



**Parasitic Zoonoses and Translational Research Group**

Institute of Parasitology

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Personal data

Nationality: Swiss

Full Name: Katharina Huggel

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Education and Professional Experience

since 2011	Institute of Parasitology, University of Zurich Group leader Prof. P. Deplazes
2005 – 2011	Institute of Physiology, University of Zurich Group leader Prof. F. Verrey
2001 – 2005	Transplantation immunology, University hospital, Zurich Group leader Prof. J. Seebach
1999 – 2001	Institute of Cell Biology, ETH, Zurich Group leader Prof. S. Werner
1997 – 1999	Dept. of Neurobiology, Lundbeck A/S, Copenhagen, Denmark Group leaders Dr. F. Hauser, Dr. C. Boysen, Dr. N. Abrahamsen
1995 – 1997	Dept. of CNS, Novartis AG, Basel Group leader Prof. B. Bettler

1990 – 1995	Dept. of Biochemistry, Biocenter, Basel Group leader Prof. M. Spiess
1988 – 1990	Molecular tumour biology laboratory, Frauenspital, Basel Group leader Dr. D. Fabbro
1985 – 1988	Training as medical technician in the ‘Laborschule am Kantonsspital Basel’, graduation with diploma of the swiss red cross (SRK)

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### Additional Trainings

11/2010	Zeiss Workshop: The perfect specimen – for the best results in light microscopy (Institute of Anatomy, University of Zurich)
09/2005	Ionenchromatographie-Kurs der Firma Metrohm AG (Herisau) in Egerkingen
04/2004	BioInfo-Seminar für Vollzugsbeauftragte und Biosicherheitsverantwortliche (Baudirektion des Kantons Zürich in Zusammenarbeit mit den Ämtern AWEL, KSF, FBSO) (Irchel University, Zurich)
11/2003	3D Cell Culture: From in vitro systems to in vivo applications (BD Biosciences/ Swiss Tissue Culture Society, Zofingen)
03/2003	Vom Gewebe zur Primärkultur (Prof. Dr. G. Unteregger, Institut für Molekularbiologie, Homburg, Deutschland)
05/1998	Sequencing course using ABI PRISM 310 (Firma PE Applied Biosystems, Stockholm, Schweden)
03–06/1996	Biologie-Kurs: Zell- und Molekularbiologie (Ciba, Basel)
11/1996	Strahlenschutzkurs für Laborpersonal (Ciba-Ausbildungskurs Basel, in Zusammenarbeit mit SUVA, Schweiz)

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### Publications

Camargo SM, Vuille-dit-Bille RN, Mariotta L, Ramadan T, **Huggel K**, Singer D, Götze O, Verrey F. The molecular mechanism of intestinal levodopa absorption and its possible implications for the treatment of Parkinson’s disease. *J Pharmacol Exp Ther* 2014, 351(1):114-23

- Rooman I, Lutz C, Pinho AV, **Huggel K**, Reding T, Lahoutte T, Verrey F, Graf R, Camargo SM. Amino acid transporters expression in acinar cells is changed during acute pancreatitis. *Pancreatology* 2013, 13(5) :475-85
- Singer D, Camargo SM, Ramadan T, Schäfer M, Mariotta L, Herzog B, **Huggel K**, Wolfer D, Werner S, Penninger JM, Verrey F. Defective intestinal amino acid absorption in Ace2 null mice. *Am J Physiol Gastrointest Liver Physiol* 2012, 15;303(6):G686-95
- Faghiri Z, Camargo SM, **Huggel K**, Forster IC, Ndegwa D, Verrey F, Skelly PJ. The tegument of the human parasitic worm *Schistosoma mansoni* as an excretory organ: the surface aquaporin SmAQP is a lactate transporter. *PloS One* 2010, 3;5(5):e10451
- Singer D, Camargo SM, **Huggel K**, Romeo E, Danilczyk U, Kuba K, Chesnov S, Caron MG, Penninger JM, Verrey F. Orphan transporter SLC6A18 is renal neutral amino acid transporter B0AT3. *Journal of Biological Chemistry* 2009, 284:19953-60
- Camargo SM, Singer D, Makrides V, **Huggel K**, Pos KM, Wagner CA, Kuba K, Danilczyk U, Skovby F, Kleta R, Penninger JM, Verrey F. Tissue-specific amino acid transporter partners ACE2 and collectrin differentially interact with hartnup mutations. *Gastroenterology* 2009, 136:872-82
- Krautz-Peterson G, Camargo S, **Huggel K**, Verrey F, Shoemaker CB, Skelly PJ. Amino acid transport in schistosomes: Characterization of the permeaseheavy chain SPRM1hc. *Journal of Biological Chemistry* 2007, 282:21767-75
- Makrides V, Bauer R, Weber W, Wester HJ, Fischer S, Hinz R, **Huggel K**, Opfermann T, Herzau M, Ganapathy V, Verrey F, Brust P. Preferred transport of O-(2-[18F]fluoroethyl)-D-tyrosine (D-FET) into the porcine brain. *Brain Research* 2007, 1147:25-33
- Baumann BC, Stussi G, **Huggel K**, Hawley RJ, Rieben R, Seebach JD. Reactivity of human natural antibodies to endothelial cells from Galalpha(1,3)Gal-deficient pigs. *Transplantation* 2007, 83:193-201
- Stussi G, **Huggel K**, Lutz HU, Schanz U, Rieben R, Seebach JD. Isotype-specific detection of ABO blood group antibodies using a novel flow cytometric method. *British Journal of Haematology* 2005, 130:954-63
- Stussi G, **Huggel K**, Schanz U, Passweg JR, Seebach JD. Levels of anti-A/B antibodies after ABO-incompatible hematopoietic stem cell transplantation. *Transplantation Proceedings* 2005, 37(2):1385-7
- Grose R, Werner S, Kessler D, Tuckermann J, **Huggel K**, Durka S, Reichardt HM, Werner S. A role for endogenous glucocorticoids in wound repair. *EMBO Reports* 2002, 3:575-82.
- Bloch W, **Huggel K**, Sasaki T, Grose R, Bugnon P, Addicks K, Timpl R, Werner S. The angiogenesis inhibitor endostatin impairs blood vessel maturation during wound healing. *FASEB Journal* 2000, 14:2373-6.

Kaupmann K, **Huggel K**, Heid J, Flor PJ, Bischoff S, Mickel SJ, McMaster G, Angst C, Bittiger H, Froestl W, Bettler B. Expression cloning of the GABA<sub>B</sub> receptors uncovers similarity to metabotropic glutamate receptors. *Nature* 1997, 386:239-246.

Fuhrer C, Geffen I, **Huggel K**, Spiess M. The two subunits of the asialoglycoprotein receptor contain different sorting information. *Journal of Biological Chemistry* 1994, 269:3277-82.

Geffen I, Fuhrer C, Leitinger B, Weiss M, **Huggel K**, Spiess M. Related signals for endocytosis and basolateral sorting of the asialoglycoprotein receptor. *Journal of Biological Chemistry* 1993, 268:20772-7.

Fabbro D, Imber R, **Huggel K**, Baschong W. Growth-promoting effect of a protein-free hemodialysate used in situations of hypoxia and for tissue repair as measured via stimulation of S6-kinase. *Arzneimittelforschung* 1992, 42:917-20.