Patrick P L Tam

List of Publications by Citations

82 papers	3,244 citations	28 h-index	56 g-index
284 ext. papers	4,050 ext. citations	10.3 avg, IF	5.46 L-index

#	Paper	IF	Citations
82	Gene function in mouse embryogenesis: get set for gastrulation. *Nature Reviews Genetics*, **2007**, 8, 368-81	30.1	433
81	The transcriptional and functional properties of mouse epiblast stem cells resemble the anterior primitive streak. *Cell Stem Cell*, **2014**, 14, 107-20	18	194
80	Early endoderm development in vertebrates: lineage differentiation and morphogenetic function. *Current Opinion in Genetics and Development*, **2003**, 13, 393-400	4.9	153
79	New Insights into Early Human Development: Lessons for Stem Cell Derivation and Differentiation. *Cell Stem Cell*, **2017**, 20, 18-28	18	151
78	Mouse embryonic chimeras: tools for studying mammalian development. *Development (Cambridge)*, **2003**, 130, 6155-63	6.6	148
77	Spatial Transcriptome for the Molecular Annotation of Lineage Fates and Cell Identity in Mid-gastrula Mouse Embryo. *Developmental Cell*, **2016**, 36, 681-97	10.2	147
76	Specification and segmentation of the paraxial mesoderm. *Anatomy and Embryology*, **1994**, 189, 275-305		133
75	Single-Cell Transcriptomic Analysis of Cardiac Differentiation from Human PSCs Reveals HOPX-Dependent Cardiomyocyte Maturation. *Cell Stem Cell*, **2018**, 23, 586-598.e8	18	131
74	Establishment of mouse expanded potential stem cells. *Nature*, **2017**, 550, 393-397	50.4	128
73	Establishment of porcine and human expanded potential stem cells. *Nature Cell Biology*, **2019**, 21, 687-699	23.4	127
72	Regionalisation of cell fate and morphogenetic movement of the mesoderm during mouse gastrulation. *Genesis*, **1995**, 17, 16-28		119
71	Gene expression pattern and progression of embryogenesis in the immediate post-implantation period of mouse development. *Gene Expression Patterns*, **2007**, 7, 558-73	1.5	95
70	Building the mouse gastrula: signals, asymmetry and lineages. *Current Opinion in Genetics and Development*, **2006**, 16, 419-25	4.9	86
69	Gastrulation in the mouse embryo: ultrastructural and molecular aspects of germ layer morphogenesis. *Microscopy Research and Technique*, **1993**, 26, 301-28	2.8	82
68	Tissue-specific and differential expression of alternatively spliced alpha 1(II) collagen mRNAs in early human embryos. *Developmental Dynamics*, **1995**, 203, 198-211	2.9	81
67	Timing of developmental events in the early mouse embryo. *Seminars in Cell and Developmental Biology*, **2014**, 34, 65-75	7.5	75
66	Molecular architecture of lineage allocation and tissue organization in early mouse embryo. *Nature*, **2019**, 572, 528-532	50.4	73

