Natalia A Riobo

List of Publications by Year
in descending order

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57 papers	4,675 citations	159358 30 h-index	155451 55 g-index
61 all docs	61 docs citations	61 times ranked	5219 citing authors

#	Article	IF	Citations
1	Nitric Oxide Inhibits Electron Transfer and Increases Superoxide Radical Production in Rat Heart Mitochondria and Submitochondrial Particles. Archives of Biochemistry and Biophysics, 1996, 328, 85-92.	1.4	703
2	Phosphoinositide 3-kinase and Akt are essential for Sonic Hedgehog signaling. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4505-4510.	3.3	418
3	The Hedgehog Signal Transduction Network. Science Signaling, 2012, 5, re6.	1.6	350
4	Nitric oxide inhibits mitochondrial NADH:ubiquinone reductase activity through peroxynitrite formation. Biochemical Journal, 2001, 359, 139-145.	1.7	229
5	Activation of heterotrimeric G proteins by Smoothened. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12607-12612.	3.3	225
6	Hedgehog proteins activate pro-angiogenic responses in endothelial cells through non-canonical signaling pathways. Cell Cycle, 2010, 9, 570-579.	1.3	190
7	Protein Kinase C-Î´ and Mitogen-Activated Protein/Extracellular Signalâ€“Regulated Kinase-1 Control GLI Activation in Hedgehog Signaling. Cancer Research, 2006, 66, 839-845.	0.4	187
8	Pathways of signal transduction employed by vertebrate Hedgehogs. Biochemical Journal, 2007, 403, 369-379.	1.7	182
9	Nitric oxide inhibits mitochondrial NADH:ubiquinone reductase activity through peroxynitrite formation. Biochemical Journal, 2001, 359, 139.	1.7	181
10	The Regulation of Mitochondrial Oxygen Uptake by Redox Reactions Involving Nitric Oxide and Ubiquinol. Journal of Biological Chemistry, 1999, 274, 37709-37716.	1.6	158
11	Receptors coupled to heterotrimeric G proteins of the G12 family. Trends in Pharmacological Sciences, 2005, 26, 146-154.	4.0	156
12	The reaction of nitric oxide with ubiquinol: kinetic properties and biological significance. Free Radical Biology and Medicine, 1999, 26, 925-935.	1.3	146
13	Noncanonical Hedgehog Signaling. Vitamins and Hormones, 2012, 88, 55-72.	0.7	142
14	Heterotrimeric Gi Proteins Link Hedgehog Signaling to Activation of Rho Small GTPases to Promote Fibroblast Migration. Journal of Biological Chemistry, 2011, 286, 19589-19596.	1.6	132
15	Canonical and non-canonical Hedgehog signalling and the control of metabolism. Seminars in Cell and Developmental Biology, 2014, 33, 81-92.	2.3	117
16	Overexpression of Neutrophil Neuronal Nitric Oxide Synthase in Parkinson's Disease. Nitric Oxide - Biology and Chemistry, 2000, 4, 534-539.	1.2	97
17	The Modulation of Mitochondrial Nitric-oxide Synthase Activity in Rat Brain Development. Journal of Biological Chemistry, 2002, 277, 42447-42455.	1.6	93
18	Sonic Hedgehog Activates the GTPases Rac1 and RhoA in a Gli-Independent Manner Through Coupling of Smoothened to G _i ProteinsA Presentation from the 1st International HEALING Meeting: Hh-Gli Signaling in Development, Regeneration and Disease, Kolymbari, Crete, 23 to 25 June 2011.. Science Signaling, 2011, 4, pt7.	1.6	84

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19	Role of Hedgehog Signaling in Breast Cancer: Pathogenesis and Therapeutics. Cells, 2019, 8, 375.	1.8	79
20	Hedgehog Signal Transduction: Signal Integration and Cross Talk in Development and Cancer. Cell Cycle, 2006, 5, 1612-1615.	1.3	74
21	Early mitochondrial dysfunction in electron transfer activity and reactive oxygen species generation after cardiac arrest. Critical Care Medicine, 2008, 36, S447-S453.	0.4	68
22	Smoothened Is a Fully Competent Activator of the Heterotrimeric G Protein G_i. Molecular Pharmacology, 2013, 83, 691-697.	1.0	64
23	Trop-2 is up-regulated in invasive prostate cancer and displaces FAK from focal contacts. Oncotarget, 2015, 6, 14318-14328.	0.8	58
24	Oxidation of ubiquinol by peroxynitrite: implications for protection of mitochondria against nitrosative damage. Biochemical Journal, 2000, 349, 35.	1.7	49
25	Cholesterol and its derivatives in Sonic Hedgehog signaling and cancer. Current Opinion in Pharmacology, 2012, 12, 736-741.	1.7	49
26	Neutrophil function, nitric oxide, and blood oxidative stress in Parkinson's disease. Movement Disorders, 1996, 11, 261-267.	2.2	47
27	Androgens Regulate Protein Kinase CÎ´ Transcription and Modulate Its Apoptotic Function in Prostate Cancer Cells. Cancer Research, 2006, 66, 11792-11801.	0.4	38
28	Patched-1 Proapoptotic Activity Is Downregulated by Modification of K1413 by the E3 Ubiquitin-Protein Ligase Itchy Homolog. Molecular and Cellular Biology, 2014, 34, 3855-3866.	1.1	35
29	The Prognostic Significance of the Hedgehog Signaling Pathway in Colorectal Cancer. Clinical Colorectal Cancer, 2016, 15, 116-127.	1.0	34
30	The reaction of nitric oxide with 6-hydroxydopamine: implications for Parkinsonâ€™s disease. Free Radical Biology and Medicine, 2002, 32, 115-121.	1.3	33
31	Long non-coding RNA HOTAIR induces GLI2 expression through Notch signalling in systemic sclerosis dermal fibroblasts. Arthritis Research and Therapy, 2020, 22, 286.	1.6	27
32	Cell Cycle- and Cancer-Associated Gene Networks Activated by Dsg2: Evidence of Cystatin A Deregulation and a Potential Role in Cell-Cell Adhesion. PLoS ONE, 2015, 10, e0120091.	1.1	22
33	G_i proteins mediate activation of the canonical hedgehog pathway in the myocardium. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H66-H72.	1.5	20
34	Effects of Respiratory Burst Inhibitors on Nitric Oxide Production by Human Neutrophils. Free Radical Research, 1997, 26, 325-334.	1.5	19
35	The Î± Subunit of the G Protein G13 Regulates Activity of One or More Gli Transcription Factors Independently of Smoothened. Journal of Biological Chemistry, 2011, 286, 30714-30722.	1.6	18
36	Activation of the Gi protein-RHOA axis by non-canonical Hedgehog signaling is independent of primary cilia. PLoS ONE, 2018, 13, e0203170.	1.1	17

