

# Nick Barker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8888255/publications.pdf>

Version: 2024-02-01

110  
papers

43,985  
citations

13865

67  
h-index

27406

106  
g-index

115  
all docs

115  
docs citations

115  
times ranked

37428  
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.	27.8	5,339
2	Identification of stem cells in small intestine and colon by marker gene Lgr5. Nature, 2007, 449, 1003-1007.	27.8	4,753
3	Activation of $\beta$ -Catenin-Tcf Signaling in Colon Cancer by Mutations in $\beta$ -Catenin or APC. Science, 1997, 275, 1787-1790.	12.6	3,686
4	Constitutive Transcriptional Activation by a $\beta$ -Catenin-Tcf Complex in APC <sup>+/+</sup> Colon Carcinoma. Science, 1997, 275, 1784-1787.	12.6	3,061
5	Paneth cells constitute the niche for Lgr5 stem cells in intestinal crypts. Nature, 2011, 469, 415-418.	27.8	2,054
6	Crypt stem cells as the cells-of-origin of intestinal cancer. Nature, 2009, 457, 608-611.	27.8	1,883
7	Intestinal Crypt Homeostasis Results from Neutral Competition between Symmetrically Dividing Lgr5 Stem Cells. Cell, 2010, 143, 134-144.	28.9	1,679
8	Depletion of epithelial stem-cell compartments in the small intestine of mice lacking Tcf-4. Nature Genetics, 1998, 19, 379-383.	21.4	1,441
9	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.	11.1	1,315
10	Lgr5 homologues associate with Wnt receptors and mediate R-spondin signalling. Nature, 2011, 476, 293-297.	27.8	1,096
11	Organoids as an in vitro model of human development and disease. Nature Cell Biology, 2016, 18, 246-254.	10.3	1,090
12	Adult intestinal stem cells: critical drivers of epithelial homeostasis and regeneration. Nature Reviews Molecular Cell Biology, 2014, 15, 19-33.	37.0	970
13	Intestinal Tumorigenesis Initiated by Dedifferentiation and Acquisition of Stem-Cell-like Properties. Cell, 2013, 152, 25-38.	28.9	889
14	Lgr5 marks cycling, yet long-lived, hair follicle stem cells. Nature Genetics, 2008, 40, 1291-1299.	21.4	846
15	<i>Lgr6</i> Marks Stem Cells in the Hair Follicle That Generate All Cell Lineages of the Skin. Science, 2010, 327, 1385-1389.	12.6	692
16	Functional Interaction Between $\beta$ -Catenin and FOXO in Oxidative Stress Signaling. Science, 2005, 308, 1181-1184.	12.6	681
17	Mining the Wnt pathway for cancer therapeutics. Nature Reviews Drug Discovery, 2006, 5, 997-1014.	46.4	670
18	Dll1+ secretory progenitor cells revert to stem cells upon crypt damage. Nature Cell Biology, 2012, 14, 1099-1104.	10.3	647

#	ARTICLE	IF	CITATIONS
19	The Lgr5 intestinal stem cell signature: robust expression of proposed quiescent $\beta$ -catenin <sup>hi</sup> cell markers. EMBO Journal, 2012, 31, 3079-3091.	7.8	634
20	Transcription Factor Achaete Scute-Like 2 Controls Intestinal Stem Cell Fate. Cell, 2009, 136, 903-912.	28.9	615
21	The TAK1 $\beta$ -NLK $\beta$ -MAPK-related pathway antagonizes signalling between $\beta$ -catenin and transcription factor TCF. Nature, 1999, 399, 798-802.	27.8	569
22	The intestinal stem cell. Genes and Development, 2008, 22, 1856-1864.	5.9	517
23	Actomyosin-Mediated Cellular Tension Drives Increased Tissue Stiffness and $\beta$ -Catenin Activation to Induce Epidermal Hyperplasia and Tumor Growth. Cancer Cell, 2011, 19, 776-791.	16.8	477
24	The chromatin remodelling factor Brg-1 interacts with beta-catenin to promote target gene activation. EMBO Journal, 2001, 20, 4935-4943.	7.8	385
25	Two Members of the Tcf Family Implicated in Wnt/ $\beta$ -Catenin Signaling during Embryogenesis in the Mouse. Molecular and Cellular Biology, 1998, 18, 1248-1256.	2.3	309
26	Tissue-Resident Adult Stem Cell Populations of Rapidly Self-Renewing Organs. Cell Stem Cell, 2010, 7, 656-670.	11.1	307
27	Leucine-Rich Repeat-Containing G-Protein-Coupled Receptors as Markers of Adult Stem Cells. Gastroenterology, 2010, 138, 1681-1696.	1.3	300
28	Identifying the Stem Cell of the Intestinal Crypt: Strategies and Pitfalls. Cell Stem Cell, 2012, 11, 452-460.	11.1	278
29	The Yin-Yang of TCF/ $\beta$ -Catenin Signaling. Advances in Cancer Research, 1999, 77, 1-24.	5.0	239
30	Spindle Orientation Bias in Gut Epithelial Stem Cell Compartments Is Lost in Precancerous Tissue. Cell Stem Cell, 2010, 6, 175-181.	11.1	225
31	Peyer's Patch M Cells Derived from Lgr5 <sup>+</sup> Stem Cells Require SpiB and Are Induced by RankL in Cultured $\beta$ -Miniguts. Molecular and Cellular Biology, 2012, 32, 3639-3647.	2.3	224
32	You Wnt some, you lose some: oncogenes in the Wnt signaling pathway. Current Opinion in Genetics and Development, 2003, 13, 28-33.	3.3	219
33	Prominin-1/CD133 Marks Stem Cells and Early Progenitors in Mouse Small Intestine. Gastroenterology, 2009, 136, 2187-2194.e1.	1.3	215
34	The inner nuclear membrane protein Emerin regulates $\beta$ -catenin activity by restricting its accumulation in the nucleus. EMBO Journal, 2006, 25, 3275-3285.	7.8	214
35	Catenins, Wnt signaling and cancer. BioEssays, 2000, 22, 961-965.	2.5	208
36	Lgr5-expressing chief cells drive epithelial regeneration and cancer in the oxyntic stomach. Nature Cell Biology, 2017, 19, 774-786.	10.3	203

