

## *Curriculum Vitae*

**Marc Ehlers** Professor, Dr. rer. nat.  
d.o.b. November 01th, 1966, in Salzgitter, Germany

### **University Education**

1997 Doctorate Biology, RWTH Aachen, Germany  
1988–1993 Studies of Biology, RWTH Aachen, Germany

### **Scientific Career**

Since 2017 Member of the German Center for Lung Research (DZL)  
Since 2010 W2 Professor at the University of Lübeck, Germany; currently Head of the Laboratories of Immunology and Antibody Glycan Analysis at the Institute of Nutritional Medicine; 01.06.2015: appointment as lifetime professor  
2005–2010 Head of the Laboratory of Tolerance and Autoimmunity at the German Rheumatism Research Center (DRFZ) in Berlin, an Institute of the Leibniz Association, Germany  
2003–2005 Visiting Assistant Professor at The Rockefeller University, (Laboratory of Prof. J.V. Ravetch), New York, NY, USA  
2002–2003 Assistant Professor at the Institute for Molecular Biology, Medical School, University of Essen, Germany  
1999–2002 Group Leader at the Max Planck Institute for Immunobiology (Laboratory of Dr. V. Steimle), Freiburg, Germany  
1996–1999 Post-doc at the Max Planck Institute for Immunobiology (Laboratory of Dr. V. Steimle), Freiburg, Germany

### **Citation Record**

*Total citations: 3,687; h-index:28; h-index since 2017: 20* (Google Scholar July 25<sup>th</sup>, 2022)

## Top-10 selected Publications

Petry J, Rahmüller J, Dühring L, Lilienthal G-M, Lehrian S, Buhre JS, Bartsch YC, Epp A, Lunding H, Moremen KW, Leliavski A, **Ehlers M**. Enriched blood IgG sialylation attenuates IgG-mediated and IgG-controlled-IgE-mediated allergic reactions. **J Allergy Clin Immunol**. 2021; 147(2):763-767. doi: [10.1016/j.jaci.2020.05.056](https://doi.org/10.1016/j.jaci.2020.05.056).

Bartsch YC, Eschweiler S, Leliavski A, Lunding H, Wagt S, Petry J, Lilienthal G-M, Rahmüller J, de Haan N, Hölscher A, Erapanedi R, Giannou AD, Aly L, Sato R, de Neef LA, Winkler A, Braumann D, Hobusch J, Kuhnigk K, Krémer V, Steinhaus M, Blanchard V, Gemoll T, Habermann J, Collin M, Salinas-Riesters G, Manz R, Korn T, Fukuyama H, Waisman A, Yogev N, Huber S, Rabe B, Rose-John S, Busch H, Berberich-Siebelt F, Hölscher C, Wuhrer M, **Ehlers M**. IgG Fc sialylation is regulated during the germinal center reaction upon immunization with different adjuvants. **J Allergy Clin Immunol** 2020; 146(3):652-666. doi: [10.1016/j.jaci.2020.04.059](https://doi.org/10.1016/j.jaci.2020.04.059).

Epp A, Hobusch J, Bartsch YC, Petry J, Lilienthal G-M, Koeleman CAM, Eschweiler S, Möbs C, Hall A, Morris SC, Petzold D, Engellenner C, Bitterling J, Rahmüller J, ..., Hertl M, Wuhrer M, Pfützner W, Jappe U, Finkelman FD, **Ehlers M**. Sialylation of IgG antibodies inhibits IgG-mediated allergic reactions. **J Allergy Clin Immunol** 2018; 141 (1): 399-402.e8. doi: [10.1016/j.jaci.2017.06.021](https://doi.org/10.1016/j.jaci.2017.06.021).

Druz D, Matveeva O, Ince L, Harrison U, He W, Schmal C, Herzel H, Tsang AH, Kawakami N, Leliavski A, Uhl O, Yao L, Sander LE, Chen C-S, Kraus K, de Juan A, Hergenhan SM, **Ehlers M**, Koletzko B, Haas R, Solbach W, Oster H, and Scheiermann C. Lymphocyte circadian clocks control lymph node trafficking and adaptive immune responses. **Immunity** 2017; 46(1):120-132. doi: [10.1016/j.immuni.2016.12.011](https://doi.org/10.1016/j.immuni.2016.12.011).

Strait RT, Posgai MT, Mahler A, Barasa N, Jacob CO, Köhl J, **Ehlers M**, Stringer K, Shanmukappa SK, Witte D, Hossain MM, Khodoun M, Herr AB, Finkelman FD. IgG1 protects against renal disease in a mouse model of cryoglobulinemia. **Nature** 2015; 517(7535):501-504. doi: [10.1038/nature13868](https://doi.org/10.1038/nature13868).

Hess C, Winkler A, Lorenz AK, Holeccka V, Blanchard V, Eiglmeier S, Schoen A-L, Bitterling J, Stoehr AD, Petzold D, Schommartz T, Mertes MMM, Schoen CT, Tiburzy B, Herrmann A, Köhl J, Manz RA, Madaio MP, Berger M, Wardemann H, **Ehlers M**. T cell-independent B cell activation induces immunosuppressive sialylated IgG antibodies. **J Clinical Invest** 2013; 123(9):3788–3796. doi: [10.1172/JCI65938](https://doi.org/10.1172/JCI65938).

Karsten CM, Pandey MK, Figge J, Kilchenstein R, Taylor PR, Rosas M, McDonald JU, Orr S, Berger M, Petzold D, Blanchard V, Winkler A, Hess C, Reid DM, Majoul IV, Strait RT, Harris NL, Köhl G, Wollin L, Ludwig R, Zillikens D, Nimmerjahn F, Finkelman FD, Brown GD, **Ehlers M**, Köhl J. Anti-inflammatory activity of IgG1 mediated by Fc galactosylation and association of FcγRIIB and dectin-1. **Nat Med** 2012; 18(9):1401-1406. doi: [10.1038/nm.2862](https://doi.org/10.1038/nm.2862).

Oefner CM, Winkler A, Hess C, Lorenz, AK, Holeccka V, Huxdorf M, Schommartz T, Petzold D, Bitterling J, Schoen A-L, ..., Köhl J, Hutloff A, Hamelmann E, Berger M, Wardemann H, **Ehlers M**. Tolerance induction with T cell-dependent protein antigens induces regulatory sialylated IgGs. **J Allergy Clin Immunol** 2012; 129(6):1647-1655. doi: [10.1016/j.jaci.2012.02.037](https://doi.org/10.1016/j.jaci.2012.02.037).

**Ehlers M**, Fukuyama H, McGaha H, Aderem A, and Ravetch JV. TLR9/MyD88 signaling is required for class switching to pathogenic IgG2a and 2b autoantibodies in SLE. **J Exp Med** 2006; 203(3):553-561. doi: [10.1084/jem.20052438](https://doi.org/10.1084/jem.20052438).

Peters M, Jacobs S, **Ehlers M**, Vollmer P, Müllberg J, Wolf E, Brem G, Meyer zum Büschenfelde K.-H, and Rose-John S. The function of the soluble interleukin 6 (IL-6) receptor in vivo: sensitization of human soluble IL-6 receptor transgenic mice towards IL-6 and prolongation of the plasma half-life of IL-6. **J Exp Med** 1996; 183(4):1399-1406. doi: [10.1084/jem.183.4.1399](https://doi.org/10.1084/jem.183.4.1399).