

Curriculum Vitae

Univ. Prof. Lukas A. Huber, M.D.

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ORCID ID: 0000-0003-1116-2120

Personal Data

Place of Birth Vienna, Austria
Nationality Austria
Family Status married, 3 children (born 1993, 1996, 1996)

Research Interests Cancer, congenital enteropathies, inflammation, rprotein transport and sorting, egulation of lipolysis; spatial and temporal resolution of signaling mechanisms in mammalian cells applying molecular cell biology, mouse genetics, and functional proteomics.

University Education

1989 MD, Medical School, University of Innsbruck, Austria
1987 - 1989 Thesis, "Immunology of Ageing: Immuno regulatory Properties of Lipoproteins". Institute for General and Experimental Pathology, University of Innsbruck, Medical School, Austria, Prof. Dr. Georg Wick

Career History

since 2012 Director of the Austrian Drug Screening Institute under the patronage of the Austrian Academy of Sciences (ÖAW)
since 2009 CSO, Center for Personalized Medicine, ONCOTYROL, Innsbruck
2007 - 2008 Co-Director of the Integrated Research and Therapy Center (IFTZ), Innsbruck
2005 - 2013 Founding Director of the Biocenter, Medical University of Innsbruck
2002 - 2004 Head of Histology and Molecular Cell Biology, Medical University of Innsbruck
since 2002 Professor for Cell Biology, Medical University of Innsbruck
1996 - 2002 Group Leader, Institute of Molecular Pathology, IMP, Vienna, Austria
1995 *Venia Legendi* in General and Experimental Pathology, University of Innsbruck, Medical School
1993 - 1995 Maître Assistant (Prof. Dr. Jean Gruenberg), Département de Biochimie, Université de Genève, Sciences II, Genève, Switzerland,
1990 - 1993 Postdoc at the European Molecular Biology Laboratory (EMBL) (Prof. Dr. Kai Simons), Cell Biology Program, Heidelberg, Germany

Career-Related Activities and Memberships

2013 - 2017 Austrian delegate in the International Agency for Research on Cancer-IARC Scientific Council (WHO)

since 2014 Vice President, Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT)

since 2014 Chair of Management Board of Wings4Innovation, Austria

since 2016 Advisory Board Member Max Planck Institute for Infection Biology, Berlin

Journals and **Senior Editor:** Proteomics, Proteomics Clinical Applications, FEBS Letters;

Funding **Associate Editor:** Current and Molecular Life Sciences, Current Opinion in Organizations Molecular Therapeutics, Current Signal Transduction Therapy, Frontiers Cell and Developmental Biology;

Reviewing boards: DFG, Cancer UK, BAYGENE, EUROSTARS, Max Planck, BMBF program "National Consortium for Translational Cancer Research", BMBF program "Systems Medicine", International Agency for Research on Cancer-IARC, ÖNB, Research Agency of Lower Austria, Swiss National Science Foundation.

Top 5 Activities as Reviewer

Deutsche Forschungsgemeinschaft (DFG) (SFB and DK)
 Netherlands Organisation for Scientific Research
 Deutscher Wissenschaftsrat
 Deutsche Krebshilfe
 Cancer UK
 Swiss National Funds
 Cell, Nature, Science, J Cell Biology, EMBO J

Top 5 Honors and Awards

2007 CAST Technology Award
 1996 Research Prize, German Society for Cell Biology
 1996 Tuba Award for Ageing Research
 1995 Johnson&Johnson Focused Giving Award
 1990 Höchst prize

Top 5 Scientific Talks (Invited Lectures 2017)

2018 CESAR Symposium, Berlin, Germany
 2018 CCC-TRIO Translational Research & Immunoonocology

2017	ÖGMBT, Innsbruck, Austria
2017	Platform for Personalized Cancer Medicine, Vienna, Austria
2017	Max Planck Symposium, Berlin, Germany
2017	ÖGHO, Vienna, Austria

International Cooperation Partners (last five years)

Christer Ejsing, University of Southern Denmark, Odense, Denmark; cse@bmb.sdu.dk

Ernest Cutz, University of Toronto, Toronto, Canada; ernest.cutz@sickkids.ca

Jörg Heeren, UKE Hamburg, Germany, heeren@uke.de

Hans Clevers, University Utrecht, Utrecht, The Netherlands, h.clevers@hubrecht.eu

