Naoyuki Inagaki

List of Publications by Year
in descending order

99 papers	7,830 citations	61857 43 h-index	54797 84 g-index
103 all docs	103 docs citations	103 times ranked	7120 citing authors

#	Article	IF	Citations
1	Biochemical and Cellular Effects of Roscovitine, a Potent and Selective Inhibitor of the Cyclin-Dependent Kinases cdc2, cdk2 and cdk5. FEBS Journal, 1997, 243, 527-536.	0.2	1,215
2	CRMP-2 binds to tubulin heterodimers to promote microtubule assembly. Nature Cell Biology, 2002, 4, 583-591.	4.6	687
3	CRMP-2 induces axons in cultured hippocampal neurons. Nature Neuroscience, 2001, 4, 781-782.	7.1	506
4	Organization of histaminergic fibers in the rat brain. Journal of Comparative Neurology, 1988, 273, 283-300.	0.9	363
5	Is the histaminergic neuron system a regulatory center for whole-brain activity?. Trends in Neurosciences, 1991, 14, 415-418.	4.2	353
6	Phosphorylation of Collapsin Response Mediator Protein-2 by Rho-kinase. Journal of Biological Chemistry, 2000, 275, 23973-23980.	1.6	296
7	Phospholipase C-Î³ and Phosphoinositide 3-Kinase Mediate Cytoplasmic Signaling in Nerve Growth Cone Guidance. Neuron, 1999, 23, 139-148.	3.8	264
8	BDNF and NT-3 induce intracellular Ca2+ elevation in hippocampal neurones. NeuroReport, 1993, 4, 1303-1306.	0.6	196
9	Dynamic property of intermediate filaments: Regulation by phosphorylation. BioEssays, 1996, 18, 481-487.	1.2	178
10	Circadian rhythm of histamine release from the hypothalamus of freely moving rats. Physiology and Behavior, 1992, 51, 391-394.	1.0	159
11	Roles of Rho-associated Kinase in Cytokinesis; Mutations in Rho-associated Kinase Phosphorylation Sites Impair Cytokinetic Segregation of Glial Filaments. Journal of Cell Biology, 1998, 143, 1249-1258.	2.3	159
12	Glial Fibrillary Acidic Protein: Dynamic Property and Regulation by Phosphorylation. Brain Pathology, 1994, 4, 239-243.	2.1	137
13	Shootin1: a protein involved in the organization of an asymmetric signal for neuronal polarization. Journal of Cell Biology, 2006, 175, 147-157.	2.3	135
14	In vivo release of neuronal histamine in the hypothalamus of rats measured by microdialysis. Naunyn-Schmiedeberg's Archives of Pharmacology, 1991, 343, 190-195.	1.4	133
15	Characterization of TrkB Receptorâ€Mediated Signaling Pathways in Rat Cerebellar Granule Neurons: Involvement of Protein Kinase C in Neuronal Survival. Journal of Neurochemistry, 1995, 65, 2241-2250.	2.1	131
16	Shootin1 interacts with actin retrograde flow and L1-CAM to promote axon outgrowth. Journal of Cell Biology, 2008, 181, 817-829.	2.3	115
17	An analysis of histaminergic efferents of the tuberomammillary nucleus to the medial preoptic area and inferior colliculus of the rat. Experimental Brain Research, 1990, 80, 374-80.	0.7	113
18	Actin Waves: Origin of Cell Polarization and Migration?. Trends in Cell Biology, 2017, 27, 515-526.	3.6	112

