Roel Nusse

List of Publications by Year in Descending Order

81 papers	37,244 citations	60 h-index	88 g-index
88 ext. papers	41,065 ext. citations	22.7 avg, IF	7.98 L-index

#	Paper	IF	Citations
81	The Wnt Pathway: From Signaling Mechanisms to Synthetic Modulators.. *Annual Review of Biochemistry*, **2022**,	29.1	13
80	Pituitary stem cells produce paracrine WNT signals to control the expansion of their descendant progenitor cells. *ELife*, **2021**, 10,	8.9	8
79	Tissue Repair in the Mouse Liver Following Acute Carbon Tetrachloride Depends on Injury-Induced Wnt/β-Catenin Signaling. *Hepatology*, **2019**, 69, 2623-2635	11.2	30
78	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	4.9	10
77	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	11.5	24
76	Inflammatory Cytokine TNFα Promotes the Long-Term Expansion of Primary Hepatocytes in 3D Culture. *Cell*, **2018**, 175, 1607-1619.e15	56.2	118
75	Honey bee Royalactin unlocks conserved pluripotency pathway in mammals. *Nature Communications*, **2018**, 9, 5078	17.4	13
74	Wnt signalling: conquering complexity. *Development (Cambridge)*, **2018**, 145,	6.6	113
73	Wnt/β-Catenin Signaling, Disease, and Emerging Therapeutic Modalities. *Cell*, **2017**, 169, 985-999	56.2	1850
72	Live Imaging Reveals that the First Division of Differentiating Human Embryonic Stem Cells Often Yields Asymmetric Fates. *Cell Reports*, **2017**, 21, 301-307	10.6	4
71	Single-Molecule Imaging of Wnt3A Protein Diffusion on Living Cell Membranes. *Biophysical Journal*, **2017**, 113, 2762-2767	2.9	5
70	In vivo lineage tracing reveals Axin2-expressing, long-lived cortical thymic epithelial progenitors in the postnatal thymus. *PLoS ONE*, **2017**, 12, e0184582	3.7	4
69	Generating Cellular Diversity and Spatial Form: Wnt Signaling and the Evolution of Multicellular Animals. *Developmental Cell*, **2016**, 38, 643-55	10.2	188
68	Cell signalling: Disarming Wnt. *Nature*, **2015**, 519, 163-4	50.4	27
67	Self-renewing diploid Axin2(+) cells fuel homeostatic renewal of the liver. *Nature*, **2015**, 524, 180-5	50.4	459
66	A distinct regulatory region of the Bmp5 locus activates gene expression following adult bone fracture or soft tissue injury. *Bone*, **2015**, 77, 31-41	4.7	20
65	Wnt/β-Catenin-Responsive Cells in Prostatic Development and Regeneration. *Stem Cells*, **2015**, 33, 3356-67	5.8	20

