

# Fumio Nakamura

## List of Publications by Year in descending order

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56  
papers

4,775  
citations

172457

29  
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168389

53  
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57  
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57  
docs citations

57  
times ranked

4237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plexin-Neuropilin-1 Complexes Form Functional Semaphorin-3A Receptors. <i>Cell</i> , 1999, 99, 59-69.	28.9	757
2	Collapsin-induced growth cone collapse mediated by an intracellular protein related to UNC-33. <i>Nature</i> , 1995, 376, 509-514.	27.8	675
3	Semaphorin3A signalling is mediated via sequential Cdk5 and GSK3 $\beta$ phosphorylation of CRMP2: implication of common phosphorylating mechanism underlying axon guidance and Alzheimer's disease. <i>Genes To Cells</i> , 2005, 10, 165-179.	1.2	377
4	Fyn and Cdk5 Mediate Semaphorin-3A Signaling, Which Is Involved in Regulation of Dendrite Orientation in Cerebral Cortex. <i>Neuron</i> , 2002, 35, 907-920.	8.1	311
5	Molecular basis of semaphorin-mediated axon guidance. <i>Journal of Neurobiology</i> , 2000, 44, 219-229.	3.6	283
6	Neuropilin-1 Extracellular Domains Mediate Semaphorin D/III-Induced Growth Cone Collapse. <i>Neuron</i> , 1998, 21, 1093-1100.	8.1	264
7	Semaphorins A and E act as antagonists of neuropilin-1 and agonists of neuropilin-2 receptors. <i>Nature Neuroscience</i> , 1998, 1, 487-493.	14.8	212
8	Semaphorin3a Enhances Endocytosis at Sites of Receptor $\alpha$ -F-Actin Colocalization during Growth Cone Collapse. <i>Journal of Cell Biology</i> , 2000, 149, 411-422.	5.2	186
9	Regulation of Dendritic Branching and Spine Maturation by Semaphorin3A-Fyn Signaling. <i>Journal of Neuroscience</i> , 2006, 26, 2971-2980.	3.6	150
10	Probing the lithium-response pathway in hiPSCs implicates the phosphoregulatory set-point for a cytoskeletal modulator in bipolar pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4462-E4471.	7.1	129
11	Regulation of Spine Development by Semaphorin3A through Cyclin-Dependent Kinase 5 Phosphorylation of Collapsin Response Mediator Protein 1. <i>Journal of Neuroscience</i> , 2007, 27, 12546-12554.	3.6	105
12	Thioredoxin Mediates Oxidation-Dependent Phosphorylation of CRMP2 and Growth Cone Collapse. <i>Science Signaling</i> , 2011, 4, ra26.	3.6	103
13	Phosphorylation of CRMP2 (Collapsin Response Mediator Protein 2) Is Involved in Proper Dendritic Field Organization. <i>Journal of Neuroscience</i> , 2012, 32, 1360-1365.	3.6	88
14	Collapsin Response Mediator Protein 1 Mediates Reelin Signaling in Cortical Neuronal Migration. <i>Journal of Neuroscience</i> , 2006, 26, 13357-13362.	3.6	82
15	Correlation between Semaphorin3A-Induced Facilitation of Axonal Transport and Local Activation of a Translation Initiation Factor Eukaryotic Translation Initiation Factor 4E. <i>Journal of Neuroscience</i> , 2004, 24, 6161-6170.	3.6	69
16	Semaphorins as signals for cell repulsion and invasion. <i>Journal of Clinical Investigation</i> , 2002, 109, 993-998.	8.2	66
17	Decreased Expression of Semaphorin-3A, a Neurite-Collapsing Factor, is Associated With Itch in Psoriatic Skin. <i>Acta Dermato-Venereologica</i> , 2012, 92, 521-528.	1.3	62
18	<sc>CRMP</sc>1 and <sc>CRMP</sc>2 have synergistic but distinct roles in dendritic development. <i>Genes To Cells</i> , 2016, 21, 994-1005.	1.2	57

