Curriculum Vitae

István Vadász Dr. biol. hom., dr. med.
d.o.b. August 24th, 1977, in Szolnok, Hungary

University Education

2020	Doctorate, JLU
2002 - 2005	International Graduate Program "Molecular Biology and Medicine of the Lung" (MBML), Justus Liebig University (JLU), Giessen, Germany
2001	Doctorate Medicine, University of Szeged, Szeged, Hungary
1995 - 2001	Studies of Medicine, Albert Szent-Györgyi School of Medicine, University of Szeged, Szeged, Hungary

Scientific Career

Since 2021	Vice chair, Department of Internal Medicine, JLU
Since 2021	Adjunct associate professor, Division of Pulmonary and Critical Care Medicine, Feinberg School of Medicine, Northwestern University, Chicago, Illinois, U.S.A.
Since 2020	Managing senior physician and head of the Intensive Care Unit, Department of Internal Medicine, JLU
2020-2021	Adjunct assistant professor, Division of Pulmonary and Critical Care Medicine, Feinberg School of Medicine, Northwestern University, Chicago, Illinois, U.S.A.
Since 2018	Senior physician, Department of Internal Medicine, JLU
Since 2018	Board certification, Infectious diseases (LÄK Hessen)
Since 2017	Board certification, Pulmonology (LÄK Hessen)
Since 2015	Board certification, Critical care medicine (LÄK Hessen)
Since 2013	Board certification, Internal medicine (LÄK Hessen)
Since 2012	Faculty member of the German Center for Lung Research (DZL)
Since 2011	Faculty member of the Excellence Cluster Cardio-Pulmonary System/Cardio-Pulmonary Institute (ECCPS/CPI)
Since 2010	Faculty member of the Universities of Giessen and Marburg Lung Center (UGLMC)
Since 2008	Faculty member of the International Graduate Program "Molecular Biology and Medicine of the Lung" (MBML)
Since 2007	Independent research group leader, Department of Internal Medicine, JLU
2007 - 2013	Internship and Residency, Department of Internal Medicine, JLU
2005 - 2006	Postdoctoral Fellow, Division of Pulmonary and Critical Care Medicine, Feinberg School of Medicine, Northwestern University, Chicago, Illinois, U.S.A.

Awards and Honors

Since 2021	Associate editor, Frontiers in Immunology
Since 2018	Editorial board member, American Journal of Physiology – Lung Cellular and Molecular Physiology
Since 2017	Editorial board member, American Journal of Respiratory Cell and Molecular Biology
2016 - 2021	Editorial board member, Frontiers in Immunology
2012 - 2016	ECCPS Clinical Career Research Grant
Since 2010	Editorial board member, American Journal of Respiratory and Critical Care Medicine
2010 - 2012	Else Kröner Fresenius Memorial Stipend
2007 - 2013	Editorial board member, Proceedings of the American Thoracic Society
2007 - 2008	Postdoctoral research fellowship, Alexander von Humboldt Foundation
2001	Prize for "Outstanding Dissertation", Albert Szent-Györgyi School of Medicine

Citation Record

Total citations: 3.437; *h-index: 35; h-index since 2017: 29* (Google Scholar October 4th, 2022)

Top-10 selected Publications

Kryvenko V, Wessendorf M, Tello K, Herold S, Morty RE, Seeger W, ***Vadász I***. Hypercapnia induces inositol-requiring enzyme 1 α-driven endoplasmic reticulum-associated degradation of the Na,K-ATPase β-subunit. **Am J Respir Cell Mol Biol** 2021; 65(6):615-629. doi: 10.1165/rcmb.2021-0114OC.

Gabrielli NM, Mazzocchi LC, Kryvenko V, Tello K, Herold S, Morty RE, Grimminger F, Dada LA, Seeger W, Sznajder JI, ***Vadász I***. TRAF2 is a novel ubiquitin E3 ligase for the Na,K-ATPase β-Subunit that drives alveolar epithelial dysfunction in hypercapnia. **Front Cell Dev Biol** 2021; 9:689983. doi: 10.3389/fcell.2021.

Vadász I, Husain-Syed F, Dorfmüller P, Roller FC, Tello K, Hecker M, Morty RE, Gattenlöhner S, Walmrath HD, Grimminger F, Herold S, Seeger W. Severe organising pneumonia following COVID-19. **Thorax** 2021; 76(2):201-204. doi: 10.1136/thoraxjnl-2020-216088.

Vohwinkel CU, Buchäckert Y, Al-Tamari HM, Mazzocchi LC, Eltzschig HK, Mayer K, Morty RE, Herold S, Seeger W, Pullamsetti SS, ***Vadász I***. Restoration of megalin-mediated clearance of alveolar protein as a novel therapeutic approach for acute lung injury. **Am J Respir Cell Mol Biol** 2017; 57(5):589-602. doi: 10.1165/rcmb.2016-0358OC.

Gwoździńska P, Buchbinder BA, Mayer K, Herold S, Morty RE, Seeger W, ***Vadász I***. Hypercapnia impairs ENaC cell surface stability by promoting phosphorylation, polyubiquitination and endocytosis of β-ENaC in a human alveolar epithelial cell line. **Front Immunol** 2017; 8:591. doi: 10.3389/fimmu.2017.00591.

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; 111(3):E374-83. doi: 10.1073/pnas.1216382110.

Buchäckert Y, Rummel S, Vohwinkel CU, Gabrielli NM, Grzesik BA, Mayer K, Herold S, Morty RE, Seeger W, ***Vadász I***. Megalin mediates transepithelial albumin clearance from the alveolar space of intact rabbit lungs. **J Physiol** 2012; 590(20):5167-81. doi: 10.1113/jphysiol.2012.233403.

Vadász I, Dada LA, Briva A, Trejo HE, Welch LC, Chen J, Tóth PT, Lecuona E, Witters LA, Schumacker PT, Chandel NS, Seeger W, Sznajder JI. AMP-activated protein kinase regulates CO2-induced alveolar epithelial dysfunction in rats and human cells by promoting Na,K-ATPase endocytosis. **J Clin Invest** 2008; 118(2):752-62. doi: 10.1172/JCI29723.

Vadász I, Schermuly RT, Ghofrani HA, Rummel S, Wehner S, Mühldorfer I, Schäfer KP, Seeger W, Morty RE, Grimminger F, Weissmann N. The lectin-like domain of tumor necrosis factor-alpha improves alveolar fluid balance in injured isolated rabbit lungs. **Crit Care Med** 2008; 36(5):1543-50. doi: 10.1097/CCM.0b013e31816f485e.

Vadász I, Morty RE, Kohstall MG, Olschewski A, Grimminger F, Seeger W, Ghofrani HA. Oleic acid inhibits alveolar fluid reabsorption: a role in acute respiratory distress syndrome? **Am J Respir Crit Care Med** 2005; 171(5):469-79. doi: 10.1164/rccm.200407-954OC.