Virginia E Papaioannou

List of Publications by Year
in descending order

139 papers	18,000 citations	22153 59 h-index	14208 128 g-index
148 all docs	148 docs citations	148 times ranked	18511 citing authors

#	Article	IF	Citations
1	RAG-1-deficient mice have no mature B and T lymphocytes. Cell, 1992, 68, 869-877.	28.9	2,652
2	DiGeorge syndrome phenotype in mice mutant for the T-box gene, Tbx1. Nature Genetics, 2001, 27, 286-291.	21.4	977
3	Uncoupling of Obesity from Insulin Resistance Through a Targeted Mutation in <i>aP2</i> , the Adipocyte Fatty Acid Binding Protein. Science, 1996, 274, 1377-1379.	12.6	805
4	Increased apoptosis and early embryonic lethality in mice nullizygous for the Huntington's disease gene homologue. Nature Genetics, 1995, 11, 155-163.	21.4	712
5	Requirement of FGF-4 for postimplantation mouse development. Science, 1995, 267, 246-249.	12.6	683
6	Depletion of CD4+ T cells in major histocompatibility complex class II-deficient mice. Science, 1991, 253, 1417-1420.	12.6	669
7	Expression of the T-box family genes,Tbx1-Tbx5, during early mouse development. Developmental Dynamics, 1996, 206, 379-390.	1.8	581
8	Targeted mutations of breast cancer susceptibility gene homologs in mice: lethal phenotypes of Brca1, Brca2, Brca1/Brca2, Brca1/p53, and Brca2/p53 nullizygous embryos.. Genes and Development, 1997, 11, 1226-1241.	5.9	484
9	Fate of teratocarcinoma cells injected into early mouse embryos. Nature, 1975, 258, 70-73.	27.8	433
10	Three neural tubes in mouse embryos with mutations in the T-box gene Tbx6. Nature, 1998, 391, 695-697.	27.8	392
11	T-Box Genes in Vertebrate Development. Annual Review of Genetics, 2005, 39, 219-239.	7.6	370
12	A null mutation at the c-jun locus causes embryonic lethality and retarded cell growth in culture.. Genes and Development, 1993, 7, 1309-1317.	5.9	363
13	Differential Growth of the Mouse Preimplantation Embryo in Chemically Defined Media1. Biology of Reproduction, 1994, 50, 1027-1033.	2.7	333
14	Molecular Pathway for the Localized Formation of the Sinoatrial Node. Circulation Research, 2007, 100, 354-362.	4.5	331
15	Preferential expression of the maternally derived X chromosome in the mouse yolk sac. Cell, 1977, 12, 873-882.	28.9	321
16	The T-box gene family. BioEssays, 1998, 20, 9-19.	2.5	280
17	Tbx2 is essential for patterning the atrioventricular canal and for morphogenesis of the outflow tract during heart development. Development (Cambridge), 2004, 131, 5041-5052.	2.5	258
18	Mice lacking major histocompatibility complex class I and class II molecules.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3913-3917.	7.1	253

