Luanne L Peters

List of Publications by Year
in descending order

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124 papers	7,309 citations	43973 48 h-index	60497 81 g-index
128 all docs	128 docs citations	128 times ranked	9441 citing authors

#	Article	IF	Citations
1	Mitoferrin is essential for erythroid iron assimilation. Nature, 2006, 440, 96-100.	13.7	514
2	Aging in inbred strains of mice: study design and interim report on median lifespans and circulating IGF1 levels. Aging Cell, 2009, 8, 277-287.	3.0	359
3	A band 3-based macrocomplex of integral and peripheral proteins in the RBC membrane. Blood, 2003, 101, 4180-4188.	0.6	330
4	The mouse as a model for human biology: a resource guide for complex trait analysis. Nature Reviews Genetics, 2007, 8, 58-69.	7.7	270
5	Anion Exchanger 1 (Band 3) Is Required to Prevent Erythrocyte Membrane Surface Loss but Not to Form the Membrane Skeleton. Cell, 1996, 86, 917-927.	13.5	267
6	Novel method for high-throughput phenotyping of sleep in mice. Physiological Genomics, 2007, 28, 232-238.	1.0	211
7	Multiple trait measurements in 43 inbred mouse strains capture the phenotypic diversity characteristic of human populations. Journal of Applied Physiology, 2007, 102, 2369-2378.	1.2	160
8	Ank3 (epithelial ankyrin), a widely distributed new member of the ankyrin gene family and the major ankyrin in kidney, is expressed in alternatively spliced forms, including forms that lack the repeat domain.. Journal of Cell Biology, 1995, 130, 313-330.	2.3	150
9	Mouse models of USH1C and DFNB18: phenotypic and molecular analyses of two new spontaneous mutations of the Ush1c gene. Human Molecular Genetics, 2003, 12, 3075-3086.	1.4	138
10	Urocortin Expression in the Edinger-Westphal Nucleus Is Up-Regulated by Stress and Corticotropin-Releasing Hormone Deficiency1. Endocrinology, 2000, 141, 256-263.	1.4	134
11	A widely expressed ÂIII spectrin associated with Golgi and cytoplasmic vesicles. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14158-14163.	3.3	132
12	Cell-specific mitotic defect and dyserythropoiesis associated with erythroid band 3 deficiency. Nature Genetics, 2003, 34, 59-64.	9.4	132
13	Absence of Erythroblast Macrophage Protein (Emp) Leads to Failure of Erythroblast Nuclear Extrusion. Journal of Biological Chemistry, 2006, 281, 20181-20189.	1.6	132
14	Distal Renal Tubular Acidosis in Mice Lacking the AE1 (Band3) Clâ^'/HCO3â^'Exchanger (slc4a1). Journal of the American Society of Nephrology: JASN, 2007, 18, 1408-1418.	3.0	127
15	PPAR-Î± and glucocorticoid receptor synergize to promote erythroid progenitor self-renewal. Nature, 2015, 522, 474-477.	13.7	117
16	Lutheran blood group glycoprotein and its newly characterized mouse homologue specifically bind Î±5 chain-containing human laminin with high affinity. Blood, 2001, 97, 312-320.	0.6	113
17	Transcriptional repression and developmental functions of the atypical vertebrate GATA protein TRPS1. EMBO Journal, 2001, 20, 1715-1725.	3.5	113
18	Mice as a Mammalian Model for Research on the Genetics of Aging. ILAR Journal, 2011, 52, 4-15.	1.8	113

