Emanuela Tolosano

List of Publications by Year
in descending order

90 papers	4,610 citations	117625 34 h-index	106344 65 g-index
92 all docs	92 docs citations	92 times ranked	5962 citing authors

#	Article	IF	Citations
1	Hemopexin: Structure, Function, and Regulation. DNA and Cell Biology, 2002, 21, 297-306.	1.9	368
2	Heme in pathophysiology: a matter of scavenging, metabolism and trafficking across cell membranes. Frontiers in Pharmacology, 2014, 5, 61.	3.5	305
3	Heme controls ferroportin1 (FPN1) transcription involving Bach1, Nrf2 and a MARE/ARE sequence motif at position -7007 of the FPN1 promoter. Haematologica, 2010, 95, 1261-1268.	3.5	228
4	Hemoglobin and heme scavenging. IUBMB Life, 2005, 57, 749-759.	3.4	227
5	Heme Scavenging and the Other Facets of Hemopexin. Antioxidants and Redox Signaling, 2010, 12, 305-320.	5.4	220
6	Hemopexin therapy reverts heme-induced proinflammatory phenotypic switching of macrophages in a mouse model of sickle cell disease. Blood, 2016, 127, 473-486.	1.4	213
7	Haptoglobin, hemopexin, and related defense pathwaysÃ¢â‚¬â€basic science, clinical perspectives, and drug development. Frontiers in Physiology, 2014, 5, 415.	2.8	204
8	Hemopexin Therapy Improves Cardiovascular Function by Preventing Heme-Induced Endothelial Toxicity in Mouse Models of Hemolytic Diseases. Circulation, 2013, 127, 1317-1329.	1.6	197
9	The mitochondrial heme exporter FLVCR1b mediates erythroid differentiation. Journal of Clinical Investigation, 2012, 122, 4569-4579.	8.2	153
10	Defective Recovery and Severe Renal Damage After Acute Hemolysis in Hemopexin-Deficient Mice. Blood, 1999, 94, 3906-3914.	1.4	141
11	Heme and erythropoieis: more than a structural role. Haematologica, 2014, 99, 973-983.	3.5	139
12	Intravascular hemolysis activates complement via cell-free heme and heme-loaded microvesicles. JCI Insight, 2018, 3, .	5.0	135
13	Enhanced splenomegaly and severe liver inflammation in haptoglobin/hemopexin double-null mice after acute hemolysis. Blood, 2002, 100, 4201-4208.	1.4	122
14	Hemopexin Prevents Endothelial Damage and Liver Congestion in a Mouse Model of Heme Overload. American Journal of Pathology, 2008, 173, 289-299.	3.8	113
15	Plasma Protein Haptoglobin Modulates Renal Iron Loading. American Journal of Pathology, 2005, 166, 973-983.	3.8	96
16	Hemeâ€“Hemopexin Complex Attenuates Neuronal Cell Death and Stroke Damage. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 953-964.	4.3	81
17	The Multifaceted Role of Heme in Cancer. Frontiers in Oncology, 2019, 9, 1540.	2.8	80
18	Heme accumulation in endothelial cells impairs angiogenesis by triggering paraptosis. Cell Death and Differentiation, 2018, 25, 573-588.	11.2	78