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19	Mammary gland, limb and yolk sac defects in mice lackingTbx3,the gene mutated in human ulnar mammary syndrome. Development (Cambridge), 2003, 130, 2263-2273.	2.5	252
20	Evidence of a role for T-â˜•genes in the evolution of limb morphogenesis and the specification of forelimb/hindlimb identity. Mechanisms of Development, 1996, 56, 93-101.	1.7	250
21	The T-box gene family: emerging roles in development, stem cells and cancer. Development (Cambridge), 2014, 141, 3819-3833.	2.5	246
22	Tbx6,a Mouse T-Box Gene Implicated in Paraxial Mesoderm Formation at Gastrulation. Developmental Biology, 1996, 180, 534-542.	2.0	245
23	Downregulation of Par3 and aPKC function directs cells towards the ICM in the preimplantation mouse embryo. Journal of Cell Science, 2005, 118, 505-515.	2.0	242
24	Dynamic in vivo imaging and cell tracking using a histone fluorescent protein fusion in mice. , 2004, 4, 33.		233
25	Tbx6-dependent Sox2 regulation determines neural or mesodermal fate in axial stem cells. Nature, 2011, 470, 394-398.	27.8	233
26	The del22q11.2 candidate gene Tbx1 regulates branchiomeric myogenesis. Human Molecular Genetics, 2004, 13, 2829-2840.	2.9	230
27	Loss of Tbx4 blocks hindlimb development and affects vascularization and fusion of the allantois. Development (Cambridge), 2003, 130, 2681-2693.	2.5	208
28	Dose-Dependent Interaction of Tbx1 and Crkl and Locally Aberrant RA Signaling in a Model of del22q11 Syndrome. Developmental Cell, 2006, 10, 81-92.	7.0	186
29	Multiple Roles and Interactions of Tbx4 and Tbx5 in Development of the Respiratory System. PLoS Genetics, 2012, 8, e1002866.	3.5	175
30	T-box genes in development: From hydra to humans. International Review of Cytology, 2001, 207, 1-70.	6.2	172
31	Technicolour transgenics: imaging tools for functional genomics in the mouse. Nature Reviews Genetics, 2003, 4, 613-625.	16.3	157
32	The copy number variation landscape of congenital anomalies of the kidney and urinary tract. Nature Genetics, 2019, 51, 117-127.	21.4	144
33	Expression of T-box genes Tbx2â€"Tbx5 during chick organogenesis. Mechanisms of Development, 1998, 74, 165-169.	1.7	138
34	Null Mutation of c-<i>fos</i>Impairs Structural and Functional Plasticities in the Kindling Model of Epilepsy. Journal of Neuroscience, 1996, 16, 3827-3836.	3.6	134
35	The first cleavage of the mouse zygote predicts the blastocyst axis. Nature, 2005, 434, 391-395.	27.8	130
36	Cre activity causes widespread apoptosis and lethal anemia during embryonic development. Genesis, 2007, 45, 768-775.	1.6	130

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37	Tbx4 and Tbx5 Acting in Connective Tissue Are Required for Limb Muscle and Tendon Patterning. Developmental Cell, 2010, 18, 148-156.	7.0	130
38	Genetic Drivers of Kidney Defects in the DiGeorge Syndrome. New England Journal of Medicine, 2017, 376, 742-754.	27.0	120
39	Paracrine action of FGF4 during periimplantation development maintains trophectoderm and primitive endoderm. Genesis, 2003, 36, 40-47.	1.6	116
40	Targeting of nonexpressed genes in embryonic stem cells via homologous recombination. Science, 1989, 245, 1234-1236.	12.6	102
41	Transcription factor TBX4 regulates myofibroblast accumulation and lung fibrosis. Journal of Clinical Investigation, 2016, 126, 3063-3079.	8.2	101
42	Developmental potential and behavior of tetraploid cells in the mouse embryo. Developmental Biology, 2005, 288, 150-159.	2.0	94
43	Tbx3 Is Required for Outflow Tract Development. Circulation Research, 2008, 103, 743-750.	4.5	91
44	Interaction of Wnt3a, Msgn1 and Tbx6 in neural versus paraxial mesoderm lineage commitment and paraxial mesoderm differentiation in the mouse embryo. Developmental Biology, 2012, 367, 1-14.	2.0	78
45	Targeted disruption of the c-fos gene demonstrates c-fos-dependent and -independent pathways for gene expression stimulated by growth factors or oncogenes. EMBO Journal, 1994, 13, 3094-103.	7.8	77
46	Origin of the ectoplacental cone and secondary giant cells in mouse blastocysts reconstituted from isolated trophoblast and inner cell mass. Journal of Embryology and Experimental Morphology, 1973, 30, 561-72.	0.5	77
47	Mapping and expression analysis of the mouse ortholog of Xenopus Eomesodermin. Mechanisms of Development, 1999, 81, 205-208.	1.7	74
48	Tbx4 is not required for hindlimb identity or post-bud hindlimb outgrowth. Development (Cambridge), 2007, 134, 93-103.	2.5	73
49	Relationship between the parental origin of the<i>X</i>chromosomes, embryonic cell lineage and<i>X</i>chromosome expression in mice. Genetical Research, 1981, 37, 183-197.	0.9	72
50	Tbx3, the ulnar-mammary syndrome gene, andTbx2interact in mammary gland development through a p19Arf/p53-independent pathway. Developmental Dynamics, 2005, 234, 922-933.	1.8	72
51	Tbx6 Regulates Left/Right Patterning in Mouse Embryos through Effects on Nodal Cilia and Perinodal Signaling. PLoS ONE, 2008, 3, e2511.	2.5	69
52	Growth and differentiation of embryonic stem cells that lack an intact c-fos gene.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 9306-9310.	7.1	68
53	Identification of a Tbx1/Tbx2/Tbx3 genetic pathway governing pharyngeal and arterial pole morphogenesis. Human Molecular Genetics, 2012, 21, 1217-1229.	2.9	68
54	The circadian system of c-fos deficient mice. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1996, 178, 563-70.	1.6	67

