Matthias Zilbauer

List of Publications by Year
in descending order

64	3,682	147801 31	149698 56
papers	citations	h-index	g-index

68	68	68	5924
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The landscape of somatic mutation in normal colorectal epithelial cells. Nature, 2019, 574, 532-537.	27.8	468
2	Cells of the human intestinal tract mapped across space and time. Nature, 2021, 597, 250-255.	27.8	266
3	DNA Methylation and Transcription Patterns in Intestinal Epithelial Cells From Pediatric Patients With Inflammatory BowelÂDiseases Differentiate Disease Subtypes and Associate With Outcome. Gastroenterology, 2018, 154, 585-598.	1.3	226
4	Reconstruction of the mouse extrahepatic biliary tree using primary human extrahepatic cholangiocyte organoids. Nature Medicine, 2017, 23, 954-963.	30.7	210
5	Guanylate-binding proteins convert cytosolic bacteria into caspase-4 signaling platforms. Nature Immunology, 2020, 21, 880-891.	14.5	182
6	Single-Cell Sequencing of Developing Human Gut Reveals Transcriptional Links to Childhood Crohnâ€™s Disease. Developmental Cell, 2020, 55, 771-783.e5.	7.0	164
7	Campylobacter jejuni-mediated disease pathogenesis: an update. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2008, 102, 123-129.	1.8	121
8	DNA methylation defines regional identity of human intestinal epithelial organoids and undergoes dynamic changes during development. Gut, 2019, 68, 49-61.	12.1	116
9	A roadmap for the Human Developmental Cell Atlas. Nature, 2021, 597, 196-205.	27.8	114
10	High-Resolution mRNA and Secretome Atlas of Human Enteroendocrine Cells. Cell, 2020, 181, 1291-1306.e19.	28.9	110
11	A major role for intestinal epithelial nucleotide oligomerization domain 1 (NOD1) in eliciting host bactericidal immune responses to Campylobacter jejuni. Cellular Microbiology, 2007, 9, 2404-2416.	2.1	95
12	An upstream protein-coding region in enteroviruses modulates virus infection in gut epithelial cells. Nature Microbiology, 2019, 4, 280-292.	13.3	94
13	Interleukin-2 induces the in vitro maturation of human pluripotent stem cell-derived intestinal organoids. Nature Communications, 2018, 9, 3039.	12.8	85
14	Innate immune defence in the human gastrointestinal tract. Molecular Immunology, 2005, 42, 903-912.	2.2	84
15	Intestinal Innate Immunity to Campylobacter jejuni Results in Induction of Bactericidal Human Beta-Defensins 2 and 3. Infection and Immunity, 2005, 73, 7281-7289.	2.2	81
16	Activating Transcription Factor 6 Mediates Inflammatory Signals in Intestinal Epithelial Cells Upon Endoplasmic Reticulum Stress. Gastroenterology, 2020, 159, 1357-1374.e10.	1.3	73
17	H3.5 is a novel hominid-specific histone H3 variant that is specifically expressed in the seminiferous tubules of human testes. Chromosoma, 2011, 120, 275-285.	2.2	71
18	Genome-wide methylation analyses of primary human leukocyte subsets identifies functionally important cell-typeâ€“specific hypomethylated regions. Blood, 2013, 122, e52-e60.	1.4	63

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19	Delineation of the Innate and Adaptive T-Cell Immune Outcome in the Human Host in Response to Campylobacter jejuni Infection. PLoS ONE, 2010, 5, e15398.	2.5	61
20	Norovirus Replication in Human Intestinal Epithelial Cells Is Restricted by the Interferon-Induced JAK/STAT Signaling Pathway and RNA Polymerase II-Mediated Transcriptional Responses. MBio, 2020, 11, .	4.1	61
21	Intussusception: Incidence and Treatmentâ€"Insights From the Nationwide German Surveillance. Journal of Pediatric Gastroenterology and Nutrition, 2011, 52, 446-451.	1.8	59
22	Facial palsy: Etiology, outcome and management in children. European Journal of Paediatric Neurology, 2011, 15, 209-213.	1.6	59
23	Stem Cells in Repair of Gastrointestinal Epithelia. Physiology, 2017, 32, 278-289.	3.1	59
24	Prevalence of epileptiform discharges in healthy childrenâ€"New data from a prospective study using digital EEG. Epilepsia, 2010, 51, 1185-1188.	5.1	53
25	Human Î²-defensin 2 expression in ELBW infants with severe necrotizing enterocolitis. Pediatric Research, 2012, 72, 513-520.	2.3	44
26	Transcription and DNA Methylation Patterns of Blood-Derived CD8+ T Cells Are Associated With Age and Inflammatory Bowel Disease But Do Not Predict Prognosis. Gastroenterology, 2021, 160, 232-244.e7.	1.3	42
27	Epigenetics in inflammatory bowel disease. Current Opinion in Gastroenterology, 2012, 28, 577-584.	2.3	41
28	Defining Eosinophilic Colitis in Children: Insights From a Retrospective Case Series. Journal of Pediatric Gastroenterology and Nutrition, 2009, 49, 208-215.	1.8	39
29	Expression of Human Beta-Defensins in Children with Chronic Inflammatory Bowel Disease. PLoS ONE, 2010, 5, e15389.	2.5	39
30	Somatic mosaicism and common genetic variation contribute to the risk of very-early-onset inflammatory bowel disease. Nature Communications, 2020, 11, 995.	12.8	37
31	An Integrated Taxonomy for Monogenic Inflammatory Bowel Disease. Gastroenterology, 2022, 162, 859-876.	1.3	37
32	Clinical outcomes in pediatric intestinal failure: a meta-analysis and meta-regression. American Journal of Clinical Nutrition, 2019, 110, 430-436.	4.7	35
33	Differential Expression of Mucosal Trefoil Factors and Mucins in Pediatric Inflammatory Bowel Diseases. Scientific Reports, 2015, 4, 7343.	3.3	33
34	Interleukin-22 promotes phagolysosomal fusion to induce protection against Salmonella enterica Typhimurium in human epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10118-10123.	7.1	33
35	A functional genetic toolbox for human tissue-derived organoids. ELife, 2021, 10, .	6.0	33
36	Intestinal alpha-defensin expression in pediatric inflammatory bowel disease1. Inflammatory Bowel Diseases, 2011, 17, 2076-2086.	1.9	25

