James M Wells

List of Publications by Year
in descending order

95 papers	11,368 citations	61984 43 h-index	49909 87 g-index
101 all docs	101 docs citations	101 times ranked	11962 citing authors

#	Article	IF	Citations
1	Ontogeny and function of the circadian clock in intestinal organoids. EMBO Journal, 2022, 41, e106973.	7.8	24
2	Functional human gastrointestinal organoids can be engineered from three primary germ layers derived separately from pluripotent stem cells. Cell Stem Cell, 2022, 29, 36-51.e6.	11.1	57
3	Enteroendocrine cell differentiation and function in the intestine. Current Opinion in Endocrinology, Diabetes and Obesity, 2022, 29, 169-176.	2.3	4
4	Eicosatetraynoic Acid and Butyrate Regulate Human Intestinal Organoid Mitochondrial and Extracellular Matrix Pathways Implicated in Crohnâ€™s Disease Strictures. Inflammatory Bowel Diseases, 2022, 28, 988-1003.	1.9	12
5	Discovering the Developmental Basis of Tracheaâ€Esophageal Birth Defects: Evidence for Endosomeâ€opathies. FASEB Journal, 2022, 36, .	0.5	0
6	Engineering-inspired approaches to study Î²-cell function and diabetes. Stem Cells, 2021, 39, 522-535.	3.2	5
7	Disruption of a Hedgehog-Foxf1-Rspo2 signaling axis leads to tracheomalacia and a loss of Sox9+ tracheal chondrocytes. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	16
8	Case Report: Esophageal Bronchus in a Neonate, With Image, Histological, and Molecular Analysis. Frontiers in Pediatrics, 2021, 9, 707822.	1.9	3
9	Developmental basis of trachea-esophageal birth defects. Developmental Biology, 2021, 477, 85-97.	2.0	21
10	Gastrointestinal organoids: a next-generation tool for modeling human development. American Journal of Physiology - Renal Physiology, 2020, 319, G375-G381.	3.4	18
11	A Window into Your Gut: Biologically Inspired Engineering of Mini-gut Tubes InÂVitro. Developmental Cell, 2020, 55, 522-524.	7.0	3
12	Enteroendocrine cells couple nutrient sensing to nutrient absorption by regulating ion transport. Nature Communications, 2020, 11, 4791.	12.8	27
13	Single cell transcriptomics identifies a signaling network coordinating endoderm and mesoderm diversification during foregut organogenesis. Nature Communications, 2020, 11, 4158.	12.8	129
14	Evaluation of transplantation sites for human intestinal organoids. PLoS ONE, 2020, 15, e0237885.	2.5	12
15	Generation of esophageal organoids and organotypic raft cultures from human pluripotent stem cells. Methods in Cell Biology, 2020, 159, 1-22.	1.1	11
16	Personalized Assessment of Normal Tissue Radiosensitivity via Transcriptome Response to Photon, Proton and Carbon Irradiation in Patient-Derived Human Intestinal Organoids. Cancers, 2020, 12, 469.	3.7	9
17	Tissue Responses to Shiga Toxin in Human Intestinal Organoids. Cellular and Molecular Gastroenterology and Hepatology, 2020, 10, 171-190.	4.5	26
18	Recent advances in deriving human endodermal tissues from pluripotent stem cells. Current Opinion in Cell Biology, 2019, 61, 92-100.	5.4	14

