

# Jakub Rohlena

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

3,777  
citations

159585

30  
h-index

168389

53  
g-index

65  
all docs

65  
docs citations

65  
times ranked

5520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Genome Acquisition Restores Respiratory Function and Tumorigenic Potential of Cancer Cells without Mitochondrial DNA. <i>Cell Metabolism</i> , 2015, 21, 81-94.	16.2	582
2	Endothelial KLF2 Links Local Arterial Shear Stress Levels to the Expression of Vascular Tone-Regulating Genes. <i>American Journal of Pathology</i> , 2005, 167, 609-618.	3.8	318
3	Horizontal transfer of whole mitochondria restores tumorigenic potential in mitochondrial DNA-deficient cancer cells. <i>ELife</i> , 2017, 6, .	6.0	205
4	Classification of mitocans, anti-cancer drugs acting on mitochondria. <i>Mitochondrion</i> , 2013, 13, 199-208.	3.4	199
5	Mitochondrial Complex II: At the Crossroads. <i>Trends in Biochemical Sciences</i> , 2017, 42, 312-325.	7.5	192
6	Reactivation of Dihydroorotate Dehydrogenase-Driven Pyrimidine Biosynthesis Restores Tumor Growth of Respiration-Deficient Cancer Cells. <i>Cell Metabolism</i> , 2019, 29, 399-416.e10.	16.2	190
7	Mitochondrial Targeting of Vitamin E Succinate Enhances Its Pro-apoptotic and Anti-cancer Activity via Mitochondrial Complex II. <i>Journal of Biological Chemistry</i> , 2011, 286, 3717-3728.	3.4	171
8	Prolonged shear stress and KLF2 suppress constitutive proinflammatory transcription through inhibition of ATF2. <i>Blood</i> , 2007, 109, 4249-4257.	1.4	131
9	Suppression of Tumor Growth <i>In vivo</i> by the Mitocan $\alpha$ -tocopheryl Succinate Requires Respiratory Complex II. <i>Clinical Cancer Research</i> , 2009, 15, 1593-1600.	7.0	125
10	Shear stress sustains atheroprotective endothelial KLF2 expression more potently than statins through mRNA stabilization. <i>Cardiovascular Research</i> , 2006, 72, 231-240.	3.8	112
11	Platelets Facilitate the Wound-Healing Capability of Mesenchymal Stem Cells by Mitochondrial Transfer and Metabolic Reprogramming. <i>Cell Metabolism</i> , 2021, 33, 283-299.e9.	16.2	102
12	Mitochondrial targeting of $\alpha$ -tocopheryl succinate enhances its pro-apoptotic efficacy: A new paradigm for effective cancer therapy. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1546-1555.	2.9	100
13	Selective Disruption of Respiratory Supercomplexes as a New Strategy to Suppress Her2 <sup>high</sup> Breast Cancer. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 84-103.	5.4	93
14	Hippo/Mst1 Stimulates Transcription of the Proapoptotic Mediator <i>NOXA</i> in a FoxO1-Dependent Manner. <i>Cancer Research</i> , 2011, 71, 946-954.	0.9	91
15	Mitochondrial complex II, a novel target for anti-cancer agents. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 552-564.	1.0	87
16	Mitochondrial complex II and reactive oxygen species in disease and therapy. <i>Redox Report</i> , 2020, 25, 26-32.	4.5	85
17	Anticancer Drugs Targeting the Mitochondrial Electron Transport Chain. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 2951-2974.	5.4	79
18	Dihydroorotate dehydrogenase in oxidative phosphorylation and cancer. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165759.	3.8	73

