

Jens Kroll

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

937
citations

471509

17
h-index

501196

28
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41
all docs

41
docs citations

41
times ranked

1453
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of Rho-dependent kinases ROCK I/II activates VEGF-driven retinal neovascularization and sprouting angiogenesis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H893-H899.	3.2	75
2	The Rac1 Regulator ELMO1 Controls Vascular Morphogenesis in Zebrafish. <i>Circulation Research</i> , 2010, 107, 45-55.	4.5	69
3	Aging-Dependent Reduction in Glyoxalase 1 Delays Wound Healing. <i>Gerontology</i> , 2013, 59, 427-437.	2.8	53
4	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. <i>Nature Communications</i> , 2018, 9, 2292.	12.8	44
5	High Tissue Glucose Alters Intersomitic Blood Vessels in Zebrafish via Methylglyoxal Targeting the VEGF Receptor Signaling Cascade. <i>Diabetes</i> , 2015, 64, 213-225.	0.6	41
6	Zebrafish as a Model for the Study of Microvascular Complications of Diabetes and Their Mechanisms. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2002.	4.1	41
7	Regulation of lung development and regeneration by the vascular system. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 2709-2718.	5.4	40
8	The Transcription Factor HOXC9 Regulates Endothelial Cell Quiescence and Vascular Morphogenesis in Zebrafish via Inhibition of Interleukin 8. <i>Circulation Research</i> , 2011, 108, 1367-1377.	4.5	38
9	The combination of loss of glyoxalase1 and obesity results in hyperglycemia. <i>JCI Insight</i> , 2019, 4, .	5.0	37
10	Elevated 4-hydroxynonenal induces hyperglycaemia via Aldh3a1 loss in zebrafish and associates with diabetes progression in humans. <i>Redox Biology</i> , 2020, 37, 101723.	9.0	36
11	ELMO1 protects renal structure and ultrafiltration in kidney development and under diabetic conditions. <i>Scientific Reports</i> , 2016, 6, 37172.	3.3	34
12	The Bipartite Rac1 Guanine Nucleotide Exchange Factor Engulfment and Cell Motility 1/Dedicator of Cytokines 180 (Elmo1/Dock180) Protects Endothelial Cells from Apoptosis in Blood Vessel Development. <i>Journal of Biological Chemistry</i> , 2015, 290, 6408-6418.	3.4	30
13	Activation of Retinal Angiogenesis in Hyperglycemic <i>cx3cr1</i> Zebrafish Mutants. <i>Diabetes</i> , 2020, 69, 1020-1031.	0.6	30
14	The BTB-Kelch Protein KLEIP Controls Endothelial Migration and Sprouting Angiogenesis. <i>Circulation Research</i> , 2007, 100, 1155-1163.	4.5	29
15	Transgenic Mouse Models of Corneal Neovascularization: New Perspectives for Angiogenesis Research. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 7637.		25
16	Nucleoside Diphosphate Kinase B Regulates Angiogenesis Through Modulation of Vascular Endothelial Growth Factor Receptor Type 2 and Endothelial Adherens Junction Proteins. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 2292-2300.	2.4	25
17	Angiopoietin-1 Is Regulated by miR-204 and Contributes to Corneal Neovascularization in KLEIP-Deficient Mice. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 4295.		24
18	Junb controls lymphatic vascular development in zebrafish via miR-182. <i>Scientific Reports</i> , 2015, 5, 15007.	3.3	23

