med, 2025; 211(3):391-406. doi: 10.1164/rccm.202403-0569OC.PMID: 39586004

C. Cyr-Depauw, D.P. Cook, I. Mižik, F. Lesage, A Vadivel, L. Renesme, Y. Deng, S. Zhong, Pauline Bardin, L. Xu, M. A. Möbius, J. Marzahn, D. Freund, D. J. Stewart, B. C. Vanderhyden, M. Rüdiger, B. Thébaud. Single-Cell RNA Sequencing Reveals Repair Features of Human Umbilical Cord Mesenchymal Stromal Cells. Am J Respir Crit Care Med, 2024; 210(6):814-827. doi: 10.1164/rccm.202310-1975OC.PMID: 38564376

Mižíková I.*, Hurskainen M.*, Cook D.P, Andersson N., Cyr-Depauw C., Lesage F., Helle E., Renesme L., Jankov R.P., Heikinheimo M., Vanderhyden B.C., Thébaud B. Single cell transcriptomic analysis of murine lung development on hyperoxia-induced damage. Nat Commun, 2021; 12(1):1565. https://doi.org/10.1038/s41467-021-21865-2

Kang MH, van Lieshout LP, Xu L, Domm JM, Vadivel A, Renesme L, Mühlfeld C, Hurskainen M, Mižíková I , Pei Y, van Vloten JP, Thomas SP, Milazzo C, Cyr-Depauw C, Whitsett JA, Nogee LM, Wootton SK, Thébaud B. A lung tropic AAV vector improves survival in a mouse model of surfactant B deficiency. Nature Commun, 2020; 11(1):3929. https://doi.org/10.1038/s41467-020-17577-8

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. 11(3):e9448. https://doi.org/10.15252/emmm.201809448

Mižíková I, Pfeffer T, Nardiello C, Surate Solaligue DE, Steenbock H, Tatsukawa H, Silva DM, Vadász I, Herold S, Pease RJ, Iismaa SE, Hitomi K, Seeger W, Brinckman J, Morty RE. Targeting transglutaminase 2 during aberrant alveolarization partially restores extracellular matrix structure but not alveolar architecture in developing lungs. FEBS J; 2018. 285(16):3056-3076. https://doi.org/10.1111/febs.14596

Hönig J, Mižíková I, Nardiello C, Surate Solaligue DE, Daume MJ, Vadász I, Mayer K, Herold S, Günter S, Seeger W, Morty RE. Transmission of microRNA antimiRs to Mouse Offspring via the Maternal-Placental-Fetal Unit. RNA, 2018. 24(6):865-879. https://doi.org/ 10.1261/rna.063206.117

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. 34(7): p. 1446-58. https://doi.org/ 10.1161/ATVBAHA.114.303534