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19	RASA3 is a critical inhibitor of RAP1-dependent platelet activation. Journal of Clinical Investigation, 2015, 125, 1419-1432.	3.9	113
20	Evidence that the red cell skeleton protein 4.2 interacts with the Rh membrane complex member CD47. Blood, 2003, 101, 338-344.	0.6	110
21	Targeted disruption of the beta adducin gene (Add2) causes red blood cell spherocytosis in mice. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10717-10722.	3.3	109
22	Protein 4.1Râ€“deficient mice are viable but have erythroid membrane skeleton abnormalities. Journal of Clinical Investigation, 1999, 103, 331-340.	3.9	107
23	The murine pallid mutation is a platelet storage pool disease associated with the protein 4.2 (pallidin) gene. Nature Genetics, 1992, 2, 80-83.	9.4	96
24	Aging Research Using Mouse Models. Current Protocols in Mouse Biology, 2015, 5, 95-133.	1.2	92
25	Characterization of glycolytic enzyme interactions with murine erythrocyte membranes in wild-type and membrane protein knockout mice. Blood, 2008, 112, 3900-3906.	0.6	87
26	N-Myristoyltransferase 1 Is Essential in Early Mouse Development. Journal of Biological Chemistry, 2005, 280, 18990-18995.	1.6	83
27	Implementing Large-Scale ENU Mutagenesis Screens in North America. Genetica, 2004, 122, 51-64.	0.5	81
28	Selected Contribution: Effects of spaceflight on immunity in the C57BL/6 mouse. II. Activation, cytokines, erythrocytes, and platelets. Journal of Applied Physiology, 2003, 94, 2095-2103.	1.2	79
29	Cappuccino, a mouse model of Hermansky-Pudlak syndrome, encodes a novel protein that is part of the pallidin-muted complex (BLOC-1). Blood, 2003, 101, 4402-4407.	0.6	79
30	Changes in the expression of splicing factor transcripts and variations in alternative splicing are associated with lifespan in mice and humans. Aging Cell, 2016, 15, 903-913.	3.0	79
31	Tropomodulin 1-null mice have a mild spherocytic elliptocytosis with appearance of Tropomodulin 3 in red blood cells and disruption of the membrane skeleton. Blood, 2010, 116, 2590-2599.	0.6	78
32	Dopamine in Hypophysial Portal Blood: Relationship to Circulating Prolactin in Pregnant and Lactating Rats*. Endocrinology, 1980, 106, 690-696.	1.4	77
33	Large-scale, high-throughput screening for coagulation and hematologic phenotypes in mice*. Physiological Genomics, 2002, 11, 185-193.	1.0	76
34	Targeted deletion of Î²III spectrin impairs synaptogenesis and generates ataxic and seizure phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6022-6027.	3.3	72
35	Mild spherocytosis and altered red cell ion transport in protein 4.2â€“null mice. Journal of Clinical Investigation, 1999, 103, 1527-1537.	3.9	72
36	Invited Review: Identifying new mouse models of cardiovascular disease: a review of high-throughput screens of mutagenized and inbred strains. Journal of Applied Physiology, 2003, 94, 1650-1659.	1.2	71

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37	Selected Contribution: Effects of spaceflight on immunity in the C57BL/6 mouse. I. Immune population distributions. Journal of Applied Physiology, 2003, 94, 2085-2094.	1.2	70
38	Isoforms of Ankyrin-3 That Lack the NH2-terminal Repeats Associate with Mouse Macrophage Lysosomes. Journal of Cell Biology, 1997, 136, 1059-1070.	2.3	69
39	Impaired Synaptic Plasticity and Learning in Mice Lacking Â-Adducin, an Actin-Regulating Protein. Journal of Neuroscience, 2005, 25, 2138-2145.	1.7	69
40	Melanosome Morphologies in Murine Models of Hermanskyâ€“Pudlak Syndrome Reflect Blocks in Organelle Development. Journal of Investigative Dermatology, 2002, 119, 1156-1164.	0.3	66
41	Targeted deletion of Î±-adducin results in absent Î²- and Î³-adducin, compensated hemolytic anemia, and lethal hydrocephalus in mice. Blood, 2008, 112, 4298-4307.	0.6	64
42	Severe anemia in theNanmutant mouse caused by sequence-selective disruption of erythroid KrÃ¼ppel-like factor. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15151-15156.	3.3	62
43	TMEM14C is required for erythroid mitochondrial heme metabolism. Journal of Clinical Investigation, 2014, 124, 4294-4304.	3.9	62
44	Ribosomal protein S19 expression during erythroid differentiation. Blood, 2003, 101, 318-324.	0.6	59
45	Mouse microcytic anaemia caused by a defect in the gene encoding the globin enhancer-binding protein NF-E2. Nature, 1993, 362, 768-770.	13.7	56
46	A New Spectrin, Î²IV, Has a Major Truncated Isoform That Associates with Promyelocytic Leukemia Protein Nuclear Bodies and the Nuclear Matrix. Journal of Biological Chemistry, 2001, 276, 23974-23985.	1.6	55
47	Role of hepatocyte nuclear factor 4Î± in control of blood coagulation factor gene expression. Journal of Molecular Medicine, 2006, 84, 334-344.	1.7	55
48	Four Paralogous Protein 4.1 Genes Map to Distinct Chromosomes in Mouse and Human. Genomics, 1998, 54, 348-350.	1.3	54
49	Reduced pigmentation (rp), a mouse model of Hermansky-Pudlak syndrome, encodes a novel component of the BLOC-1 complex. Blood, 2004, 104, 3181-3189.	0.6	48
50	Immunolocalization of AE2 Anion Exchanger in Rat and Mouse Epididymis1. Biology of Reproduction, 1999, 61, 973-980.	1.2	47
51	Defects in the cappuccino (cno) gene on mouse chromosome 5 and human 4p cause Hermansky-Pudlak syndrome by an AP-3â€“independent mechanism. Blood, 2000, 96, 4227-4235.	0.6	45
52	Genome-wide Trans-ethnic Meta-analysis Identifies Seven Genetic Loci Influencing Erythrocyte Traits and a Role for RBPMS in Erythropoiesis. American Journal of Human Genetics, 2017, 100, 51-63.	2.6	45
53	Novel inheritance of the murine severe combined anemia and thrombocytopenia (scat) phenotype. Cell, 1993, 74, 135-142.	13.5	44
54	Novel secreted isoform of adhesion molecule ICAM-4: potential regulator of membrane-associated ICAM-4 interactions. Blood, 2003, 101, 1790-1797.	0.6	41

