Philippe M Soriano

List of Publications by Year
in descending order

151 papers	32,701 citations	4960 84 h-index	9861 141 g-index
163 all docs	163 docs citations	163 times ranked	28583 citing authors

#	Article	IF	Citations
1	Generalized lacZ expression with the ROSA26 Cre reporter strain. Nature Genetics, 1999, 21, 70-71.	21.4	4,530
2	Targeted disruption of the c-src proto-oncogene leads to osteopetrosis in mice. Cell, 1991, 64, 693-702.	28.9	2,054
3	Promoter traps in embryonic stem cells: a genetic screen to identify and mutate developmental genes in mice.. Genes and Development, 1991, 5, 1513-1523.	5.9	1,269
4	Impaired Long-Term Potentiation, Spatial Learning, and Hippocampal Development in <i>fyn</i> Mutant Mice. Science, 1992, 258, 1903-1910.	12.6	1,264
5	Abnormal kidney development and hematological disorders in PDGF beta-receptor mutant mice.. Genes and Development, 1994, 8, 1888-1896.	5.9	864
6	Disruption of overlapping transcripts in the ROSA Î²geo 26 gene trap strain leads to widespread expression of Î²-galactosidase in mouse embryos andâ€‰hematopoieticâ€‰cells. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3789-3794.	7.1	799
7	Src family kinases are required for integrin but not PDGFR signal transduction. EMBO Journal, 1999, 18, 2459-2471.	7.8	685
8	Neuronal position in the developing brain is regulated by mouse disabled-1. Nature, 1997, 389, 733-737.	27.8	672
9	The helix-loop-helix gene E2A is required for B cell formation. Cell, 1994, 79, 875-884.	28.9	638
10	Mena, a Relative of VASP and Drosophila Enabled, Is Implicated in the Control of Microfilament Dynamics. Cell, 1996, 87, 227-239.	28.9	631
11	pp59fyn mutant mice display differential signaling in thymocytes and peripheral T cells. Cell, 1992, 70, 741-750.	28.9	578
12	Widespread recombinase expression using FLPeR (Flipper) mice. Genesis, 2000, 28, 106-110.	1.6	564
13	The Knockout Mouse Project. Nature Genetics, 2004, 36, 921-924.	21.4	556
14	PDGF-C is a new protease-activated ligand for the PDGF Î±-receptor. Nature Cell Biology, 2000, 2, 302-309.	10.3	548
15	Requirement of pp60c-src expression for osteoclasts to form ruffled borders and resorb bone in mice.. Journal of Clinical Investigation, 1992, 90, 1622-1627.	8.2	519
16	Mouse P0 gene disruption leads to hypomyelination, abnormal expression of recognition molecules, and degeneration of myelin and axons. Cell, 1992, 71, 565-576.	28.9	501
17	Roles of PDGF in animal development. Development (Cambridge), 2003, 130, 4769-4784.	2.5	480
18	Characterization of the B Lymphocyte Populations in Lyn-Deficient Mice and the Role of Lyn in Signal Initiation and Down-Regulation. Immunity, 1997, 7, 69-81.	14.3	409