65	Sequential allocation and global pattern of movement of the definitive endoderm in the mouse embryo during gastrulation. *Development (Cambridge)*, **2007**, 134, 251-60	6.6	72
64	C to U RNA editing mediated by APOBEC1 requires RNA-binding protein RBM47. *EMBO Reports*, **2014**, 15, 903-10	6.5	66
63	Regionalization of cell fates and cell movement in the endoderm of the mouse gastrula and the impact of loss of Lhx1(Lim1) function. *Developmental Biology*, **2004**, 274, 171-87	3.1	56
62	Identification of liver-specific enhancer-promoter activity in the 3Ɯntranslated region of the wild-type AAV2 genome. *Nature Genetics*, **2017**, 49, 1267-1273	36.3	55
61	Single-Cell RNA-Seq Reveals Cellular Heterogeneity of Pluripotency Transition and X Chromosome Dynamics during Early Mouse Development. *Cell Reports*, **2019**, 26, 2593-2607.e3	10.6	47
60	Cellular basis of neuroepithelial bending during mouse spinal neural tube closure. *Developmental Biology*, **2015**, 404, 113-24	3.1	44
59	Expression of an X-linked HMG-lacZ transgene in mouse embryos: implication of chromosomal imprinting and lineage-specific X-chromosome activity. *Genesis*, **1994**, 15, 491-503		39
58	Morphogenetic tissue movement and the establishment of body plan during development from blastocyst to gastrula in the mouse. *BioEssays*, **2001**, 23, 508-17	4.1	37
57	Mechanisms of left-right asymmetry and patterning: driver, mediator and responder. *F1000prime Reports*, **2014**, 6, 110		32
56	Mutations in SIPA1L3 cause eye defects through disruption of cell polarity and cytoskeleton organization. *Human Molecular Genetics*, **2015**, 24, 5789-804	5.6	30
55	Exploring early human embryo development. *Science*, **2018**, 360, 1075-1076	33.3	29
54	Genetic and developmental analysis of X-inactivation in interspecific hybrid mice suggests a role for the Y chromosome in placental dysplasia. *Genetics*, **2001**, 157, 341-8	4	23
53	Head formation: OTX2 regulates Dkk1 and Lhx1 activity in the anterior mesendoderm. *Development (Cambridge)*, **2014**, 141, 3859-67	6.6	20
52	Mouse endogenous X-linked genes do not show lineage-specific delayed inactivation during development. *Genetical Research*, **1995**, 65, 223-7	1.1	20
51	Context-specific function of the LIM homeobox 1 transcription factor in head formation of the mouse embryo. *Development (Cambridge)*, **2015**, 142, 2069-79	6.6	19
50	Affective dysfunction in a mouse model of Rett syndrome: Therapeutic effects of environmental stimulation and physical activity. *Developmental Neurobiology*, **2016**, 76, 209-24	3.2	18
49	Β Integrin of Cell-Cell Contact Mediates Kidney Fibrosis by Integrin-Linked Kinase in Proximal Tubular E-Cadherin Deficient Mice. *American Journal of Pathology*, **2016**, 186, 1847-1860	5.8	18
48	Transcriptional targets of TWIST1 in the cranial mesoderm regulate cell-matrix interactions and mesenchyme maintenance. *Developmental Biology*, **2016**, 418, 189-203	3.1	17

47	Unrestricted lineage differentiation of parthenogenetic ES cells. *Development Genes and Evolution*, **1997**, 206, 377-388	1.8	15
46	Ularcirc: visualization and enhanced analysis of circular RNAs via back and canonical forward splicing. *Nucleic Acids Research*, **2019**, 47, e123	20.1	14
45	Tissue interactions, cell signaling and transcriptional control in the cranial mesoderm during craniofacial development. *AIMS Genetics*, **2016**, 03, 074-098	2.1	13
44	Pluripotency of embryo-derived stem cells from rodents, lagomorphs, and primates: Slippery slope, terrace and cliff. *Stem Cell Research*, **2017**, 19, 104-112	1.6	12
43	Differential response of epiblast stem cells to Nodal and Activin signalling: a paradigm of early endoderm development in the embryo. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369,	5.8	12
42	Suppressing Nodal Signaling Activity Predisposes Ectodermal Differentiation of Epiblast Stem Cells. *Stem Cell Reports*, **2018**, 11, 43-57	8	11
41	Opportunities and challenges with stem cell-based embryo models. *Stem Cell Reports*, **2021**, 16, 1031-1038	8	10
40	Interactome of the inhibitory isoform of the nuclear transporter Importin 13. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2017**, 1864, 546-561	4.9	9
39	Dynamics of Wnt activity on the acquisition of ectoderm potency in epiblast stem cells. *Development (Cambridge)*, **2019**, 146,	6.6	9
38	Generation of genome-edited mouse epiblast stem cells via a detour through ES cell-chimeras. *Differentiation*, **2016**, 91, 119-25	3.5	9
37	Conditional restoration and inactivation of Rbm47 reveal its tissue-context requirement for viability and growth. *Genesis*, **2016**, 54, 115-22	1.9	9
36	Cellular diversity and lineage trajectory: insights from mouse single cell transcriptomes. *Development (Cambridge)*, **2020**, 147,	6.6	9
35	Deletion of protein tyrosine phosphatase, non-receptor type 4 (PTPN4) in twins with a Rett syndrome-like phenotype. *European Journal of Human Genetics*, **2015**, 23, 1171-5	5.3	8
34	Specifying mouse embryonic germ cells. *Cell*, **2009**, 137, 398-400	56.2	8
33	Diversity of left-right symmetry breaking strategy in animals. *F1000Research*, **2020**, 9,	3.6	8
32	Timed deletion of Twist1 in the limb bud reveals age-specific impacts on autopod and zeugopod patterning. *PLoS ONE*, **2014**, 9, e98945	3.7	7
31	Conserved Epigenetic Regulatory Logic Infers Genes Governing Cell Identity. *Cell Systems*, **2020**, 11, 625-639.e13	10.5	7
30	Thyroid bud morphogenesis requires CDC42- and SHROOM3-dependent apical constriction. *Biology Open*, **2016**, 5, 130-9	2.2	6

