

Curriculum Vitae Anna Lena Jung

Personal Data

Title	Dr. rer. nat.
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Current position	Junior Research Group Leader and Co-Head of the Core Facility "Bacterial Extracellular Vesicles" (fixed-term until 12/31/2029)
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Selection of peer-reviewed research articles:

1. Burgy O, Mayr CH, Schenese D, *et al*, **Jung AL**, *et al*, Königshoff M. Fibroblast-derived extracellular vesicles contain SFRP1 and mediate pulmonary fibrosis. *JCI Insight*. 2024 Aug 15;9(18):e168889. doi: 10.1172/jci.insight.168889.
2. Burt M, Angelidou G, Mais CN, *et al*, **Jung AL**. Lipid A in outer membrane vesicles shields bacteria from polymyxins. *J Extracell Vesicles*. 2024 May;13(5):e12447. doi: 10.1002/jev2.12447.
3. **Jung AL**, Møller Jørgensen M, Bæk R, *et al*, Schmeck B. Surface Proteome of Plasma Extracellular Vesicles as mechanistic and clinical Biomarkers for Malaria. *Infection*. 2023 Oct;51(5):1491-1501. doi: 10.1007/s15010-023-02022-x.
4. Klabunde B, Wesener A, Bertrams W, *et al*, **Jung AL**, *et al*, Schmeck B. NAD⁺ metabolism is a key modulator of bacterial respiratory epithelial infections. *Nat Commun*. 2023 Oct 2;14(1):5818. doi: 10.1038/s41467-023-41372-w.
5. **Jung AL**, Han M, Griss K, *et al*, Schmeck B. Novel Protein Biomarkers for Pneumonia and Acute COPD Exacerbations: a Pilot Study. *Front Med*. 2023 Jun 5;10:1180746. doi: 10.3389/fmed.2023.1180746.
6. Laakmann K, Eckersberg JM, Hapke M, *et al*, **Jung AL**. Bacterial extracellular vesicles repress the vascular protective factor RNase1 in human lung endothelial cells. *Cell Commun Signal*. 2023 May 15;21(1):111. doi:10.1186/s12964-023-01131-2.
7. Bierwagen J*, Wiegand M*, Laakmann K, *et al*, **Jung AL**. Bacterial vesicles block viral replication in macrophages via TLR4-TRIF-axis. *Cell Commun Signal*. 2023 Mar 28;21(1):65. doi:10.1186/s12964-023-01086-4.
8. **Jung AL**, Møller Jørgensen M, Bæk R, *et al*, Schmeck B. Surface Proteome of Plasma Extracellular Vesicles as Biomarkers for Pneumonia and acute Exacerbation of Chronic Obstructive Pulmonary Disease. *J Infect Dis*. 2020 Jan 2;221(2):325-335. doi: 10.1093/infdis/jiz460.
9. **Jung AL**, Herkt CE, Schulz C, *et al*, Schmeck B. *Legionella pneumophila* infection activates bystander cells differentially by bacterial and host cell vesicles. *Sci Rep* 2017 Jul 24;7(1):6301. doi: 10.1038/s41598-017-06443-1.
10. **Jung AL**, Stoiber C, Herkt CE, *et al*, Schmeck B. *Legionella pneumophila*-derived outer membrane vesicles promote bacterial replication in macrophages. *PLoS Pathog*. 2016 Apr 22;12(4):e1005592. doi:10.1371/journal.ppat.1005592.