

Matthew D Layne

List of Publications by Year in descending order

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79
papers

5,323
citations

101543

36
h-index

82547

72
g-index

80
all docs

80
docs citations

80
times ranked

7180
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac-Specific Expression of Heme Oxygenase-1 Protects Against Ischemia and Reperfusion Injury in Transgenic Mice. <i>Circulation Research</i> , 2001, 89, 168-173.	4.5	385
2	Hypoxia induces severe right ventricular dilatation and infarction in heme oxygenase-1 null mice. <i>Journal of Clinical Investigation</i> , 1999, 103, R23-R29.	8.2	377
3	Akt Participation in the Wnt Signaling Pathway through Dishevelled. <i>Journal of Biological Chemistry</i> , 2001, 276, 17479-17483.	3.4	307
4	Gene Therapy Strategy for Long-Term Myocardial Protection Using Adeno-Associated Virus-Mediated Delivery of Heme Oxygenase Gene. <i>Circulation</i> , 2002, 105, 602-607.	1.6	302
5	Absence of heme oxygenase-1 exacerbates atherosclerotic lesion formation and vascular remodeling. <i>FASEB Journal</i> , 2003, 17, 1759-1761.	0.5	261
6	Down-regulation of Krüppel-like Factor-4 (KLF4) by MicroRNA-143/145 Is Critical for Modulation of Vascular Smooth Muscle Cell Phenotype by Transforming Growth Factor- β^2 and Bone Morphogenetic Protein 4. <i>Journal of Biological Chemistry</i> , 2011, 286, 28097-28110.	3.4	227
7	CLIF, a Novel Cycle-like Factor, Regulates the Circadian Oscillation of Plasminogen Activator Inhibitor-1 Gene Expression. <i>Journal of Biological Chemistry</i> , 2000, 275, 36847-36851.	3.4	189
8	Human EZF, a Krüppel-like Zinc Finger Protein, Is Expressed in Vascular Endothelial Cells and Contains Transcriptional Activation and Repression Domains. <i>Journal of Biological Chemistry</i> , 1998, 273, 1026-1031.	3.4	167
9	Identification of a chronic obstructive pulmonary disease genetic determinant that regulates HHIP. <i>Human Molecular Genetics</i> , 2012, 21, 1325-1335.	2.9	143
10	Cardiovascular Basic Helix Loop Helix Factor 1, a Novel Transcriptional Repressor Expressed Preferentially in the Developing and Adult Cardiovascular System. <i>Journal of Biological Chemistry</i> , 2000, 275, 6381-6387.	3.4	139
11	Absence of Heme Oxygenase-1 Exacerbates Myocardial Ischemia/Reperfusion Injury in Diabetic Mice. <i>Diabetes</i> , 2005, 54, 778-784.	0.6	135
12	Myocardin-Related Transcription Factor A Regulates Conversion of Progenitors to Beige Adipocytes. <i>Cell</i> , 2015, 160, 105-118.	28.9	129
13	Cyclooxygenase-2 deficient mice are resistant to endotoxin-induced inflammation and death. <i>FASEB Journal</i> , 2003, 17, 1325-1327.	0.5	114
14	Thioredoxin Facilitates the Induction of Heme Oxygenase-1 in Response to Inflammatory Mediators. <i>Journal of Biological Chemistry</i> , 2000, 275, 24840-24846.	3.4	108
15	Myocardin-related Transcription Factor-A Complexes Activate Type I Collagen Expression in Lung Fibroblasts. <i>Journal of Biological Chemistry</i> , 2011, 286, 44116-44125.	3.4	108
16	Bi-allelic Alterations in AEBP1 Lead to Defective Collagen Assembly and Connective Tissue Structure Resulting in a Variant of Ehlers-Danlos Syndrome. <i>American Journal of Human Genetics</i> , 2018, 102, 696-705.	6.2	105
17	Exacerbation of Chronic Renovascular Hypertension and Acute Renal Failure in Heme Oxygenase-1 Deficient Mice. <i>Circulation Research</i> , 2001, 88, 1088-1094.	4.5	100
18	Actionable Cytopathogenic Host Responses of Human Alveolar Type 2 Cells to SARS-CoV-2. <i>Molecular Cell</i> , 2020, 80, 1104-1122.e9.	9.7	94