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19	Heme Exporter FLVCR1a Regulates Heme Synthesis and DegradationÂand Controls Activity of Cytochromes P450. Gastroenterology, 2014, 146, 1325-1338.	1.3	59
20	The RNA-binding protein ESRP1 promotes human colorectal cancer progression. Oncotarget, 2017, 8, 10007-10024.	1.8	57
21	The heme exporter Flvcr1 regulates expansion and differentiation of committed erythroid progenitors by controlling intracellular heme accumulation. Haematologica, 2015, 100, 720-729.	3.5	54
22	Deletion of the hemopexin or heme oxygenase-2 gene aggravates brain injury following stroma-free hemoglobin-induced intracerebral hemorrhage. Journal of Neuroinflammation, 2016, 13, 26.	7.2	51
23	IL-22 controls iron-dependent nutritional immunity against systemic bacterial infections. Science Immunology, 2017, 2, .	11.9	50
24	Haemopexin affects iron distribution and ferritin expression in mouse brain. Journal of Cellular and Molecular Medicine, 2009, 13, 4192-4204.	3.6	44
25	Mutations in the Heme Exporter FLVCR1 Cause Sensory Neurodegeneration with Loss of Pain Perception. PLoS Genetics, 2016, 12, e1006461.	3.5	43
26	Specific Expression in Brain and Liver Driven by the Hemopexin Promoter in Transgenic Mice. Biochemical and Biophysical Research Communications, 1996, 218, 694-703.	2.1	42
27	Unraveling the Role of Heme in Neurodegeneration. Frontiers in Neuroscience, 2018, 12, 712.	2.8	42
28	Green fluorescent protein as a reporter of gene expression in transgenic mice. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1352, 193-202.	2.4	40
29	Inhibition of Neutrophil Migration by Hemopexin Leads to Increased Mortality Due to Sepsis in Mice. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 922-931.	5.6	40
30	The RNA Binding Protein ESRP1 Fine-Tunes the Expression of Pluripotency-Related Factors in Mouse Embryonic Stem Cells. PLoS ONE, 2013, 8, e72300.	2.5	39
31	Therapeutic Approaches to Limit Hemolysis-Driven Endothelial Dysfunction: Scavenging Free Heme to Preserve Vasculature Homeostasis. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-11.	4.0	38
32	Hemopexin counteracts systolic dysfunction induced by heme-driven oxidative stress. Free Radical Biology and Medicine, 2017, 108, 452-464.	2.9	38
33	Haptoglobin modifies the hemochromatosis phenotype in mice. Blood, 2005, 105, 3353-3355.	1.4	36
34	The Crosstalk Between Osteodifferentiating Stem Cells and Endothelial Cells Promotes Angiogenesis and Bone Formation. Frontiers in Physiology, 2019, 10, 1291.	2.8	36
35	Crucial Role of FLVCR1a in the Maintenance of Intestinal Heme Homeostasis. Antioxidants and Redox Signaling, 2015, 23, 1410-1423.	5.4	33
36	Extracellular vesicles from human liver stem cells restore argininosuccinate synthase deficiency. Stem Cell Research and Therapy, 2017, 8, 176.	5.5	33

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37	Lack of Haptoglobin Affects Iron Transport Across Duodenum by Modulating Ferroportin Expression. Gastroenterology, 2007, 133, 1261-1271.e3.	1.3	31
38	The heme synthesis-export system regulates the tricarboxylic acid cycle flux and oxidative phosphorylation. Cell Reports, 2021, 35, 109252.	6.4	29
39	A Role for Hemopexin in Oligodendrocyte Differentiation and Myelin Formation. PLoS ONE, 2011, 6, e20173.	2.5	28
40	Acute-Phase Protein Hemopexin Is a Negative Regulator of Th17 Response and Experimental Autoimmune Encephalomyelitis Development. Journal of Immunology, 2013, 191, 5451-5459.	0.8	28
41	Fyn kinase is a novel modulator of erythropoietin signaling and stress erythropoiesis. American Journal of Hematology, 2019, 94, 10-20.	4.1	28
42	Renal Cells from Spermatogonial Germline Stem Cells Protect against Kidney Injury. Journal of the American Society of Nephrology: JASN, 2014, 25, 316-328.	6.1	27
43	Scavenging of Labile Heme by Hemopexin Is a Key Checkpoint in Cancer Growth and Metastases. Cell Reports, 2020, 32, 108181.	6.4	27
44	Mitochondrial Targeting in Neurodegeneration: A Heme Perspective. Pharmaceuticals, 2018, 11, 87.	3.8	26
45	Diamond Blackfan Anemia at the Crossroad between Ribosome Biogenesis and Heme Metabolism. Advances in Hematology, 2010, 2010, 1-8.	1.0	22
46	Aluminaâ€“zirconia composites functionalized with laminin-1 and laminin-5 for dentistry: Effect of protein adsorption on cellular response. Colloids and Surfaces B: Biointerfaces, 2014, 114, 284-293.	5.0	22
47	Cloning and expression of human ciliary neurotrophic factor. FEBS Journal, 1991, 201, 289-294.	0.2	21
48	Generation of Functional Hepatocytes From Mouse Germ Line Cell-Derived Pluripotent Stem Cells In Vitro. Stem Cells and Development, 2010, 19, 1183-1194.	2.1	21
49	Cell-specific regulation of Ferroportin transcription following experimentally-induced acute anemia in mice. Blood Cells, Molecules, and Diseases, 2013, 50, 25-30.	1.4	21
50	Posterior column ataxia with retinitis pigmentosa coexisting with sensoryâ€autonomic neuropathy and leukemia due to the homozygous p.Pro221Ser FLVCR1 mutation. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2017, 174, 732-739.	1.7	21
51	Purinergic Calcium Signals in Tumor-Derived Endothelium. Cancers, 2019, 11, 766.	3.7	20
52	Assessment of iron absorption in mice by ICP-MS measurements of 57Fe levels. European Journal of Nutrition, 2012, 51, 783-789.	3.9	19
53	The murine Y1receptor 5â€² upstream sequence directs cell-specific and developmentally regulatedLacZexpression in transgenic mice CNS. European Journal of Neuroscience, 1998, 10, 3257-3268.	2.6	18
54	Evolving Cell-Based and Cell-Free Clinical Strategies for Treating Severe Human Liver Diseases. Cells, 2020, 9, 386.	4.1	18