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37	DNA Methylation Analysis in the Intestinal Epitheliumâ€"Effect of Cell Separation on Gene Expression and Methylation Profile. PLoS ONE, 2013, 8, e55636.	2.5	24
38	Intestinal Epithelial Organoids as Tools to Study Epigenetics in Gut Health and Disease. Stem Cells International, 2019, 2019, 1-7.	2.5	22
39	The Gut Microbiome and the Triple Environmental Hit Concept of Inflammatory Bowel Disease Pathogenesis. Journal of Pediatric Gastroenterology and Nutrition, 2020, 71, 589-595.	1.8	22
40	Biobanking of human gut organoids for translational research. Experimental and Molecular Medicine, 2021, 53, 1451-1458.	7.7	21
41	Late-onset cardiac arrhythmia associated with vagus nerve stimulation. Journal of Neurology, 2009, 256, 1578-1580.	3.6	20
42	Clinical course and outcomes of diagnosing Inflammatory Bowel Disease in children 10 years and under: retrospective cohort study from two tertiary centres in the United Kingdom and in Italy. BMC Gastroenterology, 2016, 16, 35.	2.0	17
43	Epigenetics in Paediatric Gastroenterology, Hepatology, and Nutrition. Journal of Pediatric Gastroenterology and Nutrition, 2016, 62, 521-529.	1.8	15
44	Coeliac Disease in Children With Type 1 Diabetes. Journal of Pediatric Gastroenterology and Nutrition, 2014, 59, 600-603.	1.8	13
45	A major role for intestinal epithelial nucleotide oligomerization domain 1 (NOD1) in eliciting host bactericidal immune responses to Campylobacter jejuni. Cellular Microbiology, 2007, 9, 2541-2541.	2.1	11
46	Genome-Wide EpigeneticÂand Transcriptomic Characterization of Human-Induced Pluripotent Stem Cellâ€"Derived Intestinal Epithelial Organoids. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 285-288.	4.5	11
47	Assessing Quality Outcome Measures in Children with Coeliac Diseaseâ€"Experience from Two UK Centres. Nutrients, 2013, 5, 4605-4613.	4.1	9
48	Guidance on the interpretation of faecal calprotectin levels in children. PLoS ONE, 2021, 16, e0246091.	2.5	9
49	Disease Prognostic Biomarkers in Inflammatory Bowel Diseasesâ€"A Reality Check. Journal of Crohn's and Colitis, 2022, 16, 162-165.	1.3	9
50	Feasibility of a finger prick-based self-testing kit in first- and second-degree relatives of children with coeliac disease. World Journal of Gastroenterology, 2011, 17, 1840.	3.3	9
51	Paediatric gastrointestinal endoscopy. European Journal of Gastroenterology and Hepatology, 2016, 28, 25-29.	1.6	6
52	Epigenetics in IBD: a conceptual framework for disease pathogenesis. Frontline Gastroenterology, 2022, 13, e22-e27.	1.8	6
53	Early Treatment Response Predicts Outcome in Paediatric Ulcerative Colitis. Journal of Pediatric Gastroenterology and Nutrition, 2018, 67, 217-220.	1.8	4
54	The growing gap between demand and availability of clinical psychology in Paediatric Gastroenterology: a retrospective analysis of clinical routine care. European Journal of Pediatrics, 2021, 180, 1307-1312.	2.7	4

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55	Obtaining purified human intestinal epithelia for single-cell analysis and organoid culture. STAR Protocols, 2021, 2, 100597.	1.2	4
56	Epigenetics in Gastrointestinal Health and Disease: Spotlight on DNA Methylation in the Intestinal Epithelium. Nestle Nutrition Institute Workshop Series, 2017, 88, 35-44.	0.1	3
57	Epigeneticsâ€"a novel concept with exciting prospects for paediatric research. Archives of Disease in Childhood: Education and Practice Edition, 2014, 99, 67-69.	0.5	2
58	Improving prediction of disease outcome for inflammatory bowel disease: progress through systems medicine. Expert Review of Clinical Immunology, 2021, 17, 871-881.	3.0	2
59	Assessing quality of care in paediatric inflammatory bowel disease: Focusing on self-reported outcomes. Digestive and Liver Disease, 2015, 47, 347-348.	0.9	1
60	Disease-associated DNA methylation signatures in esophageal biopsies of children diagnosed with Eosinophilic Esophagitis. Clinical Epigenetics, 2021, 13, 81.	4.1	1
61	Assessing phenotype and disease course in children with earlier onset of IBD (<11 years). Data from two tertiary centres in the United Kingdom and Italy. Digestive and Liver Disease, 2014, 46, e92.	0.9	0
62	Reply. Gastroenterology, 2018, 155, 230-231.	1.3	0
63	The value of blood derived DNA methylation signatures in advancing our understanding of Crohnâ€™s Disease pathogenesis. Translational Gastroenterology and Hepatology, 2019, 4, 60-60.	3.0	0
64	Reply. Gastroenterology, 2021, 160, 2211-2212.	1.3	0