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19	Semaphorin3A Signaling Mediated by Fyn-dependent Tyrosine Phosphorylation of Collapsin Response Mediator Protein 2 at Tyrosine 32. <i>Journal of Biological Chemistry</i> , 2009, 284, 27393-27401.	3.4	55
20	Structural basis for CRMP2-induced axonal microtubule formation. <i>Scientific Reports</i> , 2017, 7, 10681.	3.3	50
21	Increased proximal bifurcation of CA1 pyramidal apical dendrites in <i>sema3A</i> mutant mice. <i>Journal of Comparative Neurology</i> , 2009, 516, 360-375.	1.6	47
22	Amino- and carboxyl-terminal domains of Filamin-A interact with CRMP1 to mediate Sema3A signalling. <i>Nature Communications</i> , 2014, 5, 5325.	12.8	46
23	Growth cone neuropilin-1 mediates collapsin-1/sema III facilitation of antero- and retrograde axoplasmic transport. <i>Journal of Neurobiology</i> , 1999, 39, 579-589.	3.6	44
24	Plexin-A4-dependent retrograde semaphorin 3A signalling regulates the dendritic localization of GluA2-containing AMPA receptors. <i>Nature Communications</i> , 2014, 5, 3424.	12.8	44
25	Cdk5/p35 and Rho-kinase mediate ephrin-A5-induced signaling in retinal ganglion cells. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 632-645.	2.2	43
26	Collapsin Response Mediator Proteins: Their Biological Functions and Pathophysiology in Neuronal Development and Regeneration. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 188.	3.7	42
27	Neuronal and Non-Neuronal Collapsin-1 Binding Sites in Developing Chick Are Distinct from Other Semaphorin Binding Sites. <i>Journal of Neuroscience</i> , 1997, 17, 9183-9193.	3.6	41
28	Regulation of dendritic development by semaphorin 3A through novel intracellular remote signaling. <i>Cell Adhesion and Migration</i> , 2016, 10, 627-640.	2.7	39
29	Phosphorylation of CRMP2 is involved in proper bifurcation of the apical dendrite of hippocampal CA1 pyramidal neurons. <i>Developmental Neurobiology</i> , 2013, 73, 142-151.	3.0	34
30	Comprehensive behavioral study and proteomic analyses of <i>CRMP2</i> deficient mice. <i>Genes To Cells</i> , 2016, 21, 1059-1079.	1.2	31
31	Expression of ocular albinism 1 (OA1), 3, 4- dihydroxy- L-phenylalanine (DOPA) receptor, in both neuronal and non-neuronal organs. <i>Brain Research</i> , 2015, 1602, 62-74.	2.2	27
32	Protein Tyrosine Phosphatase $\hat{\gamma}$ Mediates the Sema3A-Induced Cortical Basal Dendritic Arborization through the Activation of Fyn Tyrosine Kinase. <i>Journal of Neuroscience</i> , 2017, 37, 7125-7139.	3.6	25
33	<i>GSK3<math>\hat{\beta}</math>/Axin-1/<math>\hat{\beta}</math>-Catenin Complex Is Involved in Semaphorin3A Signaling.</i> <i>Journal of Neuroscience</i> , 2012, 32, 11905-11918.	3.6	23
34	Expression of receptor protein tyrosine phosphatase $\hat{\gamma}$ , PTP $\hat{\gamma}$ , in mouse central nervous system. <i>Brain Research</i> , 2016, 1642, 244-254.	2.2	23
35	GAP-43 Augmentation of G Protein-Mediated Signal Transduction Is Regulated by Both Phosphorylation and Palmitoylation. <i>Journal of Neurochemistry</i> , 2002, 70, 983-992.	3.9	20
36	Proteome and behavioral alterations in phosphorylation-deficient mutant Collapsin Response Mediator Protein2 knock-in mice. <i>Neurochemistry International</i> , 2018, 119, 207-217.	3.8	18