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19	Bronchoalveolar Lavage Fluid from COPD Patients Reveals More Compounds Associated with Disease than Matched Plasma. Metabolites, 2019, 9, 157.	2.9	32
20	Activation of Hedgehog Signaling Promotes Development of Mouse and Human Enteric Neural Crest Cells, Based on Single-Cell Transcriptome Analyses. Gastroenterology, 2019, 157, 1556-1571.e5.	1.3	31
21	Modelling human hepato-biliary-pancreatic organogenesis from the foregutâ€“midgut boundary. Nature, 2019, 574, 112-116.	27.8	199
22	Increased Programmed Death-Ligand 1 is an Early Epithelial Cell Response to Helicobacter pylori Infection. PLoS Pathogens, 2019, 15, e1007468.	4.7	116
23	Noncoding deletions reveal a gene that is critical for intestinal function. Nature, 2019, 571, 107-111.	27.8	24
24	Organoids by design. Science, 2019, 364, 956-959.	12.6	244
25	A Comprehensive Structure-Function Study of Neurogenin3 Disease-Causing Alleles during Human Pancreas and Intestinal Organoid Development. Developmental Cell, 2019, 50, 367-380.e7.	7.0	35
26	Modeling Steatohepatitis in Humans with Pluripotent Stem Cell-Derived Organoids. Cell Metabolism, 2019, 30, 374-384.e6.	16.2	303
27	Endosome-Mediated Epithelial Remodeling Downstream of Hedgehog-Gli Is Required for Tracheoesophageal Separation. Developmental Cell, 2019, 51, 665-674.e6.	7.0	41
28	Generation of human antral and fundic gastric organoids from pluripotent stem cells. Nature Protocols, 2019, 14, 28-50.	12.0	59
29	Constitutive STAT5 activation regulates Paneth and Paneth-like cells to control <i>Clostridium difficile</i> colitis. Life Science Alliance, 2019, 2, e201900296.	2.8	20
30	Expression of Circadian Clock Components PER2 and BMAL1 are Altered During Infection of Helicobacter pylori. FASEB Journal, 2019, 33, 869.29.	0.5	0
31	Translating Developmental Principles to Generate Human GastricÂOrganoids. Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 353-363.	4.5	21
32	Timing is everything: Reiterative Wnt, BMP and RA signaling regulate developmental competence during endoderm organogenesis. Developmental Biology, 2018, 434, 121-132.	2.0	45
33	Esophageal Organoids from Human Pluripotent Stem Cells Delineate Sox2 Functions during Esophageal Specification. Cell Stem Cell, 2018, 23, 501-515.e7.	11.1	121
34	Human stomach-on-a-chip with luminal flow and peristaltic-like motility. Lab on A Chip, 2018, 18, 3079-3085.	6.0	76
35	Organoid Center Strategies for Accelerating Clinical Translation. Cell Stem Cell, 2018, 22, 806-809.	11.1	43
36	Diverse mechanisms for endogenous regeneration and repair in mammalian organs. Nature, 2018, 557, 322-328.	27.8	129

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37	Deriving functional human enteroendocrine cells from pluripotent stem cells. Development (Cambridge), 2018, 145, .	2.5	34
38	Mechanically induced development and maturation of human intestinal organoids in vivo. Nature Biomedical Engineering, 2018, 2, 429-442.	22.5	79
39	Paracrine signals regulate human liver organoid maturation from iPSC. Development (Cambridge), 2017, 144, 1056-1064.	2.5	104
40	Mechanisms of embryonic stomach development. Seminars in Cell and Developmental Biology, 2017, 66, 36-42.	5.0	42
41	A process engineering approach to increase organoid yield. Development (Cambridge), 2017, 144, 1128-1136.	2.5	51
42	Stem Cells and Organoids to Study Epithelial Cell Biology in IBD. , 2017, , 167-172.		1
43	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
44	Distinct roles for the mTOR pathway in postnatal morphogenesis, maturation and function of pancreatic islets. Development (Cambridge), 2017, 144, 2402-2414.	2.5	40
45	Generation of Gastrointestinal Organoids from Human Pluripotent Stem Cells. Methods in Molecular Biology, 2017, 1597, 167-177.	0.9	41
46	Generation of Gastrointestinal Organoids Derived from Human Pluripotent Stem Cells. , 2017, , 179-192.		1
47	Pluripotent stem cell-derived organoids: using principles of developmental biology to grow human tissues in a dish. Development (Cambridge), 2017, 144, 958-962.	2.5	230
48	Wnt/Î²-catenin promotes gastric fundus specification in mice and humans. Nature, 2017, 541, 182-187.	27.8	176
49	Engineered human pluripotent-stem-cell-derived intestinal tissues with a functional enteric nervous system. Nature Medicine, 2017, 23, 49-59.	30.7	465
50	Distinct roles for the mTOR pathway in postnatal morphogenesis, maturation and function of pancreatic islets. Journal of Cell Science, 2017, 130, e1.1-e1.1.	2.0	0
51	Overcoming Pluripotent Stem Cell Dependence on the Repair of Endogenous DNA Damage. Stem Cell Reports, 2016, 6, 44-54.	4.8	29
52	Integrated Genomic Analysis of Diverse Induced Pluripotent Stem Cells from the Progenitor Cell Biology Consortium. Stem Cell Reports, 2016, 7, 110-125.	4.8	101
53	A Retinoic Acid-Hedgehog Cascade Coordinates Mesoderm-Inducing Signals and Endoderm Competence during Lung Specification. Cell Reports, 2016, 16, 66-78.	6.4	111
54	Generating and regenerating the digestive system. Nature Reviews Gastroenterology and Hepatology, 2016, 13, 65-66.	17.8	3

