

# Masatsugu Ema

## List of Publications by Year in descending order

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74  
papers

4,471  
citations

126708

33  
h-index

106150

65  
g-index

75  
all docs

75  
docs citations

75  
times ranked

6649  
citing authors

#	ARTICLE	IF	CITATIONS
1	cDNA cloning and structure of mouse putative Ah receptor. <i>Biochemical and Biophysical Research Communications</i> , 1992, 184, 246-253.	1.0	396
2	Subventricular Zone-Derived Neural Progenitor Cells Migrate Along a Blood Vessel Scaffold Toward The Post-stroke Striatum. <i>Stem Cells</i> , 2010, 28, 545-554.	1.4	261
3	Deletion of the selection cassette, but not cis-acting elements, in targeted Flk1-lacZ allele reveals Flk1 expression in multipotent mesodermal progenitors. <i>Blood</i> , 2006, 107, 111-117.	0.6	259
4	Combinatorial effects of Flk1 and Tal1 on vascular and hematopoietic development in the mouse. <i>Genes and Development</i> , 2003, 17, 380-393.	2.7	232
5	Neurons Limit Angiogenesis by Titrating VEGF in Retina. <i>Cell</i> , 2014, 159, 584-596.	13.5	232
6	Inhibition of hypoxia-inducible factor 1 activity by nitric oxide donors in hypoxia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 7368-7373.	3.3	221
7	HLF/HIF-2 $\beta$ is a key factor in retinopathy of prematurity in association with erythropoietin. <i>EMBO Journal</i> , 2003, 22, 1134-1146.	3.5	220
8	Vascular Endothelial Growth Factor A Signaling in the Podocyte-Endothelial Compartment Is Required for Mesangial Cell Migration and Survival. <i>Journal of the American Society of Nephrology: JASN</i> , 2006, 17, 724-735.	3.0	217
9	Krüppel-like factor 5 Is Essential for Blastocyst Development and the Normal Self-Renewal of Mouse ESCs. <i>Cell Stem Cell</i> , 2008, 3, 555-567.	5.2	177
10	Roles of VEGF-A signalling in development, regeneration, and tumours. <i>Journal of Biochemistry</i> , 2014, 156, 1-10.	0.9	159
11	Transcriptionally Active Heterodimer Formation of an Arnt-like PAS Protein, Arnt3, with HIF-1 $\alpha$ , HLF, and Clock. <i>Biochemical and Biophysical Research Communications</i> , 1998, 248, 789-794.	1.0	128
12	Compensatory signalling induced in the yolk sac vasculature by deletion of TGF $\beta$ 2 receptors in mice. <i>Journal of Cell Science</i> , 2007, 120, 4269-4277.	1.2	104
13	Defective development of secretory neurones in the hypothalamus of Arnt2-knockout mice. <i>Genes To Cells</i> , 2001, 6, 361-374.	0.5	99
14	Vascular Endothelial Growth Factor Directly Inhibits Primitive Neural Stem Cell Survival But Promotes Definitive Neural Stem Cell Survival. <i>Journal of Neuroscience</i> , 2006, 26, 6803-6812.	1.7	95
15	Mild Impairment of Learning and Memory in Mice Overexpressing the mSim2 Gene Located on Chromosome 16: An Animal Model of Down's Syndrome. <i>Human Molecular Genetics</i> , 1999, 8, 1409-1415.	1.4	79
16	Regulation of Dioxin Receptor Function by Omeprazole. <i>Journal of Biological Chemistry</i> , 1997, 272, 12705-12713.	1.6	72
17	Cell Fate Decisions in Early Blood Vessel Formation. <i>Trends in Cardiovascular Medicine</i> , 2003, 13, 254-259.	2.3	69
18	Indefinite Self-Renewal of ESCs through Myc/Max Transcriptional Complex-Independent Mechanisms. <i>Cell Stem Cell</i> , 2011, 9, 37-49.	5.2	64