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19	Disruption of the csk gene, encoding a negative regulator of Src family tyrosine kinases, leads to neural tube defects and embryonic lethality in mice. Cell, 1993, 73, 1117-1124.	28.9	390
20	Evolutionary Divergence of Platelet-Derived Growth Factor Alpha Receptor Signaling Mechanisms. Molecular and Cellular Biology, 2003, 23, 4013-4025.	2.3	388
21	Mena Is Required for Neurulation and Commissure Formation. Neuron, 1999, 22, 313-325.	8.1	377
22	Errors in corticospinal axon guidance in mice lacking the neural cell adhesion molecule L1. Current Biology, 1998, 8, 26-33.	3.9	368
23	High-Efficiency FLP and Î¦C31 Site-Specific Recombination in Mammalian Cells. PLoS ONE, 2007, 2, e162.	2.5	343
24	Shroom, a PDZ Domainâ€“Containing Actin-Binding Protein, Is Required for Neural Tube Morphogenesis in Mice. Cell, 1999, 99, 485-497.	28.9	342
25	Loss of fumarylacetoacetate hydrolase is responsible for the neonatal hepatic dysfunction phenotype of lethal albino mice.. Genes and Development, 1993, 7, 2298-2307.	5.9	331
26	Specific and redundant roles of Src and Fyn in organizing the cytoskeleton. Nature, 1995, 376, 267-271.	27.8	328
27	Epiblast-restricted Cre expression in MORE mice: A tool to distinguish embryonic vs. extra-embryonic gene function. Genesis, 2000, 26, 113-115.	1.6	327
28	EGF Receptor Signaling Stimulates SRC Kinase Phosphorylation of Clathrin, Influencing Clathrin Redistribution and EGF Uptake. Cell, 1999, 96, 677-687.	28.9	317
29	Osteopetrosis in Src-deficient mice is due to an autonomous defect of osteoclasts.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 4485-4489.	7.1	310
30	Transcriptional enhancer factor 1 disruption by a retroviral gene trap leads to heart defects and embryonic lethality in mice.. Genes and Development, 1994, 8, 2293-2301.	5.9	300
31	Combined deficiencies of Src, Fyn, and Yes tyrosine kinases in mutant mice.. Genes and Development, 1994, 8, 1999-2007.	5.9	289
32	Impaired neurite outgrowth of src-minus cerebellar neurons on the cell adhesion molecule L1. Neuron, 1994, 12, 873-884.	8.1	277
33	Overlapping and Unique Roles for C-Terminal Binding Protein 1 (CtBP1) and CtBP2 during Mouse Development. Molecular and Cellular Biology, 2002, 22, 5296-5307.	2.3	269
34	Compartmentalized signaling by GPI-anchored ephrin-A5 requires the Fyn tyrosine kinase to regulate cellular adhesion. Genes and Development, 1999, 13, 3125-3135.	5.9	267
35	Î²IV-spectrin regulates sodium channel clustering through ankyrin-G at axon initial segments and nodes of Ranvier. Journal of Cell Biology, 2002, 156, 337-348.	5.2	267
36	Knockouts of Src-family kinases: stiff bones, wimpy T cells, and bad memories.. Genes and Development, 1996, 10, 1845-1857.	5.9	263

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37	Ephrin-B1 forward and reverse signaling are required during mouse development. Genes and Development, 2004, 18, 572-583.	5.9	257
38	NCAM-dependent neurite outgrowth is inhibited in neurons from Fyn-minus mice.. Journal of Cell Biology, 1994, 127, 825-833.	5.2	250
39	Increased PDGFRÎ± Activation Disrupts Connective Tissue Development and Drives Systemic Fibrosis. Developmental Cell, 2009, 16, 303-313.	7.0	237
40	Cell autonomous requirement for PDGFRÎ± in populations of cranial and cardiac neural crest cells. Development (Cambridge), 2003, 130, 507-518.	2.5	234
41	L1 knockout mice show dilated ventricles, vermis hypoplasia and impaired exploration patterns. Human Molecular Genetics, 1998, 7, 999-1009.	2.9	228
42	Mice deficient in Six5 develop cataracts: implications for myotonic dystrophy. Nature Genetics, 2000, 25, 105-109.	21.4	228
43	Retroviruses as probes for mammalian development: Allocation of cells to the somatic and germ cell lineages. Cell, 1986, 46, 19-29.	28.9	220
44	The widely used Wnt1-Cre transgene causes developmental phenotypes by ectopic activation of Wnt signaling. Developmental Biology, 2013, 379, 229-234.	2.0	220
45	A public gene trap resource for mouse functional genomics. Nature Genetics, 2004, 36, 543-544.	21.4	213
46	Functional overlap in the src gene family: inactivation of hck and fgr impairs natural immunity.. Genes and Development, 1994, 8, 387-398.	5.9	211
47	Hrs, a FYVE finger protein localized to early endosomes, is implicated in vesicular traffic and required for ventral folding morphogenesis. Genes and Development, 1999, 13, 1475-1485.	5.9	207
48	Cryptic boundaries in roof plate and choroid plexus identified by intersectional gene activation. Nature Genetics, 2003, 35, 70-75.	21.4	203
49	A specific requirement for PDGF-C in palate formation and PDGFR-Î± signaling. Nature Genetics, 2004, 36, 1111-1116.	21.4	199
50	Ephrin signaling in vivo: Look both ways. Developmental Dynamics, 2005, 232, 1-10.	1.8	186
51	PDGFRÎ² Signaling Regulates Mural Cell Plasticity and Inhibits Fat Development. Developmental Cell, 2011, 20, 815-826.	7.0	178
52	Genetic insights into the mechanisms of Fgf signaling. Genes and Development, 2016, 30, 751-771.	5.9	178
53	PDGF signaling specificity is mediated through multiple immediate early genes. Nature Genetics, 2007, 39, 52-60.	21.4	175
54	Activation of the c-Src tyrosine kinase is required for the induction of mammary tumors in transgenic mice.. Genes and Development, 1994, 8, 23-32.	5.9	174