Publications

<https://scholar.google.at/citations?user=UbaAcflAAAAJ&hl=de>

Top 10 Scientific Publications

1. Araujo MEG, Naschberger A, Fürnrohr BG, Stasyk T, Dunzendorfer-Matt T, Lechner S, Welti S, Kremser L, Shivalingaiah G, Offterdinger M, Lindner HH, **Huber LA***, Scheffzek K.* Crystal structure of the human lysosomal mTORC1 scaffold complex and its impact on signaling. *Science* 2017; doi: 10.1126/science.aao1583. Epub 2017 Sep 21. *equal contribution as corresponding authors
2. Filipek PA, Araujo MEG, Vogel GF, De Smet CH, Eberharter D, Rebsamen M, Rudashevskaya EL, Kremser L, Yordanov T, Tschalkner P, Fürnrohr BG, Lechner S, Dunzendorfer-Matt T, Scheffzek K, Bennett KL, Surperti-Furga G, Lindner HH, Stasyk T, **Huber LA**. LAMTOR/Ragulator is a negative regulator of Arl8b- and BORG-dependent late endosomal positioning. *J Cell Biol.* 2017; doi: 10.1083/jcb.201703061. Epub 2017 Oct 9.
3. Vogel GF, Klee KM, Janecke AR, Müller T, Hess MW, **Huber LA**. Cargo-selective apical exocytosis in epithelial cells is conducted by Myo5B, Slp4a, Vamp7, and Syntaxin 3. *J Cell Biol.* 2015; 211:587-604. doi: 10.1083/jcb.201506112.
4. Rebsamen M, Pochini L, Stasyk T, de Araujo ME, Galluccio M, Kandasamy RK, Snijder B, Fauster A, Rudashevskaya EL, Bruckner M, Scorzoni S, Filipek PA, HuberKV, Bigenzahn JW, Heinz LX, Kraft C, Bennett KL, Indiveri C, **Huber LA**, Superti-Furga G. SLC38A9 is a component of the lysosomal amino acid sensing machinery that controls mTORC1. *Nature.* 2015; 519:477-81. doi: 10.1038/nature14107.
5. Scheffler JM, Sparber F, Tripp CH, Herrmann C, Humenberger A, Blitz J, Romani N, Stoitzner P, **Huber LA**. LAMTOR2 regulates dendritic cell homeostasis through

FLT3-dependent mTOR signaling. *Nat Commun.* 2014; 5:5138. doi: 10.1038/ncomms6138.

6. Schiefermeier N, Scheffler JM, de Araujo ME, Stasyk T, Yordanov T, Ebner HL, Offterdinger M, Munck S, Hess MW, Wickström SA, Lange A, Wunderlich W, Fässler R, Teis D, **Huber LA**. The late endosomal p14-MP1 (LAMTOR2/3) complex regulates focal adhesion dynamics during cell migration. *J Cell Biol.* 2014; 205:525-40. doi: 10.1083/jcb.201310043.
7. Müller T, Hess MW, Schiefermeier N, Pfaller K, Ebner HL, Heinz-Erian P, Ponstingl H, Partsch J, Röllinghoff B, Köhler H, Berger T, Lenhartz H, Schlenck B, Houwen RJ, Taylor CJ, Zoller H, Lechner S, Goulet O, Utermann G, Ruemmele FM, **Huber LA***, Janecke AR*. MYO5B mutations cause microvillus inclusion disease and disrupt epithelial cell polarity. *Nat Genet.* 2008; 40:1163-5. doi: 10.1038/ng.225. **equal contribution as corresponding authors*
8. Teis D, Taub N, Kurzbauer R, Hilber D, de Araujo ME, Erlacher M, Offterdinger M, Villunger A, Geley S, Bohn G, Klein C, Hess MW, **Huber LA**. p14-MP1-MEK1 signaling regulates endosomal traffic and cellular proliferation during tissue homeostasis. *J Cell Biol.* 2006; 175:861-8. doi: 10.1083/jcb.200607025.
9. Teis D, Wunderlich W, **Huber LA**. Localization of the MP1-MAPK scaffold complex to endosomes is mediated by p14 and required for signal transduction. *Dev Cell.* 2002; 3:803-14. doi: 10.1016/S1534-5807(02)00364-7.
10. Wunderlich W, Fialka I, Teis D, Alpi A, Pfeifer A, Parton RG, Lottspeich F, **Huber LA**. A novel 14-kilodalton protein interacts with the mitogen-activated protein kinase scaffold mp1 on a late endosomal/lysosomal compartment. *J Cell Biol.* 2001; 152:765-76. doi: 10.1083/jcb.152.4.765.

Funds obtained by the project part leader (March 2013 -2018) – Table 8

Project leader	Project title	Amount of funding	Funding agency	Funding period
Lukas A. Huber	SFB021 Cell Death and Differentiation	€ 1,019,280	FWF	Until 12/2013
Lukas A. Huber	MCBO – Ph.D. Program (DK) for Molecular Cell Biology and Oncology	€ 247,000	FWF, Medical University of Innsbruck	2012-2018
Lukas A. Huber	Austrian Drug Screening Institute-ADSI	€ 2,750,000	BMWF, Tyrol and Bionorica	2016-2019
Lukas A. Huber	Structure-Function Analysis of the Late Endosomal LAMTOR Complex	€ 410,760	FWF	2014-2018
Lukas A. Huber	Precision Cancer Medicine-PreCanMed	€ 344,000	EU, INTERREG ITAT1009	2017-2019

PhD students supervised by the project part leader (March 2013 – 2018) - Table 9

Project leader	Name of the student	Title of the thesis	Year of graduation
Lukas A. Huber	Cornelia Thöni	Molecular mechanisms in the pathogenesis of Microvillus	2013

		Inclusion Disease (MVID)	
Lukas A. Huber	Julia Scheffler	LAMTOR regulates dendritic cell homeostasis through Flt3 dependent mTOR signaling	2014
Lukas A. Huber	Georg Friedrich Vogel	Myo5b-Syntaxin3 interplay drives cargo-selective apical exocytosis in enterocytes	2015
Lukas A. Huber	Pzremislav Filipek	Molecular and functional characterization of C7orf59 and HBXIP as novel LAMTOR interacting proteins	2017
Lukas A. Huber	Teodor Yordanov	Molecular analysis of the LAMTOR complex: merging point of different signaling pathways on late endosomes	ongoing
Lukas A. Huber	Gudrun Liebscher	LAMTOR complex in the regulation of fat metabolism	ongoing
Lukas A. Huber	Iris Krainer	Development of human organoids for the treatment of congenital enteropathies	ongoing
Lukas A. Huber	Katharina Klee	Investigation of cargo-selective apical transport in polarized epithelial cells	ongoing