Thomas L Saunders

List of Publications by Year
in descending order

141	16,748	28274 55	15266 126
papers	citations	h-index	g-index

150	150	150	22131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Endothelial and perivascular cells maintain haematopoietic stem cells. Nature, 2012, 481, 457-462.	27.8	1,617
2	Translational Control Is Required for the Unfolded Protein Response and In Vivo Glucose Homeostasis. Molecular Cell, 2001, 7, 1165-1176.	9.7	1,217
3	Receptor editing: an approach by autoreactive B cells to escape tolerance.. Journal of Experimental Medicine, 1993, 177, 999-1008.	8.5	828
4	Nrl is required for rod photoreceptor development. Nature Genetics, 2001, 29, 447-452.	21.4	795
5	Endoplasmic Reticulum Stress Activates Cleavage of CREBH to Induce a Systemic Inflammatory Response. Cell, 2006, 124, 587-599.	28.9	720
6	The Î±(1,3)Fucosyltransferase Fuc-TVII Controls Leukocyte Trafficking through an Essential Role in L-, E-, and P-selectin Ligand Biosynthesis. Cell, 1996, 86, 643-653.	28.9	704
7	Podocyte Depletion Causes Glomerulosclerosis. Journal of the American Society of Nephrology: JASN, 2005, 16, 2941-2952.	6.1	649
8	ATF6Î± Optimizes Long-Term Endoplasmic Reticulum Function to Protect Cells from Chronic Stress. Developmental Cell, 2007, 13, 351-364.	7.0	588
9	Lkb1 regulates cell cycle and energy metabolism in haematopoietic stem cells. Nature, 2010, 468, 653-658.	27.8	446
10	Role of Ahch in gonadal development and gametogenesis. Nature Genetics, 1998, 20, 353-357.	21.4	420
11	Correction of Deafness in shaker-2 Mice by an Unconventional Myosin in a BAC Transgene. Science, 1998, 280, 1444-1447.	12.6	418
12	Sox17 Dependence Distinguishes the Transcriptional Regulation of Fetal from Adult Hematopoietic Stem Cells. Cell, 2007, 130, 470-483.	28.9	382
13	Mediation of tubuloglomerular feedback by adenosine: Evidence from mice lacking adenosine 1 receptors. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 9983-9988.	7.1	381
14	Loss of Omi mitochondrial protease activity causes the neuromuscular disorder of mnd2 mutant mice. Nature, 2003, 425, 721-727.	27.8	354
15	Claudin 14 knockout mice, a model for autosomal recessive deafness DFNB29, are deaf due to cochlear hair cell degeneration. Human Molecular Genetics, 2003, 12, 2049-2061.	2.9	327
16	Resting zone of the growth plate houses a unique class of skeletal stem cells. Nature, 2018, 563, 254-258.	27.8	280
17	Fatal haemorrhage and incomplete block to embryogenesis in mice lacking coagulation factor V. Nature, 1996, 384, 66-68.	27.8	260
18	Ribosomal protein L24 defect in Belly spot and tail (Bst), a mouse Minute. Development (Cambridge), 2004, 131, 3907-3920.	2.5	260

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19	Targeted disruption of the pituitary glycoprotein hormone alpha-subunit produces hypogonadal and hypothyroid mice.. Genes and Development, 1995, 9, 2007-2019.	5.9	236
20	Mice Lacking Sodium Channel Â1 Subunits Display Defects in Neuronal Excitability, Sodium Channel Expression, and Nodal Architecture. Journal of Neuroscience, 2004, 24, 4030-4042.	3.6	225
21	MT1-MMP-Dependent Control of Skeletal Stem Cell Commitment via a Î²1-Integrin/YAP/TAZ Signaling Axis. Developmental Cell, 2013, 25, 402-416.	7.0	219
22	The Pit-1 transcription factor gene is a candidate for the murine Snell dwarf mutation. Genomics, 1990, 8, 586-590.	2.9	213
23	RNF8-Dependent Histone Modifications Regulate Nucleosome Removal during Spermatogenesis. Developmental Cell, 2010, 18, 371-384.	7.0	200
