

## Publikationen/Publications

Gruppe/Group: Mauspathologie  
Gruppenleiter/Head of group: Dr. Marina Pils  
Letzte Aktualisierung/Last update: 06.11.2023

### 2023

Metzdorf, K., H. Jacobsen, M. C. Greweling-Pils, M. Hoffmann, T. Lüddecke, F. Miller, L. Melcher, A. M. Kempf, I. Nehlmeier, D. Bruder, M. Widera, S. Ciesek, S. Pöhlmann and L. Čičin-Šain (2023). "TMPRSS2 Is Essential for SARS-CoV-2 Beta and Omicron Infection." *Viruses* 15(2): 271.

### 2022

Sohail, A., A. A. Iqbal, N. Sahini, F. Chen, M. Tantawy, S. F. H. Waqas, M. Winterhoff, T. Ebensen, K. Schultz, R. Geffers, K. Schughart, M. Preusse, M. Shehata, H. Bahre, M. C. Pils, C. A. Guzman, A. Mostafa, S. Pleschka, C. Falk, A. Michelucci, and F. Pessler. "Itaconate and Derivatives Reduce Interferon Responses and Inflammation in Influenza A Virus Infection." *PLoS Pathog* 18, no. 1 (Jan 2022): e1010219.

### 2021

Koeninger, L., L. Osbelt, A. Berscheid, J. Wendler, J. Berger, K. Hipp, T. R. Lesker, M. C. Pils, N. P. Malek, B. A. H. Jensen, H. Brotz-Oesterhelt, T. Strowig, and Wehkamp Jan. "Curbing Gastrointestinal Infections by Defensin Fragment Modifications without Harming Commensal Microbiota." *Commun Biol* 4, no. 1 (Jan 8 2021): 47.

Osbelt, L., M. Wende, E. Almasi, E. Derksen, U. Muthukumarasamy, T. R. Lesker, E. J. C. Galvez, M. C. Pils, E. Schalk, P. Chhatwal, J. Farber, M. Neumann-Schaal, T. Fischer, D. Schluter, and T. Strowig. "Klebsiella Oxytoca Causes Colonization Resistance against Multidrug-Resistant K. Pneumoniae in the Gut Via Cooperative Carbohydrate Competition." *Cell Host Microbe* 29, no. 11 (Nov 10 2021): 1663-79 e7.

Plaza-Sirvent, C., B. Zhao, A. W. Bronietzki, M. C. Pils, N. Tafrishi, M. Schuster, T. Strowig, and I. Schmitz. "A Central Role for Atg5 in Microbiota-Dependent Foxp3(+) Ror $\gamma$ mat(+) Treg Cell Preservation to Maintain Intestinal Immune Homeostasis." *Front Immunol* 12 (2021): 705436.

### 2020

Blockus, S., S. M. Sake, M. Wetzke, C. Grethe, T. Graalman, M. Pils, R. Le Goffic, M. Galloux, H. Prochnow, K. Rox, S. Huttel, Z. Rupcic, B. Wiegmann, R. Dijkman, M. A. Rameix-Welti, J. F. Eleouet, W. P. Duprex, V. Thiel, G. Hansen, M. Bronstrup, S. Haid, and T. Pietschmann. "Labyrinthopeptins as Virolytic Inhibitors of Respiratory Syncytial Virus Cell Entry." *Antiviral Res* 177 (May 2020)

Iljazovic, A., U. Roy, E. J. C. Galvez, T. R. Lesker, B. Zhao, A. Gronow, L. Amend, S. E. Will, J. D. Hofmann, M. C. Pils, K. Schmidt-Hohagen, M. Neumann-Schaal, and T. Strowig. "Perturbation of the Gut Microbiome by *Prevotella* Spp. Enhances Host Susceptibility to Mucosal Inflammation." *Mucosal Immunol* (May 20 2020).