#	ARTICLE	IF	CITATIONS
37	Lgr5+ve Stem/Progenitor Cells Contribute to Nephron Formation during Kidney Development. Cell Reports, 2012, 2, 540-552.	6.4	196
38	Lgr5 marks stem/progenitor cells in ovary and tubal epithelia. Nature Cell Biology, 2014, 16, 745-757.	10.3	187
39	TCF: Lady Justice Casting the Final Verdict on the Outcome of Wnt Signalling. Biological Chemistry, 2002, 383, 255-261.	2.5	185
40	Genomic and Epigenomic Profiling of High-Risk Intestinal Metaplasia Reveals Molecular Determinants of Progression to Gastric Cancer. Cancer Cell, 2018, 33, 137-150.e5.	16.8	175
41	The upstream components of the Wnt signalling pathway in the dynamic EMT and MET associated with colorectal cancer progression. Clinical and Experimental Metastasis, 2008, 25, 657-663.	3.3	173
42	WNT signaling in the normal intestine and colorectal cancer. Frontiers in Bioscience - Landmark, 2007, 12, 471.	3.0	162
43	The Canonical Wnt/ $\beta$ -Catenin Signalling Pathway. Methods in Molecular Biology, 2008, 468, 5-15.	0.9	160
44	A Comprehensive Model of the Spatio-Temporal Stem Cell and Tissue Organisation in the Intestinal Crypt. PLoS Computational Biology, 2011, 7, e1001045.	3.2	155
45	Restricted High Level Expression of Tcf-4 Protein in Intestinal and Mammary Gland Epithelium. American Journal of Pathology, 1999, 154, 29-35.	3.8	149
46	Tracking Down the Stem Cells of the Intestine: Strategies to Identify Adult Stem Cells. Gastroenterology, 2007, 133, 1755-1760.	1.3	142
47	RSPO2 inhibition of RNF43 and ZNRF3 governs limb development independently of LGR4/5/6. Nature, 2018, 557, 564-569.	27.8	141
48	Developmental stage-specific contribution of LGR5 <sup>+</sup> cells to basal and luminal epithelial lineages in the postnatal mammary gland. Journal of Pathology, 2012, 228, 300-309.	4.5	134
49	LGR5 positivity defines stem-like cells in colorectal cancer. Carcinogenesis, 2014, 35, 849-858.	2.8	134
50	The role of APC and beta-catenin in the aetiology of aggressive fibromatosis (desmoid tumors). European Journal of Surgical Oncology, 2009, 35, 3-10.	1.0	130
51	Wounding enhances epidermal tumorigenesis by recruiting hair follicle keratinocytes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4099-4104.	7.1	130
52	Lgr proteins in epithelial stem cell biology. Development (Cambridge), 2013, 140, 2484-2494.	2.5	130
53	Frizzled7 Functions as a Wnt Receptor in Intestinal Epithelial Lgr5+ Stem Cells. Stem Cell Reports, 2015, 4, 759-767.	4.8	114
54	Ex vivo culture of the intestinal epithelium: strategies and applications. Gut, 2014, 63, 1345-1354.	12.1	109

