

## Curriculum Vitae

**Linda Brunotte** Professor, Dr. rer. nat.  
d.o.b. October 11th, 1979, in Hannover, Germany

### University Education

2010 Doctorate of natural sciences, University of Bremen, Germany  
2000–2006 Studies of Biology (Diploma), Georg-August University Goettingen, Germany

### Scientific Career

Since 2025 Professor for Immune Reactions of Respiratory Tract infections, JLU  
Since 2020 Management Board of the Clinical Research Unit CRU342  
Since 2020 Founding member of the Women in Science Medicine Network Muenster  
2015–2025 Group leader, Institute for Molecular Virology, University Muenster  
2011–2015 Postdoctoral Fellow, Institute of Virology, University Freiburg

### Awards and Honors

2023 Selected Mentee of the Medical Faculty within the Mentoring program “Erstklassig!”,  
University Münster  
2023 Paper of the Month February / Medical Faculty, University Hospital Muenster  
2022 Paper of the Month November / Medical Faculty, University Hospital Muenster  
2015 2-year Leopoldina International Postdoc-Fellowship (declined)

### Citation Record

Total citations: 2650; h-index:28; h-index since 2021: 24 (Google Scholar January 31<sup>st</sup>, 2026)

### Top-10 selected Publications

Günl F, Krischuns T, Schreiber JA, Henschel L, Wahrenburg M, Drexler HCA, Leidel SA, Cojocaru V, Seebohm G, Mellmann A, Schwemmler M, Ludwig S, **Brunotte L**. The ubiquitination landscape of the influenza A virus polymerase. *Nat Commun*. 2023 Feb 11;14(1):787. doi: 10.1038/s41467-023-36389-0.

Tsukamoto Y, Hiono T, Yamada S, Matsuno K, Faist A, Claff T, Hou J, Namasivayam V, Vom Hemdt A, Sugimoto S, Ng JY, Christensen MH, Tesfamariam YM, Wolter S, Juraneck S, Zillinger T, Bauer S, Hirokawa T, Schmidt FI, Kochs G, Shimojima M, Huang YS, Pichlmair A, Kümmerer BM, Sakoda Y, Schlee M, **Brunotte L**, Müller CE, Igarashi M, Kato H. Inhibition of cellular RNA methyltransferase abrogates influenza virus capping and replication. *Science*. 2023 Feb 10;379(6632):586-591. doi: 10.1126/science.add0875.

Faist A, Schloer S, Mecate-Zambrano A, Janowski J, Schreiber A, Boergeling Y, Conrad BCG, Kumar S, Toebben L, Schughart K, Baumgardt M, Kessler M, Hoenzke K, Hocke A, Trautmann M, Hartmann W, Kato H, Rescher U, Christersson A, Kuehn J, Mellmann A, Wolff T, Kuempers P, Rovas A, Wiewrodt R, Wiebe K, Barth P, Ludwig S, **Brunotte L**. Inhibition of p38 signaling curtails the SARS-CoV-2 induced inflammatory response but retains the IFN-dependent antiviral defense of the lung epithelial barrier. *Antiviral Res*. 2023 Jan;209:105475. doi: 10.1016/j.antiviral.2022.105475

Schuhenn J, Meister TL, Todt D, Bracht T, Schork K, Billaud JN, Elsner C, Heinen N, Karakoese Z, Haid S, Kumar S, **Brunotte L**, Eisenacher M, Di Y, Lew J, Falzarano D, Chen J, Yuan Z, Pietschmann T, Wiegmann B, Uebner H, Taube C, Le-Trilling V T K., Trilling M, Krawczyk A, Ludwig S, Sitek B, Steinmann E, Dittmer U, Lavender K., Sutter K, and Pfaender S. (2022) Differential interferon-alpha subtype induced immune signatures are associated with suppression of SARS-CoV-2 infection. *Proc Natl Acad Sci U S A* 2022, 10.1073/pnas.2111600119

**Brunotte L**, Zheng S, Mecate-Zambrano A, Tang J, Ludwig S, Rescher U, and Schloer S (2021) Combination Therapy with Fluoxetine and the Nucleoside Analog GS-441524 Exerts Synergistic Antiviral Effects against Different SARS-CoV-2 Variants In Vitro. *Pharmaceutics* 2021 Sep 3;13(9):1400. doi: 10.3390/pharmaceutics13091400.

Schloer S\*, **Brunotte L\***, Goretzko J, Mecate-Zambrano A, Korthals N, Gerke V, Ludwig S and Rescher U (2020) Targeting the endolysosomal host-SARS-CoV-2 interface by clinically licensed functional inhibitors of acid sphingomyelinase (FIASMA) including the antidepressant fluoxetine. *Emerg Microbes Infect*, 2020 Dec;9(1):2245-2255. doi: 10.1080/22221751.2020.1829082. \*shared first author

Matos ADR, Wunderlich K, Schloer S, Schughart K, Geffers R, Seders M, Witt M, Christersson A, Wiewrodt R, Wiebe K, Barth P, Hocke A, Hippenstiel S, Honzke K, Dittmer U, Sutter K, Rescher U, Rodionychewa S, Matera N, Ludwig S, and **Brunotte L** (2019) Antiviral potential of human IFN-alpha subtypes against influenza A H3N2 infection in human lung explants reveals subtype-specific activities. *Emerg Microbes Infect*, 2019;8(1):1763-1776. doi: 10.1080/22221751.2019.1698271.

Krischuns T, Günl F, Henschel L, Binder M, Willemsen J, Schloer S, Rescher U, Gerlt V, Zimmer G, Nordhoff C, Ludwig S, and **Brunotte L** (2018) Phosphorylation of TRIM28 Enhances the Expression of IFN- $\beta$  and Proinflammatory Cytokines During HPAIV Infection of Human Lung Epithelial Cells. *Front Immunol*, 2018 Sep 28;9:2229. doi: 10.3389/fimmu.2018.02229.

**Brunotte L**, Flies J, Bolte H, Reuther P, Vreede F, and Schwemmle M (2014) The nuclear export protein of H5N1 influenza A viruses recruits Matrix 1 (M1) protein to the viral ribonucleoprotein to mediate nuclear export. *J Biol Chem*, 2014 Jul 18;289(29):20067-77. doi: 10.1074/jbc.M114.569178.

Mänz B, **Brunotte L**, Reuther P, and Schwemmle M (2012) Adaptive mutations in NEP compensate for defective H5N1 RNA replication in cultured human cells. *Nat Commun*, 2012 May 1;3:802. doi: 10.1038/ncomms1804.