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55	The mouse rib-vertebrae mutation is a hypomorphic Tbx6 allele. Mechanisms of Development, 2002, 119, 251-256.	1.7	67
56	Tbx1 is required for proper neural crest migration and to stabilize spatial patterns during middle and inner ear development. Mechanisms of Development, 2005, 122, 199-212.	1.7	65
57	Teasing out T-box targets in early mesoderm. Current Opinion in Genetics and Development, 2008, 18, 418-425.	3.3	65
58	The relationship between embryonic, embryonal carcinoma and embryo-derived stem cells. Cell Differentiation, 1984, 15, 155-161.	0.4	63
59	A simple method for counting nuclei in the preimplantation mouse embryo. Experientia, 1985, 41, 1207-1209.	1.2	61
60	Development of fertilized embryos transferred to oviducts of immature mice. Reproduction, 1986, 76, 603-608.	2.6	61
61	The oocyte population is not renewed in transplanted or irradiated adult ovaries. Human Reproduction, 2008, 23, 2326-2330.	0.9	60
62	Dissociation of the Glucose and Lipid Regulatory Functions of FoxO1 by Targeted Knockin of Acetylation-Defective Alleles in Mice. Cell Metabolism, 2011, 14, 587-597.	16.2	60
63	The T-box Transcription Factors TBX2 and TBX3 in Mammary Gland Development and Breast Cancer. Journal of Mammary Gland Biology and Neoplasia, 2013, 18, 143-147.	2.7	58
64	Critical role for Tbx6 in mesoderm specification in the mouse embryo. Mechanisms of Development, 2003, 120, 837-847.	1.7	57
65	Diverse functional networks of <i>Tbx3</i> in development and disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 273-283.	6.6	56
66	Distribution of hyaluronan in the mouse endometrium during the periimplantation period of pregnancy. Differentiation, 1992, 52, 61-68.	1.9	52
67	Visualization of outflow tract development in the absence ofTbx1 using anFgF10 enhancer trap transgene. Developmental Dynamics, 2007, 236, 821-828.	1.8	49
68	Effect of a Null Mutation of the c-fos Proto-Oncogene on Sexual Behavior of Male Mice1. Biology of Reproduction, 1994, 50, 1040-1048.	2.7	47
69	Aortic arch and pharyngeal phenotype in the absence of BMP-dependent neural crest in the mouse. Mechanisms of Development, 2002, 119, 127-135.	1.7	46
70	Cloning, Mapping, and Expression Analysis ofTBX15,a New Member of the T-Box Gene Family. Genomics, 1998, 51, 68-75.	2.9	45
71	Early Embryonic Lethality in Genetically Engineered Mice: Diagnosis and Phenotypic Analysis. Veterinary Pathology, 2012, 49, 64-70.	1.7	45
72	The stem cells of early embryos. Differentiation, 2001, 68, 159-166.	1.9	43

