Hans Clevers

List of Publications by Year
in descending order

615 papers	182,540 citations	31 194 h-index	43 404 g-index
653 all docs	653 docs citations	653 times ranked	116018 citing authors

#	Article	IF	Citations
1	Single Lgr5 stem cells build crypt-villus structures in vitro without a mesenchymal niche. Nature, 2009, 459, 262-265.	13.7	5,339
2	Wnt/Î²-Catenin Signaling in Development and Disease. Cell, 2006, 127, 469-480.	13.5	4,999
3	Identification of stem cells in small intestine and colon by marker gene Lgr5. Nature, 2007, 449, 1003-1007.	13.7	4,753
4	Wnt/Î²-Catenin Signaling and Disease. Cell, 2012, 149, 1192-1205.	13.5	4,658
5	Activation of beta -Catenin-Tcf Signaling in Colon Cancer by Mutations in beta -Catenin or APC. Science, 1997, 275, 1787-1790.	6.0	3,686
6	Wnt signalling in stem cells and cancer. Nature, 2005, 434, 843-850.	13.7	3,334
7	Constitutive Transcriptional Activation by a beta -Catenin-Tcf Complex in APC-/- Colon Carcinoma. Science, 1997, 275, 1784-1787.	6.0	3,061
8	Wnt/Î²-Catenin Signaling, Disease, and Emerging Therapeutic Modalities. Cell, 2017, 169, 985-999.	13.5	2,998
9	Long-term Expansion of Epithelial Organoids From Human Colon, Adenoma, Adenocarcinoma, and Barrett's Epithelium. Gastroenterology, 2011, 141, 1762-1772.	0.6	2,835
10	Paneth cells constitute the niche for Lgr5 stem cells in intestinal crypts. Nature, 2011, 469, 415-418.	13.7	2,054
11	Modeling Development and Disease with Organoids. Cell, 2016, 165, 1586-1597.	13.5	2,022
12	The Î²-Catenin/TCF-4 Complex Imposes a Crypt Progenitor Phenotype on Colorectal Cancer Cells. Cell, 2002, 111, 241-250.	13.5	1,897
13	Cancer stem cells revisited. Nature Medicine, 2017, 23, 1124-1134.	15.2	1,895
14	Crypt stem cells as the cells-of-origin of intestinal cancer. Nature, 2009, 457, 608-611.	13.7	1,883
15	XTcf-3 Transcription Factor Mediates Î²-Catenin-Induced Axis Formation in Xenopus Embryos. Cell, 1996, 86, 391-399.	13.5	1,718
16	Prospective Derivation of a Living Organoid Biobank of Colorectal Cancer Patients. Cell, 2015, 161, 933-945.	13.5	1,710
17	The cancer stem cell: premises, promises and challenges. Nature Medicine, 2011, 17, 313-319.	15.2	1,691
18	Intestinal Crypt Homeostasis Results from Neutral Competition between Symmetrically Dividing Lgr5 Stem Cells. Cell, 2010, 143, 134-144.	13.5	1,679