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55	Platelet-derived growth factor beta receptor regulates interstitial fluid homeostasis through phosphatidylinositol-3' kinase signaling. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11410-11415.	7.1	169
56	An Allelic Series at the PDGFÎ±R Locus Indicates Unequal Contributions of Distinct Signaling Pathways During Development. Developmental Cell, 2002, 2, 103-113.	7.0	165
57	Additive Effects of PDGF Receptor Î² Signaling Pathways in Vascular Smooth Muscle Cell Development. PLoS Biology, 2003, 1, e52.	5.6	162
58	In vivo expression of rat insulin after intravenous administration of the liposome-entrapped gene for rat insulin I.. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 1068-1072.	7.1	159
59	Distinct Requirements for FGFR1 and FGFR2 in Primitive Endoderm Development and Exit from Pluripotency. Developmental Cell, 2017, 41, 511-526.e4.	7.0	150
60	The Major Components of the Mouse and Human Genomes. FEBS Journal, 1981, 115, 227-233.	0.2	145
61	The distribution of interspersed repeats is nonuniform and conserved in the mouse and human genomes.. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 1816-1820.	7.1	142
62	Î²-PDGF receptor expressed by hepatic stellate cells regulates fibrosis in murine liver injury, but not carcinogenesis. Journal of Hepatology, 2015, 63, 141-147.	3.7	142
63	In vivo convergence of BMP and MAPK signaling pathways: impact of differential Smad1 phosphorylation on development and homeostasis. Genes and Development, 2004, 18, 1482-1494.	5.9	141
64	Inhibition of Gap Junction Communication at Ectopic Eph/ephrin Boundaries Underlies Craniofrontonasal Syndrome. PLoS Biology, 2006, 4, e315.	5.6	137
65	The International Gene Trap Consortium Website: a portal to all publicly available gene trap cell lines in mouse. Nucleic Acids Research, 2006, 34, D642-D648.	14.5	131
66	The Two PDGF Receptors Maintain Conserved Signaling In Vivo despite Divergent Embryological Functions. Molecular Cell, 2001, 7, 343-354.	9.7	129
67	Functional Annotation of Mouse Genome Sequences. Science, 2001, 291, 1251-1255.	12.6	125
68	Sequence organization and genomic distribution of the major family of interspersed repeats of mouse DNA.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 355-359.	7.1	124
69	Targeted disruption of the MYC antagonist MAD1 inhibits cell cycle exit during granulocyte differentiation. EMBO Journal, 1998, 17, 774-785.	7.8	123
70	The genes coding for the cytoskeletal proteins actin and vimentin in warm-blooded vertebrates.. EMBO Journal, 1982, 1, 167-171.	7.8	122
71	Retroviruses and insertional mutagenesis in mice: proviral integration at the Mov 34 locus leads to early embryonic death.. Genes and Development, 1987, 1, 366-375.	5.9	121
72	Tissue-specific and ectopic expression of genes introduced into transgenic mice by retroviruses. Science, 1986, 234, 1409-1413.	12.6	113