24	Vitronectin is not essential for normal mammalian development and fertility.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 12426-12430.	7.1	183
25	Reduced sodium channel density, altered voltage dependence of inactivation, and increased susceptibility to seizures in mice lacking sodium channel Î²2-subunits. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 17072-17077.	7.1	165
26	Transgenic mouse model of the mild dominant form of osteogenesis imperfecta.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 7145-7149.	7.1	157
27	Pituitary-Specific Gata2 Knockout: Effects on Gonadotrope and Thyrotrope Function. Molecular Endocrinology, 2006, 20, 1366-1377.	3.7	152
28	Mesenchymal cells reactivate Snail1 expression to drive three-dimensional invasion programs. Journal of Cell Biology, 2009, 184, 399-408.	5.2	140
29	Altered podocyte structure in GLEPP1 (Ptpro)-deficient mice associated with hypertension and low glomerular filtration rate. Journal of Clinical Investigation, 2000, 106, 1281-1290.	8.2	135
30	A rheumatoid factor transgenic mouse model of autoantibody regulation. International Immunology, 1993, 5, 1329-1341.	4.0	130
31	To knockout in 129 or in C57BL/6: that is the question. Trends in Genetics, 2004, 20, 59-62.	6.7	130
32	Secreted Versus Membrane-anchored Collagenases. Journal of Biological Chemistry, 2009, 284, 23001-23011.	3.4	130
33	Generating transgenic mice from bacterial artificial chromosomes: transgenesis efficiency, integration and expression outcomes. Transgenic Research, 2009, 18, 769-785.	2.4	129
34	Polo-Like Kinase 1 Is Essential for Early Embryonic Development and Tumor Suppression. Molecular and Cellular Biology, 2008, 28, 6870-6876.	2.3	127
35	Polymorphism of human Ia antigens generated by reciprocal intergenic exchange between two DR Î² loci. Nature, 1986, 324, 676-679.	27.8	118
36	Targeted Ablation of Pituitary Gonadotropes in Transgenic Mice. Molecular Endocrinology, 1991, 5, 2025-2036.	3.7	113

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37	Merkel Cell Polyomavirus Small T Antigen Is Oncogenic in Transgenic Mice. Journal of Investigative Dermatology, 2015, 135, 1415-1424.	0.7	112
38	Mouse model of enlarged vestibular aqueducts defines temporal requirement of Slc26a4 expression for hearing acquisition. Journal of Clinical Investigation, 2011, 121, 4516-4525.	8.2	106
39	Glucose transporter-1-deficient mice exhibit impaired development and deformities that are similar to diabetic embryopathy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15613-15618.	7.1	103
40	Deficiency of Reproductive Tract Î±(1,2)Fucosylated Glycans and Normal Fertility in Mice with Targeted Deletions of the FUT1 or FUT2 Î±(1,2)Fucosyltransferase Locus. Molecular and Cellular Biology, 2001, 21, 8336-8345.	2.3	93
41	Pituitary hypoplasia and respiratory distress syndrome in Prop1 knockout mice. Human Molecular Genetics, 2004, 13, 2727-2735.	2.9	93
42	SRA Gene Knockout Protects against Diet-induced Obesity and Improves Glucose Tolerance. Journal of Biological Chemistry, 2014, 289, 13000-13009.	3.4	93
43	Aurora A Is Essential for Early Embryonic Development and Tumor Suppression. Journal of Biological Chemistry, 2008, 283, 31785-31790.	3.4	90
44	Advances in transgenic rat production. Transgenic Research, 2006, 15, 673-686.	2.4	86
45	SAG/RBX2/ROC2 E3ÂUbiquitin Ligase Is Essential for Vascular and Neural Development by Targeting NF1 for Degradation. Developmental Cell, 2011, 21, 1062-1076.	7.0	81
46	Notch Pathway Targets Proangiogenic Regulator Sox17 to Restrict Angiogenesis. Circulation Research, 2014, 115, 215-226.	4.5	81
