

Curriculum Vitae Matthias Kelm

Personal Data

Title	PD Dr. med.
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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. **Kelm M**, Flemming S. Mesenteric sparing or extended resection in primary ileocolic resection for Crohn`s disease. *Lancet Gastroenterol Hepatol.* 2025 Jan;10(1):15-16. doi: 10.1016/S2468-1253(24)00343-1.
3. **Kelm M**, Wagner L, Widder A, *et int*, Flemming S. Perioperative Enhanced Recovery Concepts Significantly Improve Postoperative Outcome in Patients with Crohn`s Disease. *J Crohns Colitis.* 2024 Nov 4;18(11):1857-1862. doi: 10.1093/ecco-jcc/jjae090.
4. **Kelm M**, Flemming S. Surgical Resection Might Be the Preferred Therapy Option in Ileocecal Crohn`s Disease. *Gastroenterology.* 2024 Feb;166(2):361-362. doi: 10.1053/j.gastro.2023.07.020.
5. Kollmann C, Buerkert H, Meir M, *et int*, **Kelm M**, *et int*, Schlegel N. Human organoids are superior to cell culture models for intestinal barrier research. *Front Cell Dev Bio.* 2023 Oct 2;11. doi: 10.3389/fcell.2023.1223032.
6. Azcutia V, **Kelm M**, Fink D, *et int*, Brazil JC. Sialylation regulates neutrophil transepithelial migration, CD11b/CD18 activation, and intestinal mucosal inflammatory function. *JCI Insight.* 2023 Mar 8;8(5). doi: 10.1172/jci.insight.167151.
7. Azcutia A, **Kelm M**, Kim S, *et int*, Parkos CA. Distinct stimulus-dependent neutrophil dynamics revealed by real-time imaging of intestinal mucosa after acute injury. *PNAS Nexus.* 2022 Nov;1(5). doi: 10.1093/pnasnexus/pgac249.
8. Azcutia V, **Kelm M**, Luissint AC, *et int*, Parkos CA. Neutrophil expressed CD47 regulates CD11b/CD18-dependent neutrophil transepithelial migration in the intestine in vivo. *Mucosal Immunol.* 2021;14(2):331-341. doi: 10.1038/s41385-020-0316-4.
9. **Kelm M**, Quri M, Azcutia V, *et int*, Parkos CA. Targeting epithelium-expressed sialyl Lewis glycans improves colonic mucosal wound healing and protects against colitis. *JCI Insight.* 2020;5(12):e135843. doi: 10.1172/jci.insight.135843.
10. **Kelm M**, Lehoux S, Azcutia V, *et int*, Brazil JC. Regulation of neutrophil function by selective targeting of glycan epitopes on the integrin CD11b/CD18. *FASEB J.* 2020;34(2):2326-2343. doi: 10.1096/fj.201902542R.