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73	The PDGF signaling pathway controls multiple steroid-producing lineages. Genes and Development, 2008, 22, 3255-3267.	5.9	112
74	PDGFB Regulates the Development of the Labyrinthine Layer of the Mouse Fetal Placenta. Developmental Biology, 1999, 212, 124-136.	2.0	108
75	Context-specific requirements for Fgfr1 signaling through Frs2 and Frs3 during mouse development. Development (Cambridge), 2006, 133, 663-673.	2.5	108
76	Chimaeric analysis reveals role of Pdgf receptors in all muscle lineages. Nature Genetics, 1998, 18, 385-388.	21.4	105
77	Targeted and nontargeted liposomes for in vivo transfer to rat liver cells of a plasmid containing the preproinsulin I gene.. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 7128-7131.	7.1	102
78	Insertional mutagenesis in mice. Trends in Genetics, 1987, 3, 162-166.	6.7	102
79	Identification and validation of PDGF transcriptional targets by microarray-coupled gene-trap mutagenesis. Nature Genetics, 2004, 36, 304-312.	21.4	102
80	High rate of recombination and double crossovers in the mouse pseudoautosomal region during male meiosis.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 7218-7220.	7.1	98
81	Growth factor signaling pathways in vascular development. Oncogene, 1999, 18, 7917-7932.	5.9	95
82	Promoter interactions in retrovirus vectors introduced into fibroblasts and embryonic stem cells. Journal of Virology, 1991, 65, 2314-2319.	3.4	94
83	Phosphorylation of c-Src on tyrosine 527 by another protein tyrosine kinase. Science, 1991, 254, 568-571.	12.6	92
84	Cerebellar abnormalities in the disabled (mdab1-1) mouse. Journal of Comparative Neurology, 1998, 402, 238-251.	1.6	91
85	Ephrin-B1 forward signaling regulates craniofacial morphogenesis by controlling cell proliferation across Ephâ€"ephrin boundaries. Genes and Development, 2010, 24, 2068-2080.	5.9	89
86	Ephrin-B2 forward signaling regulates somite patterning and neural crest cell development. Developmental Biology, 2007, 304, 182-193.	2.0	82
87	High frequency of unequal recombination in pseudoautosomal region shown by proviral insertion in transgenic mouse. Nature, 1986, 324, 682-685.	27.8	74
88	PDGFR-? signaling is critical for tooth cusp and palate morphogenesis. Developmental Dynamics, 2005, 232, 75-84.	1.8	73
89	Ephrin-B1 regulates axon guidance by reverse signaling through a PDZ-dependent mechanism. Genes and Development, 2009, 23, 1586-1599.	5.9	72
90	Regulation of neural progenitor cell state by ephrin-B. Journal of Cell Biology, 2008, 181, 973-983.	5.2	71

