

Original research articles:

H. Li, J. P. Limenitakis, B. Yilmaz, M. Zünd, K. D. McCoy, **S. C. Ganal-Vonarburg*** and A. J. Macpherson*. Distinct mucosal or systemic responses to non-pathogenic intestinal microbes build the baseline B cell repertoire and shape its functional responsiveness. *In revision*.

***Co-last and corresponding author**

C. Mooser, B. Yilmaz, I. Keller, T. Fuhrer, J. Zimmermann, M. Gomez de Agüero, H. Tschanz-Lischer, H. Li, J. P. Limenitakis, W.-D. Hardt, K. D. McCoy, B. Stecher, U. Sauer, **S. C. Ganal-Vonarburg**, A. J. Macpherson. Potential evolutionary stability in the mammalian gut revealed by a diverse gnotobiotic microbiota. *Submitted*.

J. Grootjans, N. Krupka, S. Hosomi, J.D. Matute, T. Hanley, S. Saveljeva, T. Gensollen, J. Heijmans, H. Li, J.P. Limenitakis, **S.C. Ganal-Vonarburg**, S. Suo S, A.M. Luoma, Y. Shimodaira, J. Duan, D.Q. Shih, M.E. Conner, J.N. Glickman, G.M. Fuhler, N.W. Palm, M.R. de Zoete, C.J. van der Woude, G.C. Yuan, K.W. Wucherpennig, S.R. Targan, P. Rosenstiel, R.A. Flavell, K.D. McCoy, A.J. Macpherson, A. Kaser, R.S. Blumberg. Epithelial endoplasmic reticulum stress orchestrates a protective IgA response. *Science*. 2019

Y. Uchimura, T. Fuhrer, L. Hai, M. Lawson, M. Zimmerman, M. Gomez de Agüero, B. Yilmaz, F. Ronchi, M. Sorribas, S. Hapfelmeier, **S. C. Ganal-Vonarburg**, K. D. McCoy, U. Sauer, A. J. Macpherson. Antibodies set boundaries limiting microbial metabolite penetration and the resultant mammalian host response. *Immunity* 2018

D. Bauché, B. Joyce-Shaikh, R. Jain, J. Grein, K. S. Ku, W. M. Blumenschein, **S. C. Ganal-Vonarburg**, D. C. Wilson, T. K. McClanahan, R. de Waal Malefyt, A. J. Macpherson, L. Annamalai, J. H. Yearley, and D. J. Cua. LAG3+ Regulatory T cells restrain Interleukin-23-producing CX3CR1+ gut resident macrophages during group 3 Innate lymphoid cells-driven colitis. *Immunity*. 2018

M. Gomez de Agüero*, **S. C. Ganal-Vonarburg***, T. Fuhrer, S. Rupp, Y. Uchimura, H. Li, A. Steinert, M. Heikenwalder, S. Hapfelmeier, U. Sauer, K. D. McCoy, A. J. Macpherson. The maternal microbiota drives early postnatal innate immune development. *Science* .2016.

***Co-first authors**

S. C. Ganal, S. L. Sanos, C. Kallfass, K. Oberle, C. Johner, C. Kirschning, S. Lienenklaus, S. Weiss, P. Staeheli, P. Aichele, A. Diefenbach. Priming of natural killer cells by nonmucosal mononuclear phagocytes requires instructive signals from commensal microbiota. *Immunity*. 2012

C. K. Ayata, **S. C. Ganal**, B. Hockenjos, K. Willim, R. P. Vieira, M. Grimm, B. Robaye, J. M. Boeynaems, F. Di Virgilio, P. Pellegatti, A. Diefenbach, M. Idzko, P. Hasselblatt. Purinergic P2Y(2) receptors promote neutrophil infiltration and hepatocyte death in mice with acute liver injury. *Gastroenterology*. 2012

