


Publication 2004-2020 with HOKImag (selection):

Methodology (protocols)

- Fritsch et al., (2019) A toolbox for the immunomagnetic purification of signaling organelles. *Traffic*. Mar;20{3}:246-258. doi: 10.1111/tra. 12631. Epub 2019 Jan 15.
- Schütze et al. (2014). Separation of magnetically isolated TNF-receptosomes from mitochondria. *Meth. Enzymol*. Vol. 535, Chapter 19, 327-349
- Steinhäuser et al. (2014). Immunomagnetic isolation of mycobacteria-containing phagosomes and apoptotic blebs from primary macrophages. *Curr. Protocols Immunol*. 105:14.36.1-14.36.26
- Steinhäuser et al. (2013). Lipid-labeling facilitates a novel magnetic isolation procedure to characterize of pathogen-containing phagosomes. *Traffic*, 14, 321-336
- Tchikov et al., (2010) Immunomagnetic isolation of subcellular compartments. *Meth. Microbiol*. 37, 21-34

Applications:

- Chang et al. (2020). Shigella hijacks the exocyst to cluster macropinosomes for efficient vacuolar escape. *PLoS Pathog*. 2020 Aug; 16(8): e1008822. Published online 2020 Aug 31. doi: 10.1371/journal.ppat.1008822
- Stevenin et al. (2020) Dynamic Growth and Shrinkage of the Salmonella-Containing Vacuole Determines the Intracellular Pathogen Niche. *Cell Rep*. 2019 Dec 17; 29(12): 3958-3973.
- Melum et al. (2019) Control of CD1d-restricted antigen presentation and inflammation by sphingomyelin. *Nature Immunol*. 2019 Dec;20{12}:1644-1655
- Depke et al., (2015) A peptide resource for the analysis of Staphylococcus aureus in host pathogen interaction studies. *Proteomics* 2015, 15 {21}: 3648-3661
- Edelmann et al. (2011). Caspase-8 and caspase-7 sequentially mediate proteolytic activation of acid sphingomyelinase in TNF-RI-receptosomes. *EMBO-J*. 30. 379-394

- Yazdanpanah et al. (2009) Riboflavin kinase couples TNF Receptor 1 to NADPH oxidase. *Nature* 460, 1159-1163
- Schütze et al. (2008) Regulation of TNF-RI and CD95 signalling by receptor compartmentalization. *Nat. Rev. Mol. Cell Biol.* 9, 655-662
- Feig et al. (2007). Palmitoylation of CD95 facilitates formation of SDS-stable receptor aggregates that initiate apoptosis signaling. *EMBO J.* 26:221-231
- Lee et al. (2006) The role of receptor internalization in CD95 signaling. *EMBO-J.* 25:1009-1023
- Schneider-Brachert et al. (2006) Inhibition of TNF receptor 1 internalization by adenovirus 14.7K as a novel immune escape mechanism. *J. Clin. Invest.* 116: 2901-2913
- Heinrich et al. (2004) Cathepsin D links TNF-induced acid sphingomyelinase to Bid-mediated caspase-9 and caspase-3 activation. *Cell Death Differentiation* 11, 550- 563
- Schneider-Brachert et al. (2004) Compartmentalization of TNF Receptor-1 Signaling: Internalized TNF Receptosomes as Death Signaling Vesicles. *Immunity* 21, 415-428
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DISSERTATIONS with HOKImag

Matthias v. Garrell	Immunomagnetic isolation of T-cell subpopulations – comparison between the free-flow chamber HOKImag and the Miltenyi Mini-Mac system	Kiel, in preparatio
Lena Hennig	Immunomagnetic isolation and characterization of exosomes from tumor cells and human plasma using the free-flow magnetic chamber HOKImag	Kiel, 2021
Stefan Albrecht Schille	Complement Receptor 3 and its role in the interaction of primary human macrophages with apoptotic <i>Leishmania major</i> promastigotes	Mainz, 2019
Simon Görgen	Identification of novel TAM receptor interacting proteins and screening for novel ligands	Bonn, 2018
Meike Thomas	<i>Leishmania major</i> promastigote entry of an autophagy-like compartment and amastigote escape from the parasitophorous vacuole	Mainz, 2015
Kristin Surmann	Proteomic characterization of host-pathogen interactions using human cell lines infected with <i>Staphylococcus aureus</i> HG001 as a model	Greifswald, 2014
Susann Voigt	Induction, execution and clinical relevance of TNF- and TRAIL-induced necroptosis	Kiel 2014
Mario Stephan	Molekularer Mechanismus der Fas Ligand-induzierten Aktivierung der sauren Sphingomyelinase	Kiel 2013
Bärbel Edelmann	Molecular mechanism of acid sphingomyelinase activation by tumor necrosis factor receptor 1	Kiel, 2011