#	ARTICLE	IF	CITATIONS
55	Lgr5 and Lgr6 as markers to study adult stem cell roles in self-renewal and cancer. <i>Oncogene</i> , 2012, 31, 3009-3022.	5.9	107
56	Very Long-term Self-renewal of Small Intestine, Colon, and Hair Follicles from Cycling Lgr5+ve Stem Cells. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2008, 73, 351-356.	1.1	104
57	Recent Advances in Lgr5 + Stem Cell Research. <i>Trends in Cell Biology</i> , 2018, 28, 380-391.	7.9	99
58	p53 deletion impairs clearance of chromosomal-unstable stem cells in aging telomere-dysfunctional mice. <i>Nature Genetics</i> , 2009, 41, 1138-1143.	21.4	96
59	The cytomegalovirus-encoded chemokine receptor US28 promotes intestinal neoplasia in transgenic mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 3969-3978.	8.2	96
60	Chemoprevention by nonsteroidal anti-inflammatory drugs eliminates oncogenic intestinal stem cells via SMAC-dependent apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20027-20032.	7.1	93
61	Intestinal Stem Cells and Their Defining Niche. <i>Current Topics in Developmental Biology</i> , 2014, 107, 77-107.	2.2	93
62	AQP5 enriches for stem cells and cancer origins in the distal stomach. <i>Nature</i> , 2020, 578, 437-443.	27.8	89
63	Cdx2 determines the fate of postnatal intestinal endoderm. <i>Development (Cambridge)</i> , 2012, 139, 465-474.	2.5	85
64	E-cadherin can limit the transforming properties of activating $\beta$ -catenin mutations. <i>EMBO Journal</i> , 2015, 34, 2321-2333.	7.8	83
65	Inactivation of TGF $\beta$ 2 receptors in stem cells drives cutaneous squamous cell carcinoma. <i>Nature Communications</i> , 2016, 7, 12493.	12.8	81
66	Cell transcriptomic atlas of the non-human primate <i>Macaca fascicularis</i> . <i>Nature</i> , 2022, 604, 723-731.	27.8	81
67	Ovary and fimbrial stem cells: biology, niche and cancer origins. <i>Nature Reviews Molecular Cell Biology</i> , 2015, 16, 625-638.	37.0	80
68	Frizzled-7 Is Required for Wnt Signaling in Gastric Tumors with and Without Apc Mutations. <i>Cancer Research</i> , 2019, 79, 970-981.	0.9	78
69	Lgr5+ Gastric Stem Cells Divide Symmetrically to Effect Epithelial Homeostasis in the Pylorus. <i>Cell Reports</i> , 2013, 5, 349-356.	6.4	65
70	Ligand activation of peroxisome proliferator-activated receptor $\gamma$ 3 induces apoptosis of leukemia cells by down-regulating the c-myc gene expression via blockade of the Tcf-4 activity. <i>Cell Death and Differentiation</i> , 2002, 9, 513-526.	11.2	61
71	Epithelial stem cells and intestinal cancer. <i>Seminars in Cancer Biology</i> , 2015, 32, 40-53.	9.6	58
72	Sumoylation by Ubc9 Regulates the Stem Cell Compartment and Structure and Function of the Intestinal Epithelium in Mice. <i>Gastroenterology</i> , 2011, 140, 286-296.	1.3	52

#	ARTICLE	IF	CITATIONS
73	Acute WNT signalling activation perturbs differentiation within the adult stomach and rapidly leads to tumour formation. <i>Oncogene</i> , 2013, 32, 2048-2057.	5.9	51
74	<i>Snai1</i> regulates cell lineage allocation and stem cell maintenance in the mouse intestinal epithelium. <i>EMBO Journal</i> , 2015, 34, 1319-1335.	7.8	50
75	Alteration of colonic stem cell gene signatures during the regenerative response to injury. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 1600-1607.	3.8	49
76	Lineage Tracing in the Intestinal Epithelium. <i>Current Protocols in Stem Cell Biology</i> , 2010, 13, Unit5A.4.	3.0	48
77	Neonatal Wnt-dependent Lgr5 positive stem cells are essential for uterine gland development. <i>Nature Communications</i> , 2019, 10, 5378.	12.8	48
78	Tumor environment: a potent driving force in colorectal cancer?. <i>Trends in Molecular Medicine</i> , 2001, 7, 535-537.	6.7	45
79	Spasmodic polypeptide-expressing metaplasia (SPEM) in the gastric oxyntic mucosa does not arise from Lgr5-expressing cells. <i>Gut</i> , 2012, 61, 1678-1685.	12.1	45
80	Gastrointestinal stem cells in self-renewal and cancer. <i>Journal of Gastroenterology</i> , 2011, 46, 1039-1055.	5.1	39
81	Gut stem cells in tissue renewal and disease: methods, markers, and myths. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 475-496.	6.6	38
82	A constant pool of Lgr5+ intestinal stem cells is required for intestinal homeostasis. <i>Cell Reports</i> , 2021, 34, 108633.	6.4	37
83	Cloning and characterization of hELD/OSA1, a novel BRG1 interacting protein. <i>Biochemical Journal</i> , 2002, 364, 255-264.	3.7	35
84	p21 loss blocks senescence following Apc loss and provokes tumorigenesis in the renal but not the intestinal epithelium. <i>EMBO Molecular Medicine</i> , 2010, 2, 472-486.	6.9	35
85	A tumour-resident Lgr5+ stem-cell-like pool drives the establishment and progression of advanced gastric cancers. <i>Nature Cell Biology</i> , 2021, 23, 1299-1313.	10.3	34
86	A genome-scale CRISPR screen reveals factors regulating Wnt-dependent renewal of mouse gastric epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	32
87	Wnt Signaling in Adult Epithelial Stem Cells and Cancer. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 153, 21-79.	1.7	30
88	Ovarian LGR5 is critical for successful pregnancy. <i>FASEB Journal</i> , 2014, 28, 2380-2389.	0.5	26
89	Bortezomib Stabilizes and Activates p53 in Proliferative Compartments of Both Normal and Tumor Tissues <i>In Vivo</i> . <i>Cancer Research</i> , 2019, 79, 3595-3607.	0.9	24
90	Stemming Colorectal Cancer Growth and Metastasis: HOXA5 Forces Cancer Stem Cells to Differentiate. <i>Cancer Cell</i> , 2015, 28, 683-685.	16.8	22