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73	Identity and fate of <i>Tbx4</i>â€expressing cells reveal developmental cell fate decisions in the allantois, limb, and external genitalia. Developmental Dynamics, 2011, 240, 2290-2300.	1.8	42
74	The murine allantois: a model system for the study of blood vessel formation. Blood, 2012, 120, 2562-2572.	1.4	42
75	Involvement of T-box genes Tbx2-Tbx5 in vertebrate limb specification and development. Development (Cambridge), 1998, 125, 2499-509.	2.5	42
76	T-box family reunion. Trends in Genetics, 1997, 13, 212-213.	6.7	38
77	Expression of <i>Slit</i> and <i>Robo</i> genes in the developing mouse heart. Developmental Dynamics, 2010, 239, 3303-3311.	1.8	38
78	Loss of Tbx2 delays optic vesicle invagination leading to small optic cups. Developmental Biology, 2009, 333, 360-372.	2.0	36
79	Macrophage functions are regulated by the substratum of murine decidual stromal cells.. Journal of Clinical Investigation, 1990, 85, 1951-1958.	8.2	36
80	<i>Mga</i>is essential for the survival of pluripotent cells during peri-implantation development. Development (Cambridge), 2015, 142, 31-40.	2.5	35
81	Lineage analysis of inner cell mass and trophectoderm using microsurgically reconstituted mouse blastocysts. Journal of Embryology and Experimental Morphology, 1982, 68, 199-209.	0.5	35
82	Live imaging of fluorescent proteins in chordate embryos: From ascidians to mice. Microscopy Research and Technique, 2006, 69, 160-167.	2.2	34
83	Mouse half embryos: Viability and allocation of cells in the blastocyst. Developmental Dynamics, 1995, 203, 393-398.	1.8	30
84	<i>Msx1</i>and<i>Tbx2</i>antagonistically regulate<i>Bmp4</i>expression during the bud-to-cap stage transition in tooth development. Development (Cambridge), 2013, 140, 2697-2702.	2.5	29
85	Genetic drift in a stock of laboratory mice. Laboratory Animals, 1980, 14, 11-13.	1.0	27
86	Participation of cultured teratocarcinoma cells in mouse embryogenesis. Journal of Embryology and Experimental Morphology, 1978, 44, 93-104.	0.5	27
87	Non-random X-chromosome expression early in mouse development. Genesis, 1981, 2, 305-315.	2.1	24
88	On the fate of primordial germ cells injected into early mouse embryos. Developmental Biology, 2014, 385, 155-159.	2.0	24
89	Unique functions of Gata4 in mouse liver induction and heart development. Developmental Biology, 2016, 410, 213-222.	2.0	23
90	Defective anti-listerial responses in deciduoma of pseudopregnant mice. American Journal of Pathology, 1988, 133, 485-97.	3.8	23

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91	Dynamic expression of Tbx2 subfamily genes in development of the mouse reproductive system. Developmental Dynamics, 2012, 241, 365-375.	1.8	22
92	Vascular Notch proteins and Notch signaling in the peri-implantation mouse uterus. Vascular Cell, 2015, 7, 9.	0.2	21
93	Non-viable human embryos as a source of viable cells for embryonic stem cell derivation. Reproductive BioMedicine Online, 2009, 18, 301-308.	2.4	20
94	Derivation of Two New Human Embryonic Stem Cell Lines from Nonviable Human Embryos. Stem Cells International, 2011, 2011, 1-9.	2.5	20
95	A Retrotransposon Insertion in the 5â€² Regulatory Domain of Ptf1a Results in Ectopic Gene Expression and Multiple Congenital Defects in Danforth's Short Tail Mouse. PLoS Genetics, 2013, 9, e1003206.	3.5	20
96	The ulnar-mammary syndrome gene,<i>Tbx3</i>, is a direct target of the retinoic acid signaling pathway, which regulates its expression during mouse limb development. Molecular Biology of the Cell, 2012, 23, 2362-2372.	2.1	19
97	Cell lineage of timed cohorts of<i>Tbx6</i>-expressing cells in wild type and<i>Tbx6</i>mutant embryos. Biology Open, 2017, 6, 1065-1073.	1.2	19
98	The preimplantation pig embryo: cell number and allocation to trophectoderm and inner cell mass of the blastocyst in vivo and in vitro. Development (Cambridge), 1988, 102, 793-803.	2.5	19
99	Lethal nonagouti (ax): Description of a second embryonic lethal at the agouti locus. Genesis, 1983, 4, 21-29.	2.1	17
100	Preferential Expression of the Maternally Derived X Chromosome in Extraembryonic Tissues of the Mouse. , 1978, 12, 361-377.		17
101	Dynamic maternal and fetal Notch activity and expression in placentation. Placenta, 2017, 55, 5-12.	1.5	15
102	Outgrowth of embryonal carcinoma cells from injected blastocysts in vitro correlates with abnormal chimera development in vivo. Experimental Cell Research, 1985, 156, 213-220.	2.6	14
103	In vivo culture of embryos in the immature mouse oviduct. Theriogenology, 1989, 31, 299-308.	2.1	14
104	<i>Tbx4</i> interacts with the short stature homeobox gene <i>Shox2</i> in limb development. Developmental Dynamics, 2014, 243, 629-639.	1.8	14
105	Ontogeny of hyaluronan secretion during early mouse development. Development (Cambridge), 1993, 117, 483-92.	2.5	14
106	Ontogeny, pathology, oncology. International Journal of Developmental Biology, 1993, 37, 33-7.	0.6	14
107	Investigation of the tissue specificity of the lethalyellow (Ay) gene in mouse embryos. Genesis, 1988, 9, 155-165.	2.1	13
108	Nature and extent of left/right axis defects in <i>T^{Wis}/T^{Wis}</i> mutant mouse embryos. Developmental Dynamics, 2014, 243, 1046-1053.	1.8	13