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37	L-DOPA sensitizes vasomotor tone by modulating the vascular alpha1-adrenergic receptor. JCI Insight, 2017, 2, .	5.0	17
38	Label-free and spectral-analysis-free detection of neuropsychiatric disease biomarkers using an ion-sensitive GalnAsP nanolaser biosensor. Biosensors and Bioelectronics, 2018, 117, 161-167.	10.1	16
39	Reduction in flippase activity contributes to surface presentation of phosphatidylserine in human senescent erythrocytes. Journal of Cellular and Molecular Medicine, 2020, 24, 13991-14000.	3.6	14
40	A functional coupling between CRMP1 and Nav1.7 for retrograde propagation of Semaphorin3A signaling. Journal of Cell Science, 2017, 130, 1393-1403.	2.0	13
41	Network-guided analysis of hippocampal proteome identifies novel proteins that colocalize with A $\beta$ in a mice model of early-stage Alzheimer's disease. Neurobiology of Disease, 2019, 132, 104603.	4.4	13
42	Protein tyrosine phosphatase SHP2 is involved in Semaphorin 4D-induced axon repulsion. Biochemical and Biophysical Research Communications, 2009, 385, 6-10.	2.1	11
43	CRMP1 and CRMP4 are required for proper orientation of dendrites of cerebral pyramidal neurons in the developing mouse brain. Brain Research, 2017, 1655, 161-167.	2.2	11
44	Phosphorylation of Collapsin Response Mediator Protein 1 (CRMP1) at Tyrosine 504 residue regulates Semaphorin 3A-induced cortical dendritic growth. Journal of Neurochemistry, 2021, 157, 1207-1221.	3.9	10
45	Localization of ocular albinism-1 gene product GPR143 in the rat central nervous system. Neuroscience Research, 2014, 88, 49-57.	1.9	9
46	Semaphorin3A-induced axonal transport mediated through phosphorylation of Axin-1 by GSK3 $\beta$ . Brain Research, 2015, 1598, 46-56.	2.2	7
47	ATP11C T418N, a gene mutation causing congenital hemolytic anemia, reduces flippase activity due to improper membrane trafficking. Biochemical and Biophysical Research Communications, 2019, 516, 705-712.	2.1	5
48	Right ventricular overloading is attenuated in monocrotaline-induced pulmonary hypertension model rats with a disrupted Gpr143 gene, the gene that encodes the 3,4-L-dihydroxyphenylalanine (L-DOPA) receptor. Journal of Pharmacological Sciences, 2021, 148, 214-220.	2.5	4
49	One-step visualization of natural cell activities in non-labeled living spheroids. Scientific Reports, 2022, 12, 1500.	3.3	3
50	Inhibition of Crmp1 Phosphorylation at Ser522 Ameliorates Motor Function and Neuronal Pathology in Amyotrophic Lateral Sclerosis Model Mice. ENeuro, 2022, 9, ENEURO.0133-22.2022.	1.9	3
51	Label- and spectral-analysis-free detection of neuropsychiatric disease biomarker using ion-sensitive nanolaser. , 2017, , .		2
52	Immunoreactivity of a G protein-coupled L-DOPA receptor GPR143, in Lewy bodies. Neuroscience Research, 2019, 148, 49-53.	1.9	2
53	Distribution of mRNA for GPR143, a receptor of 3,4-L-dihydroxyphenylalanine, and of immunoreactivities for nicotinic acetylcholine receptors in the nigrostriatal and mesolimbic regions. Neuroscience Research, 2021, 170, 370-375.	1.9	2
54	Low Incidence of High-Grade Pancreatic Intraepithelial Neoplasia Lesions in a Crmp4 Gene-Deficient Mouse Model of Pancreatic Cancer. Translational Oncology, 2020, 13, 100746.	3.7	2

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55	Growth cone neuropilin-1 mediates collapsin-1/sema III facilitation of antero- and retrograde axoplasmic transport. , 1999, 39, 579.		2
56	Immunoreactive signals of GPR143 in the ventral tegmental area, substantia nigra and their trajectories. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO3-1-110.	0.0	0