

Dr. Zeinab Abdullah, PhD

Institute of Experimental Immunology

new Member since 2015



Rheinische Friedrich-Wilhelms-Universität Bonn

Institute of Experimental Immunology

E-Mail: zeinab.abdullah@uni-bonn.de

Research Expertise

The overall goal of our research is to understand the molecular and cellular mechanisms by which chronic inflammation can affect outcome of infection and immune cell function. Specifically, the research focuses on mechanistic studies to understand the impact of chronic inflammation during liver fibrosis on the function of hepatic myeloid cells in host defence and adaptive immune responses against de novo infections.

Education / Training

University of Cologne, Immunology, PhD, 2007

University of Bonn, Biology, Diploma Thesis, 2004

Appointments / Positions Held

Since 2015

Group Leader at the Institute of Experimental Immunology, University of Bonn, Germany

2012 - 2015

Senior Group Leader at the Institutes of Molecular Medicine and Experimental Immunology, University of Bonn, Germany

2009 - 2012

Junior Research Group Leader of Bonfor at the Institutes of Molecular Medicine and Experimental Immunology, University of Bonn, Germany

2008 - 2009

Postdoctoral Research Fellow, Institute of Medical Microbiology, Immunology and Hygiene, University of Cologne, Germany

Honors / Awards

2014

DFG TRR57 "Organ Fibrosis: From Mechanisms of Injury to Modulation of Disease" (Female Scientist Support Program)

2012

DFG TRR57 "Organ Fibrosis: From Mechanisms of Injury to Modulation of Disease" (Female Scientist Support Program)

10 Most Relevant Publications for Dr. Zeinab Abdullah

1. Beyer M. *, **Abdullah Z.** *, Chemnitz J. M. *, M. Daniela, Sander J., Lehmann C., Thabet Y., Shinde, P. V., Schmidleithner L., Köhne M., Trebicka J., Schierwagen R., Hofmann A. Popov A., Lang K. S., Oxenius A., Buch T., Kurts C., Heikenwälder M., Fätkenheuer G., Lang P. A., Hartmann P., Knolle P. A. *, Schultze J. L. *. (2016). TNF impairs CD4+ T-cell mediated immune control in chronic viral infection. *Nat Immunology*
2. Hasenberg, A., Hasenberg, M., Mann, L., Neumann, F., Borkenstein, L., Stecher, M., Kraus, A., Engel, D. R., Klingberg, A., Seddigh, P., **Abdullah, Z.**, Klebow, S., Engemann, S., Reinhold, A., Brandau, S., Seeling, M., Waisman, A., Schraven, B., Gothert, J. R., Nimmerjahn, F., Gunzer, M. (2015): Catchup: a mouse model for imaging-based tracking and modulation of neutrophil granulocytes. *Nat Methods* 12, 445-452.
3. Bottcher, J. P., Beyer, M., Meissner, F., **Abdullah, Z.**, Sander, J., Hochst, B., Eickhoff, S., Rieckmann, J. C., Russo, C., Bauer, T., Flecken, T., Giesen, D., Engel, D., Jung, S., Busch, D. H., Protzer, U., Thimme, R., Mann, M., Kurts, C., Schultze, J. L., Kastenmuller, W., Knolle, P. A. (2015): Functional classification of memory CD8(+) T cells by CX3CR1 expression. *Nat Commun* 6, 8306.
4. M. J. Wolf, Adili, A., Piotrowitz, K., **Abdullah, Z.**, Boege, Y., Stemmer, K., Ringelhan, M., Simonavicius, N., Egger, M., Wohleber, D., Lorentzen, A., Einer, C., Schulz, S., Clavel, T., Protzer, U., Thiele, C., Zischka, H., Moch, H., Tschop, M., Tumanov, A. V., Haller, D., Unger, K., Karin, M., Kopf, M., Knolle, P., Weber, A. and Heikenwalder, M. (2014): Metabolic activation of intrahepatic CD8+ T cells and NKT cells causes nonalcoholic steatohepatitis and liver cancer via cross-talk with hepatocytes. *Cancer cell*, 549-64
5. **Abdullah, Z.** and Knolle, P. A. (2014): Scaling of immune responses against intracellular bacterial infection. *The EMBO journal*, 2283-94
6. L. R. Huang, Wohleber, D., Reisinger, F., Jenne, C. N., Cheng, R. L., **Abdullah, Z.**, Schildberg, F. A., Odenthal, M., Dienes, H. P., van Rooijen, N., Schmitt, E., Garbi, N., Croft, M., Kurts, C., Kubes, P., Protzer, U., Heikenwalder, M. and Knolle, P. A. (2013): Intrahepatic myeloid-cell aggregates enable local proliferation of CD8(+) T cells and successful immunotherapy against chronic viral liver infection. *Nature immunology*, 574-83
7. **Abdullah Z.**, Schlee, M., Roth, S., Mraheil, M. A., Barchet, W., Bottcher, J., Hain, T., Geiger, S., Hayakawa, Y., Fritz, J. H., Civril, F., Hopfner, K. P., Kurts, C., Ruland, J., Hartmann, G., Chakraborty, T. and Knolle, P. A. (2012): RIG-I detects infection with live *Listeria* by sensing secreted bacterial nucleic acids. *The EMBO journal*, 4153-64
8. **Abdullah Z.**, Geiger, S., Nino-Castro, A., Bottcher, J. P., Muraliv, E., Gaidt, M., Schildberg, F. A., Riethausen, K., Flossdorf, J., Krebs, W., Chakraborty, T., Kurts, C., Schultze, J. L., Knolle, P. A. and Klotz, L. (2012): Lack of PPARgamma in myeloid cells confers resistance to *Listeria monocytogenes* infection. *PLoS one*, e37349
9. **Abdullah Z.**, Saric, T., Kashkar, H., Baschuk, N., Yazdanpanah, B., Fleischmann, B. K., Hescheler, J., Kronke, M. and Utermohlen, O. (2007): Serpin-6 expression protects embryonic stem cells from lysis by antigen-specific CTL. *Journal of immunology*, 3390-9
10. A. Popov*, **Abdullah, Z***, Wickenhauser, C., Saric, T., Driesen, J., Hanisch, F. G., Domann, E., Raven, E. L., Dehus, O., Hermann, C., Eggle, D., Debey, S., Chakraborty, T., Kronke, M., Utermohlen, O. and Schultze, J. L. (2006): Indoleamine 2,3-dioxygenase-expressing dendritic cells form suppressive granulomas following *Listeria monocytogenes* infection. *The Journal of clinical investigation*, 3160-70

*These authors contributed equally