Noah F Shroyer

List of Publications by Year
in descending order

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90 papers	13,798 citations	47004 47 h-index	58576 82 g-index
94 all docs	94 docs citations	94 times ranked	15777 citing authors

#	Article	IF	Citations
1	Paneth cells constitute the niche for Lgr5 stem cells in intestinal crypts. Nature, 2011, 469, 415-418.	27.8	2,054
2	Directed differentiation of human pluripotent stem cells into intestinal tissue in vitro. Nature, 2011, 470, 105-109.	27.8	1,594
3	A photoreceptor cell-specific ATP-binding transporter gene (ABCR) is mutated in recessive Starqardt macular dystrophy. Nature Genetics, 1997, 15, 236-246.	21.4	1,277
4	Mutation of the Stargardt Disease Gene (ABCR) in Age-Related Macular Degeneration. Science, 1997, 277, 1805-1807.	12.6	844
5	Interleukin-22 promotes intestinal-stem-cell-mediated epithelial regeneration. Nature, 2015, 528, 560-564.	27.8	818
6	An in vivo model of human small intestine using pluripotent stem cells. Nature Medicine, 2014, 20, 1310-1314.	30.7	490
7	Distinct ATOH1 and Neurog3 requirements define tuft cells as a new secretory cell type in the intestinal epithelium. Journal of Cell Biology, 2011, 192, 767-780.	5.2	337
8	Intestinal development and differentiation. Experimental Cell Research, 2011, 317, 2702-2710.	2.6	284
9	Genotype/Phenotype Analysis of a Photoreceptor-Specific ATP-Binding Cassette Transporter Gene, ABCR, in Stargardt Disease. American Journal of Human Genetics, 1999, 64, 422-434.	6.2	277
10	Functional intestinal stem cells after Paneth cell ablation induced by the loss of transcription factor Math1 (Atoh1). Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8965-8970.	7.1	273
11	Gfi1 functions downstream of Math1 to control intestinal secretory cell subtype allocation and differentiation. Genes and Development, 2005, 19, 2412-2417.	5.9	267
12	Intestine-Specific Ablation of Mouse atonal homolog 1 (Math1) Reveals a Role in Cellular Homeostasis. Gastroenterology, 2007, 132, 2478-2488.	1.3	258
13	Establishment of Gastrointestinal Epithelial Organoids. Current Protocols in Mouse Biology, 2013, 3, 217-240.	1.2	253
14	Stem Cell-Derived Human Intestinal Organoids as an Infection Model for Rotaviruses. MBio, 2012, 3, e00159-12.	4.1	216
15	Identification of Epithelial Gaps in Human Small and Large Intestine by Confocal Endomicroscopy. Gastroenterology, 2007, 133, 1769-1778.	1.3	204
16	Transcriptome-wide Analysis Reveals Hallmarks of Human Intestine Development and Maturation InÂVitro and InÂVivo. Stem Cell Reports, 2015, 4, 1140-1155.	4.8	201
17	Differentiation of Human Pluripotent Stem Cells into Colonic Organoids via Transient Activation of BMP Signaling. Cell Stem Cell, 2017, 21, 51-64.e6.	11.1	198
18	Engineering bacterial thiosulfate and tetrathionate sensors for detecting gut inflammation. Molecular Systems Biology, 2017, 13, 923.	7.2	194

