

Roel Nusse

List of Publications by Year in descending order

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82
papers

44,441
citations

17429

63
h-index

54882

84
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88
all docs

88
docs citations

88
times ranked

40452
citing authors

#	ARTICLE	IF	CITATIONS
1	THE WNT SIGNALING PATHWAY IN DEVELOPMENT AND DISEASE. Annual Review of Cell and Developmental Biology, 2004, 20, 781-810.	4.0	4,672
2	Wnt/ β -Catenin Signaling and Disease. Cell, 2012, 149, 1192-1205.	13.5	4,658
3	Wnt/ β -Catenin Signaling, Disease, and Emerging Therapeutic Modalities. Cell, 2017, 169, 985-999.	13.5	2,998
4	Convergence of Wnt, β -Catenin, and Cadherin Pathways. Science, 2004, 303, 1483-1487.	6.0	2,652
5	Wnt proteins are lipid-modified and can act as stem cell growth factors. Nature, 2003, 423, 448-452.	13.7	2,006
6	A role for Wnt signalling in self-renewal of haematopoietic stem cells. Nature, 2003, 423, 409-414.	13.7	1,981
7	MECHANISMS OF WNT SIGNALING IN DEVELOPMENT. Annual Review of Cell and Developmental Biology, 1998, 14, 59-88.	4.0	1,870
8	Many tumors induced by the mouse mammary tumor virus contain a provirus integrated in the same region of the host genome. Cell, 1982, 31, 99-109.	13.5	1,683
9	A new member of the frizzled family from Drosophila functions as a Wingless receptor. Nature, 1996, 382, 225-230.	13.7	1,348
10	Wnt Signaling: Multiple Pathways, Multiple Receptors, and Multiple Transcription Factors. Journal of Biological Chemistry, 2006, 281, 22429-22433.	1.6	1,157
11	Purified Wnt5a Protein Activates or Inhibits β -Catenin-TCF Signaling Depending on Receptor Context. PLoS Biology, 2006, 4, e115.	2.6	1,101
12	An integral program for tissue renewal and regeneration: Wnt signaling and stem cell control. Science, 2014, 346, 1248012.	6.0	1,060
13	Towards an integrated view of Wnt signaling in development. Development (Cambridge), 2009, 136, 3205-3214.	1.2	1,021
14	Ablation of Insulin-Producing Neurons in Flies: Growth and Diabetic Phenotypes. Science, 2002, 296, 1118-1120.	6.0	981
15	The Drosophila homology of the mouse mammary oncogene int-1 is identical to the segment polarity gene wingless. Cell, 1987, 50, 649-657.	13.5	883
16	Wnt signaling in disease and in development. Cell Research, 2005, 15, 28-32.	5.7	872
17	Wnt genes. Cell, 1992, 69, 1073-1087.	13.5	856
18	Neu-Protein Overexpression in Breast Cancer. New England Journal of Medicine, 1988, 319, 1239-1245.	13.9	819

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19	A new secreted protein that binds to Wnt proteins and inhibits their activities. <i>Nature</i> , 1999, 398, 431-436.	13.7	664
20	Mode of proviral activation of a putative mammary oncogene (int-1) on mouse chromosome 15. <i>Nature</i> , 1984, 307, 131-136.	13.7	615
21	Self-renewing diploid Axin2+ cells fuel homeostatic renewal of the liver. <i>Nature</i> , 2015, 524, 180-185.	13.7	599
22	Wnt signaling and stem cell control. <i>Cell Research</i> , 2008, 18, 523-527.	5.7	490
23	Developmental Stage and Time Dictate the Fate of Wnt/ β -Catenin-Responsive Stem Cells in the Mammary Gland. <i>Cell Stem Cell</i> , 2012, 11, 387-400.	5.2	414
24	Embryonic stem cells require Wnt proteins to prevent differentiation to epiblast stem cells. <i>Nature Cell Biology</i> , 2011, 13, 1070-1075.	4.6	413
25	Wnt Signaling Mediates Self-Organization and Axis Formation in Embryoid Bodies. <i>Cell Stem Cell</i> , 2008, 3, 508-518.	5.2	406
26	Wnt Proteins Are Self-Renewal Factors for Mammary Stem Cells and Promote Their Long-Term Expansion in Culture. <i>Cell Stem Cell</i> , 2010, 6, 568-577.	5.2	353
27	dishevelled and armadillo act in the Wingless signalling pathway in <i>Drosophila</i> . <i>Nature</i> , 1994, 367, 80-83.	13.7	350
28	Three decades of Wnts: a personal perspective on how a scientific field developed. <i>EMBO Journal</i> , 2012, 31, 2670-2684.	3.5	350
29	Wnt Proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a007864-a007864.	2.3	321
30	Interfollicular Epidermal Stem Cells Self-Renew via Autocrine Wnt Signaling. <i>Science</i> , 2013, 342, 1226-1230.	6.0	316
31	Dishevelled 2 Recruits β -Arrestin 2 to Mediate Wnt5A-Stimulated Endocytosis of Frizzled 4. <i>Science</i> , 2003, 301, 1391-1394.	6.0	310
32	Alternative Wnt Signaling Is Initiated by Distinct Receptors. <i>Science Signaling</i> , 2008, 1, re9.	1.6	302
33	A Localized Wnt Signal Orients Asymmetric Stem Cell Division in Vitro. <i>Science</i> , 2013, 339, 1445-1448.	6.0	296
34	Wnts and Hedgehogs: lipid-modified proteins and similarities in signaling mechanisms at the cell surface. <i>Development (Cambridge)</i> , 2003, 130, 5297-5305.	1.2	285
35	The status of Wnt signalling regulates neural and epidermal fates in the chick embryo. <i>Nature</i> , 2001, 411, 325-330.	13.7	268
36	Wnt and FGF signals interact to coordinate growth with cell fate specification during limb development. <i>Development (Cambridge)</i> , 2008, 135, 3247-3257.	1.2	261

