

# Roel Nusse

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 signaling pathway in development and disease. <i>Annual Review of Cell and Developmental Biology</i> , <b>2004</b> , 20, 781-810	12.6	4111
80	Wnt/ $\beta$ catenin signaling and disease. <i>Cell</i> , <b>2012</b> , 149, 1192-205	56.2	3778
79	Convergence of Wnt, beta-catenin, and cadherin pathways. <i>Science</i> , <b>2004</b> , 303, 1483-7	33.3	2376
78	Wnt/ $\beta$ Catenin Signaling, Disease, and Emerging Therapeutic Modalities. <i>Cell</i> , <b>2017</b> , 169, 985-999	56.2	1850
77	Wnt proteins are lipid-modified and can act as stem cell growth factors. <i>Nature</i> , <b>2003</b> , 423, 448-52	50.4	1789
76	A role for Wnt signalling in self-renewal of haematopoietic stem cells. <i>Nature</i> , <b>2003</b> , 423, 409-14	50.4	1769
75	Mechanisms of Wnt signaling in development. <i>Annual Review of Cell and Developmental Biology</i> , <b>1998</b> , 14, 59-88	12.6	1672
74	Many tumors induced by the mouse mammary tumor virus contain a provirus integrated in the same region of the host genome. <i>Cell</i> , <b>1982</b> , 31, 99-109	56.2	1441
73	A new member of the frizzled family from <i>Drosophila</i> functions as a Wingless receptor. <i>Nature</i> , <b>1996</b> , 382, 225-30	50.4	1228
72	Wnt signaling: multiple pathways, multiple receptors, and multiple transcription factors. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 22429-33	5.4	1013
71	Purified Wnt5a protein activates or inhibits beta-catenin-TCF signaling depending on receptor context. <i>PLoS Biology</i> , <b>2006</b> , 4, e115	9.7	945
70	Towards an integrated view of Wnt signaling in development. <i>Development (Cambridge)</i> , <b>2009</b> , 136, 3205-14	56.14	886
69	Ablation of insulin-producing neurons in flies: growth and diabetic phenotypes. <i>Science</i> , <b>2002</b> , 296, 1118-20	33.3	824
68	Wnt genes. <i>Cell</i> , <b>1992</b> , 69, 1073-87	56.2	810
67	Stem cell signaling. An integral program for tissue renewal and regeneration: Wnt signaling and stem cell control. <i>Science</i> , <b>2014</b> , 346, 1248012	33.3	798
66	The <i>Drosophila</i> homolog of the mouse mammary oncogene int-1 is identical to the segment polarity gene wingless. <i>Cell</i> , <b>1987</b> , 50, 649-57	56.2	789
65	Wnt signaling in disease and in development. <i>Cell Research</i> , <b>2005</b> , 15, 28-32	24.7	770

64	Neu-protein overexpression in breast cancer. Association with comedo-type ductal carcinoma in situ and limited prognostic value in stage II breast cancer. <i>New England Journal of Medicine</i> , <b>1988</b> , 319, 1239-45	59.2	748
63	A new secreted protein that binds to Wnt proteins and inhibits their activities. <i>Nature</i> , <b>1999</b> , 398, 431-6	50.4	585
62	Mode of proviral activation of a putative mammary oncogene (int-1) on mouse chromosome 15. <i>Nature</i> , <b>1984</b> , 307, 131-6	50.4	545
61	Self-renewing diploid Axin2(+) cells fuel homeostatic renewal of the liver. <i>Nature</i> , <b>2015</b> , 524, 180-5	50.4	459
60	Wnt signaling and stem cell control. <i>Cell Research</i> , <b>2008</b> , 18, 523-7	24.7	421
59	Embryonic stem cells require Wnt proteins to prevent differentiation to epiblast stem cells. <i>Nature Cell Biology</i> , <b>2011</b> , 13, 1070-5	23.4	365
58	Developmental stage and time dictate the fate of Wnt/βcatenin-responsive stem cells in the mammary gland. <i>Cell Stem Cell</i> , <b>2012</b> , 11, 387-400	18	343
57	Wnt signaling mediates self-organization and axis formation in embryoid bodies. <i>Cell Stem Cell</i> , <b>2008</b> , 3, 508-18	18	343
56	dishevelled and armadillo act in the wingless signalling pathway in Drosophila. <i>Nature</i> , <b>1994</b> , 367, 80-3	50.4	323
55	Wnt proteins are self-renewal factors for mammary stem cells and promote their long-term expansion in culture. <i>Cell Stem Cell</i> , <b>2010</b> , 6, 568-77	18	317
54	Three decades of Wnts: a personal perspective on how a scientific field developed. <i>EMBO Journal</i> , <b>2012</b> , 31, 2670-84	13	299
53	Dishevelled 2 recruits beta-arrestin 2 to mediate Wnt5A-stimulated endocytosis of Frizzled 4. <i>Science</i> , <b>2003</b> , 301, 1391-4	33.3	288
52	Wnt proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2012</b> , 4, a007864	10.2	263
51	Interfollicular epidermal stem cells self-renew via autocrine Wnt signaling. <i>Science</i> , <b>2013</b> , 342, 1226-30	33.3	259
50	Alternative wnt signaling is initiated by distinct receptors. <i>Science Signaling</i> , <b>2008</b> , 1, re9	8.8	256
49	A localized Wnt signal orients asymmetric stem cell division in vitro. <i>Science</i> , <b>2013</b> , 339, 1445-8	33.3	240
48	The status of Wnt signalling regulates neural and epidermal fates in the chick embryo. <i>Nature</i> , <b>2001</b> , 411, 325-30	50.4	235
47	Wnts and Hedgehogs: lipid-modified proteins and similarities in signaling mechanisms at the cell surface. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 5297-305	6.6	234