64	The role of Ryk and Ror receptor tyrosine kinases in Wnt signal transduction. *Cold Spring Harbor Perspectives in Biology*, **2014**, 6,	10.2	125
63	Stem cell signaling. An integral program for tissue renewal and regeneration: Wnt signaling and stem cell control. *Science*, **2014**, 346, 1248012	33.3	798
62	In vivo clonal analysis reveals lineage-restricted progenitor characteristics in mammalian kidney development, maintenance, and regeneration. *Cell Reports*, **2014**, 7, 1270-83	10.6	160
61	Interfollicular epidermal stem cells self-renew via autocrine Wnt signaling. *Science*, **2013**, 342, 1226-30	33.3	259
60	Tympanic border cells are Wnt-responsive and can act as progenitors for postnatal mouse cochlear cells. *Development (Cambridge)*, **2013**, 140, 1196-206	6.6	60
59	A localized Wnt signal orients asymmetric stem cell division in vitro. *Science*, **2013**, 339, 1445-8	33.3	240
58	structural Studies of Wnts and identification of an LRP6 binding site. *Structure*, **2013**, 21, 1235-42	5.2	60
57	Wnt5a can both activate and repress Wnt/Ecatenin signaling during mouse embryonic development. *Developmental Biology*, **2012**, 369, 101-14	3.1	141
56	Developmental stage and time dictate the fate of Wnt/Ecatenin-responsive stem cells in the mammary gland. *Cell Stem Cell*, **2012**, 11, 387-400	18	343
55	Wnt signaling. *Cold Spring Harbor Perspectives in Biology*, **2012**, 4,	10.2	149
54	Wnt/Ecatenin signaling and disease. *Cell*, **2012**, 149, 1192-205	56.2	3778
53	Wnt proteins. *Cold Spring Harbor Perspectives in Biology*, **2012**, 4, a007864	10.2	263
52	Endogenous Wnt signalling in human embryonic stem cells generates an equilibrium of distinct lineage-specified progenitors. *Nature Communications*, **2012**, 3, 1070	17.4	145
51	Three decades of Wnts: a personal perspective on how a scientific field developed. *EMBO Journal*, **2012**, 31, 2670-84	13	299
50	Embryonic stem cells require Wnt proteins to prevent differentiation to epiblast stem cells. *Nature Cell Biology*, **2011**, 13, 1070-5	23.4	365
49	A suppressor/enhancer screen in Drosophila reveals a role for wnt-mediated lipid metabolism in primordial germ cell migration. *PLoS ONE*, **2011**, 6, e26993	3.7	15
48	Lentiviral vectors to probe and manipulate the Wnt signaling pathway. *PLoS ONE*, **2010**, 5, e9370	3.7	202
47	Wnt proteins are self-renewal factors for mammary stem cells and promote their long-term expansion in culture. *Cell Stem Cell*, **2010**, 6, 568-77	18	317

46	A study on the interactions between heparan sulfate proteoglycans and Wnt proteins. *Developmental Dynamics*, **2010**, 239, 184-90	2.9	78
45	Ror2 receptor requires tyrosine kinase activity to mediate Wnt5A signaling. *Journal of Biological Chemistry*, **2009**, 284, 30167-76	5.4	127
44	Towards an integrated view of Wnt signaling in development. *Development (Cambridge)*, **2009**, 136, 3205-14	6.6	886
43	Wnt signaling and stem cell control. *Cell Research*, **2008**, 18, 523-7	24.7	421
42	Wnt signaling mediates self-organization and axis formation in embryoid bodies. *Cell Stem Cell*, **2008**, 3, 508-18	18	343
41	Asymmetric homotypic interactions of the atypical cadherin flamingo mediate intercellular polarity signaling. *Cell*, **2008**, 133, 1093-105	56.2	191
40	Pathogenesis of listeria-infected Drosophila wntD mutants is associated with elevated levels of the novel immunity gene edin. *PLoS Pathogens*, **2008**, 4, e1000111	7.6	27
39	Wnt and FGF signals interact to coordinate growth with cell fate specification during limb development. *Development (Cambridge)*, **2008**, 135, 3247-57	6.6	222
38	A dermal HOX transcriptional program regulates site-specific epidermal fate. *Genes and Development*, **2008**, 22, 303-7	12.6	130
37	Liposomal packaging generates Wnt protein with in vivo biological activity. *PLoS ONE*, **2008**, 3, e2930	3.7	61
36	Alternative wnt signaling is initiated by distinct receptors. *Science Signaling*, **2008**, 1, re9	8.8	256
35	Wnt/beta-catenin signaling in murine hepatic transit amplifying progenitor cells. *Gastroenterology*, **2007**, 133, 1579-91	13.3	133
34	Cancer. Converging on beta-catenin in Wilms tumor. *Science*, **2007**, 316, 988-9	33.3	23
33	Mutants in the mouse NuRD/Mi2 component P66alpha are embryonic lethal. *PLoS ONE*, **2007**, 2, e519	3.7	21
32	Differential inhibition of Wnt-3a by Sfrp-1, Sfrp-2, and Sfrp-3. *Developmental Dynamics*, **2006**, 235, spc1-spc1	2.9	2
31	Wnt signaling: multiple pathways, multiple receptors, and multiple transcription factors. *Journal of Biological Chemistry*, **2006**, 281, 22429-33	5.4	1013
30	A dedicated Wnt secretion factor. *Cell*, **2006**, 125, 432-3	56.2	43
29	Purified Wnt5a protein activates or inhibits beta-catenin-TCF signaling depending on receptor context. *PLoS Biology*, **2006**, 4, e115	9.7	945