47	Mature T cell responses are controlled by microRNA-142. Journal of Clinical Investigation, 2015, 125, 2825-2840.	8.2	81
48	Merkel Cell Polyomavirus Small T Antigen Initiates Merkel Cell Carcinoma-like Tumor Development in Mice. Cancer Research, 2017, 77, 3151-3157.	0.9	79
49	Pleiotropic Phenotype of a Genomic Knock-In of an RGS-Insensitive G184S Gnai2 Allele. Molecular and Cellular Biology, 2006, 26, 6870-6879.	2.3	75
50	Targeted disruption of Adamts16 gene in a rat genetic model of hypertension. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20555-20559.	7.1	71
51	Genetic variation in C57BL/6 ES cell lines and genetic instability in the Bruce4 C57BL/6 ES cell line. Mammalian Genome, 2007, 18, 549-558.	2.2	69
52	Podocyte-specific JAK2 overexpression worsens diabetic kidney disease in mice. Kidney International, 2017, 92, 909-921.	5.2	67
53	RBX1/ROC1 disruption results in early embryonic lethality due to proliferation failure, partially rescued by simultaneous loss of p27. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6203-6208.	7.1	65
54	Distant regulatory elements in a Sox10-Î²GEO BAC transgene are required for expression ofSox10in the enteric nervous system and other neural crest-derived tissues. Developmental Dynamics, 2006, 235, 1413-1432.	1.8	61

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55	Activator of G Protein Signaling 3 Null Mice: I. Unexpected Alterations in Metabolic and Cardiovascular Function. Endocrinology, 2008, 149, 3842-3849.	2.8	58
56	Functions of the COPII gene paralogs SEC23A and SEC23B are interchangeable in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7748-E7757.	7.1	58
57	Targeted Disruption of the Meprin Î² Gene in Mice Leads to Underrepresentation of Knockout Mice and Changes in Renal Gene Expression Profiles. Molecular and Cellular Biology, 2003, 23, 1221-1230.	2.3	57
58	Rederivation of Transgenic and Gene-Targeted Mice by Embryo Transfer. Transgenic Research, 2004, 13, 363-371.	2.4	55
59	An inactivating caspase 11 passenger mutation originating from the 129 murine strain in mice targeted for c-IAP1. Biochemical Journal, 2012, 443, 355-359.	3.7	55
60	Mutations in RELT cause autosomal recessive amelogenesis imperfecta. Clinical Genetics, 2019, 95, 375-383.	2.0	49
61	Implementing Transgenic and Embryonic Stem Cell Technology to Study Gene Expression, Cell-Cell Interactions and Gene Function. Biology of Reproduction, 1995, 52, 246-257.	2.7	48
62	Lgi4 Promotes the Proliferation and Differentiation of Glial Lineage Cells throughout the Developing Peripheral Nervous System. Journal of Neuroscience, 2010, 30, 15228-15240.	3.6	46
63	Inducible Transgenic Mouse Models. Methods in Molecular Biology, 2011, 693, 103-115.	0.9	46
64	Cell-Specific Expression of the Mouse Glycoprotein Hormone Î±-Subunit Gene Requires Multiple Interacting DNA Elements in Transgenic Mice and Cultured Cells. Molecular Endocrinology, 1998, 12, 622-633.	3.7	43
65	Role of Complement in a Rat Model of Paclitaxel-Induced Peripheral Neuropathy. Journal of Immunology, 2018, 200, 4094-4101.	0.8	42
66	A knockin mouse model of spinocerebellar ataxia type 3 exhibits prominent aggregate pathology and aberrant splicing of the disease gene transcript. Human Molecular Genetics, 2015, 24, 1211-1224.	2.9	41
67	Principles of Genetic Engineering. Genes, 2020, 11, 291.	2.4	41
68	Intrauterine gene transfer: gestational stage-specific gene delivery in mice. Gene Therapy, 1999, 6, 1685-1694.	4.5	40
69	Generation of mice with a conditional allele of the p120 Ras GTPaseâ€activating protein. Genesis, 2007, 45, 762-767.	1.6	39