46	Wnt and FGF signals interact to coordinate growth with cell fate specification during limb development. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 3247-57	6.6	222
45	Structure and nucleotide sequence of the putative mammary oncogene int-1; proviral insertions leave the protein-encoding domain intact. <i>Cell</i> , <b>1984</b> , 39, 233-40	56.2	206
44	Lentiviral vectors to probe and manipulate the Wnt signaling pathway. <i>PLoS ONE</i> , <b>2010</b> , 5, e9370	3.7	202
43	Asymmetric homotypic interactions of the atypical cadherin flamingo mediate intercellular polarity signaling. <i>Cell</i> , <b>2008</b> , 133, 1093-105	56.2	191
42	Generating Cellular Diversity and Spatial Form: Wnt Signaling and the Evolution of Multicellular Animals. <i>Developmental Cell</i> , <b>2016</b> , 38, 643-55	10.2	188
41	Biological activity of soluble wingless protein in cultured Drosophila imaginal disc cells. <i>Nature</i> , <b>1994</b> , 368, 342-4	50.4	178
40	A critical role for endocytosis in Wnt signaling. <i>BMC Cell Biology</i> , <b>2006</b> , 7, 28		171
39	In vivo clonal analysis reveals lineage-restricted progenitor characteristics in mammalian kidney development, maintenance, and regeneration. <i>Cell Reports</i> , <b>2014</b> , 7, 1270-83	10.6	160
38	Wnt signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2012</b> , 4,	10.2	149
37	Endogenous Wnt signalling in human embryonic stem cells generates an equilibrium of distinct lineage-specified progenitors. <i>Nature Communications</i> , <b>2012</b> , 3, 1070	17.4	145
36	Ligand receptor interactions in the Wnt signaling pathway in Drosophila. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 41762-9	5.4	144
35	Wnt5a can both activate and repress Wnt/ $\beta$ -catenin signaling during mouse embryonic development. <i>Developmental Biology</i> , <b>2012</b> , 369, 101-14	3.1	141
34	Wnt/ $\beta$ -catenin signaling in murine hepatic transit amplifying progenitor cells. <i>Gastroenterology</i> , <b>2007</b> , 133, 1579-91	13.3	133
33	A dermal HOX transcriptional program regulates site-specific epidermal fate. <i>Genes and Development</i> , <b>2008</b> , 22, 303-7	12.6	130
32	Ror2 receptor requires tyrosine kinase activity to mediate Wnt5A signaling. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 30167-76	5.4	127
31	The role of Ryk and Ror receptor tyrosine kinases in Wnt signal transduction. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2014</b> , 6,	10.2	125
30	Inflammatory Cytokine TNF $\alpha$ Promotes the Long-Term Expansion of Primary Hepatocytes in 3D Culture. <i>Cell</i> , <b>2018</b> , 175, 1607-1619.e15	56.2	118
29	Wnt signalling: conquering complexity. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	113