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Kumashie, K. G., M. Cebula, C. Hagedorn, F. Kreppel, M. C. Pils, F. Koch-Nolte, B. Rissiek, and D. Wirth. "Improved Functionality of Exhausted Intrahepatic Cxcr5+ Cd8+ T Cells Contributes to Chronic Antigen Clearance Upon Immunomodulation." *Front Immunol* 11 (2020): 592328.

Muhlen, S., I. Ramming, M. C. Pils, M. Koepfel, J. Glaser, J. Leong, A. Flieger, B. Stecher, and P. Dersch. "Identification of Antibiotics That Diminish Disease in a Murine Model of Enterohemorrhagic Escherichia Coli Infection." *Antimicrob Agents Chemother* 64, no. 4 (Mar 24 2020).

Osbelt, L., S. Thiemann, N. Smit, T. R. Lesker, M. Schroter, E. J. C. Galvez, K. Schmidt-Hohagen, M. C. Pils, S. Muhlen, P. Dersch, K. Hiller, D. Schluter, M. Neumann-Schaal, and T. Strowig. "Variations in Microbiota Composition of Laboratory Mice Influence Citrobacter Rodentium Infection Via Variable Short-Chain Fatty Acid Production." *PLoS Pathog* 16, no. 3 (Mar 2020): e1008448.

### 2017

Schuster, M., et al., c-REL and IkappaBNS Govern Common and Independent Steps of Regulatory T Cell Development from Novel CD 122-Expressing Pre-Precursors. *J Immunol*, 2017.

Mazucca, P., et al., Role of autophagy in the HIV-1 matrix protein p17-driven lymphangiogenesis. *J Virol*, 2017.

Kocijancic, D., et al., Local application of bacteria improves safety of Salmonella-mediated tumor therapy and retains advantages of systemic infection. *Oncotarget*, 2017.

Suwandi, A., et al., CD4 T Cell Dependent Colitis Exacerbation Following Re-Exposure of Mycobacterium avium ssp. paratuberculosis. *Front Cell Infect Microbiol*, 2017. 7: p. 75.

Blazewski, A.J., et al., Microbiota Normalization Reveals that Canonical Caspase-1 Activation Exacerbates Chemically Induced Intestinal Inflammation. *Cell Rep*, 2017. 19(11): p. 2319-2330.

Pezoldt, J., et al., CCR7 deficiency modulates T cell response and increases susceptibility to Yersinia pseudotuberculosis infection. *J Infect Dis*, 2017.

Plaza-Sirvent, C., et al., c-FLIP Expression in Foxp3-Expressing Cells Is Essential for Survival of Regulatory T Cells and Prevention of Autoimmunity. *Cell Rep*, 2017. 18(1): p. 12-22.

### 2016

Pils, M.C., et al., Mortality Due to Porcine Reproductive and Respiratory Syndrome Virus in Immunocompromised Gottingen Minipigs (*Sus scrofa domestica*). *Comp Med*, 2016. 66(5): p. 392398.

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Deicke, C., et al., Local activation of coagulation factor XIII reduces systemic complications and improves the survival of mice after *Streptococcus pyogenes* MI skin infection. *Int J Med Microbiol*, 2016. 306(7): p. 572-579.

Kocijancic, D., et al., Therapy of solid tumors using probiotic Symbioflor-2 - restraints and potential. *Oncotarget*, 2016.

### 2015

Loof, T.G., et al., *Staphylococcus aureus*-induced clotting of plasma is an immune evasion mechanism for persistence within the fibrin network. *Microbiology*, 2015. 161 (Pt 3): p. 621-7.

Pawar, V., et al., In Vivo Efficacy of Antimicrobials against Biofilm-Producing *Pseudomonas aeruginosa*. *Antimicrob Agents Chemother*, 2015. 59(8): p. 4974-81.

Perner, F., et al., Specificity of JAK-kinase inhibition determines impact on human and murine Tcell function. *Leukemia*, 2015.

### 2014

Suwandi, A., et al., Experimental colitis is exacerbated by concomitant infection with *Mycobacterium avium* ssp. *paratuberculosis*. *Inflamm Bowel Dis*, 2014. 20(11): p. 1962-71 .