70	Tissue-specific expression of ferritin H regulates cellular iron homoeostasis in vivo. Biochemical Journal, 2006, 395, 501-507.	3.7	38
71	Blood Vascular Abnormalities in Rasa1 Knockin Mice. American Journal of Pathology, 2014, 184, 3163-3169.	3.8	38
72	Î²-Mannosidosis mice: a model for the human lysosomal storage disease. Human Molecular Genetics, 2006, 15, 493-500.	2.9	37

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73	Normal TCR Signal Transduction in Mice That Lack Catalytically Active PTPN3 Protein Tyrosine Phosphatase. Journal of Immunology, 2007, 178, 3680-3687.	0.8	37
74	Histone Acetyltransferase MOF Blocks Acquisition of Quiescence in Ground-State ESCs through Activating Fatty Acid Oxidation. Cell Stem Cell, 2020, 27, 441-458.e10.	11.1	37
75	Production of the Butyrylcholinesterase Knockout Mouse. Journal of Molecular Neuroscience, 2006, 30, 193-196.	2.3	34
76	Resistance to organophosphorus agent toxicity in transgenic mice expressing the G117H mutant of human butyrylcholinesterase. Toxicology and Applied Pharmacology, 2004, 196, 356-366.	2.8	33
77	Cutting Edge: IFN-Î³ Produced by Brain-Resident Cells Is Crucial To Control Cerebral Infection withToxoplasma gondii. Journal of Immunology, 2015, 195, 796-800.	0.8	33
78	Thioredoxin overexpression in mitochondria showed minimum effects on aging and age-related diseases in male C57BL/6 mice.. Aging Pathobiology and Therapeutics, 2020, 2, 20-31.	0.5	30
79	Specific inhibition of mouse oocyte nuclear protein phosphatase-1 stimulates germinal vesicle breakdown. Molecular Reproduction and Development, 2003, 65, 96-103.	2.0	26
80	Obesity-Induced Infertility in Male Mice Is Associated With Disruption of Crisp4 Expression and Sperm Fertilization Capacity. Endocrinology, 2017, 158, 2930-2943.	2.8	26
81	Two Pathways for Cyclooxygenase-2 Protein Degradation in Vivo. Journal of Biological Chemistry, 2009, 284, 30742-30753.	3.4	24
82	Dentin Sialophosphoprotein: A Regulatory Protein for Dental Pulp Stem Cell Identity and Fate. Stem Cells and Development, 2014, 23, 2883-2894.	2.1	24
83	Functional roles of MMP14 and MMP15 in early postnatal mammary gland development. Development (Cambridge), 2016, 143, 3956-3968.	2.5	24
84	Mitochondrial complex II in intestinal epithelial cells regulates T cell-mediated immunopathology. Nature Immunology, 2021, 22, 1440-1451.	14.5	22
85	Noncoding Microdeletion in MouseHgfDisrupts Neural Crest Migration into the Stria Vascularis, Reduces the Endocochlear Potential, and Suggests the Neuropathology for Human Nonsyndromic Deafness DFNB39. Journal of Neuroscience, 2020, 40, 2976-2992.	3.6	21
86	A simple qPCR-based method to detect correct insertion of homologous targeting vectors in murine ES cells. Transgenic Research, 2007, 16, 665-670.	2.4	20
87	Hair Cell Loss, Spiral Ganglion Degeneration, and Progressive Sensorineural Hearing Loss in Mice with Targeted Deletion of Slc44a2/Ctl2. JARO - Journal of the Association for Research in Otolaryngology, 2015, 16, 695-712.	1.8	20
88	Murine Surf4 is essential for early embryonic development. PLoS ONE, 2020, 15, e0227450.	2.5	20
89	Angiogenesis depends upon EPHB4-mediated export of collagen IV from vascular endothelial cells. JCI Insight, 2022, 7, .	5.0	20
90	The chemerin knockout rat reveals chemerin dependence in female, but not male, experimental hypertension. FASEB Journal, 2018, 32, 6596-6614.	0.5	19

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91	Thioredoxin overexpression in both the cytosol and mitochondria accelerates age-related disease and shortens lifespan in male C57BL/6 mice. GeroScience, 2018, 40, 453-468.	4.6	18
