

Priv.-Doz. Dr. Kerstin Bellaire-Siegmund



Personal information

Date of Birth April 28th, 1977
Place of Birth Frankfurt am Main (Germany)
Nationality German
Marital status married, one child
Business Address: Institute of Translational Cell Genetics
 Medical University Innsbruck
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 A-6020 Innsbruck, Austria
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Main area of research

- T cell immunology with focus on homeostasis and immune regulation
- Cellular and molecular mechanisms of T cell responses in context of tumor immunity
- Signaling, differentiation and migration of T cell subsets

Education

11/2018 **Habilitation (Venia docendi) in Immunology**
 Medical University Innsbruck (Austria)
 Thesis: *“The Roles of Protein Kinase C Theta and Coronin 1A in T Cell-Mediated Immune Responses.”*

04/2002 - 09/2005 **Dr. rer. nat. in Immunology**
 Humboldt-University Berlin (Germany)
 Thesis: *„Migration und suppressive capacity of regulatory T cell subsets.“*

10/1996 - 12/2001 **Diploma in “Humanbiologie”** (Biomedical Sciences),
 Philipps-University Marburg (Germany)
 Thesis: *„Identification of the targeting signal of the sulfhydryl oxidases Erv1p und Erv2p in yeast.“*

Positions held and research experience

Since 11/2012	Senior scientist, Medical University Innsbruck , Austria, Division of Translational Cell Genetics (Univ.-Prof. Dr. G. Baier) 02/2014 – 10/2017 Lise Meitner position (funded by the FWF) 01/2016 – 06/2016 Marginal employment (2.5h / week) 06/2015 – 06/2016 Maternal leave
08/2011 – 09/2012	Postdoctoral scientist, University of Calgary , Canada Snyder Institute for Chronic Diseases (P. Kubes, PhD)
06/2009 – 06/2011	Postdoctoral scientist, University of Basel , Switzerland Biocenter (Univ.-Prof. Dr. J. Pieters) 10/2010 - 12/2010 visiting scientist (collaboration), University of Calgary, Canada, Snyder Institute for Chronic Diseases (P. Kubes, PhD)
12/2008 - 04/2009	Scientist, 4-Antibody AG , Basel, Switzerland
10/2005 - 11/2008	Postdoctoral scientist, Swiss Institute of Allergy & Asthma Research , Davos, Switzerland, Department of Molecular Immunology (Dr. C. Schmidt-Weber)
04/2002 - 09/2005	PhD student, Charité / Humboldt University Berlin , Germany Department of Experimental Rheumatology (Univ.-Prof. Dr. A. Hamann)
05/2000 – 07/2000	Internship (Cell biology), Yale University , USA (I. Mellman, PhD)
02/1997 - 04/1997	Working student, Hoechst AG , Germany
07/1996 - 08/1996	Department of metabolic processes

Teaching Activity (lectures and practical courses besides bachelor, master and PhD supervision)

since 2020	Life science practical course “ genetische Immun-Onkologie ”
since 2018	Lectures as part of MM 1.1 “ Versuchstierkunde ” (Mol. Med. Bachelor) Practical course PM3 Immunity and Infection (Mol. Med. Master)
since 2016	Lectures as part of the “ Basic course for animal experimentation ”, Module “Management of a laboratory rodent colony”
since 2014	Lectures as part of the “ Basic course for animal experimentation ”, Modules “Killing and Sampling” and “Application of substances”

Major third party funding, Scholarships and Awards

2021 - 2025	Stand-Alone Projects, FWF (P 34368): 401 079 Euros
2020 - 2022	1000 Ideas Program, FWF (TAI 88B): 127 027 Euros
2014 - 2015	Lise Meitner Position, FWF (M 1636-B23): 154 540 Euros
2013 - 2015	MUI-Start project (2013042002): 29 999 Euros
2006 - 2008	Marie Curie Fellowship of the European Commission (CD8-TREAT): 173 831 Euros

Original research publications in peer reviewed journals (only first and corresponding author)

Koutník, J.; Leitges, M. and **Siegmund, K.** T cell-intrinsic Protein Kinase D3 is dispensable for the cells' activation. *Front. Immunol.* **2022**; doi: 10.3389/fimmu.2022.1049033