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55	Combined Deletion of Mouse Dematin-Headpiece and Î²-Adducin Exerts a Novel Effect on the Spectrin-Actin Junctions Leading to Erythrocyte Fragility and Hemolytic Anemia. Journal of Biological Chemistry, 2007, 282, 4124-4135.	1.6	40
56	circRNAs expressed in human peripheral blood are associated with human aging phenotypes, cellular senescence and mouse lifespan. GeroScience, 2020, 42, 183-199.	2.1	40
57	Posterior Pituitary Lobectomy: Differential Elevation of Plasma Prolactin and Luteinizing Hormone in Estrous and Lactating Rats*. Endocrinology, 1982, 110, 1861-1865.	1.4	38
58	Analysis of the Mobilities of Band 3 Populations Associated with Ankyrin Protein and Junctional Complexes in Intact Murine Erythrocytes. Journal of Biological Chemistry, 2012, 287, 4129-4138.	1.6	35
59	Iron Regulatory Protein-1 Protects against Mitoferrin-1-deficient Porphyria. Journal of Biological Chemistry, 2014, 289, 7835-7843.	1.6	34
60	Limatin (LIMAB1), an Actin-Binding LIM Protein, Maps to Mouse Chromosome 19 and Human Chromosome 10q25, a Region Frequently Deleted in Human Cancers. Genomics, 1997, 46, 291-293.	1.3	33
61	Promiscuous DNA-binding of a mutant zinc finger protein corrupts the transcriptome and diminishes cell viability. Nucleic Acids Research, 2017, 45, 1130-1143.	6.5	33
62	Lack of Protein 4.1G Causes Altered Expression and Localization of the Cell Adhesion Molecule Nectin-Like 4 in Testis and Can Cause Male Infertility. Molecular and Cellular Biology, 2011, 31, 2276-2286.	1.1	32
63	Accessing Data Resources in the Mouse Phenome Database for Genetic Analysis of Murine Life Span and Health Span. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 170-177.	1.7	32
64	Ermap, a gene coding for a novel erythroid specific adhesion/receptor membrane protein. Gene, 2000, 242, 337-345.	1.0	31
65	Identification of Distal cis-Regulatory Elements at Mouse Mitoferrin Loci Using Zebrafish Transgenesis. Molecular and Cellular Biology, 2011, 31, 1344-1356.	1.1	31
66	Comparison of unrestrained plethysmography and forced oscillation for identifying genetic variability of airway responsiveness in inbred mice. Physiological Genomics, 2011, 43, 1-11.	1.0	31
67	Critical function for the Ras-GTPase activating protein RASA3 in vertebrate erythropoiesis and megakaryopoiesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12099-12104.	3.3	31
68	Changing patterns in cytoskeletal mRNA expression and protein synthesis during murine erythropoiesis in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 5749-5753.	3.3	29
69	Evidence for a protective role of the Gardos channel against hemolysis in murine spherocytosis. Blood, 2005, 106, 1454-1459.	0.6	29
70	Fasting blood glucose as a predictor of mortality: Lost in translation. Cell Metabolism, 2021, 33, 2189-2200.e3.	7.2	29
71	The Exon-Intron Structure and Chromosomal Localization of the Mouse Macrophage Mannose Receptor Gene Mrcl: Identification of a Ricin-like Domain at the N-Terminus of the Receptor. Biochemical and Biophysical Research Communications, 1994, 198, 682-692.	1.0	28
72	Distribution of epithelial ankyrin (Ank3) spliceoforms in renal proximal and distal tubules. American Journal of Physiology - Renal Physiology, 1998, 274, F129-F138.	1.3	28

