Isao Matsuo

List of Publications by Year
in descending order

45 papers	3,782 citations	136950 32 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	4668 citing authors

#	Article	IF	Citations
1	Otx2 homeobox gene controls retinal photoreceptor cell fate and pineal gland development. Nature Neuroscience, 2003, 6, 1255-1263.	14.8	521
2	Experience-Dependent Transfer of Otx2 Homeoprotein into the Visual Cortex Activates Postnatal Plasticity. Cell, 2008, 134, 508-520.	28.9	437
3	Visceral Endoderm Mediates Forebrain Development by Suppressing Posteriorizing Signals. Developmental Biology, 2000, 225, 304-321.	2.0	203
4	Functional Roles of Otx2 Transcription Factor in Postnatal Mouse Retinal Development. Molecular and Cellular Biology, 2007, 27, 8318-8329.	2.3	181
5	Possible involvement of SINEs in mammalian-specific brain formation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4220-4225.	7.1	177
6	Canonical Wnt Signaling and Its Antagonist Regulate Anterior-Posterior Axis Polarization by Guiding Cell Migration in Mouse Visceral Endoderm. Developmental Cell, 2005, 9, 639-650.	7.0	163
7	External Mechanical Cues Trigger the Establishment of the Anterior-Posterior Axis in Early Mouse Embryos. Developmental Cell, 2013, 27, 131-144.	7.0	125
8	Competition for Mitogens Regulates Spermatogenic Stem Cell Homeostasis in an Open Niche. Cell Stem Cell, 2019, 24, 79-92.e6.	11.1	105
9	Developmental patterning and evolution of the mammalian viscerocranium: Genetic insights into comparative morphology. , 1997, 209, 139-155.		99
10	Cell Surface Heparan Sulfate Chains Regulate Local Reception of FGF Signaling in the Mouse Embryo. Developmental Cell, 2011, 21, 257-272.	7.0	99
11	Cooperation between Otx1 and Otx2 genes in developmental patterning of rostral brain. Mechanisms of Development, 1997, 69, 125-141.	1.7	95
12	Regulation of Otx2 expression and its functions in mouse forebrain and midbrain. Development (Cambridge), 2004, 131, 3319-3331.	2.5	91
13	Dosage-dependent hedgehog signals integrated with Wnt/Î²-catenin signaling regulate external genitalia formation as an appendicular program. Development (Cambridge), 2009, 136, 3969-3978.	2.5	88
14	Extracellular modulation of Fibroblast Growth Factor signaling through heparan sulfate proteoglycans in mammalian development. Current Opinion in Genetics and Development, 2013, 23, 399-407.	3.3	84
15	Dkk3â€Cre BAC transgenic mouse line: a tool for highly efficient gene deletion in retinal progenitor cells. Genesis, 2007, 45, 502-507.	1.6	79
16	FGF signaling directs a center-to-pole expansion of tubulogenesis in mouse testis differentiation. Development (Cambridge), 2010, 137, 303-312.	2.5	79
17	Extracellular distribution of diffusible growth factors controlled by heparan sulfate proteoglycans during mammalian embryogenesis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130545.	4.0	76
18	Transcriptional regulatory networks in epiblast cells and during anterior neural plate development as modeled in epiblast stem cells. Development (Cambridge), 2012, 139, 3926-3937.	2.5	75