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19	Impaired Abdominal Wall Development and Deficient Wound Healing in Mice Lacking Aortic Carboxypeptidase-Like Protein. <i>Molecular and Cellular Biology</i> , 2001, 21, 5256-5261.	2.3	85
20	IFN Regulatory Factor-1 Regulates IFN- β -Dependent Cathepsin S Expression. <i>Journal of Immunology</i> , 2002, 168, 4488-4494.	0.8	85
21	A Role of Myocardin Related Transcription Factor-A (MRTF-A) in Scleroderma Related Fibrosis. <i>PLoS ONE</i> , 2015, 10, e0126015.	2.5	77
22	Aortic Carboxypeptidase-like Protein, a Novel Protein with Discoidin and Carboxypeptidase-like Domains, Is Up-regulated during Vascular Smooth Muscle Cell Differentiation. <i>Journal of Biological Chemistry</i> , 1998, 273, 15654-15660.	3.4	75
23	Role of macrophage-expressed adipocyte fatty acid binding protein in the development of accelerated atherosclerosis in hypercholesterolemic mice. <i>FASEB Journal</i> , 2001, 15, 1-19.	0.5	75
24	Tumor Necrosis Factor- α and Basic Fibroblast Growth Factor Differentially Inhibit the Insulin-like Growth Factor-I Induced Expression of Myogenin in C2C12 Myoblasts. <i>Experimental Cell Research</i> , 1999, 249, 177-187.	2.6	66
25	Characterization of the Mouse Aortic Carboxypeptidase-Like Protein Promoter Reveals Activity in Differentiated and Dedifferentiated Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2002, 90, 728-736.	4.5	64
26	Regulation of Myogenic Terminal Differentiation by the Hairy-related Transcription Factor CHF2. <i>Journal of Biological Chemistry</i> , 2001, 276, 18591-18596.	3.4	61
27	Embryonic Expression Suggests an Important Role for CRP2/SmLIM in the Developing Cardiovascular System. <i>Circulation Research</i> , 1998, 83, 980-985.	4.5	59
28	Striated Muscle Preferentially Expressed Genes β and β^2 Are Two Serine/Threonine Protein Kinases Derived from the Same Gene as the Aortic Preferentially Expressed Gene-1. <i>Journal of Biological Chemistry</i> , 2000, 275, 36966-36973.	3.4	59
29	In Vitro System for Differentiating Pluripotent Neural Crest Cells into Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 5993-5996.	3.4	58
30	Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain. <i>Journal of Biological Chemistry</i> , 1999, 274, 31565-31570.	3.4	56
31	Increased Neointima Formation in Cysteine-Rich Protein 2-deficient Mice in Response to Vascular Injury. <i>Circulation Research</i> , 2005, 97, 1323-1331.	4.5	56
32	Regulation of Smooth Muscle Cell Differentiation by AT-Rich Interaction Domain Transcription Factors Mrf2 β and Mrf2 β^2 . <i>Circulation Research</i> , 2002, 91, 382-389.	4.5	51
33	Aortic Carboxypeptidase-like Protein (ACLP) Enhances Lung Myofibroblast Differentiation through Transforming Growth Factor β^2 Receptor-dependent and -independent Pathways. <i>Journal of Biological Chemistry</i> , 2014, 289, 2526-2536.	3.4	50
34	Pre-emptive gene therapy using recombinant adeno-associated virus delivery of extracellular superoxide dismutase protects heart against ischemic reperfusion injury, improves ventricular function and prolongs survival. <i>Gene Therapy</i> , 2004, 11, 962-969.	4.5	49
35	Absence of adipocyte fatty acid binding protein prevents the development of accelerated atherosclerosis in hypercholesterolemic mice. <i>FASEB Journal</i> , 2001, 15, 1774-1776.	0.5	41
36	Elk-3 Is a Transcriptional Repressor of Nitric-oxide Synthase 2. <i>Journal of Biological Chemistry</i> , 2003, 278, 39572-39577.	3.4	41

