Masato Nakafuku

List of Publications by Year
in descending order

65 papers	10,798 citations	53794 45 h-index	118850 62 g-index
66 all docs	66 docs citations	66 times ranked	10652 citing authors

#	Article	IF	Citations
1	Olig2 defines a subset of neural stem cells that produce specific olfactory bulb interneuron subtypes in the subventricular zone of adult mice. Development (Cambridge), 2022, 149, .	2.5	7
2	Conserved Gsx2/Ind homeodomain monomer versus homodimer DNA binding defines regulatory outcomes in flies and mice. Genes and Development, 2021, 35, 157-174.	5.9	17
3	Developmental dynamics of neurogenesis and gliogenesis in the postnatal mammalian brain in health and disease: Historical and future perspectives. Wiley Interdisciplinary Reviews: Developmental Biology, 2020, 9, e369.	5.9	16
4	Physical interactions between Gsx2 and Ascl1 balance progenitor expansion versus neurogenesis in the mouse lateral ganglionic eminence. Development (Cambridge), 2020, 147, .	2.5	14
5	Neurogenesis in the damaged mammalian brain. , 2020, , 523-597.		1
6	Gsx transcription factors control neuronal versus glial specification in ventricular zone progenitors of the mouse lateral ganglionic eminence. Developmental Biology, 2018, 442, 115-126.	2.0	33
7	Neurogenesis in the Developing and Adult Brainâ€"Similarities and Key Differences. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018853.	5.5	120
8	Characterization of a new <i>Gsx2</i>â€<i>cre</i> line in the developing mouse telencephalon. Genesis, 2016, 54, 542-549.	1.6	15
9	<i>In Vivo</i>Reprogramming for Brain and Spinal Cord Repair. ENeuro, 2015, 2, ENEURO.0106-15.2015.	1.9	38
10	Transgenic expression of the proneural transcription factor Ascl1 in MÃ¼ller glia stimulates retinal regeneration in young mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13717-13722.	7.1	220
11	The Protein Tyrosine Phosphatase Shp2 Is Required for the Generation of Oligodendrocyte Progenitor Cells and Myelination in the Mouse Telencephalon. Journal of Neuroscience, 2014, 34, 3767-3778.	3.6	40
12	A Transcriptional Mechanism Integrating Inputs from Extracellular Signals to Activate Hippocampal Stem Cells. Neuron, 2014, 83, 1085-1097.	8.1	190
13	Environmental impact on direct neuronal reprogramming in vivo in the adult brain. Nature Communications, 2013, 4, 2373.	12.8	206
14	Ciliary Neurotrophic Factor Receptor Regulation of Adult Forebrain Neurogenesis. Journal of Neuroscience, 2013, 33, 1241-1258.	3.6	15
15	Ascl1/Mash1 Promotes Brain Oligodendrogenesis during Myelination and Remyelination. Journal of Neuroscience, 2013, 33, 9752-9768.	3.6	116
16	The homeobox gene <i>Gsx2</i> controls the timing of oligodendroglial fate specification in mouse lateral ganglionic eminence progenitors. Development (Cambridge), 2013, 140, 2289-2298.	2.5	54
17	Gsx2 controls region-specific activation of neural stem cells and injury-induced neurogenesis in the adult subventricular zone. Genes and Development, 2013, 27, 1272-1287.	5.9	84
18	<i>Ex Vivo</i> Diffusion Tensor Imaging and Neuropathological Correlation in a Murine Model of Hypoxiaâ€"Ischemia-Induced Thrombotic Stroke. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1155-1169.	4.3	61