28	A critical role for endocytosis in Wnt signaling. *BMC Cell Biology*, **2006**, 7, 28		171
27	Wnt signaling in disease and in development. *Cell Research*, **2005**, 15, 28-32	24.7	770
26	The Wnt signaling pathway in development and disease. *Annual Review of Cell and Developmental Biology*, **2004**, 20, 781-810	12.6	4111
25	Convergence of Wnt, beta-catenin, and cadherin pathways. *Science*, **2004**, 303, 1483-7	33.3	2376
24	Construction of Transgenic Drosophila by Using the Site-Specific Integrase From Phage □31. *Genetics*, **2004**, 166, 1775-1782	4	58
23	Wnt proteins are lipid-modified and can act as stem cell growth factors. *Nature*, **2003**, 423, 448-52	50.4	1789
22	Dishevelled 2 recruits beta-arrestin 2 to mediate Wnt5A-stimulated endocytosis of Frizzled 4. *Science*, **2003**, 301, 1391-4	33.3	288
21	A role for Wnt signalling in self-renewal of haematopoietic stem cells. *Nature*, **2003**, 423, 409-14	50.4	1769
20	Wnts and Hedgehogs: lipid-modified proteins and similarities in signaling mechanisms at the cell surface. *Development (Cambridge)*, **2003**, 130, 5297-305	6.6	234
19	Ablation of insulin-producing neurons in flies: growth and diabetic phenotypes. *Science*, **2002**, 296, 1118-20	33.3	824
18	Ligand receptor interactions in the Wnt signaling pathway in Drosophila. *Journal of Biological Chemistry*, **2002**, 277, 41762-9	5.4	144
17	The status of Wnt signalling regulates neural and epidermal fates in the chick embryo. *Nature*, **2001**, 411, 325-30	50.4	235
16	Pathway Specificity by the Bifunctional Receptor Frizzled Is Determined by Affinity for Wingless. *Molecular Cell*, **2000**, 6, 117-126	17.6	108
15	A new secreted protein that binds to Wnt proteins and inhibits their activities. *Nature*, **1999**, 398, 431-6	50.4	585
14	The Frizzled CRD domain is conserved in diverse proteins including several receptor tyrosine kinases. *Current Biology*, **1998**, 8, R405-6	6.3	96
13	Mechanisms of Wnt signaling in development. *Annual Review of Cell and Developmental Biology*, **1998**, 14, 59-88	12.6	1672
12	A new member of the frizzled family from Drosophila functions as a Wingless receptor. *Nature*, **1996**, 382, 225-30	50.4	1228
11	The Drosophila Wnt protein DWnt-3 is a secreted glycoprotein localized on the axon tracts of the embryonic CNS. *Developmental Biology*, **1995**, 168, 202-13	3.1	61

10	dishevelled and armadillo act in the wingless signalling pathway in Drosophila. *Nature*, **1994**, 367, 80-3	50.4	323
9	Biological activity of soluble wingless protein in cultured Drosophila imaginal disc cells. *Nature*, **1994**, 368, 342-4	50.4	178
8	Cell patterning in the Drosophila segment: engrailed and wingless antigen distributions in segment polarity mutant embryos. *Development (Cambridge)*, **1993**, 119, 105-114	6.6	18
7	Wnt genes. *Cell*, **1992**, 69, 1073-87	56.2	810
6	Neu-protein overexpression in breast cancer. Association with comedo-type ductal carcinoma in situ and limited prognostic value in stage II breast cancer. *New England Journal of Medicine*, **1988**, 319, 1239-45	59.2	748
5	The Drosophila homolog of the mouse mammary oncogene int-1 is identical to the segment polarity gene wingless. *Cell*, **1987**, 50, 649-57	56.2	789
4	Mode of proviral activation of a putative mammary oncogene (int-1) on mouse chromosome 15. *Nature*, **1984**, 307, 131-6	50.4	545
3	Structure and nucleotide sequence of the putative mammary oncogene int-1; proviral insertions leave the protein-encoding domain intact. *Cell*, **1984**, 39, 233-40	56.2	206
2	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	56.2	1441
1	□catenin-Mediated Wnt Signal Transduction Proceeds Through an Endocytosis-Independent Mechanism		1