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37	Generating Cellular Diversity and Spatial Form: Wnt Signaling and the Evolution of Multicellular Animals. <i>Developmental Cell</i> , 2016, 38, 643-655.	3.1	254
38	Lentiviral Vectors to Probe and Manipulate the Wnt Signaling Pathway. <i>PLoS ONE</i> , 2010, 5, e9370.	1.1	241
39	Structure and nucleotide sequence of the putative mammary oncogene int-1; proviral insertions leave the protein-encoding domain intact. <i>Cell</i> , 1984, 39, 233-240.	13.5	230
40	Asymmetric Homotypic Interactions of the Atypical Cadherin Flamingo Mediate Intercellular Polarity Signaling. <i>Cell</i> , 2008, 133, 1093-1105.	13.5	216
41	Inflammatory Cytokine TNF α Promotes the Long-Term Expansion of Primary Hepatocytes in 3D Culture. <i>Cell</i> , 2018, 175, 1607-1619.e15.	13.5	211
42	Construction of Transgenic <i>Drosophila</i> by Using the Site-Specific Integrase From Phage ϕ C31. <i>Genetics</i> , 2004, 166, 1775-1782.	1.2	205
43	In Vivo Clonal Analysis Reveals Lineage-Restricted Progenitor Characteristics in Mammalian Kidney Development, Maintenance, and Regeneration. <i>Cell Reports</i> , 2014, 7, 1270-1283.	2.9	199
44	A critical role for endocytosis in Wnt signaling. <i>BMC Cell Biology</i> , 2006, 7, 28.	3.0	193
45	Biological activity of soluble wingless protein in cultured <i>Drosophila</i> imaginal disc cells. <i>Nature</i> , 1994, 368, 342-344.	13.7	187
46	Wnt5a can both activate and repress Wnt/ β -catenin signaling during mouse embryonic development. <i>Developmental Biology</i> , 2012, 369, 101-114.	0.9	185
47	Wnt signalling: conquering complexity. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	180
48	Wnt Signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a011163-a011163.	2.3	175
49	Endogenous Wnt signalling in human embryonic stem cells generates an equilibrium of distinct lineage-specified progenitors. <i>Nature Communications</i> , 2012, 3, 1070.	5.8	171
50	A dermal <i>HOX</i> transcriptional program regulates site-specific epidermal fate. <i>Genes and Development</i> , 2008, 22, 303-307.	2.7	165
51	Ligand Receptor Interactions in the Wnt Signaling Pathway in <i>Drosophila</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 41762-41769.	1.6	156
52	Wnt/ β -Catenin Signaling in Murine Hepatic Transit Amplifying Progenitor Cells. <i>Gastroenterology</i> , 2007, 133, 1579-1591.e1.	0.6	154
53	Ror2 Receptor Requires Tyrosine Kinase Activity to Mediate Wnt5A Signaling. <i>Journal of Biological Chemistry</i> , 2009, 284, 30167-30176.	1.6	153
54	The Role of Ryk and Ror Receptor Tyrosine Kinases in Wnt Signal Transduction. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a009175-a009175.	2.3	150