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19	Organoid Models of Human and Mouse Ductal Pancreatic Cancer. Cell, 2015, 160, 324-338.	13.5	1,584
20	Distinct populations of inflammatory fibroblasts and myofibroblasts in pancreatic cancer. Journal of Experimental Medicine, 2017, 214, 579-596.	4.2	1,582
21	The Human Cell Atlas. ELife, 2017, 6, .	2.8	1,547
22	Stem Cells, Self-Renewal, and Differentiation in the Intestinal Epithelium. Annual Review of Physiology, 2009, 71, 241-260.	5.6	1,452
23	Depletion of epithelial stem-cell compartments in the small intestine of mice lacking Tcf-4. Nature Genetics, 1998, 19, 379-383.	9.4	1,441
24	Canonical Wnt Signaling in Differentiated Osteoblasts Controls Osteoclast Differentiation. Developmental Cell, 2005, 8, 751-764.	3.1	1,402
25	Linking Colorectal Cancer to Wnt Signaling. Cell, 2000, 103, 311-320.	13.5	1,386
26	Notch/Î³-secretase inhibition turns proliferative cells in intestinal crypts and adenomas into goblet cells. Nature, 2005, 435, 959-963.	13.7	1,382
27	SARS-CoV-2 productively infects human gut enterocytes. Science, 2020, 369, 50-54.	6.0	1,347
28	Lgr5+ve Stem Cells Drive Self-Renewal in the Stomach and Build Long-Lived Gastric Units In Vitro. Cell Stem Cell, 2010, 6, 25-36.	5.2	1,315
29	In vitro expansion of single Lgr5+ liver stem cells induced by Wnt-driven regeneration. Nature, 2013, 494, 247-250.	13.7	1,239
30	A Living Biobank of Breast Cancer Organoids Captures Disease Heterogeneity. Cell, 2018, 172, 373-386.e10.	13.5	1,201
31	Organoid Cultures Derived from Patients with Advanced Prostate Cancer. Cell, 2014, 159, 176-187.	13.5	1,184
32	Long-Term Culture of Genome-Stable Bipotent Stem Cells from Adult Human Liver. Cell, 2015, 160, 299-312.	13.5	1,166
33	Functional Repair of CFTR by CRISPR/Cas9 in Intestinal Stem Cell Organoids of Cystic Fibrosis Patients. Cell Stem Cell, 2013, 13, 653-658.	5.2	1,149
34	Armadillo Coactivates Transcription Driven by the Product of the Drosophila Segment Polarity Gene dTCF. Cell, 1997, 88, 789-799.	13.5	1,124
35	Coexistence of Quiescent and Active Adult Stem Cells in Mammals. Science, 2010, 327, 542-545.	6.0	1,104
36	Lgr5 homologues associate with Wnt receptors and mediate R-spondin signalling. Nature, 2011, 476, 293-297.	13.7	1,096

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37	Organoids in cancer research. Nature Reviews Cancer, 2018, 18, 407-418.	12.8	1,096
38	Single-cell messenger RNA sequencing reveals rare intestinal cell types. Nature, 2015, 525, 251-255.	13.7	1,091
39	An integral program for tissue renewal and regeneration: Wnt signaling and stem cell control. Science, 2014, 346, 1248012.	6.0	1,060
40	Î²-Catenin and TCF Mediate Cell Positioning in the Intestinal Epithelium by Controlling the Expression of EphB/EphrinB. Cell, 2002, 111, 251-263.	13.5	1,039
41	ACE2 links amino acid malnutrition to microbial ecology and intestinal inflammation. Nature, 2012, 487, 477-481.	13.7	1,035
42	Designer matrices for intestinal stem cell and organoid culture. Nature, 2016, 539, 560-564.	13.7	1,027
43	Lineage Tracing Reveals Lgr5 ⁺ Stem Cell Activity in Mouse Intestinal Adenomas. Science, 2012, 337, 730-735.	6.0	991
44	Growing Self-Organizing Mini-Guts from a Single Intestinal Stem Cell: Mechanism and Applications. Science, 2013, 340, 1190-1194.	6.0	954
45	Negative Feedback Loop of Wnt Signaling through Upregulation of Conductin/Axin2 in Colorectal and Liver Tumors. Molecular and Cellular Biology, 2002, 22, 1184-1193.	1.1	934
46	The Intestinal Crypt, A Prototype Stem Cell Compartment. Cell, 2013, 154, 274-284.	13.5	929
47	Notch1 functions as a tumor suppressor in mouse skin. Nature Genetics, 2003, 33, 416-421.	9.4	902
48	Whole-genome sequencing and comprehensive molecular profiling identify new driver mutations in gastric cancer. Nature Genetics, 2014, 46, 573-582.	9.4	895
49	Intestinal Tumorigenesis Initiated by Dedifferentiation and Acquisition of Stem-Cell-like Properties. Cell, 2013, 152, 25-38.	13.5	889
50	Sequential cancer mutations in cultured human intestinal stem cells. Nature, 2015, 521, 43-47.	13.7	853
51	Lgr5 marks cycling, yet long-lived, hair follicle stem cells. Nature Genetics, 2008, 40, 1291-1299.	9.4	846
52	Canonical Wnt signals are essential for homeostasis of the intestinal epithelium. Genes and Development, 2003, 17, 1709-1713.	2.7	841
53	APC, Signal transduction and genetic instability in colorectal cancer. Nature Reviews Cancer, 2001, 1, 55-67.	12.8	829
54	The Intestinal Stem Cell Signature Identifies Colorectal Cancer Stem Cells and Predicts Disease Relapse. Cell Stem Cell, 2011, 8, 511-524.	5.2	811