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73	Cross-Species Analyses Identify Dlgap2 as a Regulator of Age-Related Cognitive Decline and Alzheimerâ€™s Dementia. Cell Reports, 2020, 32, 108091.	2.9	27
74	Physiological effects of housing density on C57BL/6J mice over a 9-month period1. Journal of Animal Science, 2012, 90, 5182-5192.	0.2	26
75	Murine Hn1 on Chromosome 11 is expressed in hemopoietic and brain tissues. Mammalian Genome, 1997, 8, 695-696.	1.0	25
76	Identification of quantitative trait loci that modify the severity of hereditary spherocytosis in wan, a new mouse model of band-3 deficiency. Blood, 2004, 103, 3233-3240.	0.6	25
77	Quantitative trait loci for baseline white blood cell count, platelet count, and mean platelet volume. Mammalian Genome, 2005, 16, 749-763.	1.0	25
78	A mouse TRAPP-related protein is involved in pigmentation. Genomics, 2006, 88, 196-203.	1.3	25
79	Effect of complete protein 4.1R deficiency on ion transport properties of murine erythrocytes. American Journal of Physiology - Cell Physiology, 2006, 291, C880-C886.	2.1	23
80	The Gene Encoding Protein 4.2 Is Distinct from the Mouse Platelet Storage Pool Deficiency Mutation Pallid. Genomics, 1997, 42, 532-535.	1.3	22
81	Protein 4.2 Binds to the Carboxyl-terminal EF-hands of Erythroid Î±-Spectrin in a Calcium- and Calmodulin-dependent Manner. Journal of Biological Chemistry, 2010, 285, 4757-4770.	1.6	22
82	A novel ENU-generated truncation mutation lacking the spectrin-binding and C-terminal regulatory domains of Ank1 models severe hemolytic hereditary spherocytosis. Experimental Hematology, 2011, 39, 305-320.e2.	0.2	21
83	Downeast Anemia (dea), a New Mouse Model of Severe Nonspherocytic Hemolytic Anemia Caused by Hexokinase (HKI) Deficiency. Blood Cells, Molecules, and Diseases, 2001, 27, 850-860.	0.6	20
84	Alterations in thin filament length during postnatal skeletal muscle development and aging in mice. Frontiers in Physiology, 2014, 5, 375.	1.3	20
85	Murine erythrocyte ankyrin cDNA: highly conserved regions of the regulatory domain. Mammalian Genome, 1992, 3, 281-285.	1.0	19
86	Relationships of dietary fat, body composition, and bone mineral density in inbred mouse strain panels. Physiological Genomics, 2008, 33, 26-32.	1.0	19
87	Î±- and Î²-Adducin polymorphisms affect podocyte proteins and proteinuria in rodents and decline of renal function in human IgA nephropathy. Journal of Molecular Medicine, 2010, 88, 203-217.	1.7	19
88	Effects of Housing Density in Five Inbred Strains of Mice. PLoS ONE, 2014, 9, e90012.	1.1	19
89	Neomorphic effects of the neonatal anemia (Nan-Eklf) mutation contribute to deficits throughout development. Development (Cambridge), 2017, 144, 430-440.	1.2	19
90	The mouse adducin gene family: alternative splicing and chromosomal localization. Mammalian Genome, 2000, 11, 16-23.	1.0	18

