

Curriculum Vitae

Bernd Schreck Professor, Dr. med.
d.o.b. August 19th, 1974, Germany

University Education

2007 Habilitation Internal Medicine, Charité Berlin
2002 Doctorate Medicine, Humboldt University Berlin
1994–2000 Studies of Medicine, Humboldt University Berlin

Scientific Career

Since 2022 Member of ILH (Institute for Lung Health)
Since 2020 Head of the Clinical Section for Respiratory Infections at the Dept. for Respiratory and Critical Care Medicine, University Medical Center Marburg

Since 2020 Member of DZIF
Since 2020 Member of SYNMIKRO
2017–2020 Member of the Executive Board of EASYM
Since 2016 Member of the Editorial Board of “Frontiers in Medicine – Precision Medicine”
Since 2013 Founding Director of the Institute for Lung Research, Philipps-University Marburg
Since 2012 Associated Specialist for Infectious Diseases at the Dept. for Respiratory and Critical Care Medicine, University Medical Center Marburg

2012–2015 Member of the Editorial Board of the European Respiratory Journal
2012–2015 Member of the Steering Committee of UGMLC
Since 2011 Head of the DZL Systems Biology Platform
Since 2011 Member of DZL
Since 2011 Chair and Full Professor in Molecular Pulmonology, Philipps-University Marburg (UMR)
2008–2011 Junior Group Leader “Systems Biology of Lung Inflammation” (BMBF-FORSYS-Lung), Charité Berlin

2003–2007 Postdoctoral Fellowship, Dept. of Internal Medicine, Infectious Diseases and Pulmonary Medicine, Charité Berlin
2003 Visiting Scientist at Johns-Hopkins-University, Baltimore, Maryland, USA

Awards and Honors

Since 2021 Speaker of LOEWE Diffusible Signals
Since 2018 Speaker of ERACO-SysMed: SysMed-COPD
2017–2021 Vice-Speaker of JPIAMR Restrict-Pneumo-AMR
2015–2017 Vice-Speaker of LOEWE Medical RNomics
2009 Research Award of the German Society for Infectiology
2008 Young Investigator Scholarship, Charité Berlin

Citation Record

Total citations: 6383; h-index: 44; h-index since 2017: 27 (Google Scholar July 22nd, 2022)

Top-10 selected Publications

Conrad C, Yildiz D, Cleary SJ, Margraf A, Cook L, Schlomann U, Panaretou B, Bowser JL, Karmouty-Quintana H, Li J, Berg NK, Martin SC, Aljohmani A, Moussavi-Harami SF, Wang KM, Tian JJ, Magnen M, Valet C, Qiu L, Singer JP, Eltzschig HK; CAPSys Study Group, Bertrams W, Herold S, Suttorp N, **Schmeck B**, Ball ZT, Zarbock A, Looney MR, Bartsch JW. ADAM8 signaling drives neutrophil migration and ARDS severity. **JCI Insight**. 2022 Feb 8;7(3):e149870. doi: [10.1172/jci.insight.149870](https://doi.org/10.1172/jci.insight.149870).

Bertrams W, Lindhauer NS, Rieke MC, Paas A, Hoffmann K, Greene B, Visekruna A, Vilcinskis A, Seidel K, **Schmeck B**. *Tribolium castaneum* defensin 1 kills *Moraxella catarrhalis* in an in vitro infection model but does not harm commensal bacteria. **Virulence**. 2021 Dec;12(1):1003-1010. doi: [10.1080/21505594.2021.1908741](https://doi.org/10.1080/21505594.2021.1908741).

Bertrams W, Griss K, Han M, Seidel K, Hippenstiel S, Suttorp N, Finkernagel F, Wilhelm J, Vogelmeier CF, **Schmeck B**. Transcriptional analysis identifies potential biomarkers and molecular regulators in acute malaria infection. **Life Sci**. 2021 Apr 1;270:119158. doi: [10.1016/j.lfs.2021.119158](https://doi.org/10.1016/j.lfs.2021.119158).

