Thaddeus S Stappenbeck

List of Publications by Year
in descending order

131 papers	21,542 citations	22153 59 h-index	17592 121 g-index
137 all docs	137 docs citations	137 times ranked	29924 citing authors

#	Article	IF	Citations
1	A Dietary Fiber-Deprived Gut Microbiota Degrades the Colonic Mucus Barrier and Enhances Pathogen Susceptibility. Cell, 2016, 167, 1339-1353.e21.	28.9	1,882
2	Multi-omics of the gut microbial ecosystem in inflammatory bowel diseases. Nature, 2019, 569, 655-662.	27.8	1,638
3	A key role for autophagy and the autophagy gene Atg16l1 in mouse and human intestinal Paneth cells. Nature, 2008, 456, 259-263.	27.8	1,341
4	Disease-Specific Alterations in the Enteric Virome in Inflammatory Bowel Disease. Cell, 2015, 160, 447-460.	28.9	1,036
5	Developmental regulation of intestinal angiogenesis by indigenous microbes via Paneth cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15451-15455.	7.1	922
6	Peripheral education of the immune system by colonic commensal microbiota. Nature, 2011, 478, 250-254.	27.8	920
7	Angiogenins: a new class of microbicidal proteins involved in innate immunity. Nature Immunology, 2003, 4, 269-273.	14.5	836
8	Virus-Plus-Susceptibility Gene Interaction Determines Crohn's Disease Gene Atg16L1 Phenotypes in Intestine. Cell, 2010, 141, 1135-1145.	28.9	809
9	In vitro expansion and genetic modification of gastrointestinal stem cells in spheroid culture. Nature Protocols, 2013, 8, 2471-2482.	12.0	593
10	Activated macrophages are an adaptive element of the colonic epithelial progenitor niche necessary for regenerative responses to injury. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 99-104.	7.1	541
11	Gremlin 1 Identifies a Skeletal Stem Cell with Bone, Cartilage, and Reticular Stromal Potential. Cell, 2015, 160, 269-284.	28.9	535
12	The Colonic Crypt Protects Stem Cells from Microbiota-Derived Metabolites. Cell, 2016, 165, 1708-1720.	28.9	484
13	Development of an enhanced human gastrointestinal epithelial culture system to facilitate patient-based assays. Gut, 2015, 64, 911-920.	12.1	410
14	Commensal Bacteroides Species Induce Colitis in Host-Genotype-Specific Fashion in a Mouse Model of Inflammatory Bowel Disease. Cell Host and Microbe, 2011, 9, 390-403.	11.0	409
15	Wnt5a Potentiates TGF-Î² Signaling to Promote Colonic Crypt Regeneration After Tissue Injury. Science, 2012, 338, 108-113.	12.6	402
16	The microbial metabolite desaminotyrosine protects from influenza through type I interferon. Science, 2017, 357, 498-502.	12.6	391
17	The Role of Stromal Stem Cells in Tissue Regeneration and Wound Repair. Science, 2009, 324, 1666-1669.	12.6	304
18	Atg16L1 T300A variant decreases selective autophagy resulting in altered cytokine signaling and decreased antibacterial defense. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7741-7746.	7.1	298