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37	Disruption of Striated Preferentially Expressed Gene Locus Leads to Dilated Cardiomyopathy in Mice. <i>Circulation</i> , 2009, 119, 261-268.	1.6	37
38	Aortic Carboxypeptidase-Like Protein Is Expressed in Fibrotic Human Lung and its Absence Protects against Bleomycin-Induced Lung Fibrosis. <i>American Journal of Pathology</i> , 2009, 174, 818-828.	3.8	37
39	Bone Morphogenetic Protein Signaling in Vascular Disease. <i>Journal of Biological Chemistry</i> , 2012, 287, 28067-28077.	3.4	37
40	Molecular Cloning, Characterization, and Promoter Analysis of the Mouse Crp2/SmLim Gene. <i>Journal of Biological Chemistry</i> , 1998, 273, 10530-10537.	3.4	36
41	Heme Oxygenase 1 in Regulation of Inflammation and Oxidative Damage. <i>Methods in Enzymology</i> , 2002, 353, 163-176.	1.0	34
42	Upstream Stimulatory Factors Regulate Aortic Preferentially Expressed Gene-1 Expression in Vascular Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 47658-47663.	3.4	32
43	Modulation of the Thioredoxin System During Inflammatory Responses and Its Effect on Heme Oxygenase-1 Expression. <i>Antioxidants and Redox Signaling</i> , 2002, 4, 569-575.	5.4	32
44	Molecular Mechanisms of Morning Onset of Myocardial Infarction. <i>Annals of the New York Academy of Sciences</i> , 2001, 947, 398-402.	3.8	32
45	Aortic carboxypeptidase-like protein is expressed in collagen-rich tissues during mouse embryonic development. <i>Gene Expression Patterns</i> , 2005, 5, 533-537.	0.8	30
46	Reduction of Nitric Oxide Synthase 2 Expression by Distamycin A Improves Survival from Endotoxemia. <i>Journal of Immunology</i> , 2004, 173, 4147-4153.	0.8	28
47	Transforming Growth Factor β 2 Up-regulates Cysteine-rich Protein 2 in Vascular Smooth Muscle Cells via Activating Transcription Factor 2. <i>Journal of Biological Chemistry</i> , 2008, 283, 15003-15014.	3.4	28
48	Endotoxin-Induced Down-Regulation of Elk-3 Facilitates Heme Oxygenase-1 Induction in Macrophages. <i>Journal of Immunology</i> , 2006, 176, 2414-2420.	0.8	26
49	The glycosylation-dependent interaction of perlecan core protein with LDL: implications for atherosclerosis. <i>Journal of Lipid Research</i> , 2015, 56, 266-276.	4.2	25
50	Netropsin improves survival from endotoxaemia by disrupting HMGA1 binding to the <i>NOS2</i> promoter. <i>Biochemical Journal</i> , 2009, 418, 103-112.	3.7	24
51	Synthesis of phosphocholine and quaternary amine ether lipids and evaluation of in vitro antineoplastic activity. <i>Journal of Medicinal Chemistry</i> , 1993, 36, 2018-2025.	6.4	23
52	Distamycin A Inhibits HMGA1-Binding to the P-Selectin Promoter and Attenuates Lung and Liver Inflammation during Murine Endotoxemia. <i>PLoS ONE</i> , 2010, 5, e10656.	2.5	23
53	Cysteine-rich protein 2 alters p130Cas localization and inhibits vascular smooth muscle cell migration. <i>Cardiovascular Research</i> , 2013, 100, 461-471.	3.8	23
54	Genomic Cloning and Promoter Analysis of Aortic Preferentially Expressed Gene-1. <i>Journal of Biological Chemistry</i> , 1999, 274, 14344-14351.	3.4	21