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55	A functional CFTR assay using primary cystic fibrosis intestinal organoids. Nature Medicine, 2013, 19, 939-945.	15.2	800
56	Tumour suppressor RNF43 is a stem-cell E3 ligase that induces endocytosis of Wnt receptors. Nature, 2012, 488, 665-669.	13.7	791
57	The T Cell Receptor/CD3 Complex: A Dynamic Protein Ensemble. Annual Review of Immunology, 1988, 6, 629-662.	9.5	761
58	Tissue-specific mutation accumulation in human adult stem cells during life. Nature, 2016, 538, 260-264.	13.7	759
59	Wnt Signaling through Inhibition of Î²-Catenin Degradation in an Intact Axin1 Complex. Cell, 2012, 149, 1245-1256.	13.5	747
60	Loss of Apc in vivo immediately perturbs Wnt signaling, differentiation, and migration. Genes and Development, 2004, 18, 1385-1390.	2.7	700
61	FoxM1 is required for execution of the mitotic programme and chromosome stability. Nature Cell Biology, 2005, 7, 126-136.	4.6	697
62	<i>Lgr6</i> Marks Stem Cells in the Hair Follicle That Generate All Cell Lineages of the Skin. Science, 2010, 327, 1385-1389.	6.0	692
63	Functional engraftment of colon epithelium expanded in vitro from a single adult Lgr5+ stem cell. Nature Medicine, 2012, 18, 618-623.	15.2	681
64	Organoid Profiling Identifies Common Responders to Chemotherapy in Pancreatic Cancer. Cancer Discovery, 2018, 8, 1112-1129.	7.7	676
65	De Novo Crypt Formation and Juvenile Polyposis on BMP Inhibition in Mouse Intestine. Science, 2004, 303, 1684-1686.	6.0	673
66	Mining the Wnt pathway for cancer therapeutics. Nature Reviews Drug Discovery, 2006, 5, 997-1014.	21.5	670
67	Mutations in the APC tumour suppressor gene cause chromosomal instability. Nature Cell Biology, 2001, 3, 433-438.	4.6	664
68	Single-cell dissection of transcriptional heterogeneity in human colon tumors. Nature Biotechnology, 2011, 29, 1120-1127.	9.4	658
69	Drosophila Tcf and Groucho interact to repress Wingless signalling activity. Nature, 1998, 395, 604-608.	13.7	654
70	Dll1+ secretory progenitor cells revert to stem cells upon crypt damage. Nature Cell Biology, 2012, 14, 1099-1104.	4.6	647
71	Generation of Tumor-Reactive T Cells by Co-culture of Peripheral Blood Lymphocytes and Tumor Organoids. Cell, 2018, 174, 1586-1598.e12.	13.5	644
72	Self-Renewal and Cancer of the Gut: Two Sides of a Coin. Science, 2005, 307, 1904-1909.	6.0	642