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19	Functional characterization of IgA-targeted bacterial taxa from undernourished Malawian children that produce diet-dependent enteropathy. Science Translational Medicine, 2015, 7, 276ra24.	12.4	280
20	Efficient colonic mucosal wound repair requires Trem2 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 256-261.	7.1	248
21	Spatial organization of intestinal microbiota in the mouse ascending colon. ISME Journal, 2011, 5, 627-638.	9.8	228
22	Myd88-dependent positioning of Ptgs2-expressing stromal cells maintains colonic epithelial proliferation during injury. Journal of Clinical Investigation, 2007, 117, 258-269.	8.2	227
23	Vertically transmitted faecal IgA levels determine extra-chromosomal phenotypic variation. Nature, 2015, 521, 90-93.	27.8	221
24	Autophagy proteins control goblet cell function by potentiating reactive oxygen species production. EMBO Journal, 2013, 32, 3130-3144.	7.8	216
25	Atg16l1 is Required for Autophagy in Intestinal Epithelial Cells and Protection of Mice From Salmonella Infection. Gastroenterology, 2013, 145, 1347-1357.	1.3	211
26	Accounting for reciprocal hostâ€“microbiome interactions in experimental science. Nature, 2016, 534, 191-199.	27.8	205
27	A common role for Atg16L1, Atg5, and Atg7 in small intestinal Paneth cells and Crohn disease. Autophagy, 2009, 5, 250-252.	9.1	202
28	IL-6 Stimulates Intestinal Epithelial Proliferation and Repair after Injury. PLoS ONE, 2014, 9, e114195.	2.5	201
29	Genetics and Pathogenesis of Inflammatory Bowel Disease. Annual Review of Pathology: Mechanisms of Disease, 2016, 11, 127-148.	22.4	201
30	Unique and redundant functions of NKp46+ ILC3s in models of intestinal inflammation. Journal of Experimental Medicine, 2015, 212, 1869-1882.	8.5	181
31	Colitogenic Bacteroides thetaiotaomicron Antigens Access Host Immune Cells in a Sulfatase-Dependent Manner via Outer Membrane Vesicles. Cell Host and Microbe, 2015, 17, 672-680.	11.0	179
32	Prostaglandin E2 promotes intestinal repair through an adaptive cellular response of theÂepithelium. EMBO Journal, 2017, 36, 5-24.	7.8	179
33	Genetic Variants Synthesize to Produce Paneth Cell Phenotypes ThatÂDefine Subtypes of Crohn's Disease. Gastroenterology, 2014, 146, 200-209.	1.3	155
34	Runx3 specifies lineage commitment of innate lymphoid cells. Nature Immunology, 2015, 16, 1124-1133.	14.5	154
35	Diversity of the autochthonous colonic microbiota. Gut Microbes, 2011, 2, 99-104.	9.8	149
36	Long-Term Culture Captures Injury-Repair Cycles of Colonic Stem Cells. Cell, 2019, 179, 1144-1159.e15.	28.9	140

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37	Notes from some crypt watchers: regulation of renewal in the mouse intestinal epithelium. Current Opinion in Cell Biology, 1998, 10, 702-709.	5.4	139
38	A network medicine approach to investigation and population-based validation of disease manifestations and drug repurposing for COVID-19. PLoS Biology, 2020, 18, e3000970.	5.6	139
39	Hostâ€“microbe interactions shaping the gastrointestinal environment. Trends in Immunology, 2014, 35, 538-548.	6.8	138
40	Molecular features of adult mouse small intestinal epithelial progenitors. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1004-1009.	7.1	135
41	IL13 activates autophagy to regulate secretion in airway epithelial cells. Autophagy, 2016, 12, 397-409.	9.1	130
42	Debaryomyces is enriched in Crohnâ€™s disease intestinal tissue and impairs healing in mice. Science, 2021, 371, 1154-1159.	12.6	126
43	A Stem-Cell-Derived Platform Enables Complete Cryptosporidium Development InÂVitro and Genetic Tractability. Cell Host and Microbe, 2019, 26, 123-134.e8.	11.0	116
44	An Antibiotic-Responsive Mouse Model of Fulminant Ulcerative Colitis. PLoS Medicine, 2008, 5, e41.	8.4	109
45	Helicobacter species are potent drivers of colonic T cell responses in homeostasis and inflammation. Science Immunology, 2017, 2, .	11.9	100
46	The Intestinal Microbiome Restricts Alphavirus Infection and Dissemination through a Bile Acid-Type I IFN Signaling Axis. Cell, 2020, 182, 901-918.e18.	28.9	98
47	Crohn disease: A current perspective on genetics, autophagy and immunity. Autophagy, 2011, 7, 355-374.	9.1	94
48	Survival signal REG3Î± prevents crypt apoptosis to control acute gastrointestinal graft-versus-host disease. Journal of Clinical Investigation, 2018, 128, 4970-4979.	8.2	94
49	Inhibition of Cyclooxygenase-2 Prevents Chronic and Recurrent Cystitis. EBioMedicine, 2014, 1, 46-57.	6.1	92
50	Paneth cell defects in Crohnâ€™s disease patients promote dysbiosis. JCI Insight, 2016, 1, e86907.	5.0	91
51	Peripheral education of the immune system by the colonic microbiota. Seminars in Immunology, 2013, 25, 364-369.	5.6	82
52	Fasting protects mice from lethal DNA damage by promoting small intestinal epithelial stem cell survival. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E7148-54.	7.1	82
53	Type I Interferons Link Viral Infection to Enhanced Epithelial Turnover and Repair. Cell Host and Microbe, 2015, 17, 85-97.	11.0	78
54	Abnormal Small Intestinal Epithelial Microvilli in Patients WithÂCrohn's Disease. Gastroenterology, 2018, 155, 815-828.	1.3	75