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19	Visualization of mitotic radial glial lineage cells in the developing rat brain by Cdc2 kinase-phosphorylated vimentin. , 1998, 23, 191-199.		102
20	Direct interaction of insulin-like growth factor-1 receptor with leukemia-associated RhoGEF. Journal of Cell Biology, 2001, 155, 809-820.	2.3	101
21	Spatiotemporal distribution of protein kinase and phosphatase activities. Trends in Biochemical Sciences, 1994, 19, 448-452.	3.7	94
22	Regulated secretion of neurotrophins by metabotropic glutamate group I (mGluRI) and Trk receptor activation is mediated via phospholipase C signalling pathways. EMBO Journal, 2001, 20, 1640-1650.	3.5	91
23	Conversion of a Signal into Forces for Axon Outgrowth through Pak1-Mediated Shootin1 Phosphorylation. Current Biology, 2013, 23, 529-534.	1.8	89
24	Histaminergic neuron system in the brain: Distribution and possible functions. Brain Research Bulletin, 1991, 27, 367-370.	1.4	85
25	Collapsin response mediator protein-2 accelerates axon regeneration of nerve-injured motor neurons of rat. Journal of Neurochemistry, 2003, 86, 1042-1050.	2.1	76
26	Structural basis of cargo recognition by the myosin-X MyTH4-FERM domain. EMBO Journal, 2011, 30, 2734-2747.	3.5	75
27	Differential targeting of protein kinase C and CaM kinase II signalings to vimentin.. Journal of Cell Biology, 1995, 131, 1055-1066.	2.3	73
28	A diffusionâ€based neurite lengthâ€sensing mechanism involved in neuronal symmetry breaking. Molecular Systems Biology, 2010, 6, 394.	3.2	73
29	Actin Migration Driven by Directional Assembly and Disassembly of Membrane-Anchored Actin Filaments. Cell Reports, 2015, 12, 648-660.	2.9	68
30	The histaminergic innervation of the mesencephalic nucleus of the trigeminal nerve in rat brain: a light and electron microscopical study. Brain Research, 1987, 418, 388-391.	1.1	67
31	Interaction of Smooth Muscle Myosin Phosphatase with Phospholipids. Biochemistry, 1997, 36, 7607-7614.	1.2	64
32	Domain-Specific Phosphorylation of Vimentin and Glial Fibrillary Acidic Protein by PKN. Biochemical and Biophysical Research Communications, 1997, 234, 621-625.	1.0	62
33	Single type-2 astrocytes show multiple independent sites of Ca2+ signaling in response to histamine.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 4215-4219.	3.3	61
34	Shootin1â€“cortactin interaction mediates signalâ€“force transduction for axon outgrowth. Journal of Cell Biology, 2015, 210, 663-676.	2.3	61
35	Singar1, a Novel RUN Domain-containing Protein, Suppresses Formation of Surplus Axons for Neuronal Polarity. Journal of Biological Chemistry, 2007, 282, 19884-19893.	1.6	60
36	Histamine and prostanoid receptors on glial cells. Glia, 1994, 11, 102-109.	2.5	57

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37	Phosphorylation-Dependent Control of Structures of Intermediate Filaments: A Novel Approach Using Site- and Phosphorylation State-Specific Antibodies. Journal of Biochemistry, 1997, 121, 407-414.	0.9	54
38	Rab33a Mediates Anterograde Vesicular Transport for Membrane Exocytosis and Axon Outgrowth. Journal of Neuroscience, 2012, 32, 12712-12725.	1.7	50
39	Characterization of histamine H1-receptors on astrocytes in primary culture: [3H]mepyramine binding studies. European Journal of Pharmacology, 1989, 173, 43-51.	1.7	48
40	Type-2 astrocytes show intracellular Ca2+ elevation in response to various neuroactive substances. Neuroscience Letters, 1991, 128, 257-260.	1.0	47
41	Proteomics analysis of the temporal changes in axonal proteins during maturation. Developmental Neurobiology, 2010, 70, 523-537.	1.5	47
42	TrkA Tyrosine Residues Involved in NGF-induced Neurite Outgrowth of PC12 Cells. European Journal of Neuroscience, 1995, 7, 1125-1133.	1.2	45
43	Detection of protein kinase activity specifically activated at metaphase-anaphase transition.. Journal of Cell Biology, 1996, 132, 635-641.	2.3	45
44	Acid-labile surfactant improves in-sodium dodecyl sulfate polyacrylamide gel protein digestion for matrix-assisted laser desorption/ionization mass spectrometric peptide mapping. Journal of Mass Spectrometry, 2004, 39, 202-207.	0.7	45
45	Spatial Patterns of Ca2+ Signals Define Intracellular Distribution of a Signaling by Ca2+/Calmodulin-dependent Protein Kinase II. Journal of Biological Chemistry, 1997, 272, 25195-25199.	1.6	41
46	Proteomic identification of a novel isoform of collapsin response mediator protein-2 in spinal nerves peripheral to dorsal root ganglia. Proteomics, 2006, 6, 6085-6094.	1.3	41
47	Systems biology of symmetry breaking during neuronal polarity formation. Developmental Neurobiology, 2011, 71, 584-593.	1.5	40
48	Histamine-containing nerve fibers innervate human cerebellum. Neuroscience Letters, 1993, 160, 53-56.	1.0	39
49	Organization of the histaminergic system in the brain of the teleost,Trachurus trachurus. Journal of Comparative Neurology, 1991, 310, 94-102.	0.9	37
50	Shootin1b Mediates a Mechanical Clutch to Produce Force for Neuronal Migration. Cell Reports, 2018, 25, 624-639.e6.	2.9	36
51	Type-1 and type-2 astrocytes are distinct targets for prostaglandins D2, E2, and F2?. Glia, 1992, 6, 67-74.	2.5	35
52	Proteome analysis of rat hippocampal neurons by multiple large gel two-dimensional electrophoresis. Proteomics, 2002, 2, 666-672.	1.3	35
53	Grip and slip of L1-CAM on adhesive substrates direct growth cone haptotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2764-2769.	3.3	34
54	Gradient-reading and mechano-effector machinery for netrin-1-induced axon guidance. ELife, 2018, 7, .	2.8	32