#	ARTICLE	IF	CITATIONS
91	Mutant p53 accumulates in cycling and proliferating cells in the normal tissues of p53 R172H mutant mice. <i>Oncotarget</i> , 2015, 6, 17968-17980.	1.8	21
92	Loss of the Wnt receptor Frizzled7 in the gastric epithelium is deleterious and triggers rapid repopulation in vivo. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 971-980.	2.4	20
93	Lgr5 Marks Adult Progenitor Cells Contributing to Skeletal Muscle Regeneration and Sarcoma Formation. <i>Cell Reports</i> , 2020, 33, 108535.	6.4	20
94	Detection of $\beta$ -Catenin Localization by Immunohistochemistry. <i>Methods in Molecular Biology</i> , 2008, 468, 91-98.	0.9	19
95	Leucine-rich Repeat-containing G-protein-coupled Receptor 5 Marks Short-term Hematopoietic Stem and Progenitor Cells during Mouse Embryonic Development. <i>Journal of Biological Chemistry</i> , 2014, 289, 23809-23816.	3.4	17
96	Distinct Localization of Mature HGF from its Precursor Form in Developing and Repairing the Stomach. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2955.	4.1	10
97	Quantifying Lgr5-positive stem cell behaviour in the pyloric epithelium. <i>Scientific Reports</i> , 2016, 6, 21923.	3.3	9
98	A contemporary snapshot of intestinal stem cells and their regulation. <i>Differentiation</i> , 2019, 108, 3-7.	1.9	9
99	The Central Role of Wnt Signaling and Organoid Technology in Personalizing Anticancer Therapy. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 153, 299-319.	1.7	7
100	Epithelial Stem Cells in the Esophagus: Who Needs Them?. <i>Cell Stem Cell</i> , 2012, 11, 284-286.	11.1	6
101	Ligand activation of peroxisome proliferator-activated receptor $\beta$ induces apoptosis of leukemia cells by down-regulating the c-myc gene expression via blockade of the Tcf-4 activity. , 0, .		5
102	Catenins, Wnt signaling and cancer. <i>BioEssays</i> , 2000, 22, 961-965.	2.5	4
103	The Function of Lgr5+ Cells in the Gastric Antrum Does Not Require Fzd7 or Myc In Vivo. <i>Biomedicines</i> , 2019, 7, 50.	3.2	2
104	Stem cell reprogramming as a driver of basal cell carcinoma. <i>Nature Cell Biology</i> , 2012, 14, 1246-1247.	10.3	1
105	Organoid systems for recapitulating the intestinal stem cell niche and modeling disease in vitro. <i>Advances in Stem Cells and Their Niches</i> , 2022, , 57-96.	0.1	1
106	Digesting recent stem cell advances in the gut. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2018, 15, 78-80.	17.8	0
107	Role of Lgr5-Expressing Stem Cells in Epithelial Renewal and Cancer in the Reproductive Tract. , 2018, , 45-59.		0
108	Abstract 5023: Stem cell hypothesis and function of Lgr5 in the development of colon cancer.. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
109	A key malignant switch in skin SCC. <i>Nature Cancer</i> , 2021, 2, 1116-1118.	13.2	0
110	Targeted ablation of Lgr5-expressing intestinal stem cells in diphtheria toxin receptor-based mouse and organoid models. <i>STAR Protocols</i> , 2022, 3, 101411.	1.2	0