Koutník, J.; Klepsch V.; Pommermayr M.; Thuille N.; Baier, G.; **Siegmund, K.** A MLR-Based Approach to Analyze Regulators of T Lymphocyte Activation In Vivo. *Int. J. Mol. Sci.* **2022**, 23(10), 5337; doi: 10.3390/ijms23105337

Koutník, J.; Neururer, V.; Gruber, T.; Peer, S.; Hermann-Kleiter, N.; Olson, W.J.; Labi, V.; Leitges, M.; Baier, G.; **Siegmund, K.** Addressing the role of PKD3 in the T cell compartment with knockout mice. *Cell communication and signaling : CCS* **2022**, 20, 54, doi:10.1186/s12964-022-00864-w.

Siegmund, K.; Thuille, N.; Posch, N.; Fresser, F.; Leitges, M.; Baier, G. Novel mutant mouse line emphasizes the importance of protein kinase C theta for CD4(+) T lymphocyte activation. *Cell communication and signaling : CCS* **2019**, 17, 56, doi:10.1186/s12964-019-0364-0.

Siegmund, K.; Thuille, N.; Wachowicz, K.; Hermann-Kleiter, N.; Baier, G. Protein kinase C theta is dispensable for suppression mediated by CD25+CD4+ regulatory T cells. *PloS one* **2017**, 12, e0175463, doi:10.1371/journal.pone.0175463.

Siegmund, K.; Klepsch, V.; Hermann-Kleiter, N.; Baier, G. Proof of Principle for a T Lymphocyte Intrinsic Function of Coronin 1A. *The Journal of biological chemistry* **2016**, 291, 22086-22092, doi:10.1074/jbc.M116.748012.

Siegmund, K.; Thuille, N.; Posch, N.; Fresser, F.; Baier, G. Novel protein kinase C theta: coronin 1A complex in T lymphocytes. *Cell communication and signaling : CCS* **2015**, 13, 22, doi:10.1186/s12964-015-0100-3.

Siegmund, K.; Lee, W.Y.; Tchang, V.S.; Stiess, M.; Terracciano, L.; Kubes, P.; Pieters, J. Coronin 1 is dispensable for leukocyte recruitment and liver injury in concanavalin A-induced hepatitis. *Immunology letters* **2013**, 153, 62-70, doi:10.1016/j.imlet.2013.06.005.

Westritschnig, K.; BoseDasgupta, S.; Tchang, V.; **Siegmund, K.**; Pieters, J. Antigen processing and presentation by dendritic cells is independent of coronin 1. *Molecular immunology* **2013**, 53, 379-386, doi:10.1016/j.molimm.2012.09.002.

Siegmund, K.; Zeis, T.; Kunz, G.; Rolink, T.; Schaeren-Wiemers, N.; Pieters, J. Coronin 1-mediated naive T cell survival is essential for the development of autoimmune encephalomyelitis. *Journal of immunology* **2011**, 186, 3452-3461, doi:10.4049/jimmunol.1003491.

Siegmund, K.; Ruckert, B.; Ouaked, N.; Burgler, S.; Speiser, A.; Akdis, C.A.; Schmidt-Weber, C.B. Unique phenotype of human tonsillar and in vitro-induced FOXP3+CD8+ T cells. *Journal of immunology* **2009**, 182, 2124-2130, doi:10.4049/jimmunol.0802271.

Siegmund, K.; Feuerer, M.; Siewert, C.; Ghani, S.; Haubold, U.; Dankof, A.; Krenn, V.; Schon, M.P.; Scheffold, A.; Lowe, J.B., et al. Migration matters: regulatory T-cell compartmentalization determines suppressive activity in vivo. *Blood* **2005**, 106, 3097-3104, doi:10.1182/blood-2005-05-1864.

Siegmund, K.; Huehn, J.; Lehmann, J.C.; Siewert, C.; Haubold, U.; Feuerer, M.; Debes, G.F.; Lauber, J.; Frey, O.; Przybylski, G.K., et al. Developmental stage, phenotype, and migration distinguish naive- and effector/memory-like CD4+ regulatory T cells. *The Journal of experimental medicine* **2004**, 199, 303-313, doi:10.1084/jem.20031562.

For more and up-dated publication record see: ORCID 0000-0002-3654-1170