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19	Homeobox genes Gsx1 and Gsx2 differentially regulate telencephalic progenitor maturation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1675-1680.	7.1	72
20	The Wnt receptor Ryk controls specification of GABAergic neurons versus oligodendrocytes during telencephalon development. Development (Cambridge), 2011, 138, 409-419.	2.5	38
21	Coordinated control of self-renewal and differentiation of neural stem cells by Myc and the p19ARFâ€"p53 pathway. Journal of Cell Biology, 2009, 184, 335-335.	5.2	0
22	Revisiting neural stem cell identity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 829-830.	7.1	19
23	Ascl1 is required for oligodendrocyte development in the spinal cord. Development (Cambridge), 2008, 135, 1271-1281.	2.5	92
24	Coordinated control of self-renewal and differentiation of neural stem cells by Myc and the p19ARFâ€"p53 pathway. Journal of Cell Biology, 2008, 183, 1243-1257.	5.2	64
25	The Proneural Gene Mash1 Specifies an Early Population of Telencephalic Oligodendrocytes. Journal of Neuroscience, 2007, 27, 4233-4242.	3.6	179
26	Cross Talk between Notch and Growth Factor/Cytokine Signaling Pathways in Neural Stem Cells. Molecular and Cellular Biology, 2007, 27, 3982-3994.	2.3	102
27	Combinatorial actions of patterning and HLH transcription factors in the spatiotemporal control of neurogenesis and gliogenesis in the developing spinal cord. Development (Cambridge), 2007, 134, 1617-1629.	2.5	170
28	Control of neurogenesis and tyrosine hydroxylase expression in neural progenitor cells through bHLH proteins and Nurr1. Experimental Neurology, 2007, 203, 394-405.	4.1	70
29	Cdc42 deficiency causes Sonic hedgehog-independent holoprosencephaly. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16520-16525.	7.1	114
30	Notch1 Signaling Regulates Radial Glia Differentiation through Multiple Transcriptional Mechanisms. Journal of Neuroscience, 2006, 26, 3102-3108.	3.6	52
31	Growth Factor Treatment and Genetic Manipulation Stimulate Neurogenesis and Oligodendrogenesis by Endogenous Neural Progenitors in the Injured Adult Spinal Cord. Journal of Neuroscience, 2006, 26, 11948-11960.	3.6	191
32	Gsh2 is required for the repression of Ngn1 and specification of dorsal interneuron fate in the spinal cord. Development (Cambridge), 2005, 132, 2991-3002.	2.5	48
33	The Pax6 isoform bearing an alternative spliced exon promotes the development of the neural retinal structure. Human Molecular Genetics, 2005, 14, 735-745.	2.9	58
34	Transdifferentiation of the retinal pigment epithelia to the neural retina by transfer of the Pax6 transcriptional factor. Human Molecular Genetics, 2005, 14, 1059-1068.	2.9	61
35	Hes binding to STAT3 mediates crosstalk between Notch and JAKâ€"STAT signalling. Nature Cell Biology, 2004, 6, 547-554.	10.3	375
36	Mash1 specifies neurons and oligodendrocytes in the postnatal brain. EMBO Journal, 2004, 23, 4495-4505.	7.8	341

