Nicholas S Tolwinski

List of Publications by Year
in descending order

54	2,821	218592	197736
papers	citations	26 h-index	49 g-index

71	71	71	3777
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wnt signaling pathways meet Rho GTPases. Genes and Development, 2009, 23, 265-277.	2.7	324
2	Wg/Wnt Signal Can Be Transmitted through Arrow/LRP5,6 and Axin Independently of Zw3/Gsk3Î² Activity. Developmental Cell, 2003, 4, 407-418.	3.1	278
3	Activation of the MKK/ERK Pathway during Somatic Cell Mitosis: Direct Interactions of Active ERK with Kinetochores and Regulation of the Mitotic 3F3/2 Phosphoantigen. Journal of Cell Biology, 1998, 142, 1533-1545.	2.3	217
4	WNT Signaling in Disease. Cells, 2019, 8, 826.	1.8	157
5	Rethinking WNT signaling. Trends in Genetics, 2004, 20, 177-181.	2.9	134
6	PTK7/Otk interacts with Wnts and inhibits canonical Wnt signalling. EMBO Journal, 2011, 30, 3729-3740.	3.5	113
7	Armadillo nuclear import is regulated by cytoplasmic anchor Axin and nuclear anchor dTCF/Pan. Development (Cambridge), 2001, 128, 2107-2117.	1.2	105
8	Extracellular Signal-Regulated Kinase Activates Topoisomerase IIÎ± through a Mechanism Independent of Phosphorylation. Molecular and Cellular Biology, 1999, 19, 3551-3560.	1.1	104
9	The many roles of PTK7: A versatile regulator of cellâ€“cell communication. Archives of Biochemistry and Biophysics, 2012, 524, 71-76.	1.4	91
10	An insect symbiosis is influenced by bacterium-specific polymorphisms in outer-membrane protein A. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15088-15093.	3.3	86
11	Decoding temporal interpretation of the morphogen Bicoid in the early Drosophila embryo. ELife, 2017, 6, .	2.8	84
12	A Nuclear Function for Armadillo/Î²-Catenin. PLoS Biology, 2004, 2, e95.	2.6	83
13	Nuclear Localization of Mitogen-activated Protein Kinase Kinase 1 (MKK1) Is Promoted by Serum Stimulation and G2-M Progression. Journal of Biological Chemistry, 1999, 274, 6168-6174.	1.6	67
14	â€˜Lncâ€™â€•ing Wnt in female reproductive cancers: therapeutic potential of long nonâ€•coding RNAs in Wnt signalling. British Journal of Pharmacology, 2017, 174, 4684-4700.	2.7	62
15	Wnt pathway activation by ADP-ribosylation. Nature Communications, 2016, 7, 11430.	5.8	61
16	Drug Synergy Slows Aging and Improves Healthspan through IGF and SREBP Lipid Signaling. Developmental Cell, 2018, 47, 67-79.e5.	3.1	60
17	Metabolic stress is a primary pathogenic event in transgenic Caenorhabditis elegans expressing pan-neuronal human amyloid beta. ELife, 2019, 8, .	2.8	55
18	Pharmacologic Inhibitors of MKK1 and MKK2. Methods in Enzymology, 2001, 332, 417-431.	0.4	54