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91	Retention of PDGFR-beta function in mice in the absence of phosphatidylinositol 3'-kinase and phospholipase Cgamma signaling pathways. Genes and Development, 2000, 14, 3179-3190.	5.9	69
92	A gene trap vector system for identifying transcriptionally responsive genes. Nature Biotechnology, 2001, 19, 579-582.	17.5	69
93	The Secretory Protein Sec8 Is Required for Paraxial Mesoderm Formation in the Mouse. Developmental Biology, 1997, 192, 364-374.	2.0	65
94	A Critical Role for PDGFRÎ± Signaling in Medial Nasal Process Development. PLoS Genetics, 2013, 9, e1003851.	3.5	60
95	[41] Insertional mutagenesis by retroviruses and promoter traps in embryonic stem cells. Methods in Enzymology, 1993, 225, 681-701.	1.0	59
96	<i>E-MAP-115</i>, encoding a microtubule-associated protein, is a retinoic acid-inducible gene required for spermatogenesis. Genes and Development, 2000, 14, 1332-1342.	5.9	58
97	PI3K-mediated PDGFRÎ± signaling regulates survival and proliferation in skeletal development through p53-dependent intracellular pathways. Genes and Development, 2014, 28, 1005-1017.	5.9	55
98	An Flp indicator mouse expressing alkaline phosphatase from the ROSA26 locus. Nature Genetics, 2001, 29, 257-259.	21.4	54
99	Gene Targeting in ES Cells. Annual Review of Neuroscience, 1995, 18, 1-18.	10.7	53
100	Spatial learning in mutant mice. Science, 1993, 262, 760-763.	12.6	49
101	Fgfr1 regulates development through the combinatorial use of signaling proteins. Genes and Development, 2015, 29, 1863-1874.	5.9	48
102	MAPK and PI3K signaling: At the crossroads of neural crest development. Developmental Biology, 2018, 444, S79-S97.	2.0	47
103	Endothelial cell transformation by polyomavirus middle T antigen in mice lacking Src-related kinases. Current Biology, 1994, 4, 100-109.	3.9	46
104	SRF Regulates Craniofacial Development through Selective Recruitment of MRTF Cofactors by PDGF Signaling. Developmental Cell, 2014, 31, 332-344.	7.0	46
105	Receptor tyrosine kinases modulate distinct transcriptional programs by differential usage of intracellular pathways. ELife, 2015, 4, .	6.0	46
106	The scattered distribution of actin genes in the mouse and human genomes.. EMBO Journal, 1982, 1, 579-583.	7.8	44
107	Gene Trap Mutagenesis in the Mouse. Methods in Enzymology, 2010, 477, 243-269.	1.0	39
108	PDGFRÎ² regulates craniofacial development through homodimers and functional heterodimers with PDGFRÎ±. Genes and Development, 2016, 30, 2443-2458.	5.9	33

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109	Eph/ephrin signaling: Genetic, phosphoproteomic, and transcriptomic approaches. Seminars in Cell and Developmental Biology, 2012, 23, 26-34.	5.0	31
110	Histomorphometric and immunocytochemical studies of src-related osteopetrosis. Bone, 1993, 14, 335-340.	2.9	30
111	Structure and chromosomal mapping of a highly polymorphic repetitive DNA sequence from the pseudoautosomal region of the mouse sex chromosomes. Cytogenetic and Genome Research, 1990, 53, 129-133.	1.1	26
112	ROSA26Flpo deleter mice promote efficient inversion of conditional gene traps in vivo. Genesis, 2010, 48, 603-606.	1.6	26
113	FGFR1 regulates trophectoderm development and facilitates blastocyst implantation. Developmental Biology, 2019, 446, 94-101.	2.0	25
114	Receptor Tyrosine Kinase Signaling. Current Topics in Developmental Biology, 2015, 111, 135-182.	2.2	24
115	A most formidable arsenal: genetic technologies for building a better mouse. Genes and Development, 2020, 34, 1256-1286.	5.9	24
116	The Major Components of the Mouse and Human Genomes. 2. Reassociation Kinetics. FEBS Journal, 1981, 115, 235-239.	0.2	23
117	FGF signaling regulates development by processes beyond canonical pathways. Genes and Development, 2020, 34, 1735-1752.	5.9	22
118	Nucleotide sequence analysis of a cloned duck Î²-globin cDNA. Gene, 1981, 14, 11-21.	2.2	21
119	Gene trap mutagenesis in embryonic stem cells. Methods in Enzymology, 2003, 365, 367-86.	1.0	20
120	Distinct mechanisms for PDGF and FGF signaling in primitive endoderm development. Developmental Biology, 2018, 442, 155-161.	2.0	19
121	Deregulated PDGFRÎ± signaling alters coronal suture morphogenesis and leads to craniosynostosis through endochondral ossification. Development (Cambridge), 2017, 144, 4026-4036.	2.5	18
122	Generation of an immortalized mouse embryonic palatal mesenchyme cell line. PLoS ONE, 2017, 12, e0179078.	2.5	16
123	Genetics of signal transduction: tales from the mouse. Current Opinion in Genetics and Development, 1994, 4, 40-46.	3.3	15
124	Engineering mutations: Deconstructing the mouse gene by gene. Developmental Dynamics, 2006, 235, 2424-2436.	1.8	14
125	<i>Sox10ER</i>^{<i>T2</i>}<i>CreER</i>^{<i>T2</i>} mice enable tracing of distinct neural crest cell populations. Developmental Dynamics, 2015, 244, 1394-1403.	1.8	14
126	Neural crest defects in ephrin-B2 mutant mice are non-autonomous and originate from defects in the vasculature. Developmental Biology, 2015, 406, 186-195.	2.0	14