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19	RNA content in the nucleolus alters p53 acetylation via MYBBP1A. <i>EMBO Journal</i> , 2011, 30, 1054-1066.	3.5	62
20	Chondroitin Sulfate N-Acetylgalactosaminyltransferase 1 Is Necessary for Normal Endochondral Ossification and Aggrecan Metabolism. <i>Journal of Biological Chemistry</i> , 2011, 286, 5803-5812.	1.6	60
21	Runx1 is involved in primitive erythropoiesis in the mouse. <i>Blood</i> , 2008, 111, 4075-4080.	0.6	59
22	Thyroid hormone triggers the developmental loss of axonal regenerative capacity via thyroid hormone receptor $\beta 1$ and $\beta 4$ apper-like factor 9 in Purkinje cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14206-14211.	3.3	56
23	Novel ROSA26 Cre-reporter Knock-in C57BL/6N Mice Exhibiting Green Emission before and Red Emission after Cre-mediated Recombination. <i>Experimental Animals</i> , 2013, 62, 295-304.	0.7	53
24	cDNA Cloning of a Murine Homologue of <i>Drosophila</i> Single-Minded, Its mRNA Expression in Mouse Development, and Chromosome Localization. <i>Biochemical and Biophysical Research Communications</i> , 1996, 218, 588-594.	1.0	50
25	Flt-1 haploinsufficiency ameliorates muscular dystrophy phenotype by developmentally increased vasculature in mdx mice. <i>Human Molecular Genetics</i> , 2010, 19, 4145-4159.	1.4	49
26	Characterization of GATA-1+ hemangioblastic cells in the mouse embryo. <i>EMBO Journal</i> , 2007, 26, 184-196.	3.5	48
27	Rapid Isolation of Glomeruli Coupled with Gene Expression Profiling Identifies Downstream Targets in Pod1 Knockout Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 3247-3255.	3.0	46
28	Hepatocyte ELOVL Fatty Acid Elongase 6 Determines Ceramide Acyl Chain Length and Hepatic Insulin Sensitivity in Mice. <i>Hepatology</i> , 2020, 71, 1609-1625.	3.6	44
29	Developmental regression of hyaloid vasculature is triggered by neurons. <i>Journal of Experimental Medicine</i> , 2016, 213, 1175-1183.	4.2	43
30	Flk1-GFP BAC Tg Mice: An Animal Model for the Study of Blood Vessel Development. <i>Experimental Animals</i> , 2010, 59, 615-622.	0.7	42
31	Antitumor effects of $\alpha$ -oxoglutarate through inhibition of angiogenesis in a murine tumor model. <i>Cancer Science</i> , 2009, 100, 1639-1647.	1.7	41
32	Induction of the germ cell fate from pluripotent stem cells in cynomolgus monkeys. <i>Biology of Reproduction</i> , 2020, 102, 620-638.	1.2	40
33	Heterodimers of bHLH-PAS Protein Fragments Derived from AhR, AhRR, and Arnt Prepared by Co-Expression in <i>Escherichia coli</i> : Characterization of Their DNA Binding Activity and Preparation of a DNA Complex. <i>Journal of Biochemistry</i> , 2003, 134, 83-90.	0.9	35
34	Platelet demand modulates the type of intravascular protrusion of megakaryocytes in bone marrow. <i>Thrombosis and Haemostasis</i> , 2014, 112, 743-756.	1.8	35
35	Isolation and function of mouse tissue resident vascular precursors marked by myelin protein zero. <i>Journal of Experimental Medicine</i> , 2011, 208, 949-960.	4.2	34
36	Monkeys mutant for PKD1 recapitulate human autosomal dominant polycystic kidney disease. <i>Nature Communications</i> , 2019, 10, 5517.	5.8	33

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37	The X chromosome dosage compensation program during the development of cynomolgus monkeys. <i>Science</i> , 2021, 374, eabd8887.	6.0	33
38	Comprehensive Identification of KrÄ½ppel-Like Factor Family Members Contributing to the Self-Renewal of Mouse Embryonic Stem Cells and Cellular Reprogramming. <i>PLoS ONE</i> , 2016, 11, e0150715.	1.1	29
39	Prox1-GFP/Flt1-DsRed transgenic mice: an animal model for simultaneous live imaging of angiogenesis and lymphangiogenesis. <i>Angiogenesis</i> , 2017, 20, 581-598.	3.7	28
40	Inhibition of Ubiquitin Ligase F-box and WD Repeat Domain-containing 7Î± (Fbw7Î±) Causes Hepatosteatorsis through KrÄ½ppel-like Factor 5 (KLF5)/Peroxisome Proliferator-activated Receptor Î³2 (PPARÎ³2) Pathway but Not SREBP-1c Protein in Mice*. <i>Journal of Biological Chemistry</i> , 2011, 286, 40835-40846.	1.6	24
41	Generation and Characterization of Ins1-cre-driver C57BL/6N for Exclusive Pancreatic Beta Cell-specific Cre-loxP Recombination. <i>Experimental Animals</i> , 2014, 63, 183-191.	0.7	24
42	<i>Klf5</i> maintains the balance of primitive endoderm to epiblast specification during mouse embryonic development by suppression of <i>Fgf4</i> . <i>Development (Cambridge)</i> , 2017, 144, 3706-3718.	1.2	24
43	Regulation of ERK signalling pathway in the developing mouse blastocyst. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	23
44	The E3 Ubiquitin Ligase Activity of Trip12 Is Essential for Mouse Embryogenesis. <i>PLoS ONE</i> , 2011, 6, e25871.	1.1	22
45	<i>Klf9</i> is necessary and sufficient for Purkinje cell survival in organotypic culture. <i>Molecular and Cellular Neurosciences</i> , 2013, 54, 9-21.	1.0	22
46	Aging of the Vascular System and Neural Diseases. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 557384.	1.7	21
47	Poor vessel formation in embryos from knock-in mice expressing ALK5 with L45 loop mutation defective in Smad activation. <i>Laboratory Investigation</i> , 2009, 89, 800-810.	1.7	19
48	Highly efficient induction of primate iPS cells by combining RNA transfection and chemical compounds. <i>Genes To Cells</i> , 2019, 24, 473-484.	0.5	19
49	Intersection of regulatory pathways controlling hemostasis and hemochorial placentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
50	Distinct expression patterns of Flk1 and Flt1 in the coronary vascular system during development and after myocardial infarction. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 884-891.	1.0	18
51	In Vivo Function and Evolution of the Eutherian-Specific Pluripotency Marker UTF1. <i>PLoS ONE</i> , 2013, 8, e68119.	1.1	17
52	<i>Klf5</i> suppresses ERK signaling in mouse pluripotent stem cells. <i>PLoS ONE</i> , 2018, 13, e0207321.	1.1	17
53	Activated Fps/Fes partially rescues the in vivo developmental potential of Flk1-deficient vascular progenitor cells. <i>Blood</i> , 2004, 103, 912-920.	0.6	15
54	Fluorescent reporter transgenic mice for in vivo live imaging of angiogenesis and lymphangiogenesis. <i>Angiogenesis</i> , 2018, 21, 677-698.	3.7	15