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55	Organization of the histaminergic system in the brain of the turtleChinemys reevesii. Journal of Comparative Neurology, 1990, 297, 132-144.	0.9	30
56	Myosin Binding Subunit of Smooth Muscle Myosin Phosphatase at the Cell-Cell Adhesion Sites in MDCK Cells. Biochemical and Biophysical Research Communications, 1997, 230, 552-556.	1.0	29
57	Activation of Ca2+/Calmodulin-dependent Protein Kinase II within Post-synaptic Dendritic Spines of Cultured Hippocampal Neurons. Journal of Biological Chemistry, 2000, 275, 27165-27171.	1.6	29
58	Histaminergic nerve fibers in the median eminence and hypophysis of rats demonstrated immunocytochemically with antibodies against histidine decarboxylase and histamine. Brain Research, 1988, 439, 402-405.	1.1	27
59	Dynamic changes in the leaf proteome of a C3 xerophyte, Citrullus lanatus (wild watermelon), in response to water deficit. Planta, 2011, 233, 947-960.	1.6	25
60	Immunocytochemical localizations of cytosolic and mitochondrial glutamic oxaloacetic transaminase isozymes in rat primary sensory neurons as a marker for the glutamate neuronal system. Brain Research, 1987, 402, 197-200.	1.1	24
61	Immunocytochemical localizations of cytosolic and mitochondrial glutamic oxaloacetic transaminase isozymes in rat retina as markers for the glutamate-aspartate neuronal system. Brain Research, 1985, 325, 336-339.	1.1	23
62	Visualization of protein kinase activities in single cells by antibodies against phosphorylated vimentin and GFAP. Neurochemical Research, 1996, 21, 795-800.	1.6	22
63	Histamine-induced inositol phosphate accumulation in type-2 astrocytes. Biochemical and Biophysical Research Communications, 1991, 177, 734-738.	1.0	20
64	Large Gel Two-Dimensional Electrophoresis: Improving Recovery of Cellular Proteome. Current Proteomics, 2004, 1, 35-39.	0.1	19
65	Forces to Drive Neuronal Migration Steps. Frontiers in Cell and Developmental Biology, 2020, 8, 863.	1.8	18
66	Histamine-induced cyclic AMP accumulation in type-1 and type-2 astrocytes in primary culture. European Journal of Pharmacology, 1991, 208, 249-253.	2.7	16
67	Preferential Localization of Rat GAPDS on the Ribs of Fibrous Sheath of Sperm Flagellum and Its Expression during Flagellar Formation. Acta Histochemica Et Cytochemica, 2007, 40, 19-26.	0.8	16
68	Activation of Ca2+/calmodulin-dependent Protein Kinase II within Post-synaptic Dendritic Spines of Cultured Hippocampal Neurons. Journal of Biological Chemistry, 2000, 275, 27165-71.	1.6	15
69	Identification of a shootin1 isoform expressed in peripheral tissues. Cell and Tissue Research, 2016, 366, 75-87.	1.5	15
70	Histamine H1-Receptors on Astrocytes in Primary Cultures: A Possible Target for Histaminergic Neurones. , 1991, 33, 161-180.		15
71	Vimentin-Ser82 as a memory phosphorylation site in astrocytes. Genes To Cells, 2006, 11, 531-540.	0.5	14
72	Formation of inositol phosphates mediated by M3 muscarinic receptors in type-1 and type-2 astrocytes from neonatal rat cerebral cortex. Neuroscience Letters, 1994, 180, 131-134.	1.0	12

