Roel Nusse

List of Publications by Year
in descending order

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82 papers	44,441 citations	17405 63 h-index	54797 84 g-index
88 all docs	88 docs citations	88 times ranked	40452 citing authors

#	Article	IF	Citations
1	The Wnt Pathway: From Signaling Mechanisms to Synthetic Modulators. Annual Review of Biochemistry, 2022, 91, 571-598.	5.0	138
2	Pituitary stem cells produce paracrine WNT signals to control the expansion of their descendant progenitor cells. ELife, 2021, 10, .	2.8	27
3	Tissue Repair in the Mouse Liver Following Acute Carbon Tetrachloride Depends on Injuryâ€Induced Wnt/Î²â€Catenin Signaling. Hepatology, 2019, 69, 2623-2635.	3.6	77
4	Gene expression profiling of low-grade endometrial stromal sarcoma indicates fusion protein-mediated activation of the Wnt signaling pathway. Gynecologic Oncology, 2018, 149, 388-393.	0.6	21
5	Inflammatory Cytokine TNFÎ± Promotes the Long-Term Expansion of Primary Hepatocytes in 3D Culture. Cell, 2018, 175, 1607-1619.e15.	13.5	211
6	Honey bee Royalactin unlocks conserved pluripotency pathway in mammals. Nature Communications, 2018, 9, 5078.	5.8	22
7	Wnt signalling: conquering complexity. Development (Cambridge), 2018, 145, .	1.2	180
8	Wnt/Î²-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
9	Wnt/Î²-Catenin Signaling, Disease, and Emerging Therapeutic Modalities. Cell, 2017, 169, 985-999.	13.5	2,998
10	Live Imaging Reveals that the First Division of Differentiating Human Embryonic Stem Cells Often Yields Asymmetric Fates. Cell Reports, 2017, 21, 301-307.	2.9	6
11	Single-Molecule Imaging of Wnt3A Protein Diffusion on Living Cell Membranes. Biophysical Journal, 2017, 113, 2762-2767.	0.2	5
12	In vivo lineage tracing reveals Axin2-expressing, long-lived cortical thymic epithelial progenitors in the postnatal thymus. PLoS ONE, 2017, 12, e0184582.	1.1	6
13	Generating Cellular Diversity and Spatial Form: Wnt Signaling and the Evolution of Multicellular Animals. Developmental Cell, 2016, 38, 643-655.	3.1	254
14	Wnt/Î²-Catenin-Responsive Cells in Prostatic Development and Regeneration. Stem Cells, 2015, 33, 3356-3367.	1.4	26
15	Disarming Wnt. Nature, 2015, 519, 163-164.	13.7	29
16	Self-renewing diploid Axin2+ cells fuel homeostatic renewal of the liver. Nature, 2015, 524, 180-185.	13.7	599
17	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
18	The Role of Ryk and Ror Receptor Tyrosine Kinases in Wnt Signal Transduction. Cold Spring Harbor Perspectives in Biology, 2014, 6, a009175-a009175.	2.3	150