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55	Response of small intestinal epithelial cells to acute disruption of cell division through CDC25 deletion. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4701-4706.	7.1	72
56	L-WRN conditioned medium for gastrointestinal epithelial stem cell culture shows replicable batch-to-batch activity levels across multiple research teams. Stem Cell Research, 2019, 37, 101430.	0.7	70
57	Diet modulates colonic T cell responses by regulating the expression of a Bacteroides thetaiotaomicron antigen. Science Immunology, 2019, 4, .	11.9	70
58	Autophagy and Intestinal Homeostasis. Annual Review of Physiology, 2013, 75, 241-262.	13.1	69
59	Western diet induces Paneth cell defects through microbiome alterations and farnesoid X receptor and type I interferon activation. Cell Host and Microbe, 2021, 29, 988-1001.e6.	11.0	69
60	Igf2bp1 Is Required for Full Induction of Ptgs2 mRNA in Colonic Mesenchymal Stem Cells in Mice. Gastroenterology, 2012, 143, 110-121.e10.	1.3	66
61	Laminin Î±5 influences the architecture of the mouse small intestine mucosa. Journal of Cell Science, 2008, 121, 2493-2502.	2.0	64
62	Host genetic susceptibility, dysbiosis, and viral triggers in inflammatory bowel disease. Current Opinion in Gastroenterology, 2011, 27, 321-327.	2.3	64
63	Bhlhe40 mediates tissue-specific control of macrophage proliferation in homeostasis and type 2 immunity. Nature Immunology, 2019, 20, 687-700.	14.5	62
64	Dnmt1 is essential to maintain progenitors in the perinatal intestinal epithelium. Development (Cambridge), 2015, 142, 2163-2172.	2.5	60
65	[15] Laser capture microdissection of mouse intestine: Characterizing mrna and protein expression, and profiling intermediary metabolism in specified cell populations. Methods in Enzymology, 2002, 356, 167-196.	1.0	55
66	Mucosally transplanted mesenchymal stem cells stimulate intestinal healing by promoting angiogenesis. Journal of Clinical Investigation, 2015, 125, 3606-3618.	8.2	55
67	Effects of a gut pathobiont in a gnotobiotic mouse model of childhood undernutrition. Science Translational Medicine, 2016, 8, 366ra164.	12.4	54
68	Intestinal Dysmotility Syndromes following Systemic Infection by Flaviviruses. Cell, 2018, 175, 1198-1212.e12.	28.9	53
69	Interaction between smoking and ATG16L1T300A triggers Paneth cell defects in Crohnâ€™s disease. Journal of Clinical Investigation, 2018, 128, 5110-5122.	8.2	53
70	Viral interactions with the host and microbiota in the intestine. Current Opinion in Immunology, 2012, 24, 405-410.	5.5	48
71	Enteric helminth coinfection enhances host susceptibility to neurotropic flaviviruses via a tuft cell-IL-4 receptor signaling axis. Cell, 2021, 184, 1214-1231.e16.	28.9	48
72	B cellâ€“derived IL-4 acts on podocytes to induce proteinuria and foot process effacement. JCI Insight, 2017, 2, .	5.0	48

