

CURRICULUM VITAE

Anne Müller, March 2018

Prof. Dr. Anne Müller, PhD

Born 29.7.1971 in Mainz, Germany, married, three children
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EDUCATION

1990-1996 M.S. Biology, Maximilians University Würzburg, Germany
1996-2000 PhD, Max Planck Institute for Infection Biology Berlin, Germany
2000-2001 Post-doctoral fellow, Max Planck Institute for Infection Biology Berlin, Germany
2001-2006 Post-doctoral fellow, Stanford University Medical School, Stanford, CA, USA

PROFESSIONAL APPOINTMENTS AND ACTIVITIES

2006-2012 Assistant Professor of Systems Biology and Functional Genomics
Institute of Molecular Cancer Research, University of Zürich, double professor
of the Faculties of Medicine and Natural Sciences
2012-now Associate Professor of Experimental Medicine, Institute of Molecular Cancer
Research
2017-now Chair, Board of Directors, Institute of Molecular Cancer Research

AWARDS

Temporary Backup Consolidator Grant, SNF (2015-2020), Götz-Prize of the University of
Zurich (2012), Emmy Noether Post-doctoral research fellowship of the German Research
Foundation (DFG; 2002-2004), Post-doctoral fellowship, Max Planck Society (2001-2002),
Becton Dickinson dissertation award of the German Society for Hygiene and Microbiology
(2001), Otto Hahn Medal (young researchers' award) of the Max Planck Society (2001)

BOARD ACTIVITIES

ISREC Foundation, Cancer Research Center Zurich, Forschungskommission UZH, Stiftung für
wissenschaftliche Forschung UZH, Hochschulmedizin Zurich, Gutachterpanels PRIMA,
Ambizione, Post-doc Mobility des SNF, and others

REVIEWER ACTIVITIES

funding agencies (MRC, Wellcome trust, SNF, DFG, Academy of Sciences of Finland, Swiss
Cancer League and others) Journals (Gastroenterology, Blood, Journal of Immunology,
PNAS, Infection and Immunity, Cellular Immunology, Clinical and Vaccine Immunology,
Helicobacter, Journal of Bacteriology, PLOS Pathogens, Cell Host & Microbe, Frontiers in
Microbiology, and others): Editorial Board member for Frontiers in Microbiology; Faculty
member, Faculty of 1000.

SELECTED PUBLICATIONS (most important publications of the last 7 years)

Arnold, I.C., Dehzad, N., Reuter, S., Martin, H., Becher, B., Taube, C. and **Müller, A.** Neonatal infection
with *Helicobacter pylori* prevents asthma through impaired dendritic cell maturation and induction of
regulatory T-cells. *Journal of Clinical Investigation* 121:3088–3093 (2011).

Oertli, M., Sundquist, M., Hitzler, I., Engler, D.B., Arnold, I.C., Reuter, S., Maxeiner, J., Hansson, M.,
Taube, C., Quiding-Järbrink, M. and **Müller, A.** Dendritic cell-derived interleukin-18 drives Treg
differentiation, murine *Helicobacter pylori*-specific immune tolerance, and asthma protection. *Journal of
Clinical Investigation* 12, 1082-96 (2012).

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Craig, V.J., Tzankov, A., Flori, M., Schmid, C., Bader, A.G., and **Müller, A.** Systemic microRNA-34a delivery induces apoptosis and abrogates growth of diffuse large B-cell lymphoma in vivo. *Leukemia* 26, 2421-4 (2012).

Oertli, M., Noben, M., Engler, D.B., Taube, C., Gerhard, M., and **Müller, A.** The *Helicobacter pylori* virulence determinants γ -glutamyl transpeptidase and vacuolating cytotoxin promote gastric colonization through tolerogenic re-programming of dendritic cells. *PNAS*, 110:3047-52 (2013).

Engler, D.B., Reuter, S., van Wijck, Y., Urban, S., Kyburz, A., Maxeiner, J., Martin, H., Yogev, N., Waisman, A., Gerhard, M., Cover, T.L., Taube, C., and **Müller, A.** Effective treatment of allergic airway inflammation by tolerization with *Helicobacter pylori*-derived immunomodulators requires BATF3-dependent dendritic cell lineages and IL-10. *PNAS*, 111:11810-5 (2014).

Schmid, C.A., Robinson, M.D., Scheifinger, N.A., Müller, S., Cogliatti, S., Tzankov, A. and **Müller, A.** DUSP4 deficiency caused by promoter hypermethylation drives JNK signaling and tumor cell survival in diffuse large B cell lymphoma. *J Exp Med.* 212:775-92 (2015).

Koch, K.N., Hartung, M.L., Urban, S., Kyburz, A., Bahlmann, A.S., Lind, J., Backert, S., Taube, C. and **Müller, A.** *Helicobacter urease*-induced activation of the TLR2/NLRP3/IL-18 axis protects against asthma. *J Clin Invest.* 125:3297-302 (2015).

Hartung, M.L., Gruber, D.C., Koch, K.N., Grüter, L., Rehrauer, H., Tegtmeyer, N., Backert, S. and **Müller, A.** *Helicobacter pylori*-induced DNA double strand breaks are introduced by nucleotide excision repair endonucleases and promote NF- κ B target gene expression. *Cell Reports.* 13:70-9 (2015).

Flori, M., Schmid, C.A., Sumrall, E.T., Tzankov, A., Law, C.W., Robinson, M.D. and **Müller, A.** The hematopoietic oncoprotein FOXP1 promotes tumor cell survival in diffuse large B-cell lymphoma by repressing S1PR2 signaling. *Blood*, 127:1438-48 (2016).

Hashwah, H., Schmid, C.A., Kasser, S., Bertram, K., Stelling, A., Manz, M.G., and **Müller, A.** Inactivation of CREBBP expands the germinal center B cell compartment, down-regulates MHCII expression and promotes DLBCL growth. *PNAS*, 114:9701-9706 (2017).

Arnold, I.C., Zhang, X., Urban, S., Artola-Boran, M., Manz, M.G., Ottemann, K., and **Müller, A.** NLRP3 controls the development of gastro-intestinal CD11b⁺ dendritic cells during steady state and chronic bacterial infection. *Cell Reports*, 21:3860-3872 (2017).

Stelling, A., Hashwah, H., Bertram, K., Manz, M.G., Tzankov, A. and **Müller, A.** The tumor suppressive TGF- β /SMAD1/S1PR2 signaling axis is recurrently inactivated in diffuse large B-cell lymphoma. In press, *Blood* (2018).

Arnold, I.C., Artola-Boran, M., Tallón de Lara, P., Kyburz, A., Taube, C., Ottemann, K., van den Broek, M., and **Müller, A.** Eosinophils suppress Th1 responses and restrict bacterially induced gastrointestinal inflammation. In minor revision, *J Exp Med*.

Kyburz, A., Zhang, X., Altobelli, A., Borbet, T., Paul, P., Münz, C., Floess, S., Huehn, J., Cover, T.L., Blaser, M.J., Taube, C. and **Müller, A.** Trans-maternal exposure to *Helicobacter pylori* induces stable and highly suppressive regulatory T-cells and protects against allergic asthma. In revision for *J Allergy and Clinical Immunology*.