Name	***Position Title***
Tobias B. Huber	Assistant Professor for Medicine& Attending Physician Emmy Noether Group Leader Principle Investigator, Spemann Graduate School-Freiburg

EDUCATION/TRAINING

Institution and Location	Degree	Year(s)	Field of Study
University of Freiburg, Vienna and South Florida	M.D.	1992-1999	Medicine
American USMLE certification	M.D.	1999-2005	Medicine
University Hospital Freiburg, Germany		1999-2003	Residency Internal Medicine
Washington University of St. Louis		2003-2006	Cell biology
University Hospital Freiburg, Germany		2006-2008	Fellowship Nephrology
University of Freiburg	Habilitation	2007	Medicine
University of Freiburg	Associate Professor	2010-present	Medicine

A. Positions and Honours

Employment/Experience

1999-2001 Residency, Division of Nephrology, University Hospital Freiburg, Germany
2001-2003 Fellow in Medicine, Experimental Nephrology, Division of Nephrology, University Hopsital Freiburg, Germany
2003-2006 Postdoctoral Fellow, Immunology & Pathology, Washington University St. Louis, MO (Laboratory of Dr. Andrey Shaw)
2006-present Assistant Professor of Medicine, Emmy Noether Group leader, Division of Nephrology, University Hospital Freiburg, Germany
2007 Habilitation (Venia legendi), University Freiburg
2008 German Board Certification for Internal Medicine
2008-present Attending Physician, Division of Nephrology, University Hospital Freiburg, Germany

Honors, Awards, and Scholarships

1998 Scholarship for the Internship at the University of South Florida (USF),USA
2002 Young Nephrologist Award of the German Renal Society
2003 Emmy Noether award and fellowship of the German Research Foundation
2004 Carl Ludwig Award (Young Investigator Award of the German Renal Society)
2006 Emmy Noether Group Leader of the German Research Foundation (DFG)
2009 Hans U. Zollinger Research Award of German Renal Society
2010 Franz-Volhard Award
2010 Invitation as Associate Professor, Dept. of Nephrology, UT South Western Dallas, declined
2010 Invitation as Full Professor (W3), Dept. of Nephrology, University of Münster, declined

Other Scientific Activities

2006-present Member of the German Society of Nephrology
2007-present Member of the American Society of Nephrology

10 selected publications:

Yaddanapudi S, Altintas MM, Kistler A, Fernandez I, Möller CC, Wei C, Peev V, Flesche JB, Forst AL, Li J, Patrakka J, Xiao Z, Grahammer F, Schiffer M, Lohmüller T, Reinheckel T, Gu C, **Huber TB**, Ju W, Bitzer M, Rastaldi MP, Ruiz P, Tryggvason K, Shaw A, Faul C, Sever S, Reiser J (2011) CD2AP in mouse and human podocytes controls a proteolytic program that regulates cytoskeletal structure and cellular survival. J Clin Invest. 2011 Sep 12.

Wanner N, Noutsou F, Baumeister R, Walz G, **Huber TB**, Neumann-Haefelin E (2011) Functional and Spatial Analysis of C. elegans SYG-1 and SYG-2, Orthologs of the Neph/Nephrin Cell Adhesion Module Directing Selective Synaptogenesis. PLoS One. 6(8):e23598.

Gödel M, Hartleben B, Herbach N, Lu S, Debreczeni-Mór A, Liu S, Lindenmeyer MT, Rastaldi MP, Hartleben G, Wiech T, Fornoni A, Nelson RG, Kretzler M, Wanke R, Pavenstädt H, Kerjaschki D, Cohen CD, Hall MN, Rüegg MA, Inoki K, Walz G, and **Huber TB** (2011) mTOR controls podocyte maintenance and diabetic nephropathy progression in human and mice. J Clin Invest. 121(6):2197-209.

Inoki K, Mori H, Wang J, Suzuki T, Hong SK, Yoshida S, Blattner SM, Ikenoue T, Rüegg MA, Hall MN, Kwiatkowski DJ, Rastaldi MP, **Huber TB**, Kretzler M, Holzman LB, Wiggins RC and Guan KL (2011) mTORC1 activation in podocytes is a critical step in the development of diabetic nephropathy. J Clin Invest. 121(6):2181-96.

Neumann-Haefelin E, Kramer-Zucker A, Hartleben B, Noutsou F, Martin K, Wanner N, Ritter A, Gödel M, Pagel P, Baumeister R, Walz G and **Huber TB** (2010). A Model organism approach: Defining the role of Neph proteins as regulators of neuron and kidney morphogenesis. **Human Molecular Genetics** 2010 Apr 1. [Epub ahead of print]

Hartleben B, Gödel M, Meyer-Schwesinger C, Liu S, Ulrich T, Köbler S, Wiech T, Grahammer F, Arnold SA, Lindenmeyer MT, Cohen C, Pavenstadt H, Kerjaschki D, Mizushima N, Shaw AS, Walz G and **Huber TB** (2010). Autophagy controls podocyte aging and glomerular disease susceptibility. **J Clin Invest.** 2010 April;120(4):1084-96

Skouloudaki K, Puetz M, Simons M, Courbard JR, Boehlke C, Hartleben B, Engel C, Moeller MJ, Englert C, Bollig F, Schäfer T, Ramachandran H, Mlodzik M, **Huber TB**, Kuehn EW, Kim E, Kramer-Zucker A, Walz G (2009) Scribble participates in Hippo signaling and is required for normal zebrafish pronephros development. Proc Natl Acad Sci U S A. 106(21):8579-84.

Hartleben B, Schweizer H, Lübben P, Bartram MP, Möller CC, Herr R, Wei C, Neumann-Haefelin E, Schermer B, Zentgraf H, Kerjaschki D, Reiser J, Walz G, Benzing T, **Huber TB** (2008) Neph-Nephrin proteins bind the Par3-Par6-atypical protein kinase C (aPKC) complex to regulate podocyte cell polarity. J Biol Chem. 283(34):23033-8.

Akilesh S, **Huber TB**, Wu H, Wang G, Hartleben B, Kopp JB, Miner JH, Roopenian DC, Unanue ER, Shaw AS (2008) Podocytes use FcRn to clear IgG from the glomerular basement membrane. Proc Natl Acad Sci U S A. 105(3):967-72.

Huber TB, Schermer, B, Müller, RU, Höhne, M, Bartram, M, Calixto, A, Hagmann, H, Reinhardt, C, Koos, F, Kunzelmann, K, Shirokova, E, Krautwurst, D, Harteneck, D, Simons, M, Pavenstädt, H, Kerjaschki, D, Thiele, C, Walz, G, Chalfie, M, Benzing, T (2006). Podocin and MEC-2 bind cholesterol to regulate the activity of associated ion channels. **Proc Natl Acad Sci USA** 103(46):17079-86.

Huber TB, Kwoh C, Wu H, Godel M, Blumer KJ, Miner JH, Mundel P, Shaw AS. (2006). Combined heterozygosity of CD2AP, Fyn and Synaptopodin leads to Focal Segmental Glomerulosclerosis. **J Clin Invest** 116(5):1337-45