

Curriculum Vitae

Leon Schulte Professor, Dr. rer. Nat.
 d.o.b. November 11th, 1980, in Berlin, Germany

University Education

2013 Dr. rer. nat. degree, Humboldt-University Berlin (summa cum laude)
2001-2007 Studies of Biology, J.W. Goethe University Frankfurt and Humboldt University Berlin

Scientific Career

Since 2022 W2 Professor, Institute for Lung Research, Philipps-University, Marburg
Since 2019 PI of the Member German Center for Lung Research (DZL)
2017-2022 W1 Professor, Institute for Lung Research, Philipps-University, Marburg
2015-2017 Junior Group Leader Institute for Lung Research, Philipps-University, Marburg
2013-2015 Postdoc, Institute for Molecular Infection Biology (IMIB), Würzburg, AG Jörg Vogel
2008-2013 PhD student, Max Planck-Institute for Infection Biology, Berlin, AG Jörg Vogel

Awards and Honors

2020 Millstein Abstract Award (ICIS)
2018 MarBiNa Young Investigator Award (Marburg Biotechnology and Nanotechnology e.V.)
2009 ASM Student Travel Grant (American Society for Microbiology)
2007 AAAS Sponsored Membership (American Association for the Advancement of Science)

Citation Record

Total citations: 1651; h-index: 15; h-index since 2017: 15 (Google Scholar Sept 26th, 2022)

Top-10 selected Publications

Aznaourova A, Schmerer S, Janga H, Zhang Z, Pauck K, Hoppe J, Volkens SM, Wendisch D, Georg P, Gündisch M, Mack E, Skevaki C, Keller C, Bauer C, Bertrams W, Nist A, Stiewe T, Gruber AD, Ruppert C, Li Y, Garn H, Sander LE, Schmeck B, **Schulte LN**. Single cell RNA sequencing uncovers the nuclear decoy lincRNA PIRAT as a regulator of systemic monocyte immunity during COVID-19. **PNAS** (IF 11.2), 2022, 119(36):e2120680119.

Linden G, Janga H, Franz M, Nist A, Stiewe T, Schmeck B, Vázquez O, **Schulte LN**. Efficient antisense inhibition reveals microRNA-155 to restrain a late-myeloid inflammatory programme in primary human phagocytes. **RNA Biology**, (IF 5.35), 2021, 18(5):604-618.

Aznaourova M, Janga H, Sefried S, Kaufmann A, Dorna J, Volkens SM, Georg P, Lechner M, Hoppe J, Dökel S, Schmerer N, Gruber AD, Linne U, Bauer S, Sander LE, Schmeck B, **Schulte LN**. Noncoding RNA Mall1 is an integral component of the TLR4–TRIF pathway. **PNAS** (IF 11.2), 2020, 117(16):9042-9053.

Schulte LN, Schweinlin M, Westermann AJ, Janga H, Santos SC, Appenzeller S, Walles H, Vogel J, Metzger M. An advanced human intestinal co-culture model reveals compartmentalized host and pathogen strategies during Salmonella infection. **mBio** (IF 6.75), 2020, 11(1): e03348-19.

Schulte LN, Heinrich B, Janga H, Schmeck BT, Vázquez O. A Far-Red Fluorescent DNA Binder Enables Interaction Studies of Live Multidrug-Resistant Pathogens and Host Cells. **Angewandte Chemie** (IF: 12.1) 2018, <https://doi.org/10.1002/anie.201804090>.

Janga H, Aznaourova M, Damm K, Grünweller A, **Schulte LN**. Cas9-mediated excision of proximal DNaseI/H3K4me3 signatures confers robust silencing of microRNA and long non-coding RNA genes. **Plos One** (IF: 2.8) 2018, <https://doi.org/10.1371/journal.pone.0193066>.

Saliba AE, Li L, Westermann A, Appenzeller S, Stapels DAC, **Schulte LN**, Helaine S, Vogel J. Single-cell RNA-seq ties macrophage polarization to growth rate of intracellular Salmonella. **Nature Microbiology** (IF: 14.2) 2016, 2:16206.

Westermann AJ, Förstner K, Amman F, Barquist L, Chao Y, **Schulte LN**, Müller L, Reinhardt R, Stadler PF, Vogel J. Dual RNA-seq unveils noncoding RNA functions in Salmonella-host interplay. **Nature** (IF: 41.5) 2016, 529(7587):496-501.

Schulte LN, Westermann AJ, Vogel J. Differential activation and functional specialization of miR-155 and miR-146 in innate immune sensing. **Nucleic Acid Research** (IF: 10.2) 2013, 41(1):542-553.

Schulte LN, Eulalio A, Mollenkopf H-J, Reinhardt R, Vogel J. Analysis of the host miRNA response to Salmonella uncovers the control of major cytokines by the let-7 family. **EMBO Journal** (IF: 10.6) 2011, 30:1977-1989