#	Article	IF	Citations
19	Reptin and Pontin function antagonistically with PcG and TrxG complexes to mediate Hox gene control. EMBO Reports, 2008, 9, 260-266.	2.0	49
20	Developmental Drift and the Role of Wnt Signaling in Aging. Cancers, 2016, 8, 73.	1.7	49
21	Introduction: Drosophilaâ€"A Model System for Developmental Biology. Journal of Developmental Biology, 2017, 5, 9.	0.9	48
22	Wnt, Hedgehog and Junctional Armadillo/Î²-Catenin Establish Planar Polarity in the Drosophila Embryo. PLoS ONE, 2006, 1, e9.	1.1	42
23	GSK3Î² affects apicalâ€"basal polarity and cellâ€"cell adhesion by regulating aPKC levels. Developmental Dynamics, 2010, 239, 115-125.	0.8	38
24	Spatially defined Dshâ€"Lgl interaction contributes to directional tissue morphogenesis. Journal of Cell Science, 2010, 123, 3157-3165.	1.2	35
25	Coupling optogenetics and light-sheet microscopy, a method to study Wnt signaling during embryogenesis. Scientific Reports, 2017, 7, 16636.	1.6	33
26	Importance of miRNA stability and alternative primary miRNA isoforms in gene regulation during Drosophila development. ELife, 2018, 7, .	2.8	33
27	Complex Interactions between GSK3 and aPKC in Drosophila Embryonic Epithelial Morphogenesis. PLoS ONE, 2011, 6, e18616.	1.1	31
28	Application of optogenetic Amyloid-Î² distinguishes between metabolic and physical damages in neurodegeneration. ELife, 2020, 9, .	2.8	31
29	Epithelial Polarity: Interactions Between Junctions and Apicalâ€"Basal Machinery. Genetics, 2009, 183, 897-904.	1.2	30
30	Epidermal Growth Factor Pathway Signaling in Drosophila Embryogenesis: Tools for Understanding Cancer. Cancers, 2017, 9, 16.	1.7	29
31	Frequent Unanticipated Alleles of lethal giant larvae in Drosophila Second Chromosome Stocks. Genetics, 2009, 182, 407-410.	1.2	28
32	Ptk7 and Mcc, Unfancied Components in Non-Canonical Wnt Signaling and Cancer. Cancers, 2016, 8, 68.	1.7	28
33	The Role of Mitochondrial Non-Enzymatic Protein Acylation in Ageing. PLoS ONE, 2016, 11, e0168752.	1.1	25
34	A nuclear escort for Î²-catenin. Nature Cell Biology, 2004, 6, 579-580.	4.6	23
35	Shared signaling pathways in Alzheimerâ€™s and metabolic disease may point to new treatment approaches. FEBS Journal, 2021, 288, 3855-3873.	2.2	19
36	An Optogenetic Method to Study Signal Transduction in Intestinal Stem Cell Homeostasis. Journal of Molecular Biology, 2020, 432, 3159-3176.	2.0	16

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37	Modeling the Role of Wnt Signaling in Human and Drosophila Stem Cells. Genes, 2018, 9, 101.	1.0	15
38	Membrane Bound Axin Is Sufficient for Wingless Signaling in Drosophila Embryos. Genetics, 2009, 181, 1169-1173.	1.2	11
39	A novel vibration-induced exercise paradigm improves fitness and lipid metabolism of Caenorhabditis elegans. Scientific Reports, 2018, 8, 9420.	1.6	11
40	Drug synergy as a strategy for compression of morbidity in a Caenorhabditis elegans model of Alzheimerâ€™s disease. GeroScience, 2020, 42, 849-856.	2.1	10
41	Membrane Bound GSK-3 Activates Wnt Signaling through Disheveled and Arrow. PLoS ONE, 2015, 10, e0121879.	1.1	9
42	Use of Optogenetic Amyloid-Î² to Monitor Protein Aggregation in Drosophila melanogaster, Danio rerio and Caenorhabditis elegans. Bio-protocol, 2020, 10, e3856.	0.2	8
43	A high throughput drug screening paradigm using transgenic Caenorhabditis elegans model of Alzheimerâ€™s disease. Translational Medicine of Aging, 2020, 4, 11-21.	0.6	6
44	Wnt Signaling Rescues Amyloid Beta-Induced Gut Stem Cell Loss. Cells, 2022, 11, 281.	1.8	6
45	An embryonic system to assess direct and indirect Wnt transcriptional targets. Scientific Reports, 2017, 7, 11092.	1.6	4
46	Optogenetic approaches for understanding homeostatic and degenerative processes in Drosophila. Cellular and Molecular Life Sciences, 2021, 78, 5865-5880.	2.4	4
47	Membrane Targeting of Disheveled Can Bypass the Need for Arrow/LRP5. Scientific Reports, 2017, 7, 6934.	1.6	3
48	LipidClock: A Lipid-Based Predictor of Biological Age. Frontiers in Aging, 2022, 3, .	1.2	3
49	Hyaluronidase Generates a Single-Cell Suspension from Cultured Mouse Lung Epithelial Cells. BioTechniques, 1997, 22, 856-860.	0.8	1
50	New Advances in Signaling and Pattern Formation. Fly, 2007, 1, 116-117.	0.9	1
51	Ras is Required for Toll Signaling in the Drosophila Embryo. Mechanisms of Development, 2017, 145, S84.	1.7	0
52	Spatially defined Dshâ€“Lgl interaction contributes to directional tissue morphogenesis. Development (Cambridge), 2010, 137, e1-e1.	1.2	0
53	Drug Synergy Slows Ageing and Improves Health Span through TGFF and SREBP Lipid Signaling. SSRN Electronic Journal, 0, , .	0.4	0
54	A non-canonical Raf function is required for dorsalâ€“ventral patterning during Drosophila embryogenesis. Scientific Reports, 2022, 12, 7684.	1.6	0