

Curriculum Vitae Nicolas Schlegel

Personal Data

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Selection of peer-reviewed research articles:

1. Hörner M, Burkard N, Kelm M, *et int*, **Schlegel N**. Glial cell line derived neurotrophic factor (GDNF) induces mucosal healing via intestinal stem cell niche activation. *Cell Prolif*. 2025 Feb;58(2):e13758. doi: 10.1111/cpr.13758.
2. Chiarolla CM, Schulz AR, Meir M, *et int*, **Schlegel N**, Mei HE, Berberich-Siebelt F. Pro-inflammatory NK-like T cells are expanded in the blood and inflamed intestine in Crohn's disease. *Mucosal Immunol*. 2025 Feb;18(1):162-175. doi: 10.1016/j.mucimm.2024.11.001.
3. Kollmann C, Buerkert H, Meir M, *et int*, **Schlegel N**. Human organoids are superior to cell culture models for intestinal barrier research. *Front Cell Dev Biol*. 2023 Oct 2;11:1223032. doi: 10.3389/fcell.2023.1223032.
4. Nagler S, Ghoreishi Y, Kollmann C, *et int*, **Schlegel N**. Plakophilin 2 regulates intestinal barrier function by modulating protein kinase C activity in vitro. *Tissue Barriers*. 2023 Oct 2;11(4):2138061. doi: 10.1080/21688370.2022.2138061.
5. Lenschow C, Schrägle S, Kircher S, *et int*, **Schlegel N**; NEKAR study group. Clinical Presentation, Treatment, and Outcome of Parathyroid Carcinoma: Results of the NEKAR Retrospective International Multicenter Study. *Ann Surg*. 2022 Feb 1;275(2):e479-e487. doi: 10.1097/SLA.0000000000004144.
6. Burkard N, Meir M, Kannapin F, *et int*, **Schlegel N**. Desmoglein2 Regulates Claudin2 Expression by Sequestering PI-3-Kinase in Intestinal Epithelial Cells. *Front Immunol*. 2021 Sep 30;12:756321. doi: 10.3389/fimmu.2021.756321.
7. Meir M, Salm J, Fey C, *et int*, **Schlegel N**. Enteroids Generated from Patients with Severe Inflammation in Crohn's Disease Maintain Alterations of Junctional Proteins. *J Crohns Colitis*. 2020 Oct 5;14(10):1473-1487. doi: 10.1093/ecco-jcc/jjaa085.
8. Meir M, Burkard N, Ungewiß H, *et int*, **Schlegel N**. Neurotrophic factor GDNF regulates intestinal barrier function in inflammatory bowel disease. *J Clin Invest*. 2019 Jun 17;130:2824-2840. doi: 10.1172/JCI120261. PMID: 31205031.
9. Gross A, Pack LAP, Schacht GM, *et int*, **Schlegel N**, *et int*, Strnad P. Desmoglein 2, but not desmocollin 2, protects intestinal epithelia from injury. *Mucosal Immunol*. 2018 Nov;11(6):1630-1639. doi: 10.1038/s41385-018-0062-z.
10. Flemming S, Renschler M, Vielmuth F, *et int*, **Schlegel N**. Soluble VE-cadherin is involved in endothelial barrier breakdown in systemic inflammation and sepsis; *Cardiovasc Res* 2015 Jul 1;107(1):32-44. doi: 10.1093/cvr/cvv144.