Bertrams W, Griss K, Han M, Seidel K, Hippenstiel S, Suttorp N, Finkernagel F, Wilhelm J, Vogelmeier CF, **Schmeck B**. Transcriptional analysis identifies potential biomarkers and molecular regulators in acute malaria infection. **Life Sci**. 2021 Apr 1;270:119158. doi: [10.1016/j.lfs.2021.119158](https://doi.org/10.1016/j.lfs.2021.119158).

Herkt CE, Caffrey BE, Surmann K, Blankenburg S, Gesell Salazar M, Jung AL, Herbel SM, Hoffmann K, Schulte LN, Chen W, Sittka-Stark A, Völker U, Vingron M, Marsico A, Bertrams W, **Schmeck B**. A MicroRNA Network Controls *Legionella pneumophila* Replication in Human Macrophages via LGALS8 and MX1. **mBio**. 2020 Mar 24;11(2). pii: e03155-19. doi: [10.1128/mBio.03155-19](https://doi.org/10.1128/mBio.03155-19).

Zasłona Z, Flis E, Wilk MM, Carroll RG, Palsson-McDermott EM, Hughes MM, Diskin C, Banahan K, Ryan DG, Hooftman A, Misiak A, Kearney J, Lochnit G, Bertrams W, Greulich T, **Schmeck B**, McElvaney OJ, Mills KHG, Lavelle EC, Wygrecka M, Creagh EM, O'Neill LAJ. Caspase-11 promotes allergic airway inflammation. **Nat Commun**. 2020 Feb 26;11(1):1055. doi: [10.1038/s41467-020-14945-2](https://doi.org/10.1038/s41467-020-14945-2).

Lindhauer NS, Bertrams W, Pöppel A, Herkt CE, Wesener A, Hoffmann K, Greene B, Van Der Linden M, Vilcinskis A, Seidel K, **Schmeck B**. Antibacterial activity of a *Tribolium castaneum* defensin in an in vitro infection model of *Streptococcus pneumoniae*. **Virulence**. 2019 Dec;10(1):902-909. doi: [10.1080/21505594.2019.1685150](https://doi.org/10.1080/21505594.2019.1685150).

Limburg H, Harbig A, Bestle D, Stein DA, Moulton HM, Jaeger J, Janga H, Harges K, Koepke J, Schulte L, Koczulla AR, **Schmeck B**, Klenk HD, Böttcher-Friebertshäuser E. TMPRSS2 is the major activating protease of influenza A virus in primary human airway cells and influenza B virus in human type II pneumocytes. **J Virol**. 2019 Aug 7. pii: JVI.00649-19. doi: [10.1128/JVI.00649-19](https://doi.org/10.1128/JVI.00649-19).

Nandakumar R, Tschisnarov R, Meissner F, Prabakaran T, Krissanaprasit A, Farahani E, Zhang BC, Assil S, Martin A, Bertrams W, Holm CK, Ablasser A, Klause T, Thomsen MK, **Schmeck B**, Howard KA, Henry T, Gothelf KV, Decker T, Paludan SR. Intracellular bacteria engage a STING-TBK1-MVB12b pathway to enable paracrine cGAS-STING signalling. **Nat Microbiol**. 2019 Apr;4(4):701-713. doi: [10.1038/s41564-019-0367-z](https://doi.org/10.1038/s41564-019-0367-z).

Scheller N, Herold S, Kellner R, Bertrams W, Jung AL, Janga H, Greulich T, Schulte LN, Vogelmeier CF, Lohmeyer J, **Schmeck B**. Proviral MicroRNAs Detected in Extracellular Vesicles From Bronchoalveolar Lavage Fluid of Patients With Influenza Virus-Induced Acute Respiratory Distress Syndrome. **J Infect Dis**. 2019 Jan 29;219(4):540-543. doi: [10.1093/infdis/jiy554](https://doi.org/10.1093/infdis/jiy554).