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55	Analysis of the murine phosphoinositide 3-kinase Î³ gene. Gene, 2000, 256, 69-81.	2.2	16
56	Heme and sensory neuropathy: insights from novel mutations in the heme exporter feline leukemia virus subgroup C receptor 1. Pain, 2019, 160, 2766-2775.	4.2	16
57	Lack of Plasma Protein Hemopexin Dampens Mercury-Induced Autoimmune Response in Mice. Journal of Immunology, 2008, 181, 1937-1947.	0.8	15
58	Hypoxia controls Flvcr1 gene expression in Caco2 cells through HIF2Î± and ETS1. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 259-264.	1.9	15
59	Characterization of Human Mesenchymal Stem Cells Isolated from the Testis. Stem Cells International, 2018, 2018, 1-9.	2.5	14
60	Hereditary Ataxia: A Focus on Heme Metabolism and Fe-S Cluster Biogenesis. International Journal of Molecular Sciences, 2020, 21, 3760.	4.1	14
61	Data demonstrating the anti-oxidant role of hemopexin in the heart. Data in Brief, 2017, 13, 69-76.	1.0	13
62	Ciliary Neurotrophic Factor Constitutively Expressed in the Nervous System of Transgenic Mice Protects Embryonic Dorsal Root Ganglion Neurons from Apoptosis. European Journal of Neuroscience, 1996, 8, 521-529.	2.6	12
63	Proteomics-Based Evidence for a Pro-Oncogenic Role of ESRP1 in Human Colorectal Cancer Cells. International Journal of Molecular Sciences, 2020, 21, 575.	4.1	12
64	Targeting Metabolism to Counteract Tumor Angiogenesis: A Review of Patent Literature. Recent Patents on Anti-Cancer Drug Discovery, 2018, 13, 422-427.	1.6	11
65	Investigating the Connection Between Endogenous Heme Accumulation and COX2 Activity in Cancer Cells. Frontiers in Oncology, 2019, 9, 162.	2.8	11
66	Temporal and age-dependent effects of haptoglobin deletion on intracerebral hemorrhage-induced brain damage and neurobehavioral outcomes. Experimental Neurology, 2019, 317, 22-33.	4.1	11
67	Human liver stem cells express UGT1A1 and improve phenotype of immunocompromised Crigler Najjar syndrome type I mice. Scientific Reports, 2020, 10, 887.	3.3	11
68	Lack of Plasma Protein Hemopexin Results in Increased Duodenal Iron Uptake. PLoS ONE, 2013, 8, e68146.	2.5	11
69	Regenerative Approaches and Future Trends for the Treatment of Corneal Burn Injuries. Journal of Clinical Medicine, 2021, 10, 317.	2.4	10
70	Divergent roles of haptoglobin and hemopexin deficiency for disease progression of Shiga-toxinâ€“induced hemolytic-uremic syndrome in mice. Kidney International, 2022, 101, 1171-1185.	5.2	10
71	Microarray and Large-ScaleIn Silicoâ€“Based Identification of Genes Functionally Related to Haptoglobin and/or Hemopexin. DNA and Cell Biology, 2006, 25, 323-330.	1.9	9
72	Age-Dependent Effects of Haptoglobin Deletion in Neurobehavioral and Anatomical Outcomes Following Traumatic Brain Injury. Frontiers in Molecular Biosciences, 2016, 3, 34.	3.5	9