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19	SAM pointed domain ETS factor (SPDEF) regulates terminal differentiation and maturation of intestinal goblet cells. Experimental Cell Research, 2010, 316, 452-465.	2.6	160
20	Vertebrate intestinal endoderm development. Developmental Dynamics, 2011, 240, 501-520.	1.8	157
21	Notch in the Intestine: Regulation of Homeostasis and Pathogenesis. Annual Review of Physiology, 2013, 75, 263-288.	13.1	143
22	Somatic stem cell heterogeneity: diversity in the blood, skin and intestinal stem cell compartments. Nature Reviews Molecular Cell Biology, 2015, 16, 299-309.	37.0	142
23	Intestinal adaptation after ileal interposition surgery increases bile acid recycling and protects against obesity-related comorbidities. American Journal of Physiology - Renal Physiology, 2010, 299, G652-G660.	3.4	136
24	Complex interplay between Â-catenin signalling and Notch effectors in intestinal tumorigenesis. Gut, 2011, 60, 166-176.	12.1	127
25	Helicobacter pyloritargets cancer-associated apical-junctional constituents in gastroids and gastric epithelial cells. Gut, 2015, 64, 720-730.	12.1	127
26	Late-onset Stargardt disease is associated with missense mutations that map outside known functional regions of ABCR (ABCA4). Human Genetics, 2001, 108, 346-355.	3.8	124
27	Cosegregation and functional analysis of mutant ABCR (ABCA4) alleles in families that manifest both Stargardt disease and age-related macular degeneration. Human Molecular Genetics, 2001, 10, 2671-2678.	2.9	110
28	The rod photoreceptor ATP-binding cassette transporter gene, ABCR, and retinal disease: from monogenic to multifactorial. Vision Research, 1999, 39, 2537-2544.	1.4	108
29	Analysis of the ABCR (ABCA4) gene in 4-aminoquinoline retinopathy: is retinal toxicity by chloroquine and hydroxychloroquine related to Stargardt disease?. American Journal of Ophthalmology, 2001, 131, 761-766.	3.3	105
30	Atonal homolog 1 Is a Tumor Suppressor Gene. PLoS Biology, 2009, 7, e1000039.	5.6	103
31	The use of murineâ€derived fundic organoids in studies of gastric physiology. Journal of Physiology, 2015, 593, 1809-1827.	2.9	98
32	An Organoid-Based Preclinical Model of Human Gastric Cancer. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 161-184.	4.5	97
33	Establishment of Human Epithelial Enteroids and Colonoids from Whole Tissue and Biopsy. Journal of Visualized Experiments, 2015, , .	0.3	96
34	GATA Factors Regulate Proliferation, Differentiation, and Gene Expression in Small Intestine of Mature Mice. Gastroenterology, 2011, 140, 1219-1229.e2.	1.3	91
35	Selenoprotein P influences colitis-induced tumorigenesis by mediating stemness and oxidative damage. Journal of Clinical Investigation, 2015, 125, 2646-2660.	8.2	87
36	Atonal Homolog 1 Is Required for Growth and Differentiation Effects of Notch/Î³-Secretase Inhibitors on Normal and Cancerous Intestinal Epithelial Cells. Gastroenterology, 2010, 139, 918-928.e6.	1.3	76