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73	Paneth Cell Development, Differentiation, and Function: New Molecular Cues. Gastroenterology, 2009, 137, 30-33.	1.3	47
74	Colonic epithelial response to injury requires Myd88 signaling in myeloid cells. Mucosal Immunology, 2012, 5, 194-206.	6.0	46
75	Temporal Regulation of the Bacterial Metabolite Deoxycholate during Colonic Repair Is Critical for Crypt Regeneration. Cell Host and Microbe, 2018, 24, 353-363.e5.	11.0	46
76	LRRK2 but not ATG16L1 is associated with Paneth cell defect in Japanese Crohnâ€™s disease patients. JCI Insight, 2017, 2, e91917.	5.0	46
77	Altered Intestinal ACE2 Levels Are Associated With Inflammation, Severe Disease, and Response to Anti-Cytokine Therapy in Inflammatory Bowel Disease. Gastroenterology, 2021, 160, 809-822.e7.	1.3	45
78	Challenges in IBD Research: Preclinical Human IBD Mechanisms. Inflammatory Bowel Diseases, 2019, 25, S5-S12.	1.9	44
79	PAI-1 augments mucosal damage in colitis. Science Translational Medicine, 2019, 11, .	12.4	44
80	A screen of Crohn's disease-associated microbial metabolites identifies ascorbate as a novel metabolic inhibitor of activated human T cells. Mucosal Immunology, 2019, 12, 457-467.	6.0	44
81	Role of Autophagy and Autophagy Genes in Inflammatory Bowel Disease. Current Topics in Microbiology and Immunology, 2009, 335, 141-167.	1.1	43
82	Paneth Cell Alterations in the Development and Phenotype ofÂCrohnâ€™s Disease. Gastroenterology, 2017, 152, 322-326.	1.3	43
83	Organoids in gastrointestinal diseases: from experimental models to clinical translation. Gut, 2022, 71, 1892-1908.	12.1	40
84	Novel Mode of ISG15-Mediated Protection against Influenza A Virus and Sendai Virus in Mice. Journal of Virology, 2015, 89, 337-349.	3.4	35
85	Current concepts in chronic inflammatory diseases: Interactions between microbes, cellular metabolism, and inflammation. Journal of Allergy and Clinical Immunology, 2016, 138, 47-56.	2.9	35
86	Microbiome control of innate reactivity. Current Opinion in Immunology, 2019, 56, 107-113.	5.5	35
87	Hepatocyte Growth Factor and MET Support Mouse Enteric Nervous System Development, the Peristaltic Response, and Intestinal Epithelial Proliferation in Response to Injury. Journal of Neuroscience, 2015, 35, 11543-11558.	3.6	34
88	Growth Factor Regulation of Prostaglandin-Endoperoxide Synthase 2 (Ptgs2) Expression in Colonic Mesenchymal Stem Cells. Journal of Biological Chemistry, 2010, 285, 5026-5039.	3.4	33
89	A Novel Strategy to Increase the Proliferative Potential of Adult Human Î²-Cells While Maintaining Their Differentiated Phenotype. PLoS ONE, 2013, 8, e66131.	2.5	32
90	Monoclonal Antibodies to Intracellular Stages of Cryptosporidium parvum Define Life Cycle ProgressionIn Vitro. MSphere, 2018, 3, .	2.9	31

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91	Patient-derived small intestinal myofibroblasts direct perfused, physiologically responsive capillary development in a microfluidic Gut-on-a-Chip Model. Scientific Reports, 2020, 10, 3842.	3.3	29
92	Diverse Adult Stem Cells Share Specific Higher-Order Patterns of Gene Expression. Stem Cells, 2008, 26, 2124-2130.	3.2	26
93	Polysaccharide Capsules Equip the Human Symbiont Bacteroides thetaiotaomicron to Modulate Immune Responses to a Dominant Antigen in the Intestine. Journal of Immunology, 2020, 204, 1035-1046.	0.8	26
94	Adaptive differentiation promotes intestinal villus recovery. Developmental Cell, 2022, 57, 166-179.e6.	7.0	25
95	Vav proteins are necessary for correct differentiation of mouse cecal and colonic enterocytes. Journal of Cell Science, 2009, 122, 324-334.	2.0	23
96	Spatial and Temporal Stability of Paneth Cell Phenotypes in CrohnÊ¼s Disease. Inflammatory Bowel Diseases, 2014, 20, 646-651.	1.9	23
97	BHLHE40 Promotes TH2 Cellâ€“Mediated Antihelminth Immunity and Reveals Cooperative CSF2RB Family Cytokines. Journal of Immunology, 2020, 204, 923-932.	0.8	21
98	Local barriers configure systemic communications between the host and microbiota. Science, 2022, 376, 950-955.	12.6	20
99	A Common Mechanism Links Activities of Butyrate in the Colon. ACS Chemical Biology, 2018, 13, 1291-1298.	3.4	19
100	Atg14protects the intestinal epithelium from TNF-triggered villus atrophy. Autophagy, 2019, 15, 1990-2001.	9.1	19
101	Neonatal Mouse Gut Metabolites Influence Cryptosporidium parvum Infection in Intestinal Epithelial Cells. MBio, 2020, 11, .	4.1	19
102	Role of viruses and bacteriaâ€“virus interactions in autoimmunity. Current Opinion in Immunology, 2014, 31, 102-107.	5.5	17
103	Ileal Gene Expression Data from Crohnâ€™s Disease Small Bowel Resections Indicate Distinct Clinical Subgroups. Journal of Crohn's and Colitis, 2019, 13, 1055-1066.	1.3	14
104	In Vitro Culture of Cryptosporidium parvum Using Stem Cell-Derived Intestinal Epithelial Monolayers. Methods in Molecular Biology, 2020, 2052, 351-372.	0.9	14
105	Cellular differentiation: Potential insight into butyrate paradox?. Molecular and Cellular Oncology, 2018, 5, e1212685.	0.7	12
106	Chronic Toxoplasma gondii infection enhances susceptibility to colitis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
107	Reverse translation approach generates a signature of penetrating fibrosis in Crohnâ€™s disease that is associated with anti-TNF response. Gut, 2022, 71, 1289-1301.	12.1	9
108	Biofilm Formation and Virulence of Shigella flexneri Are Modulated by pH of Gastrointestinal Tract. Infection and Immunity, 2021, 89, e0038721.	2.2	9