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55	Heme oxygenase-1 in environmental toxin-induced lung disease. <i>Toxicology Mechanisms and Methods</i> , 2012, 22, 323-329.	2.7	21
56	Obesity-induced senescent macrophages activate a fibrotic transcriptional program in adipocyte progenitors. <i>Life Science Alliance</i> , 2022, 5, e202101286.	2.8	20
57	Aortic carboxypeptidase-like protein is regulated by transforming growth factor β in 3T3-L1 preadipocytes. <i>Experimental Cell Research</i> , 2005, 308, 265-272.	2.6	19
58	Identification of a CArG-independent region of the cysteine-rich protein 2 promoter that directs expression in the developing vasculature. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H1675-H1683.	3.2	18
59	Impaired Glucocorticoid Suppression of TGF β Signaling in Human Omental Adipose Tissues Limits Adipogenesis and May Promote Fibrosis. <i>Diabetes</i> , 2019, 68, 587-597.	0.6	17
60	Down-Regulation of Aortic Carboxypeptidase-Like Protein during the Early Phase of 3T3-L1 Adipogenesis. <i>Endocrinology</i> , 2002, 143, 2478-2485.	2.8	16
61	Divergent signaling pathways cooperatively regulate TGF β induction of cysteine-rich protein 2 in vascular smooth muscle cells. <i>Cell Communication and Signaling</i> , 2014, 12, 22.	6.5	16
62	Gastroschisis in Mice Lacking Aortic Carboxypeptidase-Like Protein Is Associated With a Defect in Neuromuscular Development of the Eviscerated Intestine. <i>Pediatric Research</i> , 2010, 68, 23-28.	2.3	15
63	Matrisome changes in Parkinson's disease. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3005-3015.	3.7	14
64	Telomerase, Myofibroblasts, and Pulmonary Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006, 34, 520-522.	2.9	13
65	Discoidin Domain Receptor 2 Impairs Insulin-stimulated Insulin Receptor Substrate-1 Tyrosine Phosphorylation and Glucose Uptake in 3T3-L1 Adipocytes. <i>Hormone and Metabolic Research</i> , 2007, 39, 575-581.	1.5	13
66	Aortic carboxypeptidase-like protein enhances adipose tissue stromal progenitor differentiation into myofibroblasts and is upregulated in fibrotic white adipose tissue. <i>PLoS ONE</i> , 2018, 13, e0197777.	2.5	13
67	Intronic CArG Box Regulates Cysteine-Rich Protein 2 Expression in the Adult but Not in Developing Vasculature. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 835-842.	2.4	11
68	High mobility group A1 protein mediates human nitric oxide synthase 2 gene expression. <i>FEBS Letters</i> , 2008, 582, 810-814.	2.8	9
69	Frontline Science: Targeted expression of a dominant-negative high mobility group A1 transgene improves outcome in sepsis. <i>Journal of Leukocyte Biology</i> , 2018, 104, 677-689.	3.3	9
70	Mechanisms of aortic carboxypeptidase-like protein secretion and identification of an intracellularly retained variant associated with Ehlers-Danlos syndrome. <i>Journal of Biological Chemistry</i> , 2020, 295, 9725-9735.	3.4	9
71	Superoxide production by macrophages stimulated in vivo with synthetic ether lipids. <i>Lipids</i> , 1994, 29, 237-242.	1.7	7
72	Modulation of cysteine-rich protein 2 expression in vascular injury and atherosclerosis. <i>Molecular Biology Reports</i> , 2014, 41, 7033-7041.	2.3	7

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73	Therapeutic Potential of Heme Oxygenase-1 in Aneurysmal Diseases. <i>Antioxidants</i> , 2020, 9, 1150.	5.1	7
74	Lung Atelectasis Promotes Immune and Barrier Dysfunction as Revealed by Transcriptome Sequencing in Female Sheep. <i>Anesthesiology</i> , 2020, 133, 1060-1076.	2.5	7
75	Aortic carboxypeptidase-like protein regulates vascular adventitial progenitor and fibroblast differentiation through myocardin related transcription factor A. <i>Scientific Reports</i> , 2021, 11, 3948.	3.3	6
76	Cysteine-rich protein 2 deficiency attenuates angiotensin II-induced abdominal aortic aneurysm formation in mice. <i>Journal of Biomedical Science</i> , 2022, 29, 25.	7.0	5
77	Adipose Stroma Accelerates the Invasion and Escape of Human Breast Cancer Cells from an Engineered Microtumor. <i>Cellular and Molecular Bioengineering</i> , 2022, 15, 15-29.	2.1	4
78	Adipocyte Enhancer Binding Protein 1 and Aortic Carboxypeptidase-Like Protein. , 2013, , 1348-1353.		3
79	Aortic Carboxypeptidase-Like Protein Enhances Lung Myofibroblast Differentiation. <i>FASEB Journal</i> , 2013, 27, 132.11.	0.5	0