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109	Promotion of Î²-Cell Differentiation in Pancreatic Precursor Cells by Adult Islet Cells. Endocrinology, 2009, 150, 570-579.	2.8	12
110	Remission of Type 1 Diabetes after Anti-CD3 Antibody Treatment and Transplantation of Embryonic Pancreatic Precursors. Endocrinology, 2009, 150, 4512-4520.	2.8	11
111	Candidate Gene Approach Identifies Multiple Genes and Signaling Pathways Downstream of Tbx4 in the Developing Allantois. PLoS ONE, 2012, 7, e43581.	2.5	11
112	Embryonic stem cells and mouse models of human syndromes: examples from the T-box gene family. Reproductive BioMedicine Online, 2002, 4, 68-71.	2.4	10
113	Dynamic expression of Tbx2 and Tbx3 in developing mouse pancreas. Gene Expression Patterns, 2011, 11, 476-483.	0.8	10
114	CSF-1 and mouse preimplantation development in vitro. Development (Cambridge), 1995, 121, 1333-9.	2.5	10
115	Alternative Strategies for the Derivation of Human Embryonic Stem Cell Lines and the Role of Dead Embryos. Current Stem Cell Research and Therapy, 2009, 4, 81-86.	1.3	9
116	<i>Tbx6</i>controls left-right asymmetry through regulation of<i>Gdf1</i>. Biology Open, 2018, 7, .	1.2	8
117	Postimplantation Mga expression and embryonic lethality of two gene-trap alleles. Gene Expression Patterns, 2018, 27, 31-35.	0.8	8
118	Concepts of Cell Lineage in Mammalian Embryos. Current Topics in Developmental Biology, 2016, 117, 185-197.	2.2	7
119	The Ascendency of Developmental Genetics, or How the T Complex Educated a Generation of Developmental Biologists. Genetics, 1999, 151, 421-425.	2.9	7
120	Comparative aspects of embryo manipulation in mammals. , 1987, , 67-96.		6
121	Segmental expression of the T-box transcription factor,Tbx2, during early somitogenesis. Developmental Dynamics, 2006, 235, 3080-3084.	1.8	6
122	Effects of diapause on lethalYellow (Ay/Ay) mouse embryos. The Journal of Experimental Zoology, 1992, 263, 309-315.	1.4	5
123	Can mammalian cloning combined with embryonic stem cell technologies be used to treat human diseases?. Genome Biology, 2002, 3, reviews1023.1.	9.6	5
124	Investigating the Role of Tbx4 in the Female Germline in Mice1. Biology of Reproduction, 2013, 89, 148.	2.7	5
125	Description of an embryonic lethal gene,l(5)-1, linked toWsh. Genesis, 1987, 8, 27-34.	2.1	4
126	The coming of age of the transgenic era. International Journal of Developmental Biology, 1998, 42, 841-6.	0.6	4

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127	Unusual misregulation of RNA splicing caused by insertion of a transposable element into the T (Brachyury) locus. BMC Genomics, 2003, 4, 14.	2.8	3
128	Does prepatterning occur in the mouse egg? (Reply). Nature, 2006, 442, E4-E4.	27.8	3
129	Lack of Genetic Interaction between Tbx20 and Tbx3 in Early Mouse Heart Development. PLoS ONE, 2013, 8, e70149.	2.5	3
130	Extracellular Matrix Remodeling at Implantation: Role of Hyaluronan. , 1995, , 125-152.		2
131	TM1 and TM2: two mutant alleles that constitute a genetic trait controlling thymocyte development. Immunogenetics, 2007, 59, 473-477.	2.4	2
132	Alternative Sources of Human Embryonic Stem Cells. , 2019, , 125-132.		1
133	Expression of the T-box family genes, Tbx1â€"Tbx5, during early mouse development. , 1996, 206, 379.		1
134	The T-box gene family. , 1998, 20, 9.		1
135	Alternative Sources of Human Embryonic Stem Cells. , 2011, , 215-222.		0
136	Stem Cells from Early Mammalian Embryos. , 2013, , 41-57.		0
137	Alternate Sources of Human Embryonic Stem Cells. , 2013, , 303-310.		0
138	T-Box Genes and Developmental Anomalies. , 2015, , 635-652.		0
139	The McLaren effect--a personal view. International Journal of Developmental Biology, 2001, 45, 483-6.	0.6	0