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19	Characterization of the pufferfish Otx2 cis-regulators reveals evolutionarily conserved genetic mechanisms for vertebrate head specification. Development (Cambridge), 2004, 131, 57-71.	2.5	74
20	Making very similar embryos with divergent genomes: conservation of regulatory mechanisms of Otx between the ascidians Halocynthia roretzi and Ciona intestinalis. Development (Cambridge), 2005, 132, 1663-1674.	2.5	73
21	Complementary Functions of Otx2 and Cripto in Initial Patterning of Mouse Epiblast. Developmental Biology, 2001, 235, 12-32.	2.0	70
22	Genetic modifiers of otocephalic phenotypes in<i>Otx2</i>heterozygous mutant mice. Development (Cambridge), 2002, 129, 4347-4357.	2.5	69
23	Regulation of Otx2 expression and its functions in mouse epiblast and anterior neuroectoderm. Development (Cambridge), 2004, 131, 3307-3317.	2.5	67
24	The cooperative interaction between two motifis of an enhancer element of the chicken Î±A-crystallin gene, Î±CE1 and Î±CE2, confers lens-specific expression. Nucleic Acids Research, 1992, 20, 3701-3712.	14.5	66
25	Otx2 Is Required to Respond to Signals from Anterior Neural Ridge for Forebrain Specification. Developmental Biology, 2002, 242, 204-223.	2.0	58
26	Otx1 function overlaps with Otx2 in development of mouse forebrain and midbrain. Genes To Cells, 1996, 1, 1031-1044.	1.2	55
27	OTX2 Directly Interacts with LIM1 and HNF-3Î². Biochemical and Biophysical Research Communications, 2000, 267, 64-70.	2.1	55
28	<i>Emx2</i>directs the development of diencephalon in cooperation with<i>Otx2</i>. Development (Cambridge), 2001, 128, 2433-2450.	2.5	55
29	Coordinately Co-opted Multiple Transposable Elements Constitute an Enhancer for wnt5a Expression in the Mammalian Secondary Palate. PLoS Genetics, 2016, 12, e1006380.	3.5	47
30	Crucial roles of Foxa2 in mouse anterior-posterior axis polarization via regulation of anterior visceral endoderm-specific genes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5919-5924.	7.1	46
31	Fate Specification of Neural Plate Border by Canonical Wnt Signaling and Grhl3 is Crucial for Neural Tube Closure. EBioMedicine, 2015, 2, 513-527.	6.1	46
32	Deletion of Otx2 in GnRH Neurons Results in a Mouse Model of Hypogonadotropic Hypogonadism. Molecular Endocrinology, 2011, 25, 833-846.	3.7	45
33	Brd2 is required for cell cycle exit and neuronal differentiation through the E2F1 pathway in mouse neuroepithelial cells. Biochemical and Biophysical Research Communications, 2012, 425, 762-768.	2.1	36
34	A new murine zinc finger gene, Opr. Mechanisms of Development, 2000, 98, 161-164.	1.7	30
35	Identification of the contact sites of a factor that interacts with motif I (>Î±CE1) of the chicken Î±A-crystallin lens-specific enhancer. Biochemical and Biophysical Research Communications, 1992, 184, 24-30.	2.1	28
36	Genetic modifiers of otocephalic phenotypes in Otx2 heterozygous mutant mice. Development (Cambridge), 2002, 129, 4347-57.	2.5	24

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37	Intrauterine Pressures Adjusted by Reichertâ€™s Membrane Are Crucial for Early Mouse Morphogenesis. Cell Reports, 2020, 31, 107637.	6.4	20
38	Mechanical perspectives on the anterior-posterior axis polarization of mouse implanted embryos. Mechanisms of Development, 2017, 144, 62-70.	1.7	16
39	Cytoplasmic localization of GRHL3 upon epidermal differentiation triggers cell shape change for epithelial morphogenesis. Nature Communications, 2018, 9, 4059.	12.8	12
40	USP39 is essential for mammalian epithelial morphogenesis through upregulation of planar cell polarity components. Communications Biology, 2022, 5, 378.	4.4	4
41	Mouse homeobox-containing gene, Otx2, maps to mouse Chromosome 14. Mammalian Genome, 1997, 8, 292-293.	2.2	3
42	Transcriptional regulatory networks in epiblast cells and during anterior neural plate development as modeled in epiblast stem cells. Development (Cambridge), 2012, 139, 4675-4675.	2.5	2
43	Divergent Roles of Heparan Sulfate in Regulation of FGF Signaling During Mammalian Embryogenesis. , 2014, , 239-251.		2
44	BET proteins are essential for the specification and maintenance of the epiblast lineage in mouse preimplantation embryos. BMC Biology, 2022, 20, 64.	3.8	1
45	Identification of Cell Autonomous and Non-Cell Autonomous Functions of Heparan Glycosaminoglycan Chains by Creating Chimeric Mouse. Methods in Molecular Biology, 2022, 2303, 579-593.	0.9	0