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73	The Lgr5 intestinal stem cell signature: robust expression of proposed quiescent â€˜+4â€™ cell markers. EMBO Journal, 2012, 31, 3079-3091.	3.5	634
74	The Xenopus Wnt effector XTcf-3 interacts with Groucho-related transcriptional repressors. Nature, 1998, 395, 608-612.	13.7	619
75	Longâ€term expanding human airway organoids for disease modeling. EMBO Journal, 2019, 38, .	3.5	619
76	Isolation and in vitro expansion of human colonic stem cells. Nature Medicine, 2011, 17, 1225-1227.	15.2	616
77	Transcription Factor Achaete Scute-Like 2 Controls Intestinal Stem Cell Fate. Cell, 2009, 136, 903-912.	13.5	615
78	Tales from the crypt: new insights into intestinal stem cells. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 19-34.	8.2	597
79	InÂVitro Expansion of Human Gastric Epithelial Stem Cells and Their Responses to Bacterial Infection. Gastroenterology, 2015, 148, 126-136.e6.	0.6	595
80	Mutational signature in colorectal cancer caused by genotoxic pks+ E. coli. Nature, 2020, 580, 269-273.	13.7	587
81	Cancer modeling meets human organoid technology. Science, 2019, 364, 952-955.	6.0	577
82	Disease Modeling in Stem Cell-Derived 3D Organoid Systems. Trends in Molecular Medicine, 2017, 23, 393-410.	3.5	575
83	Wnt signaling in the intestinal epithelium: from endoderm to cancer. Genes and Development, 2005, 19, 877-890.	2.7	571
84	Reparative inflammation takes charge of tissue regeneration. Nature, 2016, 529, 307-315.	13.7	570
85	The TAK1â€“NLKâ€“MAPK-related pathway antagonizes signalling between Î²-catenin and transcription factor TCF. Nature, 1999, 399, 798-802.	13.7	569
86	Unlimited in vitro expansion of adult bi-potent pancreas progenitors through the Lgr5/R-spondin axis. EMBO Journal, 2013, 32, 2708-2721.	3.5	562
87	Wnt signalling induces maturation of Paneth cells in intestinal crypts. Nature Cell Biology, 2005, 7, 381-386.	4.6	555
88	Redundant Sources of Wnt Regulate Intestinal Stem Cells and Promote Formation of Paneth Cells. Gastroenterology, 2012, 143, 1518-1529.e7.	0.6	532
89	Myc deletion rescues Apc deficiency in the small intestine. Nature, 2007, 446, 676-679.	13.7	530
90	Culture and establishment of self-renewing human and mouse adult liver and pancreas 3D organoids and their genetic manipulation. Nature Protocols, 2016, 11, 1724-1743.	5.5	527

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91	Interrogating open issues in cancer precision medicine with patient-derived xenografts. Nature Reviews Cancer, 2017, 17, 254-268.	12.8	527
92	The intestinal stem cell. Genes and Development, 2008, 22, 1856-1864.	2.7	517
93	HDAC1 and HDAC2 regulate oligodendrocyte differentiation by disrupting the Î²-cateninâ€“TCF interaction. Nature Neuroscience, 2009, 12, 829-838.	7.1	517
94	The R-spondin/Lgr5/Rnf43 module: regulator of Wnt signal strength. Genes and Development, 2014, 28, 305-316.	2.7	510
95	Long-Term Expansion of Functional Mouse and Human Hepatocytes as 3D Organoids. Cell, 2018, 175, 1591-1606.e19.	13.5	505
96	Destabilization of Î²-catenin by mutations in presenilin-1 potentiates neuronal apoptosis. Nature, 1998, 395, 698-702.	13.7	499
97	Specific inhibition of gene expression using a stably integrated, inducible smallâ€interferingâ€RNA vector. EMBO Reports, 2003, 4, 609-615.	2.0	489
98	An HMG-box-containing T-cell factor required for thymocyte differentiation. Nature, 1995, 374, 70-74.	13.7	488
99	Organoid culture systems for prostate epithelial and cancer tissue. Nature Protocols, 2016, 11, 347-358.	5.5	487
100	An organoid platform for ovarian cancer captures intra- and interpatient heterogeneity. Nature Medicine, 2019, 25, 838-849.	15.2	486
101	De Novo Prediction of Stem Cell Identity using Single-Cell Transcriptome Data. Cell Stem Cell, 2016, 19, 266-277.	5.2	484
102	Actomyosin-Mediated Cellular Tension Drives Increased Tissue Stiffness and Î²-Catenin Activation to Induce Epidermal Hyperplasia and Tumor Growth. Cancer Cell, 2011, 19, 776-791.	7.7	477
103	At the Crossroads of Inflammation and Cancer. Cell, 2004, 118, 671-674.	13.5	471
104	Expression of CD44 in Apc and TcfMutant Mice Implies Regulation by the WNT Pathway. American Journal of Pathology, 1999, 154, 515-523.	1.9	468
105	Niche-independent high-purity cultures of Lgr5+ intestinal stem cells and their progeny. Nature Methods, 2014, 11, 106-112.	9.0	466
106	SIGNALING PATHWAYS IN INTESTINAL DEVELOPMENT AND CANCER. Annual Review of Cell and Developmental Biology, 2004, 20, 695-723.	4.0	453
107	Replacement of Lost Lgr5-Positive Stem Cells through Plasticity of Their Enterocyte-Lineage Daughters. Cell Stem Cell, 2016, 18, 203-213.	5.2	451
108	Patient-derived organoids can predict response to chemotherapy in metastatic colorectal cancer patients. Science Translational Medicine, 2019, 11, .	5.8	451