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37	Activated STAT5 Confers Resistance to Intestinal Injury by Increasing Intestinal Stem Cell Proliferation and Regeneration. Stem Cell Reports, 2015, 4, 209-225.	4.8	76
38	A Method for Cryogenic Preservation of Human Biopsy Specimens andÂSubsequent OrganoidÂCulture. Cellular and Molecular Gastroenterology and Hepatology, 2018, 6, 218-222.e7.	4.5	76
39	Human-Derived Bifidobacterium dentium Modulates the Mammalian Serotonergic System and Gutâ€“Brain Axis. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 221-248.	4.5	73
40	Cellular Plasticity of Defa4-Expressing Paneth Cells in Response to Notch Activation and Intestinal Injury. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 533-554.	4.5	69
41	Sox4 Promotes Atoh1-Independent Intestinal Secretory Differentiation Toward Tuft and Enteroendocrine Fates. Gastroenterology, 2018, 155, 1508-1523.e10.	1.3	66
42	Fundus albipunctatus and retinitis punctata albescens in a pedigree with an R150Q mutation in RLBP1. Clinical Genetics, 2001, 59, 424-429.	2.0	64
43	Enterocyte STAT5 promotes mucosal wound healing via suppression of myosin light chain kinaseâ€mediated loss of barrier function and inflammation. EMBO Molecular Medicine, 2012, 4, 109-124.	6.9	64
44	Transcriptional Regulation by ATOH1 and its Target SPDEF inÂtheÂIntestine. Cellular and Molecular Gastroenterology and Hepatology, 2017, 3, 51-71.	4.5	62
45	Gfi1â€“cells and circuits: unraveling transcriptional networks of development and disease. Current Opinion in Hematology, 2010, 17, 300-307.	2.5	58
46	Intestinal crypts reproducibly expand in culture. Journal of Surgical Research, 2012, 178, 48-54.	1.6	57
47	Characterization of stem/progenitor cell cycle using murine circumvallate papilla taste bud organoid. Scientific Reports, 2015, 5, 17185.	3.3	54
48	Epithelial WNT Ligands Are Essential Drivers of Intestinal Stem Cell Activation. Cell Reports, 2018, 22, 1003-1015.	6.4	54
49	Interleukin-13 (IL-13)/IL-13 Receptor Î±1 (IL-13RÎ±1) Signaling Regulates Intestinal Epithelial Cystic Fibrosis Transmembrane Conductance Regulator Channel-dependent Clâ» Secretion. Journal of Biological Chemistry, 2011, 286, 13357-13369.	3.4	48
50	Antenatal ureaplasma infection impairs development of the fetal ovine gut in an IL-1-dependent manner. Mucosal Immunology, 2013, 6, 547-556.	6.0	48
51	Glutamine and alanyl-glutamine promote crypt expansion and mTOR signaling in murine enteroids. American Journal of Physiology - Renal Physiology, 2015, 308, G831-G839.	3.4	47
52	Telomere dysfunction activates YAP1 to drive tissue inflammation. Nature Communications, 2020, 11, 4766.	12.8	42
53	SPDEF Functions as a Colorectal Tumor Suppressor by Inhibiting Î²-Catenin Activity. Gastroenterology, 2013, 144, 1012-1023.e6.	1.3	40
54	Indian Hedgehog Mediates Gastrin-Induced Proliferation in Stomach of Adult Mice. Gastroenterology, 2014, 147, 655-666.e9.	1.3	39

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55	AnABCA4 genomic deletion in patients with Stargardt disease. Human Mutation, 2003, 21, 636-644.	2.5	38
56	Kruppel-like factor 5 controls villus formation and initiation of cytodifferentiation in the embryonic intestinal epithelium. Developmental Biology, 2013, 375, 128-139.	2.0	38
57	Robust circadian rhythms in organoid cultures from PERIOD2::LUCIFERASE mouse small intestine. DMM Disease Models and Mechanisms, 2014, 7, 1123-30.	2.4	38
58	Vitamin D and the intestine: Review and update. Journal of Steroid Biochemistry and Molecular Biology, 2020, 196, 105501.	2.5	37
59	NOTCH Signaling and ATOH1 in Colorectal Cancers. Current Colorectal Cancer Reports, 2011, 7, 121-127.	0.5	34
60	SPDEF Induces Quiescence of Colorectal Cancer Cells byÂChanging the Transcriptional Targets of Î²-catenin. Gastroenterology, 2017, 153, 205-218.e8.	1.3	34
61	Growth Factorâ€“Independent 1 Is a Tumor Suppressor Gene in Colorectal Cancer. Molecular Cancer Research, 2019, 17, 697-708.	3.4	34
62	Tumor Organoids Fill the Niche. Cell Stem Cell, 2016, 18, 686-687.	11.1	31
63	Using primary murine intestinal enteroids to study dietary TAG absorption, lipoprotein synthesis, and the role of apoC-III in the intestine. Journal of Lipid Research, 2017, 58, 853-865.	4.2	31
64	The ErbB3 receptor tyrosine kinase negatively regulates Paneth cells by PI3K-dependent suppression of Atoh1. Cell Death and Differentiation, 2017, 24, 855-865.	11.2	31
65	In Vitro Models of the Small Intestine: Engineering Challenges and Engineering Solutions. Tissue Engineering - Part B: Reviews, 2020, 26, 313-326.	4.8	30
66	Telomere dysfunction instigates inflammation in inflammatory bowel disease. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
67	Insulin Concentration Modulates Hepatic Lipid Accumulation in Mice in Part via Transcriptional Regulation of Fatty Acid Transport Proteins. PLoS ONE, 2012, 7, e38952.	2.5	25
68	Enteroaggregative E. coli Adherence to Human Heparan Sulfate Proteoglycans Drives Segment and Host Specific Responses to Infection. PLoS Pathogens, 2020, 16, e1008851.	4.7	24
69	Ontogeny and function of the circadian clock in intestinal organoids. EMBO Journal, 2022, 41, e106973.	7.8	24
70	BMP Signaling in the Intestine: Cross-Talk Is Key. Gastroenterology, 2007, 133, 1035-1038.	1.3	18
71	Analysis of 1,25-Dihydroxyvitamin D₃ Genomic Action Reveals Calcium-Regulating and Calcium-Independent Effects in Mouse Intestine and Human Enteroids. Molecular and Cellular Biology, 2021, 41, .	2.3	18
72	Drivers of transcriptional variance in human intestinal epithelial organoids. Physiological Genomics, 2021, 53, 486-508.	2.3	17

