Mieke Dewerchin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2578021/publications.pdf

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47	7,097	101543	214800
papers	citations	36 h-index	47 g-index

48	48	48	10835
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of PFKFB3-Driven Glycolysis in Vessel Sprouting. Cell, 2013, 154, 651-663.	28.9	1,117
2	Single-Cell Transcriptome Atlas of Murine Endothelial Cells. Cell, 2020, 180, 764-779.e20.	28.9	755
3	Fatty acid carbon is essential for dNTP synthesis in endothelial cells. Nature, 2015, 520, 192-197.	27.8	466
4	Inhibition of the Glycolytic Activator PFKFB3 in Endothelium Induces Tumor Vessel Normalization, Impairs Metastasis, and Improves Chemotherapy. Cancer Cell, 2016, 30, 968-985.	16.8	464
5	Partial and Transient Reduction of Glycolysis by PFKFB3 Blockade Reduces Pathological Angiogenesis. Cell Metabolism, 2014, 19, 37-48.	16.2	429
6	Tumor Vessel Normalization by Chloroquine Independent of Autophagy. Cancer Cell, 2014, 26, 190-206.	16.8	358
7	VEGF: A modifier of the del22q11 (DiGeorge) syndrome?. Nature Medicine, 2003, 9, 173-182.	30.7	288
8	An Integrated Gene Expression Landscape Profiling Approach to Identify Lung Tumor Endothelial Cell Heterogeneity and Angiogenic Candidates. Cancer Cell, 2020, 37, 21-36.e13.	16.8	253
9	The role of fatty acid Î²-oxidation in lymphangiogenesis. Nature, 2017, 542, 49-54.	27.8	240
10	Role of glutamine and interlinked asparagine metabolism in vessel formation. EMBO Journal, 2017, 36, 2334-2352.	7.8	195
11	Quiescent Endothelial Cells Upregulate Fatty Acid Î²-Oxidation for Vasculoprotection via Redox Homeostasis. Cell Metabolism, 2018, 28, 881-894.e13.	16.2	174
12	Single-Cell RNA Sequencing Maps Endothelial Metabolic Plasticity in Pathological Angiogenesis. Cell Metabolism, 2020, 31, 862-877.e14.	16.2	169
13	Relief of hypoxia by angiogenesis promotes neural stem cell differentiation by targeting glycolysis. EMBO Journal, 2016, 35, 924-941.	7.8	161
14	Impairment of Angiogenesis by Fatty Acid Synthase Inhibition Involves mTOR Malonylation. Cell Metabolism, 2018, 28, 866-880.e15.	16.2	154
15	Role of glutamine synthetase in angiogenesis beyond glutamine synthesis. Nature, 2018, 561, 63-69.	27.8	136
16	Glycolytic regulation of cell rearrangement in angiogenesis. Nature Communications, 2016, 7, 12240.	12.8	131
17	Serine Synthesis via PHGDH Is Essential for Heme Production in Endothelial Cells. Cell Metabolism, 2018, 28, 573-587.e13.	16.2	127
18	Role of Delta-like-4/Notch in the Formation and Wiring of the Lymphatic Network in Zebrafish. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1695-1702.	2.4	118