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109	Differentiated Troy+ Chief Cells Act as Reserve Stem Cells to Generate All Lineages of the Stomach Epithelium. Cell, 2013, 155, 357-368.	13.5	445
110	A Comprehensive Human Gastric Cancer Organoid Biobank Captures Tumor Subtype Heterogeneity and Enables Therapeutic Screening. Cell Stem Cell, 2018, 23, 882-897.e11.	5.2	445
111	Strategies for Homeostatic Stem Cell Self-Renewal in Adult Tissues. Cell, 2011, 145, 851-862.	13.5	441
112	The Intestinal Wnt/TCF Signature. Gastroenterology, 2007, 132, 628-632.	0.6	439
113	Apc Restoration Promotes Cellular Differentiation and Reestablishes Crypt Homeostasis in Colorectal Cancer. Cell, 2015, 161, 1539-1552.	13.5	432
114	Intestinal crypt homeostasis revealed at single-stem-cell level by in vivo live imaging. Nature, 2014, 507, 362-365.	13.7	431
115	Defects in cardiac outflow tract formation and pro-B-lymphocyte expansion in mice lacking Sox-4. Nature, 1996, 380, 711-714.	13.7	429
116	Synergy Between Tumor Suppressor APC and the -Catenin-Tcf4 Target Tcf1. Science, 1999, 285, 1923-1926.	6.0	428
117	Transcriptome Profile of Human Colorectal Adenomas. Molecular Cancer Research, 2007, 5, 1263-1275.	1.5	428
118	Characterizing responses to CFTR-modulating drugs using rectal organoids derived from subjects with cystic fibrosis. Science Translational Medicine, 2016, 8, 344ra84.	5.8	428
119	Wnt3a-/--like phenotype and limb deficiency in Lef1-/-Tcf1-/- mice. Genes and Development, 1999, 13, 709-717.	2.7	426
120	Visualization of a short-range Wnt gradient in the intestinal stem-cell niche. Nature, 2016, 530, 340-343.	13.7	425
121	Wnt Signaling Controls the Phosphorylation Status of Î²-Catenin. Journal of Biological Chemistry, 2002, 277, 17901-17905.	1.6	424
122	SOX9 is an intestine crypt transcription factor, is regulated by the Wnt pathway, and represses the CDX2 and MUC2 genes. Journal of Cell Biology, 2004, 166, 37-47.	2.3	422
123	Homeostatic mini-intestines through scaffold-guided organoid morphogenesis. Nature, 2020, 585, 574-578.	13.7	408
124	Intra-tumour diversification in colorectal cancer at the single-cell level. Nature, 2018, 556, 457-462.	13.7	406
125	Patient-Derived Organoids Predict Chemoradiation Responses of Locally Advanced Rectal Cancer. Cell Stem Cell, 2020, 26, 17-26.e6.	5.2	404
126	The chromatin remodelling factor Brg-1 interacts with beta-catenin to promote target gene activation. EMBO Journal, 2001, 20, 4935-4943.	3.5	385