28	Pathway Specificity by the Bifunctional Receptor Frizzled Is Determined by Affinity for Wingless. <i>Molecular Cell</i> , <b>2000</b> , 6, 117-126	17.6	108
27	The Frizzled CRD domain is conserved in diverse proteins including several receptor tyrosine kinases. <i>Current Biology</i> , <b>1998</b> , 8, R405-6	6.3	96
26	A study on the interactions between heparan sulfate proteoglycans and Wnt proteins. <i>Developmental Dynamics</i> , <b>2010</b> , 239, 184-90	2.9	78
25	Liposomal packaging generates Wnt protein with in vivo biological activity. <i>PLoS ONE</i> , <b>2008</b> , 3, e2930	3.7	61
24	The Drosophila Wnt protein DWnt-3 is a secreted glycoprotein localized on the axon tracts of the embryonic CNS. <i>Developmental Biology</i> , <b>1995</b> , 168, 202-13	3.1	61
23	Tympanic border cells are Wnt-responsive and can act as progenitors for postnatal mouse cochlear cells. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 1196-206	6.6	60
22	structural Studies of Wnts and identification of an LRP6 binding site. <i>Structure</i> , <b>2013</b> , 21, 1235-42	5.2	60
21	Construction of Transgenic Drosophila by Using the Site-Specific Integrase From Phage $\lambda$ 31. <i>Genetics</i> , <b>2004</b> , 166, 1775-1782	4	58
20	A dedicated Wnt secretion factor. <i>Cell</i> , <b>2006</b> , 125, 432-3	56.2	43
19	Tissue Repair in the Mouse Liver Following Acute Carbon Tetrachloride Depends on Injury-Induced Wnt/ $\beta$ Catenin Signaling. <i>Hepatology</i> , <b>2019</b> , 69, 2623-2635	11.2	30
18	Cell signalling: Disarming Wnt. <i>Nature</i> , <b>2015</b> , 519, 163-4	50.4	27
17	Pathogenesis of listeria-infected Drosophila wntD mutants is associated with elevated levels of the novel immunity gene edin. <i>PLoS Pathogens</i> , <b>2008</b> , 4, e1000111	7.6	27
16	Wnt/ $\beta$ catenin signaling regulates ependymal cell development and adult homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E5954-E5962	11.5	24
15	Cancer. Converging on beta-catenin in Wilms tumor. <i>Science</i> , <b>2007</b> , 316, 988-9	33.3	23
14	Mutants in the mouse NuRD/Mi2 component P66alpha are embryonic lethal. <i>PLoS ONE</i> , <b>2007</b> , 2, e519	3.7	21
13	A distinct regulatory region of the Bmp5 locus activates gene expression following adult bone fracture or soft tissue injury. <i>Bone</i> , <b>2015</b> , 77, 31-41	4.7	20
12	Wnt/ $\beta$ Catenin-Responsive Cells in Prostatic Development and Regeneration. <i>Stem Cells</i> , <b>2015</b> , 33, 3356-678	6.8	20
11	Cell patterning in the Drosophila segment: engrailed and wingless antigen distributions in segment polarity mutant embryos. <i>Development (Cambridge)</i> , <b>1993</b> , 119, 105-114	6.6	18

10	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> , <b>2011</b> , 6, e26993	3.7	15
9	Honey bee Royalactin unlocks conserved pluripotency pathway in mammals. <i>Nature Communications</i> , <b>2018</b> , 9, 5078	17.4	13
8	The Wnt Pathway: From Signaling Mechanisms to Synthetic Modulators.. <i>Annual Review of Biochemistry</i> , <b>2022</b> ,	29.1	13
7	Gene expression profiling of low-grade endometrial stromal sarcoma indicates fusion protein-mediated activation of the Wnt signaling pathway. <i>Gynecologic Oncology</i> , <b>2018</b> , 149, 388-393	4.9	10
6	Pituitary stem cells produce paracrine WNT signals to control the expansion of their descendant progenitor cells. <i>ELife</i> , <b>2021</b> , 10,	8.9	8
5	Single-Molecule Imaging of Wnt3A Protein Diffusion on Living Cell Membranes. <i>Biophysical Journal</i> , <b>2017</b> , 113, 2762-2767	2.9	5
4	Live Imaging Reveals that the First Division of Differentiating Human Embryonic Stem Cells Often Yields Asymmetric Fates. <i>Cell Reports</i> , <b>2017</b> , 21, 301-307	10.6	4
3	In vivo lineage tracing reveals Axin2-expressing, long-lived cortical thymic epithelial progenitors in the postnatal thymus. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184582	3.7	4
2	Differential inhibition of Wnt-3a by Sfrp-1, Sfrp-2, and Sfrp-3. <i>Developmental Dynamics</i> , <b>2006</b> , 235, spc1-sp1		2
1	Ectenin-Mediated Wnt Signal Transduction Proceeds Through an Endocytosis-Independent Mechanism		1