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73	Intestinal stem cells remain viable after prolonged tissue storage. Cell and Tissue Research, 2013, 354, 441-450.	2.9	16
74	Paneth cells promote angiogenesis and regulate portal hypertensionÂin response to microbial signals. Journal of Hepatology, 2020, 73, 628-639.	3.7	16
75	Anatomy and Physiology of the Small and Large Intestines. , 2011, , 324-336.e2.		15
76	The transcriptional corepressor MTGR1 regulates intestinal secretory lineage allocation. FASEB Journal, 2015, 29, 786-795.	0.5	13
77	KrÃ¼pple-Like Factor 5 Is Required for Proper Maintenance of Adult Intestinal Crypt Cellular Proliferation. Digestive Diseases and Sciences, 2015, 60, 86-100.	2.3	11
78	Enteropathogenic Escherichia coli Infection in Cancer and Immunosuppressed Patients. Clinical Infectious Diseases, 2021, 72, e620-e629.	5.8	9
79	Vitamin D Receptor Gene Single Nucleotide Polymorphisms and Association With Vitamin D Levels and Endoscopic Disease Activity in Inflammatory Bowel Disease Patients: A Pilot Study. Inflammatory Bowel Diseases, 2021, 27, 1263-1269.	1.9	6
80	InÂVivo Transplantation of Human Intestinal Organoids Enhances Select Tight Junction Gene Expression. Journal of Surgical Research, 2021, 259, 500-508.	1.6	6
81	Effect of substrate stiffness on human intestinal enteroidsâ€™ infectivity by enteroaggregative Escherichia coli. Acta Biomaterialia, 2021, 132, 245-259.	8.3	6
82	268 Atonal Homolog 1 (ATOH1) is Essential for Growth and Differentiation Effects of Notch/Î³ Secretase Inhibitors on Normal and Cancerous Intestinal Epithelial Cells. Gastroenterology, 2010, 138, S-50.	1.3	2
83	WNT Signaling in the Intestine: Development, Homeostasis, Disease. , 2018, , 185-196.		2
84	Evaluation of Murine Host Sex as a Biological Variable in Transplanted Human Intestinal Organoid Development. Digestive Diseases and Sciences, 2022, , 1.	2.3	1
85	Organogenesis of the Gastrointestinal Tract. , 2017, , 861-870.e2.		0
86	Biology of Intestinal Epithelial Stem Cells. , 2015, , 55-99.		0
87	Title is missing!. , 2020, 16, e1008851.		0
88	Title is missing!. , 2020, 16, e1008851.		0
89	Title is missing!. , 2020, 16, e1008851.		0
90	Title is missing!. , 2020, 16, e1008851.		0