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37	Crosstalk between Desmoglein 2 and Patched 1 accelerates chemical-induced skin tumorigenesis. Oncotarget, 2015, 6, 8593-8605.	0.8	17
38	Overexpression of Desmoglein 2 in a Mouse Model of Gorlin Syndrome Enhances Spontaneous Basal Cell Carcinoma Formation through STAT3-Mediated Gli1 Expression. Journal of Investigative Dermatology, 2019, 139, 300-307.	0.3	14
39	Coupling of Smoothened to inhibitory G proteins reduces voltage-gated K+ currents in cardiomyocytes and prolongs cardiac action potential duration. Journal of Biological Chemistry, 2018, 293, 11022-11032.	1.6	12
40	Enhancement of Cutaneous Wound Healing by Dsg2 Augmentation of uPAR Secretion. Journal of Investigative Dermatology, 2018, 138, 2470-2479.	0.3	12
41	Circulating plasma factors in Parkinsonâ€™s disease enhance nitric oxide release of normal human neutrophils. Journal of the Neurological Sciences, 1999, 165, 66-70.	0.3	11
42	Chapter 11 Purification and Bioassay of Hedgehog Ligands for the Study of Cell Death and Survival. Methods in Enzymology, 2008, 446, 189-204.	0.4	11
43	Autophagic Flux Is Regulated by Interaction Between the C-terminal Domain of PATCHED1 and ATG101. Molecular Cancer Research, 2018, 16, 909-919.	1.5	11
44	Neuronal nitric oxide synthases in brain and extraneural tissues. Methods in Enzymology, 2002, 359, 413-423.	0.4	9
45	Neuroprotection in Parkinsonâ€™s disease; a commentary. Neurotoxicity Research, 2002, 4, 141-145.	1.3	7
46	Silencing of Histone Deacetylase 6 Decreases Cellular Malignancy and Contributes to Primary Cilium Restoration, Epithelial-to-Mesenchymal Transition Reversion, and Autophagy Inhibition in Glioblastoma Cell Lines. Biology, 2021, 10, 467.	1.3	7
47	Induction of Pro-Fibrotic CLIC4 in Dermal Fibroblasts by TGF-Î²/Wnt3a Is Mediated by GLI2 Upregulation. Cells, 2022, 11, 530.	1.8	5
48	Ubiquitin-protein ligase Ubr5 cooperates with hedgehog signalling to promote skeletal tissue homeostasis. PLoS Genetics, 2021, 17, e1009275.	1.5	4
49	Overlap in signaling between Smoothened and the Î± subunit of the heterotrimeric G protein G13. PLoS ONE, 2018, 13, e0197442.	1.1	3
50	Evaluating the Activity of Smoothened Toward G Proteins Using [35S]Guanosine 5â€²-(3-O-thio)triphosphate ([35S]GTPÎ³S). Methods in Molecular Biology, 2015, 1322, 35-44.	0.4	3
51	Canonical and Non-Canonical Hedgehog Signaling Pathways: Role of G Proteins. Topics in Medicinal Chemistry, 2014, , 13-42.	0.4	2
52	Mitochondrial Function and Nitric Oxide Utilization. Biological Research, 2000, 33, 177-83.	1.5	2
53	Another twist to the GLI code. Biochemical Journal, 2020, 477, 4343-4347.	1.7	2
54	Integral Membrane Protein 2A Is a Negative Regulator of Canonical and Non-Canonical Hedgehog Signalling. Cells, 2021, 10, 2003.	1.8	1

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55	Methods for Detection of Ptc1-Driven LacZ Expression in Adult Mouse Skin. Methods in Molecular Biology, 2015, 1322, 167-185.	0.4	1
56	PKCs as Mediators of the Hedgehog and Wnt Signaling Pathways. , 2010, , 267-286.		0
57	078 Dsg2 enhances spontaneous BCC formation in Ptc1 +/âˆ' mice. Journal of Investigative Dermatology, 2016, 136, S14.	0.3	0