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55	Sweet Relief: Reprogramming Gastric Endocrine Cells to Make Insulin. Cell Stem Cell, 2016, 18, 295-297.	11.1	2
56	In vitro generation of human pluripotent stem cell derived lung organoids. ELife, 2015, 4, .	6.0	605
57	Regional identity of gut stem cellsâ€"one gene to rule them all. Nature Reviews Gastroenterology and Hepatology, 2015, 12, 125-126.	17.8	4
58	The Basic Helix-Loop-Helix Transcription Factor NEUROG3 Is Required for Development of the Human Endocrine Pancreas. Diabetes, 2015, 64, 2497-2505.	0.6	100
59	Dynamic transcriptional and epigenomic reprogramming from pediatric nasal epithelial cells to induced pluripotent stem cells. Journal of Allergy and Clinical Immunology, 2015, 135, 236-244.	2.9	15
60	Patterning the Embryonic Endoderm into Presumptive Organ Domains. , 2015, , 545-564.		0
61	Generating human intestinal tissues from pluripotent stem cells to study development and disease. EMBO Journal, 2015, 34, 1149-1163.	7.8	86
62	SnapShot: GI Tract Development. Cell, 2015, 161, 176-176.e1.	28.9	11
63	Models of Pluripotent and Somatic Stem Cells to Study Tissue-Specific Sensitivities in Fanconi Anemia. Blood, 2015, 126, 168-168.	1.4	1
64	Identification and Manipulation of Biliary Metaplasia in Pancreatic Tumors. Gastroenterology, 2014, 146, 233-244.e5.	1.3	118
65	Generation of Î² cells from human pluripotent stem cells: Are we there yet?. Annals of the New York Academy of Sciences, 2014, 1311, 124-137.	3.8	45
66	How to make an intestine. Development (Cambridge), 2014, 141, 752-760.	2.5	156
67	An in vivo model of human small intestine using pluripotent stem cells. Nature Medicine, 2014, 20, 1310-1314.	30.7	490
68	Modelling human development and disease in pluripotent stem-cell-derived gastric organoids. Nature, 2014, 516, 400-404.	27.8	792
69	High-Risk Human Papillomavirus E6 Protein Promotes Reprogramming of Fanconi Anemia Patient Cells through Repression of p53 but Does Not Allow for Sustained Growth of Induced Pluripotent Stem Cells. Journal of Virology, 2014, 88, 11315-11326.	3.4	25
70	Sox17 Regulates Insulin Secretion in the Normal and Pathologic Mouse Î² Cell. PLoS ONE, 2014, 9, e104675.	2.5	23
71	Inducible Loss of the Fanconi Anemia Pathway in iPSC Causes Rapid Cell Cycle Arrest and Apoptosis through ATM/ATR and p53 Signaling. Blood, 2014, 124, 3528-3528.	1.4	0
72	Building additional complexity to in vitro-derived intestinal tissues. Stem Cell Research and Therapy, 2013, 4, S1.	5.5	20