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109	Tracking Cell Lineage to Rediscover (again) the Switch from Ciliated to Mucous Cells. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 261-263.	2.9	6
110	Autophagy proteins are required for club cell structure and function in airways. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L259-L270.	2.9	6
111	The Current State of Care for Black and Hispanic Inflammatory Bowel Disease Patients. Inflammatory Bowel Diseases, 2023, 29, 297-307.	1.9	6
112	Counteracting stem cell expansion during wound repair. Cell Cycle, 2013, 12, 387-388.	2.6	5
113	Gut-Pancreatic Axis AMPlified in Islets of Langerhans. Immunity, 2015, 43, 216-218.	14.3	5
114	Intestinal Stem Cells Live Off the Fat of the Land. Cell Stem Cell, 2018, 22, 611-612.	11.1	5
115	Epithelial Cell Biomarkers Are Predictive of Response to Biologic Agents in Crohnâ€™s Disease. Inflammatory Bowel Diseases, 2021, 27, 677-685.	1.9	5
116	IgG â€œDetoxesâ€•the Intestinal Mucosa. Cell Host and Microbe, 2015, 17, 538-539.	11.0	4
117	HER2 and APC Mutations Promote Altered Crypt-Villus Morphology and Marked Hyperplasia in the Intestinal Epithelium. Cellular and Molecular Gastroenterology and Hepatology, 2021, 12, 1105-1120.	4.5	4
118	HOIL1 regulates group 2 innate lymphoid cell numbers and type 2 inflammation in the small intestine. Mucosal Immunology, 2022, 15, 642-655.	6.0	4
119	Assigning function to symbionts. Nature Microbiology, 2018, 3, 6-7.	13.3	2
120	O-013â€ƒDefining the Basis of Epithelial Defects in CrohnÊ¼s Using Intestinal Spheroid Culture. Inflammatory Bowel Diseases, 2016, 22, S1-S80.	1.9	1
121	Role of Microbes in the Adaptation of the Colonic Epithelial Progenitor Niche During Injury. Journal of Pediatric Gastroenterology and Nutrition, 2008, 46, E12.	1.8	0
122	P-122â€ƒBacteroides Thetaiotaomicron Induce Tregs in the Colon in a Capsule Independent Mechanism. Inflammatory Bowel Diseases, 2016, 22, S47.	1.9	0
123	Laminins regulate cryptâ€villus architecture and epithelial cell behavior in the mouse intestine. FASEB Journal, 2007, 21, A43.	0.5	0
124	Title is missing!. , 2020, 18, e3000970.		0
125	Title is missing!. , 2020, 18, e3000970.		0
126	Title is missing!. , 2020, 18, e3000970.		0

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127	Title is missing!. , 2020, 18, e3000970.		0
128	Title is missing!. , 2020, 18, e3000970.		0
129	Title is missing!. , 2020, 18, e3000970.		0
130	Title is missing!. , 2020, 18, e3000970.		0
131	Paying attention to minutiae: Strain level differences drive disease etiology. Med, 2022, 3, 270-272.	4.4	0