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55	The Wnt Pathway: From Signaling Mechanisms to Synthetic Modulators. Annual Review of Biochemistry, 2022, 91, 571-598.	5.0	138
56	Pathway Specificity by the Bifunctional Receptor Frizzled Is Determined by Affinity for Wingless. Molecular Cell, 2000, 6, 117-126.	4.5	112
57	The Frizzled CRD domain is conserved in diverse proteins including several receptor tyrosine kinases. Current Biology, 1998, 8, R405-R406.	1.8	107
58	A study on the interactions between heparan sulfate proteoglycans and Wnt proteins. Developmental Dynamics, 2010, 239, 184-190.	0.8	93
59	Tympanic border cells are Wnt-responsive and can act as progenitors for postnatal mouse cochlear cells. Development (Cambridge), 2013, 140, 1196-1206.	1.2	87
60	Tissue Repair in the Mouse Liver Following Acute Carbon Tetrachloride Depends on Injury-Induced Wnt/ β -Catenin Signaling. Hepatology, 2019, 69, 2623-2635.	3.6	77
61	Making head or tail of Dickkopf. Nature, 2001, 411, 255-256.	13.7	73
62	Structural Studies of Wnts and Identification of an LRP6 Binding Site. Structure, 2013, 21, 1235-1242.	1.6	73
63	The Drosophila Wnt Protein DWnt-3 Is a Secreted Glycoprotein Localized on the Axon Tracts of the Embryonic CNS. Developmental Biology, 1995, 168, 202-213.	0.9	72
64	Liposomal Packaging Generates Wnt Protein with In Vivo Biological Activity. PLoS ONE, 2008, 3, e2930.	1.1	70
65	A Dedicated Wnt Secretion Factor. Cell, 2006, 125, 432-433.	13.5	51
66	Wnt/ β -catenin signaling regulates ependymal cell development and adult homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5954-E5962.	3.3	44
67	A distinct regulatory region of the Bmp5 locus activates gene expression following adult bone fracture or soft tissue injury. Bone, 2015, 77, 31-41.	1.4	32
68	Pathogenesis of Listeria-Infected Drosophila wntD Mutants Is Associated with Elevated Levels of the Novel Immunity Gene edin. PLoS Pathogens, 2008, 4, e1000111.	2.1	30
69	Disarming Wnt. Nature, 2015, 519, 163-164.	13.7	29
70	Patching up Hedgehog. Nature, 1996, 384, 119-120.	13.7	27
71	Pituitary stem cells produce paracrine WNT signals to control the expansion of their descendant progenitor cells. ELife, 2021, 10, .	2.8	27
72	Mutants in the Mouse NuRD/Mi2 Component P66 β Are Embryonic Lethal. PLoS ONE, 2007, 2, e519.	1.1	27

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73	Wnt/ β -Catenin-Responsive Cells in Prostatic Development and Regeneration. <i>Stem Cells</i> , 2015, 33, 3356-3367.	1.4	26
74	Cell patterning in the <i>Drosophila</i> segment: <i>engrailed</i> and <i>wingless</i> antigen distributions in segment polarity mutant embryos. <i>Development (Cambridge)</i> , 1993, 119, 105-114.	1.2	25
75	CANCER: Converging on β -Catenin in Wilms Tumor. <i>Science</i> , 2007, 316, 988-989.	6.0	23
76	Honey bee Royalactin unlocks conserved pluripotency pathway in mammals. <i>Nature Communications</i> , 2018, 9, 5078.	5.8	22
77	Gene expression profiling of low-grade endometrial stromal sarcoma indicates fusion protein-mediated activation of the Wnt signaling pathway. <i>Gynecologic Oncology</i> , 2018, 149, 388-393.	0.6	21
78	A Suppressor/Enhancer Screen in <i>Drosophila</i> Reveals a Role for Wnt-Mediated Lipid Metabolism in Primordial Germ Cell Migration. <i>PLoS ONE</i> , 2011, 6, e26993.	1.1	18
79	Live Imaging Reveals that the First Division of Differentiating Human Embryonic Stem Cells Often Yields Asymmetric Fates. <i>Cell Reports</i> , 2017, 21, 301-307.	2.9	6
80	In vivo lineage tracing reveals Axin2-expressing, long-lived cortical thymic epithelial progenitors in the postnatal thymus. <i>PLoS ONE</i> , 2017, 12, e0184582.	1.1	6
81	Single-Molecule Imaging of Wnt3A Protein Diffusion on Living Cell Membranes. <i>Biophysical Journal</i> , 2017, 113, 2762-2767.	0.2	5
82	Differential inhibition of Wnt-3a by Sfrp-1, Sfrp-2, and Sfrp-3. <i>Developmental Dynamics</i> , 2006, 235, spc1-spc1.	0.8	2