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127	Double minute amplification of mutant PDGF receptor Î± in a mouse glioma model. Scientific Reports, 2015, 5, 8468.	3.3	14
128	A Thousand and One Receptor Tyrosine Kinases. Current Topics in Developmental Biology, 2016, 117, 393-404.	2.2	13
129	Clonal Expansion Analysis of Transposon Insertions by High-Throughput Sequencing Identifies Candidate Cancer Genes in a PiggyBac Mutagenesis Screen. PLoS ONE, 2013, 8, e72338.	2.5	12
130	Pharmacological and Genetic Approaches to the Analysis of Tyrosine Kinase Function in Long-term Potentiation. Cold Spring Harbor Symposia on Quantitative Biology, 1992, 57, 517-526.	1.1	11
131	Widespread recombinase expression using FLPeR (Flipper) mice. Genesis, 2000, 28, 106-110.	1.6	10
132	Gene Trap Mutagenesis in Embryonic Stem Cells. Methods in Enzymology, 2003, 365, 365-386.	1.0	9
133	Pulling back the curtain: The hidden functions of receptor tyrosine kinases in development. Current Topics in Developmental Biology, 2022, , 123-152.	2.2	7
134	Genes Coding for Vimentin and Actin in Mammals and Birds. Advances in Experimental Medicine and Biology, 1982, 158, 349-357.	1.6	4
135	Differential regulation of cranial and cardiac neural crest by serum response factor and its cofactors. ELife, 2022, 11, .	6.0	3
136	The <scp>Wnt1â€Cre2</scp> transgene is active in the male germline. Genesis, 2022, 60, e23468.	1.6	3
137	Response. Science, 1993, 262, 762-763.	12.6	2
138	Intersectional gene inactivation: there is more to conditional mutagenesis than Cre. Science China Life Sciences, 2018, 61, 1115-1117.	4.9	2
139	Deficiency of the Hck and Src tyrosine kinases results in extreme levels of extramedullary hematopoiesis. Blood, 1996, 87, 1780-1792.	1.4	2
140	Liposome-Mediated Gene Transfer In Vivo. Uptake and Expression of the Preproinsulin I Gene by Rats and Mice. , 1983, , 195-206.		2
141	Preface. Methods in Enzymology, 2010, 476, xix.	1.0	1
142	Generating Diversity and Specificity through Developmental Cell Signaling. , 2015, , 3-36.		1
143	Liposomes for Gene Transfer and Expression <i>in vivo</i>. Novartis Foundation Symposium, 1984, 103, 254-280.	1.1	1
144	Liposomes for gene transfer and expression in vivo. Colloids and Surfaces, 1985, 14, 325-337.	0.9	0

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145	Remembering Rosa Beddington?A tribute from her friends and colleagues. Developmental Dynamics, 2002, 223, 3-11.	1.8	0
146	Mouse development: From black eyes to knockouts. Developmental Dynamics, 2006, 235, 2291-2291.	1.8	0
147	Preface. Methods in Enzymology, 2010, 477, xix.	1.0	0
148	Commentary on Tam and Zhou, 1996. Developmental Biology, 2019, 447, 127-136.	2.0	0
149	A Fateful Decision: Tgif1 and Cardiac Neural Crest Identity. Developmental Cell, 2020, 53, 255-256.	7.0	0
150	Genotyping Embryonic Stem (ES) Cell Colonies Prior to Picking. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4415-pdb.prot4415.	0.3	0
151	Retroviruses as Insertional Mutagens. , 1987, , 121-129.		0