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73	Sox17 promotes tumor angiogenesis and destabilizes tumor vessels in mice. Journal of Clinical Investigation, 2013, 123, 418-431.	8.2	84
74	Molecular pathways controlling pancreas induction. Seminars in Cell and Developmental Biology, 2012, 23, 656-662.	5.0	47
75	Arx is required for normal enteroendocrine cell development in mice and humans. Developmental Biology, 2012, 365, 175-188.	2.0	66
76	Generating intestinal tissue from stem cells: potential for research and therapy. Regenerative Medicine, 2011, 6, 743-755.	1.7	34
77	Generating human intestinal tissue from pluripotent stem cells in vitro. Nature Protocols, 2011, 6, 1920-1928.	12.0	365
78	Directed differentiation of human pluripotent stem cells into intestinal tissue in vitro. Nature, 2011, 470, 105-109.	27.8	1,594
79	Generation of mice with a conditional null allele for <i>Wntless</i>. Genesis, 2010, 48, 554-558.	1.6	146
80	Converting human pluripotent stem cells into Î²-cells: recent advances and future challenges. Current Opinion in Organ Transplantation, 2010, 15, 54-60.	1.6	49
81	Sox17 Regulates Organ Lineage Segregation of Ventral Foregut Progenitor Cells. Developmental Cell, 2009, 17, 62-74.	7.0	265
82	Vertebrate Endoderm Development and Organ Formation. Annual Review of Cell and Developmental Biology, 2009, 25, 221-251.	9.4	664
83	Sox17 Promotes Cell Cycle Progression and Inhibits TGF-Î²/Smad3 Signaling to Initiate Progenitor Cell Behavior in the Respiratory Epithelium. PLoS ONE, 2009, 4, e5711.	2.5	51
84	Sox17 and Sox4 Differentially Regulate Î²-Catenin/T-Cell Factor Activity and Proliferation of Colon Carcinoma Cells. Molecular and Cellular Biology, 2007, 27, 7802-7815.	2.3	283
85	Molecular Basis of Vertebrate Endoderm Development. International Review of Cytology, 2007, 259, 49-111.	6.2	131
86	Identification of molecular markers that are expressed in discrete anteriorâ€“posterior domains of the endoderm from the gastrula stage to mid-gestation. Developmental Dynamics, 2007, 236, 1997-2003.	1.8	45
87	Translational embryology: Using embryonic principles to generate pancreatic endocrine cells from embryonic stem cells. Developmental Dynamics, 2007, 236, 3218-3227.	1.8	57
88	Wnt/beta-catenin signaling is required for development of the exocrine pancreas. BMC Developmental Biology, 2007, 7, 4.	2.1	146
89	FGF signaling is necessary for establishing gut tube domains alongthe anteriorâ€“posterior axis in vivo. Mechanisms of Development, 2006, 123, 42-55.	1.7	162
90	Sox17 influences the differentiation of respiratory epithelial cells. Developmental Biology, 2006, 294, 192-202.	2.0	73

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91	Different thresholds of fibroblast growth factors pattern the ventral foregut into liver and lung. Development (Cambridge), 2005, 132, 35-47.	2.5	265
92	Global expression analysis of gene regulatory pathways during endocrine pancreatic development. Development (Cambridge), 2004, 131, 165-179.	2.5	211
93	Genes expressed in the developing endocrine pancreas and their importance for stem cell and diabetes research. Diabetes/Metabolism Research and Reviews, 2003, 19, 191-201.	4.0	26
94	Vertebrate Endoderm Development. Annual Review of Cell and Developmental Biology, 1999, 15, 393-410.	9.4	473
95	Generation of Esophageal Organoids from Human Pluripotent Stem Cells and Their Use to Study Human Development. SSRN Electronic Journal, 0, , .	0.4	0