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55	Visualization of the Epiblast and Visceral Endodermal Cells Using Fgf5-P2A-Venus BAC Transgenic Mice and Epiblast Stem Cells. <i>PLoS ONE</i> , 2016, 11, e0159246.	1.1	14
56	The transcription factor Klf5 is essential for intrahepatic biliary epithelial tissue remodeling after cholestatic liver injury. <i>Journal of Biological Chemistry</i> , 2018, 293, 6214-6229.	1.6	14
57	Functional Compensation Between Myc and PI3K Signaling Supports Self-Renewal of Embryonic Stem Cells. <i>Stem Cells</i> , 2015, 33, 713-725.	1.4	13
58	Bioluminescence Imaging of $\beta$ Cells and Intrahepatic Insulin Gene Activity under Normal and Pathological Conditions. <i>PLoS ONE</i> , 2013, 8, e60411.	1.1	13
59	Interaction of the nervous system and vascular system is required for the proper assembly of the neocortex. <i>Neurochemistry International</i> , 2019, 129, 104481.	1.9	12
60	Comprehensive evaluation of ubiquitous promoters suitable for the generation of transgenic cynomolgus monkeys. <i>Biology of Reproduction</i> , 2019, 100, 1440-1452.	1.2	12
61	Generating Vegfr3 reporter transgenic mouse expressing membrane-tagged Venus for visualization of VEGFR3 expression in vascular and lymphatic endothelial cells. <i>PLoS ONE</i> , 2019, 14, e0210060.	1.1	11
62	Delayed cutaneous wound healing in Fam129b/Minerva-deficient mice. <i>Journal of Biochemistry</i> , 2012, 152, 549-555.	0.9	10
63	Neuron-derived VEGF contributes to cortical and hippocampal development independently of VEGFR1/2-mediated neurotrophism. <i>Developmental Biology</i> , 2020, 459, 65-71.	0.9	10
64	Establishment of macaque trophoblast stem cell lines derived from cynomolgus monkey blastocysts. <i>Scientific Reports</i> , 2020, 10, 6827.	1.6	10
65	Chromosomal-scale de novo genome assemblies of Cynomolgus Macaque and Common Marmoset. <i>Scientific Data</i> , 2021, 8, 159.	2.4	9
66	Simultaneous fluorescence imaging of distinct nerve and blood vessel patterns in dual Thy1-YFP and Flt1-DsRed transgenic mice. <i>Angiogenesis</i> , 2020, 23, 459-477.	3.7	7
67	Flt1 and Flk1 mediate regulation of intraocular pressure and their double heterozygosity causes the buphthalmia in mice. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 422-427.	1.0	6
68	Forced Expression of Nanog or Esrrb Preserves the ESC Status in the Absence of Nucleostemin Expression. <i>Stem Cells</i> , 2015, 33, 1089-1101.	1.4	6
69	Genetic evidence of PEBP2 $\beta$ -independent activation of Runx1 in the murine embryo. <i>International Journal of Hematology</i> , 2008, 88, 134-138.	0.7	5
70	The dynamics of revascularization after white matter infarction monitored in Flt1-tdsRed and Flk1-GFP mice. <i>Neuroscience Letters</i> , 2019, 692, 70-76.	1.0	5
71	Generation of an OCT3/4 reporter cynomolgus monkey ES cell line using CRISPR/Cas9. <i>Stem Cell Research</i> , 2019, 37, 101439.	0.3	4
72	Quantification of Angiogenesis and Lymphangiogenesis in the Dual ex vivo Aortic and Thoracic Duct Assay. <i>Protein and Peptide Letters</i> , 2019, 27, 30-40.	0.4	4

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73	A New Model for Specific Visualization of Skin Graft Neoangiogenesis Using Flt1-tdsRed BAC Transgenic Mice. <i>Plastic and Reconstructive Surgery</i> , 2021, 148, 89-99.	0.7	2
74	Macrophages fine-tune pupil shape during development. <i>Developmental Biology</i> , 2020, 464, 137-144.	0.9	1