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127	EphB receptor activity suppresses colorectal cancer progression. Nature, 2005, 435, 1126-1130.	13.7	375
128	The Wnt/Î^2-catenin pathway regulates cardiac valve formation. Nature, 2003, 425, 633-637.	13.7	367
129	Loss of intestinal crypt progenitor cells owing to inactivation of both Notch1 and Notch2 is accompanied by derepression of CDK inhibitors p27^{Kip1} and p57^{Kip2}. EMBO Reports, 2008, 9, 377-383.	2.0	362
130	Origins of lymphatic and distant metastases in human colorectal cancer. Science, 2017, 357, 55-60.	6.0	358
131	Preserved genetic diversity in organoids cultured from biopsies of human colorectal cancer metastases. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13308-13311.	3.3	356
132	Lrig1 controls intestinal stem-cell homeostasis by negative regulation of ErbB signalling. Nature Cell Biology, 2012, 14, 401-408.	4.6	350
133	Glial origin of mesenchymal stem cells in a tooth model system. Nature, 2014, 513, 551-554.	13.7	347
134	Live imaging of astrocyte responses to acute injury reveals selective juxtavascular proliferation. Nature Neuroscience, 2013, 16, 580-586.	7.1	340
135	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.	2.3	337
136	Use of CRISPR-modified human stem cell organoids to study the origin of mutational signatures in cancer. Science, 2017, 358, 234-238.	6.0	337
137	Organoids: Modeling Development and the Stem Cell Niche in a Dish. Developmental Cell, 2016, 38, 590-600.	3.1	334
138	SPDEF is required for mouse pulmonary goblet cell differentiation and regulates a network of genes associated with mucus production. Journal of Clinical Investigation, 2009, 119, 2914-24.	3.9	329
139	All Tcf HMG box transcription factors interact with Groucho-related co-repressors. Nucleic Acids Research, 2001, 29, 1410-1419.	6.5	321
140	A rectal cancer organoid platform to study individual responses to chemoradiation. Nature Medicine, 2019, 25, 1607-1614.	15.2	320
141	High-resolution 3D imaging of fixed and cleared organoids. Nature Protocols, 2019, 14, 1756-1771.	5.5	317
142	Ancestry and diversity of the HMG box superfamily. Nucleic Acids Research, 1993, 21, 2493-2501.	6.5	316
143	Genome sequencing of normal cells reveals developmental lineages and mutational processes. Nature, 2014, 513, 422-425.	13.7	315
144	Establishment of patient-derived cancer organoids for drug-screening applications. Nature Protocols, 2020, 15, 3380-3409.	5.5	313

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145	Redundant Regulation of T Cell Differentiation and TCRÎ± Gene Expression by the Transcription Factors LEF-1 and TCF-1. Immunity, 1998, 8, 11-20.	6.6	312
146	Two Members of the Tcf Family Implicated in Wnt/Î²-Catenin Signaling during Embryogenesis in the Mouse. Molecular and Cellular Biology, 1998, 18, 1248-1256.	1.1	309
147	Survivin and molecular pathogenesis of colorectal cancer. Lancet, The, 2003, 362, 205-209.	6.3	308
148	Tissue-Resident Adult Stem Cell Populations of Rapidly Self-Renewing Organs. Cell Stem Cell, 2010, 7, 656-670.	5.2	307
149	Cell fate specification and differentiation in the adult mammalian intestine. Nature Reviews Molecular Cell Biology, 2021, 22, 39-53.	16.1	306
150	Single-molecule transcript counting of stem-cell markers in the mouse intestine. Nature Cell Biology, 2012, 14, 106-114.	4.6	305
151	Transcription factor achaete-scute homologue 2 initiates follicular T-helper-cell development. Nature, 2014, 507, 513-518.	13.7	303
152	Tubuloids derived from human adult kidney and urine for personalized disease modeling. Nature Biotechnology, 2019, 37, 303-313.	9.4	301
153	Â-Catenin stabilization dysregulates mesenchymal cell proliferation, motility, and invasiveness and causes aggressive fibromatosis and hyperplastic cutaneous wounds. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6973-6978.	3.3	298
154	Wnt Signaling, Lgr5, and Stem Cells in the Intestine and Skin. American Journal of Pathology, 2009, 174, 715-721.	1.9	297
155	Modelling Cryptosporidium infection in human small intestinal and lung organoids. Nature Microbiology, 2018, 3, 814-823.	5.9	296
156	Controlled gene expression in primary Lgr5 organoid cultures. Nature Methods, 2012, 9, 81-83.	9.0	295
157	Organoid cultures for the analysis of cancer phenotypes. Current Opinion in Genetics and Development, 2014, 24, 68-73.	1.5	295
158	Illegitimate WNT signaling promotes proliferation of multiple myeloma cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6122-6127.	3.3	293
159	Efficient Intracellular Delivery of Native Proteins. Cell, 2015, 161, 674-690.	13.5	291
160	Human Organoids: Tools for Understanding Biology and Treating Diseases. Annual Review of Pathology: Mechanisms of Disease, 2020, 15, 211-234.	9.6	290
161	The Paneth Cell Î±-Defensin Deficiency of Ileal Crohnâ€™s Disease Is Linked to Wnt/Tcf-4. Journal of Immunology, 2007, 179, 3109-3118.	0.4	287
162	SOX9 Is Required for the Differentiation of Paneth Cells in the Intestinal Epithelium. Gastroenterology, 2007, 133, 539-546.	0.6	286