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19	An integral program for tissue renewal and regeneration: Wnt signaling and stem cell control. Science, 2014, 346, 1248012.	6.0	1,060
20	InÂVivo Clonal Analysis Reveals Lineage-Restricted Progenitor Characteristics in Mammalian Kidney Development, Maintenance, and Regeneration. Cell Reports, 2014, 7, 1270-1283.	2.9	199
21	Interfollicular Epidermal Stem Cells Self-Renew via Autocrine Wnt Signaling. Science, 2013, 342, 1226-1230.	6.0	316
22	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
23	A Localized Wnt Signal Orients Asymmetric Stem Cell Division in Vitro. Science, 2013, 339, 1445-1448.	6.0	296
24	Structural Studies of Wnts and Identification of an LRP6 Binding Site. Structure, 2013, 21, 1235-1242.	1.6	73
25	Wnt Proteins. Cold Spring Harbor Perspectives in Biology, 2012, 4, a007864-a007864.	2.3	321
26	Endogenous Wnt signalling in human embryonic stem cells generates an equilibrium of distinct lineage-specified progenitors. Nature Communications, 2012, 3, 1070.	5.8	171
27	Three decades of Wnts: a personal perspective on how a scientific field developed. EMBO Journal, 2012, 31, 2670-2684.	3.5	350
28	Wnt5a can both activate and repress Wnt/Î²-catenin signaling during mouse embryonic development. Developmental Biology, 2012, 369, 101-114.	0.9	185
29	Developmental Stage and Time Dictate the Fate of Wnt/Î²-Catenin-Responsive Stem Cells in the Mammary Gland. Cell Stem Cell, 2012, 11, 387-400.	5.2	414
30	Wnt Signaling. Cold Spring Harbor Perspectives in Biology, 2012, 4, a011163-a011163.	2.3	175
31	Wnt/Î²-Catenin Signaling and Disease. Cell, 2012, 149, 1192-1205.	13.5	4,658
32	Embryonic stem cells require Wnt proteins to prevent differentiation to epiblast stem cells. Nature Cell Biology, 2011, 13, 1070-1075.	4.6	413
33	A Suppressor/Enhancer Screen in Drosophila Reveals a Role for Wnt-Mediated Lipid Metabolism in Primordial Germ Cell Migration. PLoS ONE, 2011, 6, e26993.	1.1	18
34	A study on the interactions between heparan sulfate proteoglycans and Wnt proteins. Developmental Dynamics, 2010, 239, 184-190.	0.8	93
35	Lentiviral Vectors to Probe and Manipulate the Wnt Signaling Pathway. PLoS ONE, 2010, 5, e9370.	1.1	241
36	Wnt Proteins Are Self-Renewal Factors for Mammary Stem Cells and Promote Their Long-Term Expansion in Culture. Cell Stem Cell, 2010, 6, 568-577.	5.2	353

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37	Ror2 Receptor Requires Tyrosine Kinase Activity to Mediate Wnt5A Signaling. Journal of Biological Chemistry, 2009, 284, 30167-30176.	1.6	153
38	Towards an integrated view of Wnt signaling in development. Development (Cambridge), 2009, 136, 3205-3214.	1.2	1,021
39	Alternative Wnt Signaling Is Initiated by Distinct Receptors. Science Signaling, 2008, 1, re9.	1.6	302
40	Wnt signaling and stem cell control. Cell Research, 2008, 18, 523-527.	5.7	490
41	Wnt Signaling Mediates Self-Organization and Axis Formation in Embryoid Bodies. Cell Stem Cell, 2008, 3, 508-518.	5.2	406
42	Asymmetric Homotypic Interactions of the Atypical Cadherin Flamingo Mediate Intercellular Polarity Signaling. Cell, 2008, 133, 1093-1105.	13.5	216
43	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
44	Wnt and FGF signals interact to coordinate growth with cell fate specification during limb development. Development (Cambridge), 2008, 135, 3247-3257.	1.2	261
45	A dermal HOX transcriptional program regulates site-specific epidermal fate. Genes and Development, 2008, 22, 303-307.	2.7	165
46	Liposomal Packaging Generates Wnt Protein with In Vivo Biological Activity. PLoS ONE, 2008, 3, e2930.	1.1	70
47	CANCER: Converging on Â-Catenin in Wilms Tumor. Science, 2007, 316, 988-989.	6.0	23
48	Wnt/Î²-Catenin Signaling in Murine Hepatic Transit Amplifying Progenitor Cells. Gastroenterology, 2007, 133, 1579-1591.e1.	0.6	154
49	Mutants in the Mouse NuRD/Mi2 Component P66Î± Are Embryonic Lethal. PLoS ONE, 2007, 2, e519.	1.1	27
50	Wnt Signaling: Multiple Pathways, Multiple Receptors, and Multiple Transcription Factors. Journal of Biological Chemistry, 2006, 281, 22429-22433.	1.6	1,157
51	A Dedicated Wnt Secretion Factor. Cell, 2006, 125, 432-433.	13.5	51
52	Purified Wnt5a Protein Activates or Inhibits Î²-Cateninâ€“TCF Signaling Depending on Receptor Context. PLoS Biology, 2006, 4, e115.	2.6	1,101
53	A critical role for endocytosis in Wnt signaling. BMC Cell Biology, 2006, 7, 28.	3.0	193
54	Differential inhibition of Wnt-3a by Sfrp-1, Sfrp-2, and Sfrp-3. Developmental Dynamics, 2006, 235, spc1-spc1.	0.8	2