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91	Transgenic Cre expression mice for generation of erythroid-specific gene alterations. Genesis, 2004, 39, 1-9.	0.8	18
92	GeneticÂdifferences and longevityâ€related phenotypes influenceÂlifespan and lifespan variationÂin a sexâ€specific mannerÂin mice. Aging Cell, 2020, 19, e13263.	3.0	18
93	MicroRNAs miR-203-3p, miR-664-3p and miR-708-5p are associated with median strain lifespan in mice. Scientific Reports, 2017, 7, 44620.	1.6	17
94	Quantitative trait loci for baseline erythroid traits. Mammalian Genome, 2006, 17, 298-309.	1.0	16
95	Targeted deletion of the Î³â€adducin gene (Add3) in mice reveals differences in Î±â€adducin interactions in erythroid and nonerythroid cells. American Journal of Hematology, 2009, 84, 354-361.	2.0	15
96	Mutant KLF1 in Adult Anemic Nan Mice Leads to Profound Transcriptome Changes and Disordered Erythropoiesis. Scientific Reports, 2018, 8, 12793.	1.6	14
97	A new mouse mutant for the LDL receptor identified using ENU mutagenesis. Journal of Lipid Research, 2008, 49, 2452-2462.	2.0	13
98	Sequence variation at multiple loci influences red cell hemoglobin concentration. Blood, 2010, 116, e139-e149.	0.6	13
99	Genetic Localization ofCd63,a Member of the Transmembrane 4 Superfamily, Reveals Two Distinct Loci in the Mouse Genome. Genomics, 1996, 35, 389-391.	1.3	12
100	cDNA sequence and chromosomal localization of mouse Dlgh3 gene adjacent to the BRCA1 tumor suppressor locus. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1443, 211-216.	2.4	12
101	Analysis of novel sph (spherocytosis) alleles in mice reveals allele-specific loss of band 3 and adducin in Î±-spectrinâ€“deficient red cells. Blood, 2010, 115, 1804-1814.	0.6	12
102	Reduced DIDS-sensitive chloride conductance in Ae1â^'/â^' mouse erythrocytes. Blood Cells, Molecules, and Diseases, 2008, 41, 22-34.	0.6	10
103	Increased Reactive Oxygen Species and Cell Cycle Defects Contribute to Anemia in the RASA3 Mutant Mouse Model scat. Frontiers in Physiology, 2018, 9, 689.	1.3	10
104	Comparative proteomics reveals deficiency of SLC9A1 (sodium/hydrogen exchanger NHE1) in Î²â€adducin null red cells. British Journal of Haematology, 2011, 154, 492-501.	1.2	9
105	Strain-specific variations in cation content and transport in mouse erythrocytes. Physiological Genomics, 2013, 45, 343-350.	1.0	8
106	Genetic Regulation of Female Sexual Maturation and Longevity Through Circulating IGF1. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 817-826.	1.7	8
107	The Ubiquitous Subunit of the Globin Enhancer-Binding Protein NF-E2 (Nfe2u) Maps to Mouse Chromosome 5. Genomics, 1994, 22, 490-491.	1.3	7
108	The gene encoding the erythrocyte membrane skeleton protein dematin (Epb4.9) maps to mouse chromosome 14. Genomics, 1995, 26, 634-635.	1.3	4

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109	Spectrin localization in osteoclasts: Immunocytochemistry, cloning, and partial sequencing. Journal of Cellular Biochemistry, 1998, 71, 204-215.	1.2	4
110	cDNA sequence, genomic structure, and expression of the mouse dematin gene (Epb4.9). Mammalian Genome, 1999, 10, 1026-1029.	1.0	4
111	Thescatmouse model highlights RASA3, a GTPase activating protein, as a key regulator of vertebrate erythropoiesis and megakaryopoiesis. Small GTPases, 2013, 4, 47-50.	0.7	4
112	The Jackson Laboratory Nathan Shock Center: impact of genetic diversity on aging. GeroScience, 2021, 43, 2129-2137.	2.1	4
113	Strainâ€specific hyperkyphosis and megaesophagus in Add1 null mice. Genesis, 2012, 50, 882-891.	0.8	3
114	Differential effects of RASA3 mutations on hematopoiesis are profoundly influenced by genetic background and molecular variant. PLoS Genetics, 2020, 16, e1008857.	1.5	3
115	Rasa3 regulates stage-specific cell cycle progression in murine erythropoiesis. Blood Cells, Molecules, and Diseases, 2021, 87, 102524.	0.6	2
116	Emp Null Mice Are Non-Viable and Exhibit Erythroid Differentiation Defect.. Blood, 2005, 106, 806-806.	0.6	2
117	RASA3 Plays a Critical, Conserved Role in Erythroid Differentiation. Blood, 2012, 120, 3186-3186.	0.6	2
118	The C-Terminus of Alpha Spectrin Binds Protein 4.2 and Is Necessary for Optimal Spectrin-Actin Binding.. Blood, 2005, 106, 810-810.	0.6	1
119	Targeted Deletion of Î±-Adducin Results in Absent Î²-Adducin, Compensated Hemolytic Anemia, and Hydrocephalus in Mice.. Blood, 2007, 110, 141-141.	0.6	1
120	The Posterior Pituitary. Obstetrical and Gynecological Survey, 1982, 37, 185-186.	0.2	0
121	Spectrin unfolding mutations: kinks in the links. Blood, 2007, 109, 3133-3134.	0.6	0
122	Iron regulatory protein-1 protects against mitoferrin-1-deficient porphyria.. Journal of Biological Chemistry, 2014, 289, 13707.	1.6	0
123	Two New Recessive Mouse Mutations Cause Severe Hemolytic Anemia and Reveal Unexpected Interactions in the C-Terminus of Î±-Spectrin.. Blood, 2005, 106, 1662-1662.	0.6	0
124	Failure of Erythropoiesis and Megakaryocytopoiesis in RASA3 Mutant Scat Mice. Blood, 2011, 118, 680-680.	0.6	0