CV Prof. Dr. Maren von Köckritz-Blickwede

- **Professor for Biochemistry of Infection, Institute for Biochemistry, University of Veterinary Medicine Hannover (TiHo)**
- **Director for Scientific Administration and Biosafety Management, Research Center for Emerging Infections and Zoonosis (RIZ)**

Personal Information Born: 1976, Nationality: German; 2 kids

Scientific discipline and key expertise

- Infection biochemistry
- Innate immunity
- Host-pathogen interaction
- Hypoxia/tissue oxygen supply
- Animal experimental infection models & alternatives to animal experiments

Education, research, and professional experience

Since 2019	Director for Scientific Administration and Biosafety Management, Research Center for Emerging Infections and Zoonosis (RIZ), TiHo
2017	Biosafety expert for BSL3
Since 2015	Professor for Biochemistry of Infection, Department of Biochemistry, TiHo
2014	Lecture qualification (Habilitation) in Biochemistry and Infection Biology, TiHo
2010 - 2015	Head of the Infection Biochemistry Group, Department of Biochemistry, TiHo
Since 2003	Biosafety expert genetically modified organisms
2008 - 2010	Post-doctoral fellow at the Department of Pharmacology & Drug Discovery, San Diego School of Medicine, University of California, supported by Deutsche Akademie der Naturforscher Leopoldina.
2004 - 2008	PostDoc at the Department of Microbial Pathogenicity, Helmholtz Center for Infection Research (HZI), Braunschweig, Germany.
2004	Dr. rer. nat., University of Veterinary Medicine, Hannover, Germany
2001	Advanced training course in animal welfare and skills for personnel that plan and conduct animal experiments (“Tierschutzgerechter Umgang mit Versuchstieren” formerly FELASA C course) according to Anl. 1 Abs. 3 TierSchVersV and attachment V, Art. 23 and 24 of Directive 2010/63/EU
1995 - 2001	Studies of Biology, University of Hannover, Germany
1998 - 1999	Integrated studies of Tropical Biology at the Universidad Nacional de Heredia, Costa Rica, funded by a scholarship from the German Academic Exchange Service

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Selected awards and honors

2012 *Gustav-Rosenberger Gedächtnispreis zur Förderung des wissenschaftlichen Nachwuchses*, University of Veterinary Medicine Hannover

2008 Leopoldina fellowship for 2 years PostDoc in USA

2008 Awardee of the Helmholtz-Network-Mentoring Program

Selected extraordinary functions

Since 2023 Member of the Scientific Advisory Board of the German Primate Center

Since 2023 Deputy Spokeswoman of the Research Network "MikroReplaceSystems" to "Replace and Reduce Animal Experiments in Lower Saxony" (R2N).

Since 2021 Deputy Spokeswoman of the COVID-19 Research Network Lower Saxony (COFONI)

Since 2020 Member of the DFG Review Board (207-08 Veterinary Medicine)

Since 2017 Chairperson of the Preclinical Commission (Vorsitz "Fachkommission Vorklinik"), University of Veterinary Medicine, Hannover, Germany.

Since 2015 Biosafety officer (S1-S3), Research Center for Emerging Infections and Zoonosis, University of Veterinary Medicine, Hannover, Germany.

Selected publications

1. García-Bengoa M, Meurer M, Stehr M, Elamin AA, Singh M, Oehlmann W, Mörgelin M, **von Köckritz-Blickwede M**. Mycobacterium tuberculosis PE/PPE proteins enhance the production of reactive oxygen species and formation of neutrophil extracellular traps. Front Immunol. 2023 Aug 22;14:1206529. doi: 10.3389/fimmu.2023.1206529. eCollection 2023.
2. de Buhr N, Parplys AC, Schroeder M, Henneck T, Schaumburg B, Stanelle-Bertram S, Jarczak D, Nierhaus A, Hiller J, Peine S, Kluge S, Klingel K, Gabriel G, **von Köckritz-Blickwede M**. Impaired Degradation of Neutrophil Extracellular Traps: A Possible Severity Factor of Elderly Male COVID-19 Patients. J Innate Immun. 2022;14(5):461-476. doi: 10.1159/000521594.
3. Becker K*, Beythien G*, de Buhr N*, Stanella-Bertram S, Tuku B, Mounogou Kouassi N, Beck S, Zickler M, Allnoch L, Gabriel G, **von Köckritz-Blickwede M***, Baumgärtner W*. Vasculitis and Neutrophil Extracellular Traps in Lungs of Golden Syrian Hamsters with SARS-CoV-2. Front. Immunol. 2021 Apr 12; 12(1); 1125; doi: 10.3389/fimmu.2021.640842. [* contributed equally]
4. Martens A, de Buhr N, Ishikawa H, Schroten H, **von Köckritz-Blickwede M**. Characterization of Oxygen Levels in an Uninfected and Infected Human Blood-Cerebrospinal-Fluid-Barrier Model. Cells. 2022 Jan 4;11(1):151. doi: 10.3390/cells11010151.
5. de Buhr N, Bonilla MC, Pfeiffer J, Akhdar S, Schwennen C, Kahl BC, Waldmann KH, Valentin-Weigand P, Hennig-Pauka I, **von Köckritz-Blickwede M**. Degraded neutrophil extracellular traps promote the growth of Actinobacillus pleuropneumoniae. Cell Death Dis. 2019 Sep 10;10(9):657. doi: 10.1038/s41419-019-1895-4.