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19	Single-Cell RNA Sequencing Reveals Renal Endothelium Heterogeneity and Metabolic Adaptation to Water Deprivation. Journal of the American Society of Nephrology: JASN, 2020, 31, 118-138.	6.1	117
20	Metabolic control of the cell cycle. Cell Cycle, 2015, 14, 3379-3388.	2.6	92
21	PAI-1 mediates the antiangiogenic and profibrinolytic effects of 16K prolactin. Nature Medicine, 2014, 20, 741-747.	30.7	86
22	Metaâ€analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. EMBO Molecular Medicine, 2016, 8, 1134-1142.	6.9	83
23	Deletion or Inhibition of the Oxygen Sensor PHD1 Protects against Ischemic Stroke via Reprogramming of Neuronal Metabolism. Cell Metabolism, 2016, 23, 280-291.	16.2	77
24	Tumor vessel disintegration by maximum tolerable PFKFB3 blockade. Angiogenesis, 2017, 20, 599-613.	7.2	73
25	EndoDB: a database of endothelial cell transcriptomics data. Nucleic Acids Research, 2019, 47, D736-D744.	14.5	70
26	The Cancer Cell Oxygen Sensor PHD2 Promotes Metastasis via Activation of Cancer-Associated Fibroblasts. Cell Reports, 2015, 12, 992-1005.	6.4	66
27	Central Role of Metabolism in Endothelial Cell Function and Vascular Disease. Physiology, 2017, 32, 126-140.	3.1	65
28	Placental growth factor in cancer. Expert Opinion on Therapeutic Targets, 2014, 18, 1339-1354.	3.4	64
29	Neurogenic Radial Glia-like Cells in Meninges Migrate and Differentiate into Functionally Integrated Neurons in the Neonatal Cortex. Cell Stem Cell, 2017, 20, 360-373.e7.	11.1	64
30	De novo design of a biologically active amyloid. Science, 2016, 354, .	12.6	63
31	Incomplete and transitory decrease of glycolysis. Cell Cycle, 2014, 13, 16-22.	2.6	52
32	The Oxygen Sensor PHD2 Controls Dendritic Spines and Synapses via Modification of Filamin A. Cell Reports, 2016, 14, 2653-2667.	6.4	46
33	Role and therapeutic potential of dietary ketone bodies in lymph vessel growth. Nature Metabolism, 2019, 1, 666-675.	11.9	45
34	Tumor vessel co-option probed by single-cell analysis. Cell Reports, 2021, 35, 109253.	6.4	44
35	BIOMEX: an interactive workflow for (single cell) omics data interpretation and visualization. Nucleic Acids Research, 2020, 48, W385-W394.	14.5	43
36	A key role for transketolase-like 1 in tumor metabolic reprogramming. Oncotarget, 2016, 7, 51875-51897.	1.8	43

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37	Fibroblast Growth Factor Signaling Affects Vascular Outgrowth and Is Required for the Maintenance of Blood Vessel Integrity. Chemistry and Biology, 2014, 21, 1310-1317.	6.0	34
38	Combined glucocorticoid resistance and hyperlactatemia contributes to lethal shock in sepsis. Cell Metabolism, 2021, 33, 1763-1776.e5.	16.2	28
39	The PHD2 oxygen sensor paves the way to metastasis. Oncotarget, 2015, 6, 35149-35150.	1.8	19
40	Lipid droplet degradation by autophagy connects mitochondria metabolism to Prox1-driven expression of lymphatic genes and lymphangiogenesis. Nature Communications, 2022, 13, 2760.	12.8	19
41	Tissue factor cytoplasmic domain exacerbates post-infarct left ventricular remodeling via orchestrating cardiac inflammation and angiogenesis. Theranostics, 2021, 11, 9243-9261.	10.0	13
42	Mitochondrial respiration supports autophagy to provide stress resistance during quiescence. Autophagy, 2022, 18, 2409-2426.	9.1	13
43	Protocols for endothelial cell isolation from mouse tissues: brain, choroid, lung, and muscle. STAR Protocols, 2021, 2, 100508.	1.2	12
44	Protocols for endothelial cell isolation from mouse tissues: small intestine, colon, heart, and liver. STAR Protocols, 2021, 2, 100489.	1.2	11
45	Transcriptomic analysis of CFTR-impaired endothelial cells reveals a pro-inflammatory phenotype. European Respiratory Journal, 2021, 57, 2000261.	6.7	10
46	Protocols for endothelial cell isolation from mouse tissues: kidney, spleen, and testis. STAR Protocols, 2021, 2, 100523.	1.2	7
47	Live imaging reveals a conserved role of fatty acid Î²-oxidation in early lymphatic development in zebrafish. Biochemical and Biophysical Research Communications, 2018, 503, 26-31.	2.1	3