

Curriculum Vitae Michael Meir

Personal Data

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Selection of peer-reviewed research articles:

1. Hörner M, Burkard N, Kelm M, *et int*, **Meir M**, *et int*, Schlegel N. Glial cell line derived neurotrophic factor (GDNF) induces mucosal healing via intestinal stem cell niche activation. *Cell Prolif*. 2024 Nov 28:e13758. doi: 10.1111/cpr.13758.
2. Chiarolla CM, Schulz AR, **Meir M**, *et int*, Berberich-Siebelt F. Pro-inflammatory NK-like T cells are expanded in the blood and inflamed intestine in Crohn's disease. *Mucosal Immunol*. 2024 Nov 7:S1933-0219(24)00109-0. 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. Kannapin F, Schmitz T, Hansmann J, Schlegel N, **Meir M**. Measurements of transepithelial electrical resistance (TEER) are affected by junctional length in immature epithelial monolayers. *Histochem Cell Biol*. 2022 Jan;157(1):119. doi: 10.1007/s00418-021-02063-z.
5. 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.
6. **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.
7. **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.
8. Gross A, Pack LAP, Schacht GM, *et int*, **Meir M**, *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.
9. Spindler V, **Meir M**, Vigh B, *et int*, Schlegel N. Loss of Desmoglein 2 Contributes to the Pathogenesis of Crohn's Disease. *Inflamm Bowel Dis*. 2015 Oct;21(10):2349-59. doi: 10.1097/MIB.0000000000000486.
10. Schlegel N, **Meir M**, Heupe WM, *et int*, Waschke J. Desmoglein 2-mediated adhesion is required for intestinal epithelial barrier integrity. *Am J Physiol Gastrointest Liver Physiol* 2010 May;298 (5):G774-783. doi: 10.1152/ajpgi.00239.2009.