H. Raifer, A. J. Mahiny, N. Bollig, F. Petermann, A. Hellhund, K. Kellner, A. Guralnik, K. Reinhard, E. Bothur, M. Huber, S. Bauer, M. Lohning, E. A. Kiss, **S. C. Ganal**, A. Diefenbach, T. Korn, M. Lohoff. Unlike alpha beta T cells, gamma delta T cells, LTI cells and NKT cells do not require IRF4 for the production of IL-17A and IL-22. *Eur J Immunol*. 2012

I. Puga, M. Cols, C. M. Barra, B. He, L. Cassis, M. Gentile, L. Comerma, A. Chorny, M. Shan, W. Xu, G. Magri, D. M. Knowles, W. Tam, A. Chiu, J. B. Bussel, S. Serrano, J. A. Lorente, B. Bellosillo, J. Lloreta, N. Juanpere, F. Alameda, T. Baro, C. D. de Heredia, N. Toran, A. Catala, M. Torreadell, C. Fortuny, V. Cusi, C. Carreras, G. A. Diaz, J. M. Blander, C. M. Farber, G. Silvestri, C. Cunningham-Rundles, M. Calvillo, C. Dufour, L. D. Notarangelo, V. Lougaris, A. Plebani, J. L. Casanova, **S. C. Ganal**, A. Diefenbach, J. I. Arostegui, M. Juan, J. Yague, N. Mahlaoui, J. Donadieu, K. Chen, A. Cerutti. B cell-helper neutrophils stimulate the diversification and production of immunoglobulin in the marginal zone of the spleen. *Nat Immunol*. 2011

Review articles and others:

S. C. Ganal-Vonarburg* and C. U. Duerr*. The interaction of intestinal microbiota and innate lymphoid cells in health and disease throughout life. *Immunology*. 2020

***Equal contribution and corresponding author**

C. Mooser C and **S.C. Ganal-Vonarburg**. Microbiota as a cornerstone in the development of primary sclerosing cholangitis: paving the path for translational diagnostic and therapeutic approaches. *Gut*. 2019

C. Mooser, M. Gomez de Agüero, **S. C. Ganal-Vonarburg***. Standardization in host-microbiota interaction studies: challenges, gnotobiology as a tool, and perspective. *Curr Opin Microbiol*. 2018

***Corresponding author**

M. J. H. Girard-Madoux, M. Gomez de Agüero, **S. C. Ganal-Vonarburg**, C. Mooser, G. T. Belz, A. J. Macpherson, E. Vivier. The immunological functions of the Appendix: An example of redundancy? *Semin Immunol*. 2018

A. J. Macpherson, B. Yilmaz, J. P. Limenitakis and **S. C. Ganal-Vonarburg**. IgA Function in Relation to the Intestinal Microbiota. *Annu Rev Immunol* 2018

A. J. Macpherson, **S. C. Ganal-Vonarburg***. Checkpoints for gut microbes after birth. *Nature*. 2018

***Corresponding author**

A. J. Macpherson, **S. C. Ganal-Vonarburg***. IgA-about the unexpected. *J Exp Med*. 2018

***Corresponding author**

A. J. Macpherson, M. G. de Agüero, **S. C. Ganal-Vonarburg***. How nutrition and the maternal microbiota shape the neonatal immune system. *Nat Rev Immunol* 2017

***Corresponding author**

S. C. Ganal-Vonarburg*, T. Fuhrer, M. Gomez de Agüero. Maternal microbiota and antibodies as advocates of neonatal health. *Gut Microbes*. 2017

***Corresponding author**

A. J. Macpherson, M. Heikenwalder, **S. C. Ganal-Vonarburg***. The Liver at the Nexus of Host-Microbial Interactions. *Cell Host Microbe*. 2016

***Corresponding author**

S. C. Ganal-Vonarburg, A. J. Macpherson. Our Mothers' Antibodies as Guardians of our Commensals. *Trends Mol Med*. 2016

H. Li, J. P. Limenitakis, **S. C. Ganal**, A. J. Macpherson. Penetrability of the inner mucus layer: who is out there?. *EMBO Rep*. 2015

S. C. Ganal, A. J. Macpherson. *An ambulance for retinol*. *Elife* 2014