**Mahdi Amiri (PhD)**
OE 6811
Department of Gastroenterology, Hepatology and Endocrinology
Hannover Medical School

*Tel:* +49 (0)511 / 5 32 - 87 34
*Email:* Amiri.Mahdi@Mh-Hannover.de

## Education and scientific experience

Since 2017

*Department of Gastroenterology, Hepatology and Endocrinology, Hannover Medical School, Hannover, Germany*
Postdoctoral research assistant
*Subject:* Molecular physiology of the intestinal ion transporters

2014-2017

*Department of Physiological Chemistry, University of Veterinary Medicine Hannover, Hannover, Germany*
Postdoctoral research assistant
*Subjects:* Molecular basis of the intracellular transport and function of the intestinal disaccharidases in health and disease

2010- 2014

*Department of Physiological Chemistry, University of Veterinary Medicine Hannover, Hannover, Germany*
PhD student in Cell Biology and Biochemistry
*Subjects:* The effect of N-butyl deoxynojirimycin (Miglustat) on the structure, function and trafficking of the intestinal glycoproteins.

Summer 2008

*Institute of Human Genetics, Georg-August-Universität Göttingen, Germany*
Visiting research trainee

2006-2009

*University College of Science, University of Tehran, Tehran, Iran*
Master of Science in Cellular and Molecular Biology
*Subjects:* Construction of proteoliposome nano-particles by reconstitution of purified lactase-phlorizin hydrolase from intestine.

2002-2006

*Department of Biology, Faculty of Science, University of Lorestan, Khoramabad, Iran*
Bachelors of Science in Biology,

## Publications

- Yu, Y., Seidler, A., Zhou, K., Yuan, Z., Yeruva, S., **Amiri, M.**, Yun, C. C., Nikolovska, K., and Seidler, U. (**2019**) Expression, Localization and Functional Activity of the Major Na(+)/H(+) Exchange Isoforms Expressed in the Intestinal Cell Line Caco-2BBe. Cellular physiology and biochemistry. International Journal of Experimental Cellular Physiology, Biochemistry, and Pharmacology 52, 1017-1038
- **Amiri, M.**, and Naim, H. Y. (**2018**) Posttranslational Processing and Function of Mucosal Maltases. Journal of Pediatric Gastroenterology and Nutrition 66, S18-S23
- Chegeni, M., **Amiri, M.**, Nichols, B. L., Naim, H. Y., and Hamaker, B. R. (**2018**) Dietary starch breakdown product sensing mobilizes and apically activates -glucosidases in small intestinal enterocytes. Faseb Journal 32, 3903-3911

- Naim, H. Y., **Amiri, M.**, and Zimmer, K.-P. (**2018**) 15.3a Genetically determined disaccharidase deficiency. in Walker's Pediatric Gastrointestinal Disease: Physiology, Diagnosis, Management (Kleinman, R. E., Goulet, O. J., Mieli-Vergani, G., Sanderson, I. R., Sherman, P. M., and Shneider, B. L. eds.), People's Medical Publishing House-USA.
- Hoter, A., **Amiri, M.**, Prince, A., Amer, H., Warda, M., and Naim, H. Y. (**2018**) Differential Glycosylation and Modulation of Camel and Human HSP Isoforms in Response to Thermal and Hypoxic Stresses. International Journal of Molecular Sciences 19 (2), 402
- Hoter, A., **Amiri, M.**, Warda, M., and Naim, H. Y. (**2018**) Molecular cloning, cellular expression and characterization of Arabian camel (Camelus dromedarius) endoplasmin. International Journal of Biological Macromolecules 117, 574-585
- **Amiri, M.**, and Naim, H. Y. (**2017**) Characterization of Mucosal Disaccharidases from Human Intestine. Nutrients 9, 1106
- Gericke, B.*, **Amiri, M.***, Scott, C. R., and Naim, H. Y. (**2017**) Molecular pathogenicity of novel sucrase-isomaltase mutations found in congenital sucrase-isomaltase deficiency patients. Biochimica Et Biophysica Acta-Molecular Basis of Disease 1863, 817-826
- Gericke, B., Schecker, N., **Amiri, M.***, and Naim, H. Y.* (**2017**) Structure-function analysis of human sucrase-isomaltase identifies key residues required for catalytic activity. J. Biol. Chem. 292, 11070-11078
- Diekmann, L., Behrendt, M., **Amiri, M.**, and Naim, H. Y. (**2017**) Structural determinants for transport of lactase phlorizin-hydrolase in the early secretory pathway as a multi-domain membrane glycoprotein. Biochimica Et Biophysica Acta-General Subjects 1861, 3119-3128
- Brogden, G., Shammas, H., Maalouf, K., Naim, S. L., Wetzel, G., **Amiri, M.**, von Kockritz-Blickwede, M., Das, A. M., and Naim, H. Y. (**2017**) Case study on the pathophysiology of Fabry disease: abnormalities of cellular membranes can be reversed by substrate reduction in vitro. Bioscience Reports 37 (2)
- Gericke, B.*, **Amiri, M.***, and Naim, H. Y. (**2016**) The multiple roles of sucrase-isomaltase in the intestinal physiology. Molecular and cellular pediatrics 3, 2
- **Amiri, M.***, Diekmann, L.*, von Kockritz-Blickwede, M., and Naim, H. Y. (**2015**) The Diverse Forms of Lactose Intolerance and the Putative Linkage to Several Cancers. Nutrients 7, 7209-7229
- **Amiri, M.**, Kuech, E.-M., Shammas, H., Wetzel, G., and Naim, H. Y. (**2015**) The Pathobiochemistry of Gastrointestinal Symptoms in a Patient with Niemann-Pick Type C Disease. JIMD reports 25, 25-29
- Punyadarsaniya, D., Winter, C., Mork, A. K., **Amiri, M.**, Naim, H. Y., Rautenschlein, S., and Herrler, G. (**2015**) Precision-cut intestinal slices as a culture system to analyze the infection of differentiated intestinal epithelial cells by avian influenza viruses. Journal of Virological Methods 212, 71-75
- **Amiri, M.**, and Naim, H. Y. (**2014**) Long term differential consequences of miglustat therapy on intestinal disaccharidases. Journal of Inherited Metabolic Disease 37, 929-937
- **Amiri, M.**, and Naim, H. Y. (**2012**) Miglustat-induced intestinal carbohydrate malabsorption is due to the inhibition of alpha-glucosidases, but not beta-galactosidases. Journal of Inherited Metabolic Disease 35, 949-954
- Behrendt, M., Krahn, M. P., Al-Bayati, H., **Amiri, M.**, Rizk, S., and Naim, H. Y. (**2012**) Cadherin-related protein 24 induces morphological changes and partial cell polarization by facilitating direct cell-cell interactions. Biological chemistry 393, 495-503