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19	Vascular Damage in Obesity and Diabetes: Highlighting Links Between Endothelial Dysfunction and Metabolic Disease in Zebrafish and Man. <i>Current Vascular Pharmacology</i> , 2019, 17, 476-490.	1.7	19
20	Different Regulation of Physiological and Tumor Angiogenesis in Zebrafish by Protein Kinase D1 (PKD1). <i>PLoS ONE</i> , 2013, 8, e68033.	2.5	18
21	Studying Diabetes Through the Eyes of a Fish: Microdissection, Visualization, and Analysis of the Adult tg(fli:EGFP) Zebrafish Retinal Vasculature. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	16
22	Rho guanine exchange factors in blood vessels: Fine-tuners of angiogenesis and vascular function. <i>Experimental Cell Research</i> , 2013, 319, 1289-1297.	2.6	15
23	HOXC9: A Key Regulator of Endothelial Cell Quiescence and Vascular Morphogenesis. <i>Trends in Cardiovascular Medicine</i> , 2012, 22, 7-11.	4.9	14
24	FOXF1 Mediates Endothelial Progenitor Functions and Regulates Vascular Sprouting. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 76.	4.1	14
25	CNDP1 knockout in zebrafish alters the amino acid metabolism, restrains weight gain, but does not protect from diabetic complications. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 4551-4568.	5.4	14
26	Follistatin-controlled activin-HNF4 α coagulation factor axis in liver progenitor cells determines outcome of acute liver failure. <i>Hepatology</i> , 2022, 75, 322-337.	7.3	14
27	Knockout Leads to a Diabetic Nephropathy-Like Phenotype in Zebrafish and Identifies Phosphatidylethanolamine as Metabolite Promoting Early Diabetic Kidney Damage. <i>Diabetes</i> , 2022, 71, 1073-1080.	0.6	14
28	KLEIP Deficiency in Mice Causes Progressive Corneal Neovascular Dystrophy. , 2012, 53, 3260.		13
29	Kelch-like ECT2 interacting protein KLEIP regulates late stage pulmonary maturation via Hif-2 β . <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 683-92.	2.4	12
30	Targeting erythropoietin protects against proteinuria in type 2 diabetic patients and in zebrafish. <i>Molecular Metabolism</i> , 2018, 8, 189-202.	6.5	12
31	HOXC9 Regulates Formation of Parachordal Lymphangioplasts and the Thoracic Duct in Zebrafish via Stabilin 2. <i>PLoS ONE</i> , 2013, 8, e58311.	2.5	11
32	Reduced Acrolein Detoxification in <i>akr1a1a</i> Zebrafish Mutants Causes Impaired Insulin Receptor Signaling and Microvascular Alterations. <i>Advanced Science</i> , 2021, 8, e2101281.	11.2	11
33	Regulation of Gluconeogenesis by Aldo-keto-reductase 1a1b in Zebrafish. <i>IScience</i> , 2020, 23, 101763.	4.1	9
34	Accumulation of acetaldehyde in <i>aldh2.1</i> zebrafish causes increased retinal angiogenesis and impaired glucose metabolism. <i>Redox Biology</i> , 2022, 50, 102249.	9.0	9
35	Genetic compensation by epobin pronephros development in epoamutant zebrafish. <i>Cell Cycle</i> , 2019, 18, 2683-2696.	2.6	8
36	Advancing Diabetic Retinopathy Research: Analysis of the Neurovascular Unit in Zebrafish. <i>Cells</i> , 2021, 10, 1313.	4.1	8

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37	Deep Metabolic Profiling Assessment of Tissue Extraction Protocols for Three Model Organisms. <i>Frontiers in Chemistry</i> , 2022, 10, 869732.	3.6	6
38	Metabolic and Transcriptional Adaptations Improve Physical Performance of Zebrafish. <i>Antioxidants</i> , 2021, 10, 1581.	5.1	3
39	Thiosulfate sulfurtransferase prevents hyperglycemic damage to the zebrafish pronephros in an experimental model for diabetes. <i>Scientific Reports</i> , 2022, 12, .	3.3	3
40	Comparative Morphological, Metabolic and Transcriptome Analyses in <i>elmo1</i> ^{−/−} , <i>elmo2</i> ^{−/−} , and <i>elmo3</i> ^{−/−} Zebrafish Mutants Identified a Functional Non-Redundancy of the Elmo Proteins. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	0