92	Full-length DQÎ² cDNA sequences of HLA-DR2/DQw1 subtypes: Genetic interactions between two DQÎ² loci generate human class II HLA diversity. Human Immunology, 1990, 27, 305-322.	2.4	17
93	Continuous overexpression of thioredoxin 1 enhances cancer development and does not extend maximum lifespan in male C57BL/6 mice. Pathobiology of Aging & Age Related Diseases, 2018, 8, 1533754.	1.1	15
94	A Transient Transgenic RNAi Strategy for Rapid Characterization of Gene Function during Embryonic Development. PLoS ONE, 2010, 5, e14375.	2.5	14
95	Efficient, specific, developmentally appropriate creâ€mediated recombination in anterior pituitary gonadotropes and thyrotropes. Genesis, 2013, 51, 785-792.	1.6	14
96	Sexually dimorphic distribution of Prokr2 neurons revealed by the Prokr2-Cre mouse model. Brain Structure and Function, 2017, 222, 4111-4129.	2.3	14
97	Targeted disruption of Cd40 in a genetically hypertensive rat model attenuates renal fibrosis and proteinuria, independent of blood pressure. Kidney International, 2017, 91, 365-374.	5.2	14
98	Knock-In Rat Lines with Cre Recombinase at the Dopamine D1 and Adenosine 2a Receptor Loci. ENeuro, 2019, 6, ENEURO.0163-19.2019.	1.9	14
99	Sensitized mutagenesis screen in Factor V Leiden mice identifies thrombosis suppressor loci. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9659-9664.	7.1	13
100	Comparison of DR Î²1 alleles from diabetic and normal individuals. Human Immunology, 1987, 19, 1-6.	2.4	12
101	DSPP dosage affects tooth development and dentin mineralization. PLoS ONE, 2021, 16, e0250429.	2.5	12
102	Direct cellular reprogramming enables development of viral T antigenâ€“driven Merkel cell carcinoma in mice. Journal of Clinical Investigation, 2022, 132, .	8.2	12
103	A rat 8 kb dentin sialoproteinâ€“phosphophoryn (DSPâ€“PP) promoter directs spatial and temporal LacZ activity in mouse tissues. Developmental Biology, 2006, 289, 507-516.	2.0	11
104	Mice hypomorphic for Atr have increased DNA damage and abnormal checkpoint response. Mammalian Genome, 2009, 20, 375-385.	2.2	11
105	Odontogenesis-associated phosphoprotein truncation blocks ameloblast transition into maturation in OdaphC41*/C41* mice. Scientific Reports, 2021, 11, 1132.	3.3	11
106	Genetic Analysis of SH2D4A, a Novel Adapter Protein Related to T Cell-Specific Adapter and Adapter Protein in Lymphocytes of Unknown Function, Reveals a Redundant Function in T Cells. Journal of Immunology, 2008, 181, 2019-2027.	0.8	10
107	Generation of Amelx-iCre Mice Supports Ameloblast-Specific Role for Stim1. Journal of Dental Research, 2019, 98, 1002-1010.	5.2	10
108	In vivo glucoregulation and tissue-specific glucose uptake in female Akt substrate 160 kDa knockout rats. PLoS ONE, 2020, 15, e0223340.	2.5	10

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109	Next Generation Transgenic Rat Model Production. Methods in Molecular Biology, 2019, 2018, 97-114.	0.9	9
110	The History of Transgenesis. Methods in Molecular Biology, 2020, 2066, 1-26.	0.9	9
111	MLL1 Inhibition and Vitamin D Signaling Cooperate to Facilitate the Expanded Pluripotency State. Cell Reports, 2019, 29, 2659-2671.e6.	6.4	8
112	Mouse Dspp frameshift model of human dentinogenesis imperfecta. Scientific Reports, 2021, 11, 20653.	3.3	8
113	Chromosome Dropper Tool: Effect of Slide Angles on Chromosome Spread Quality for Murine Embryonic Stem Cells. Journal of Histotechnology, 2008, 31, 75-79.	0.5	7