29	Transcriptional network dynamics during the progression of pluripotency revealed by integrative statistical learning. *Nucleic Acids Research*, **2020**, 48, 1828-1842	20.1	6
28	TWIST1 Homodimers and Heterodimers Orchestrate Lineage-Specific Differentiation. *Molecular and Cellular Biology*, **2020**, 40,	4.8	6
27	Mechanistic insights from the LHX1-driven molecular network in building the embryonic head. *Development Growth and Differentiation*, **2019**, 61, 327-336	3	5
26	Embryonic axes: the long and short of it in the mouse. *Current Biology*, **2004**, 14, R239-41	6.3	5
25	Mouse gastrulation: Attributes of transcription factor regulatory network for epiblast patterning. *Development Growth and Differentiation*, **2018**, 60, 463-472	3	5
24	Human Stem Cells Can Differentiate in Post-implantation Mouse Embryos. *Cell Stem Cell*, **2016**, 18, 3-4	18	4
23	A gene regulatory network anchored by LIM homeobox 1 for embryonic head development. *Genesis* , **2018**, 56, e23246	1.9	4
22	Modeling the early development of a primate embryo. *Science*, **2019**, 366, 798-799	33.3	4
21	TWIST1 and chromatin regulatory proteins interact to guide neural crest cell differentiation. *ELife*, **2021**, 10,	8.9	4
20	Gene Editing of Mouse Embryonic and Epiblast Stem Cells. *Methods in Molecular Biology*, **2019**, 1940, 77-95	1.4	3
19	Lineage specification of early embryos and embryonic stem cells at the dawn of enabling technologies. *National Science Review*, **2017**, 4, 533-542	10.8	3
18	Early human embryonic development: Blastocyst formation to gastrulation.. *Developmental Cell*, **2022**, 57, 152-165	10.2	3
17	Formation of the Embryonic Head in the Mouse: Attributes of a Gene Regulatory Network. *Current Topics in Developmental Biology*, **2016**, 117, 497-521	5.3	3
16	Dataset of TWIST1-regulated genes in the cranial mesoderm and a transcriptome comparison of cranial mesoderm and cranial neural crest. *Data in Brief*, **2016**, 9, 372-375	1.2	1
15	Prenet: Predictive network from ATAC-SEQ data. *Journal of Bioinformatics and Computational Biology*, **2020**, 18, 2040003	1	0
14	Anne McLaren 1927-2007. *Cell*, **2007**, 130, 201-3	56.2	0
13	Defining cell identity beyond the premise of differential gene expression. *Cell Regeneration*, **2021**, 10, 20	2.5	0
12	Pre-clinical Investigation of Rett Syndrome Using Human Stem Cell-Based Disease Models. *Frontiers in Neuroscience*, **2021**, 15, 698812	5.1	0

11	Uncovering cell identity through differential stability with Cepo. *Nature Computational Science*, **2021**, 1, 784-790	0
10	At the heart of the matter. *DMM Disease Models and Mechanisms*, **2010**, 3, 676-677	4.1
9	Loss of Impacts Neurulation and Cranial Neural Crest Specification During Early Head Development.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 777652	5.7
8	Differential impact of TGFβ/SMAD signaling activity elicited by Activin A and Nodal on endoderm differentiation of epiblast stem cells.. *Genesis*, **2022**, e23466	1.9
7	Visualization of the Cartilage and Bone Elements in the Craniofacial Structures by Alcian Blue and Alizarin Red Staining.. *Methods in Molecular Biology*, **2022**, 2403, 43-50	1.4
6	A cis-regulatory-directed pipeline for the identification of genes involved in cardiac development and disease.. *Genome Biology*, **2021**, 22, 335	18.3
5	Elucidation of Gene Expression Patterns in the Craniofacial Tissues of Mouse Embryos by Wholemount In Situ Hybridization.. *Methods in Molecular Biology*, **2022**, 2403, 33-42	1.4
4	Identification and Visualization of Protein Expression in Whole Mouse Embryos by Immunofluorescence.. *Methods in Molecular Biology*, **2022**, 2490, 39-45	1.4
3	Grafting of Epiblast Stem Cell into the Epiblast and Whole-Embryo Imaging to Unveil Lineage Competence.. *Methods in Molecular Biology*, **2022**, 2490, 269-279	1.4
2	Exploring Chromatin Accessibility in Mouse Epiblast Stem Cells with ATAC-Seq.. *Methods in Molecular Biology*, **2022**, 2490, 93-100	1.4
1	Mouse organogenesis atlas at single-cell resolution.. *Cell*, **2022**, 185, 1625-1627	56.2