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73	Circulating Extracellular Vesicles Contain Liver-Derived RNA Species as Indicators of Severe Cholestasis-Induced Early Liver Fibrosis in Mice. Antioxidants and Redox Signaling, 2022, 36, 480-504.	5.4	9
74	In vitro study of olfactory receptor neurones expressing the dipeptide carnosine. NeuroReport, 1994, 5, 569-572.	1.2	8
75	Increasing serum transferrin to reduce tissue iron overload due to ineffective erythropoiesis. Haematologica, 2015, 100, 565-566.	3.5	8
76	HEME: a neglected player in nociception?. Neuroscience and Biobehavioral Reviews, 2021, 124, 124-136.	6.1	8
77	Haptoglobin and Hemopexin in Heme Detoxification and Iron Recycling. , 0, , .		7
78	Long Term Liver Engraftment of Functional Hepatocytes Obtained from Germline Cell-Derived Pluripotent Stem Cells. PLoS ONE, 2015, 10, e0136762.	2.5	7
79	Liver Sinusoidal Endothelial Cells at the Crossroad of Iron Overload and Liver Fibrosis. Antioxidants and Redox Signaling, 2021, 35, 474-486.	5.4	6
80	The RNA-Binding Protein ESRP1 Modulates the Expression of RAC1b in Colorectal Cancer Cells. Cancers, 2021, 13, 4092.	3.7	6
81	Endothelial Heme Dynamics Drive Cancer Cell Metabolism by Shaping the Tumor Microenvironment. Biomedicines, 2021, 9, 1557.	3.2	5
82	Inhibition of Heme Export and/or Heme Synthesis Potentiates Metformin Anti-Proliferative Effect on Cancer Cell Lines. Cancers, 2022, 14, 1230.	3.7	5
83	Defective Recovery and Severe Renal Damage After Acute Hemolysis in Hemopexin-Deficient Mice. Blood, 1999, 94, 3906-3914.	1.4	4
84	Hemopexin and Cancer. International Journal of Molecular Sciences, 2022, 23, 997.	4.1	4
85	Analysis of regulatory regions of the ciliary neurotrophic factor gene in transgenic mice. NeuroReport, 1995, 7, 57-60.	1.2	3
86	Endothelial Cells Promote Osteogenesis by Establishing a Functional and Metabolic Coupling With Human Mesenchymal Stem Cells. Frontiers in Physiology, 2021, 12, 813547.	2.8	3
87	Role of extracellular matrix molecules in the development of the sodium current in quail mesencephalic neural crest cells. Experientia, 1992, 48, 859-864.	1.2	2
88	Analysis of regulatory regions of the ciliary neurotrophic factor gene in transgenic mice. NeuroReport, 1995, 7, 57-60.	1.2	2
89	Expression and purification of the heme exporter FLVCR1a. Protein Expression and Purification, 2020, 172, 105637.	1.3	1
90	The Heme Scavenger Hemopexin Reverts Heme-Driven Pro-Inflammatory Phenotypic Switching of Macrophages in Sickle Cell Disease. Blood, 2015, 126, 2205-2205.	1.4	0