114	An upstream enhancer regulates Gpihbp1 expression in a tissue-specific manner. Journal of Lipid Research, 2019, 60, 869-879.	4.2	7
115	Reporter Molecules in Genetically Engineered Mice. , 2003, 209, 125-144.		6
116	A Survey of Internet Resources for Mouse Development. Methods in Enzymology, 2010, 476, 3-21.	1.0	6
117	A Novel Intergenic ETnII-Î² Insertion Mutation Causes Multiple Malformations in Polypodia Mice. PLoS Genetics, 2013, 9, e1003967.	3.5	6
118	The effect of repeated light-dark shifts on uterine receptivity and early gestation in mice undergoing embryo transfer. Systems Biology in Reproductive Medicine, 2018, 64, 103-111.	2.1	6
119	Whole exome sequencing of ENU-induced thrombosis modifier mutations in the mouse. PLoS Genetics, 2018, 14, e1007658.	3.5	6
120	Absence of complement component 3 does not prevent classical pathwayâ€“mediated hemolysis. Blood Advances, 2019, 3, 1808-1814.	5.2	6
121	Designing and generating a mouse model: frequently asked questions. Journal of Biomedical Research, 2021, 35, 76.	1.6	6
122	Soluble CD13 induces inflammatory arthritis by activating the bradykinin receptor B1. Journal of Clinical Investigation, 2022, 132, .	8.2	6
123	Transgene Recombineering in Bacterial Artificial Chromosomes. Methods in Molecular Biology, 2019, 1874, 43-69.	0.9	5
124	The effect of purification on the immunogenicity of tumor-specific transplantation antigens. Cancer Immunology, Immunotherapy, 1985, 19, 22-7.	4.2	4
125	Trap1a is an X-linked and cell-intrinsic regulator of thymocyte development. Cellular and Molecular Immunology, 2017, 14, 685-692.	10.5	4
126	SEC23A rescues SEC23B-deficient congenital dyserythropoietic anemia type II. Science Advances, 2021, 7, eabj5293.	10.3	4

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127	Thioredoxin and aging: What have we learned from the survival studies?. Aging Pathobiology and Therapeutics, 2020, 2, 126-133.	0.5	4
128	Purification of immunoprotective tumor antigens by preparative isotachophoresis. Cancer Immunology, Immunotherapy, 1983, 16, 101-8.	4.2	3
129	Fidelity of a BAC-EGFP transgene in reporting dynamic expression of IL-7RÎ± in T cells. Transgenic Research, 2012, 21, 201-215.	2.4	3
130	Murine SEC24D can substitute functionally for SEC24C during embryonic development. Scientific Reports, 2021, 11, 21100.	3.3	3
131	Statistical investigation of the random variations in PIXE hair analysis. International Journal of PIXE, 2015, 25, 73-84.	0.4	2
132	Gene Targeting Vector Design for Embryonic Stem Cell Modifications. Springer Protocols, 2011, , 57-79.	0.3	2
133	Histochemical Analysis of Cleared Mouse Embryos Expressing Î²-Galactosidase. Journal of Histotechnology, 1999, 22, 323-324.	0.5	1
134	In Vivo CRISPR/Cas9-Based Targeted Disruption and Knockin of a Long Noncoding RNA. Methods in Molecular Biology, 2021, 2254, 305-321.	0.9	1
135	New Transgenic Technologies. , 2015, , 45-57.		0
136	143 Merkel cell carcinoma-like tumor development in mice is dependent on the FBXW7 binding domain of Merkel cell polyomavirus small T antigen. Journal of Investigative Dermatology, 2017, 137, S24.	0.7	0
137	Activator of Gâ€protein Signaling 3 null mice: unexpected alterations in metabolic and cardiovascular function. FASEB Journal, 2008, 22, 908.1.	0.5	0
138	Murine Surf4 is essential for early embryonic development. , 2020, 15, e0227450.		0
139	Murine Surf4 is essential for early embryonic development. , 2020, 15, e0227450.		0
140	Murine Surf4 is essential for early embryonic development. , 2020, 15, e0227450.		0
141	Murine Surf4 is essential for early embryonic development. , 2020, 15, e0227450.		0