Loof, T., et al., *Staphylococcus aureus* induced clotting of plasma is an immune evasion mechanism to persist within the fibrin network. *Microbiology*, 2014.

Grundstrom, J., et al., Development of a Mouse Model for Chronic Cat Allergen-Induced Asthma. *Int Arch Allergy Immunol*, 2014. 165(3): p. 195-205.

Marschall, A.L., et al., Functional knock down of VCAM1 in mice mediated by endoplasmatic reticulum retained intrabodies. *MAbs*, 2014. 6(6): p. 1394-401 .

Wolleschak, D., et al., Clinically relevant doses of FLT3-kinase inhibitors quizartinib and midostaurin do not impair T-cell reactivity and function. *Haematologica*, 2014. 99(6): p. e90-3.

Ewald, F., et al., Constitutive expression of murine c-FLIPR causes autoimmunity in aged mice. *Cell Death Dis*, 2014. 5: p. e1168.

### 2013

Schweer, J., et al., The cytotoxic necrotizing factor of *Yersinia pseudotuberculosis* (CNFY) enhances inflammation and Yop delivery during infection by activation of Rho GTPases. *PLOS Pathog*, 2013. 1(1): p. e1003746.

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Cebula, M., et al., An inducible transgenic mouse model for immune mediated hepatitis showing clearance of antigen expressing hepatocytes by CD8+ T cells. *PLOS One*, 2013. 8(7): p. e68720.

Avalos, A.M., et al., Cell-specific TLR9 trafficking in primary APCs of transgenic TLR9-GFP mice. *J Immunol*, 2013. 190(2): p. 695-702.

### 2012

Wos-Oxley, M., et al., Comparative evaluation of establishing a human gut microbial community within rodent models. *Gut Microbes*, 2012. 3(3): p. 234-49.

### 2011

Pils, M.C., et al., Commensal gut flora reduces susceptibility to experimentally induced colitis via T-cell-derived interleukin-10. *Inflamm Bowel Dis*, 2011. 17(10): p. 2038-46.

Chaudhry, A., et al., Interleukin-10 signaling in regulatory T cells is required for suppression of Th17 cell-mediated inflammation. *Immunity*, 2011. 34(4): p. 566-78.

### 2010

Pils, M.C., et al., Monocytes/macrophages and/or neutrophils are the target of IL-10 in the LPS endotoxemia model. *Eur J Immunol*, 2010. 40(2): p. 443-8.

Fuchs, B., et al., A Toll-like receptor 2/6 agonist reduces allergic airway inflammation in chronic respiratory sensitisation to Timothy grass pollen antigens. *Int Arch Allergy Immunol*, 2010. 152(2): p. 131-9.

### 2009

Stehr, M., et al., Charles River altered Schaedler flora (CRASF) remained stable for four years in a mouse colony housed in individually ventilated cages. *Lab Anim*, 2009. 43(4): p. 362-70.

Madan, R., et al., Nonredundant roles for B cell-derived IL-10 in immune counter-regulation. *J Immunol*, 2009. 183(4): p. 2312-20.

Fasnacht, N., et al., T-cell-specific deletion of gp 130 renders the highly susceptible IL-10-deficient mouse resistant to intestinal nematode infection. *Eur J Immunol*, 2009. 39(8): p. 2173-83.

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### Publications without co-authorship

Hatesuer, B., et al., Tmprss2 is essential for influenza H INI virus pathogenesis in mice. PLOS Pathog, 2013. 9(1 2): p. e1 003774.

Weber, E., et al., Type I interferon protects mice from fatal neurotropic infection with Langkat virus by systemic and local antiviral responses. J Virol, 2014. 88(2 1): p. 1 2202-1 2.

Mittal, A., et al., Efficient nanoparticle-mediated needle-free transcutaneous vaccination via hair follicles requires adjuvantation. Nanomedicine, 2015. 1 1 (1): p. 147-54.