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73	Shootin1a-mediated actin-adhesion coupling generates force to trigger structural plasticity of dendritic spines. Cell Reports, 2021, 35, 109130.	2.9	12
74	Mechanosensitive axon outgrowth mediated by L1-laminin clutch interface. Biophysical Journal, 2021, 120, 3566-3576.	0.2	12
75	Regional distribution of histamine in the brain of non-mammalian vertebrates. Brain Research, 1992, 571, 129-132.	1.1	10
76	An influenza-derived membrane tension-modulating peptide regulates cell movement and morphology via actin remodeling. Communications Biology, 2019, 2, 243.	2.0	10
77	Rab33a and Rab33ba mediate the outgrowth of forebrain commissural axons in the zebrafish brain. Scientific Reports, 2019, 9, 1799.	1.6	10
78	An Artificial Amphiphilic Peptide Promotes Endocytic Uptake by Inducing Membrane Curvature. Bioconjugate Chemistry, 2020, 31, 1611-1615.	1.8	9
79	Mechanical regulation of synapse formation and plasticity. Seminars in Cell and Developmental Biology, 2023, 140, 82-89.	2.3	9
80	Ceramic Coating of Liposomal Gene Carrier for Minimizing Toxicity to Primary Hippocampal Neurons. Chemistry Letters, 2013, 42, 1265-1267.	0.7	7
81	Visualization and regulation of intermediate filament kinase activities. Seminars in Cell and Developmental Biology, 1996, 7, 741-749.	2.3	6
82	Shootins mediate collective cell migration and organogenesis of the zebrafish posterior lateral line system. Scientific Reports, 2019, 9, 12156.	1.6	6
83	Analyses of Actin Dynamics, Clutch Coupling and Traction Force for Growth Cone Advance. Journal of Visualized Experiments, 2021, , .	0.2	4
84	Neuromodulators in the retina: An immunohistochemical analysis. Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society, 1987, 6, S205-S225.	0.0	1
85	Primary Structure of Light and Heavy Chain Variable Regions of Antibodies Recognizing Phosphorylated Vimentins. Biochemical and Biophysical Research Communications, 1996, 219, 633-637.	1.0	1
86	CRMP-2 binds to tubulin heterodimers to promote microtubule assembly. , 0, .		1
87	Simultaneous analyses of clutch coupling and actin polymerization in dendritic spines of rodent hippocampal neurons during chemical LTP. STAR Protocols, 2021, 2, 100904.	0.5	1
88	Structure of Monoaminergic Neuron Systems in the Brain. Journal of Nutritional Science and Vitaminology, 1992, 38, 569-572.	0.2	0
89	Shootin1 interacts with actin retrograde flow and L1-CAM to promote axon outgrowth. Neuroscience Research, 2009, 65, S45.	1.0	0
90	Multimodal feedback control for neuronal morphological polarization. Neuroscience Research, 2010, 68, e363.	1.0	0

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91	Shootin2: A candidate for a clutch molecule involved in the migration of ganglionic eminence-derived inhibitory neurons. Neuroscience Research, 2010, 68, e360.	1.0	0
92	Functional analysis of shootin2 in the formation and extension of the leading process of cultured inhibitory neurons derived from the ganglionic eminence. Neuroscience Research, 2011, 71, e232.	1.0	0
93	Efficient Solid-phase Gene Delivery Mediated by Cerasome: Effect of Reverse Procedure on Transfection Performances in Comparison with Solution-based Method. Chemistry Letters, 2015, 44, 1643-1645.	0.7	0
94	Bayesian Cell Force Estimation Considering Force Directions. Neural Processing Letters, 2015, 41, 191-200.	2.0	0
95	Bayesian Cell Force Estimation Introducing Cell Shape Prior. Biophysical Journal, 2020, 118, 459a.	0.2	0
96	Proteomics-based analyses of the mechanisms for neuronal symmetry breaking. Seibutsu Butsuri Kagaku, 2012, 56, 31-34.	0.1	0
97	An Estimation of Cell Forces with Hierarchical Bayes Approach Considering Cell Morphology. Lecture Notes in Computer Science, 2012, , 501-508.	1.0	0
98	Large gel proteomics-based analyses of the mechanisms for neuronal axon formation and guidance. Seibutsu Butsuri Kagaku, 2014, 58, 49-52.	0.1	0
99	Quantitative Modeling of Neuronal Polarization. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 354-361.	0.2	0