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55	Wnt signaling in disease and in development. Cell Research, 2005, 15, 28-32.	5.7	872
56	THE WNT SIGNALING PATHWAY IN DEVELOPMENT AND DISEASE. Annual Review of Cell and Developmental Biology, 2004, 20, 781-810.	4.0	4,672
57	Convergence of Wnt, Â-Catenin, and Cadherin Pathways. Science, 2004, 303, 1483-1487.	6.0	2,652
58	Construction of Transgenic Drosophila by Using the Site-Specific Integrase From Phage Ï†C31. Genetics, 2004, 166, 1775-1782.	1.2	205
59	Wnt proteins are lipid-modified and can act as stem cell growth factors. Nature, 2003, 423, 448-452.	13.7	2,006
60	Dishevelled 2 Recruits Â-Arrestin 2 to Mediate Wnt5A-Stimulated Endocytosis of Frizzled 4. Science, 2003, 301, 1391-1394.	6.0	310
61	A role for Wnt signalling in self-renewal of haematopoietic stem cells. Nature, 2003, 423, 409-414.	13.7	1,981
62	Wnts and Hedgehogs: lipid-modified proteins and similarities in signaling mechanisms at the cell surface. Development (Cambridge), 2003, 130, 5297-5305.	1.2	285
63	Ablation of Insulin-Producing Neurons in Flies: Growth and Diabetic Phenotypes. Science, 2002, 296, 1118-1120.	6.0	981
64	Ligand Receptor Interactions in the Wnt Signaling Pathway inDrosophila. Journal of Biological Chemistry, 2002, 277, 41762-41769.	1.6	156
65	The status of Wnt signalling regulates neural and epidermal fates in the chick embryo. Nature, 2001, 411, 325-330.	13.7	268
66	Making head or tail of Dickkopf. Nature, 2001, 411, 255-256.	13.7	73
67	Pathway Specificity by the Bifunctional Receptor Frizzled Is Determined by Affinity for Wingless. Molecular Cell, 2000, 6, 117-126.	4.5	112
68	A new secreted protein that binds to Wnt proteins and inhibits their activites. Nature, 1999, 398, 431-436.	13.7	664
69	The Frizzled CRD domain is conserved in diverse proteins including several receptor tyrosine kinases. Current Biology, 1998, 8, R405-R406.	1.8	107
70	MECHANISMS OF WNT SIGNALING IN DEVELOPMENT. Annual Review of Cell and Developmental Biology, 1998, 14, 59-88.	4.0	1,870
71	A new member of the frizzled family from Drosophila functions as a Wingless receptor. Nature, 1996, 382, 225-230.	13.7	1,348
72	Patching up Hedgehog. Nature, 1996, 384, 119-120.	13.7	27

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73	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
74	dishevelled and armadillo act in the Wingless signalling pathway in Drosophila. Nature, 1994, 367, 80-83.	13.7	350
75	Biological activity of soluble wingless protein in cultured Drosophila imaginal disc cells. Nature, 1994, 368, 342-344.	13.7	187
76	Cell patterning in the Drosophila segment: engrailed and wingless antigen distributions in segment polarity mutant embryos. Development (Cambridge), 1993, 119, 105-114.	1.2	25
77	Wnt genes. Cell, 1992, 69, 1073-1087.	13.5	856
78	Neu-Protein Overexpression in Breast Cancer. New England Journal of Medicine, 1988, 319, 1239-1245.	13.9	819
79	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
80	Mode of proviral activation of a putative mammary oncogene (int-1) on mouse chromosome 15. Nature, 1984, 307, 131-136.	13.7	615
81	Structure and nucleotide sequence of the putative mammary oncogene int-1; proviral insertions leave the protein-encoding domain intact. Cell, 1984, 39, 233-240.	13.5	230
82	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