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37	Notch promotes survival of neural precursor cells via mechanisms distinct from those regulating neurogenesis. Developmental Biology, 2004, 276, 172-184.	2.0	78
38	Differential activities of Sonic hedgehog mediated by Gli transcription factors define distinct neuronal subtypes in the dorsal thalamus. Mechanisms of Development, 2003, 120, 1097-1111.	1.7	111
39	F3/Contactin Acts as a Functional Ligand for Notch during Oligodendrocyte Maturation. Cell, 2003, 115, 163-175.	28.9	332
40	Regeneration of Hippocampal Pyramidal Neurons after Ischemic Brain Injury by Recruitment of Endogenous Neural Progenitors. Cell, 2002, 110, 429-441.	28.9	1,391
41	Cell-type-specific expression of protein tyrosine kinase-related receptor RYK in the central nervous system of the rat. Molecular Brain Research, 2002, 104, 255-266.	2.3	7
42	Glial cells generate neurons: the role of the transcription factor Pax6. Nature Neuroscience, 2002, 5, 308-315.	14.8	701
43	Early subdivisions in the neural plate define distinct competence for inductive signals. Development (Cambridge), 2002, 129, 83-93.	2.5	200
44	Dual origin of spinal oligodendrocyte progenitors and evidence for the cooperative role of<i>Olig2</i>and<i>Nkx2.2</i>in the control of oligodendrocyte differentiation. Development (Cambridge), 2002, 129, 681-693.	2.5	184
45	Identification of Sonic Hedgehog-Responsive Genes Using cDNA Microarray. Biochemical and Biophysical Research Communications, 2001, 289, 472-478.	2.1	29
46	Proliferation of Parenchymal Neural Progenitors in Response to Injury in the Adult Rat Spinal Cord. Experimental Neurology, 2001, 172, 115-127.	4.1	228
47	Combinatorial Roles of Olig2 and Neurogenin2 in the Coordinated Induction of Pan-Neuronal and Subtype-Specific Properties of Motoneurons. Neuron, 2001, 31, 757-771.	8.1	399
48	Transcription Factor Expression and Notch-Dependent Regulation of Neural Progenitors in the Adult Rat Spinal Cord. Journal of Neuroscience, 2001, 21, 9814-9823.	3.6	235
49	The Neural RNA-Binding Protein Musashi1 Translationally Regulates Mammalian numb Gene Expression by Interacting with Its mRNA. Molecular and Cellular Biology, 2001, 21, 3888-3900.	2.3	433
50	Role of Deltex-1 as a Transcriptional Regulator Downstream of the Notch Receptor. Journal of Biological Chemistry, 2001, 276, 45031-45040.	3.4	169
51	Dynamic expression of basic helix-loop-helix Olig family members: implication of Olig2 in neuron and oligodendrocyte differentiation and identification of a new member, Olig3. Mechanisms of Development, 2000, 99, 143-148.	1.7	346
52	Sonic Hedgehog-induced Activation of the Gli1Promoter Is Mediated by GLI3. Journal of Biological Chemistry, 1999, 274, 8143-8152.	3.4	466
53	Mesodermal- vs. neuronal-specific expression of MafK is elicited by different promoters. Genes To Cells, 1996, 1, 223-238.	1.2	40
54	Identification of AF-6 and Canoe as Putative Targets for Ras. Journal of Biological Chemistry, 1996, 271, 607-610.	3.4	190

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55	Identification of IQGAP as a Putative Target for the Small GTPases, Cdc42 and Rac1. Journal of Biological Chemistry, 1996, 271, 23363-23367.	3.4	290
56	Biosynthesis and Expression of Polysialic Acid on the Neural Cell Adhesion Molecule Is Predominantly Directed by ST8Sia II/STX during in Vitro Neuronal Differentiation. Journal of Biological Chemistry, 1996, 271, 22058-22062.	3.4	53
57	Establishment and characterization of a multipotential neural cell line that can conditionally generate neurons, astrocytes, and oligodendrocytes in vitro. Journal of Neuroscience Research, 1995, 41, 153-168.	2.9	57
58	A Novel GTPase-activating Protein for R-Ras. Journal of Biological Chemistry, 1995, 270, 30557-30561.	3.4	62
59	Inhibition of Ras/Raf Interaction by Anti-oncogenic Mutants of Neurofibromin, the Neurofibromatosis Type 1 (NF1) Gene Product, in Cell-free Systems. Journal of Biological Chemistry, 1995, 270, 28834-28838.	3.4	8
60	Epidermal growth factor and transforming growth factor-Î± can induce neuronal differentiation of rat pheochromocytoma PC 12 cells under particular culture conditions. FEBS Letters, 1993, 315, 227-232.	2.8	28
61	Structure and Function of Signal-Transducing GTP-Binding Proteins. Annual Review of Biochemistry, 1991, 60, 349-400.	11.1	659
62	S. cerevisiae genes IRA1 and IRA2 encode proteins that may be functionally equivalent to mammalian ras GTPase activating protein. Cell, 1990, 60, 803-807.	28.9	346
63	Organization of Genes Coding for G-Protein Î± Subunits in Higher and Lower Eukaryotes. , 1990, , 63-80.		2
64	Studies on ras proteins. Catalytic properties of normal and activated ras proteins purified in the absence of protein denaturants. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1988, 949, 97-109.	2.4	61
65	GPA1, a haploid-specific essential gene, encodes a yeast homolog of mammalian G protein which may be involved in mating factor signal transduction. Cell, 1987, 50, 1011-1019.	28.9	400