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163	Extracellular matrix hydrogel derived from decellularized tissues enables endodermal organoid culture. Nature Communications, 2019, 10, 5658.	5.8	281
164	Pancreatic cancer organoids recapitulate disease and allow personalized drug screening. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26580-26590.	3.3	279
165	Identifying the Stem Cell of the Intestinal Crypt: Strategies and Pitfalls. Cell Stem Cell, 2012, 11, 452-460.	5.2	278
166	TCF/LEF factors earn their wings. Trends in Genetics, 1997, 13, 485-489.	2.9	273
167	Mucosal prolapse in the pathogenesis of Peutz-Jeghers polyposis. Gut, 2006, 55, 1-5.	6.1	272
168	Microbiota Controls the Homeostasis of Glial Cells in the Gut Lamina Propria. Neuron, 2015, 85, 289-295.	3.8	271
169	Surrogate Wnt agonists that phenocopy canonical Wnt and Î²-catenin signalling. Nature, 2017, 545, 234-237.	13.7	264
170	Genome-wide CRISPR screens reveal a Wntâ€“FZD5 signaling circuit as a druggable vulnerability of RNF43-mutant pancreatic tumors. Nature Medicine, 2017, 23, 60-68.	15.2	261
171	Xenograft and organoid model systems in cancerÂresearch. EMBO Journal, 2019, 38, e101654.	3.5	257
172	Adult Stem Cells in the Small Intestine Are Intrinsically Programmed with Their Locationâ€Specific Function. Stem Cells, 2014, 32, 1083-1091.	1.4	255
173	Induced Quiescence of Lgr5+ Stem Cells in Intestinal Organoids Enables Differentiation of Hormone-Producing Enteroendocrine Cells. Cell Stem Cell, 2017, 20, 177-190.e4.	5.2	255
174	Distinct gene mutation profiles among luminal-type and basal-type breast cancer cell lines. Breast Cancer Research and Treatment, 2010, 121, 53-64.	1.1	247
175	Wnt control of stem cells and differentiation in the intestinal epithelium. Experimental Cell Research, 2005, 306, 357-363.	1.2	241
176	Reg4 ⁺ deep crypt secretory cells function as epithelial niche for Lgr5 ⁺ stem cells in colon. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5399-407.	3.3	232
177	Identification of a bovine surface antigen uniquely expressed on CD4â^’CD8â^’ T cell receptor Î³/Î´+ T lymphocytes. European Journal of Immunology, 1990, 20, 809-817.	1.6	231
178	Monoclonal Antibodies Against Lgr5 Identify Human Colorectal Cancer Stem Cells. Stem Cells, 2012, 30, 2378-2386.	1.4	229
179	Differential expression of the HMG box factors <i>TCF-1</i> and <i>LEF-1</i> during murine embryogenesis. Development (Cambridge), 1993, 118, 439-448.	1.2	228
180	The Î²-cateninâ€“TCF-1 pathway ensures CD4+CD8+ thymocyte survival. Nature Immunology, 2001, 2, 691-697.	7.0	225

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181	Spindle Orientation Bias in Gut Epithelial Stem Cell Compartments Is Lost in Precancerous Tissue. Cell Stem Cell, 2010, 6, 175-181.	5.2	225
182	Paneth cell extrusion and release of antimicrobial products is directly controlled by immune cellâ€“derived IFN-Î³. Journal of Experimental Medicine, 2014, 211, 1393-1405.	4.2	225
183	Rapid Loss of Intestinal Crypts upon Conditional Deletion of the Wnt/Tcf-4 Target Gene c- Myc. Molecular and Cellular Biology, 2006, 26, 8418-8426.	1.1	224
184	Peyer's Patch M Cells Derived from Lgr5⁺ Stem Cells Require SpiB and Are Induced by RankL in Cultured â€œMinigutsâ€. Molecular and Cellular Biology, 2012, 32, 3639-3647.	1.1	224
185	Regulation and plasticity of intestinal stem cells during homeostasis and regeneration. Development (Cambridge), 2016, 143, 3639-3649.	1.2	224
186	Oral Mucosal Organoids as a Potential Platform for Personalized Cancer Therapy. Cancer Discovery, 2019, 9, 852-871.	7.7	222
187	You Wnt some, you lose some: oncogenes in the Wnt signaling pathway. Current Opinion in Genetics and Development, 2003, 13, 28-33.	1.5	219
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