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19	Selective elimination of senescent cells by mitochondrial targeting is regulated by ANT2. <i>Cell Death and Differentiation</i> , 2019, 26, 276-290.	11.2	69
20	Mitochondria-adaptor TRAK1 promotes kinesin-1 driven transport in crowded environments. <i>Nature Communications</i> , 2020, 11, 3123.	12.8	60
21	Endothelial CD81 is a marker of early human atherosclerotic plaques and facilitates monocyte adhesion. <i>Cardiovascular Research</i> , 2009, 81, 187-196.	3.8	48
22	Mitochondrially Targeted Î±-Tocopheryl Succinate Is Antiangiogenic: Potential Benefit Against Tumor Angiogenesis but Caution Against Wound Healing. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 2923-2935.	5.4	48
23	Ubiquinone-binding site mutagenesis reveals the role of mitochondrial complex II in cell death initiation. <i>Cell Death and Disease</i> , 2015, 6, e1749-e1749.	6.3	47
24	Nuclear Receptor Nurr1 Is Expressed In and Is Associated With Human Restenosis and Inhibits Vascular Lesion Formation In Mice Involving Inhibition of Smooth Muscle Cell Proliferation and Inflammation. <i>Circulation</i> , 2010, 121, 2023-2032.	1.6	46
25	Alternative assembly of respiratory complex II connects energy stress to metabolic checkpoints. <i>Nature Communications</i> , 2018, 9, 2221.	12.8	44
26	MicroRNA-126 induces autophagy by altering cell metabolism in malignant mesothelioma. <i>Oncotarget</i> , 2016, 7, 36338-36352.	1.8	41
27	Mitochondrially Targeted Vitamin E Succinate Modulates Expression of Mitochondrial DNA Transcripts and Mitochondrial Biogenesis. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 883-900.	5.4	39
28	Functional duplication of ligand-binding domains within low-density lipoprotein receptor-related protein for interaction with receptor associated protein, Î±2-macroglobulin, factor IXa and factor VIII. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 714-722.	2.3	38
29	Powerhouse down: Complex II dissociation in the respiratory chain. <i>Mitochondrion</i> , 2014, 19, 20-28.	3.4	37
30	Targeting the Mitochondrial Electron Transport Chain Complexes for the Induction of Apoptosis and Cancer Treatment. <i>Current Pharmaceutical Biotechnology</i> , 2013, 14, 377-389.	1.6	30
31	Replication and ribosomal stress induced by targeting pyrimidine synthesis and cellular checkpoints suppress p53-deficient tumors. <i>Cell Death and Disease</i> , 2020, 11, 110.	6.3	27
32	The role of Her2 and other oncogenes of the PI3K/AKT pathway in mitochondria. <i>Biological Chemistry</i> , 2016, 397, 607-615.	2.5	26
33	Limited contribution of claudin-5-dependent tight junction strands to endothelial barrier function. <i>European Journal of Cell Biology</i> , 2006, 85, 1131-1144.	3.6	25
34	Residues Phe342 and Asn346 of Activated Coagulation Factor IX Contribute to the Interaction with Low Density Lipoprotein Receptor-related Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 9394-9401.	3.4	23
35	Germline SUCLG2 Variants in Patients With Pheochromocytoma and Paraganglioma. <i>Journal of the National Cancer Institute</i> , 2022, 114, 130-138.	6.3	21
36	Antioxidant defense in quiescent cells determines selectivity of electron transport chain inhibition-induced cell death. <i>Free Radical Biology and Medicine</i> , 2017, 112, 253-266.	2.9	20

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37	SMAD4 loss limits the vulnerability of pancreatic cancer cells to complex I inhibition via promotion of mitophagy. <i>Oncogene</i> , 2021, 40, 2539-2552.	5.9	18
38	K-Ras and mitochondria: Dangerous liaisons. <i>Cell Research</i> , 2012, 22, 285-287.	12.0	17
39	The Assembly Factor SDHAF2 Is Dispensable for Flavination of the Catalytic Subunit of Mitochondrial Complex II in Breast Cancer Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 21414-21420.	3.4	17
40	Mitochondria-driven elimination of cancer and senescent cells. <i>Biological Chemistry</i> , 2019, 400, 141-148.	2.5	13
41	Mitochondrial respiration supports autophagy to provide stress resistance during quiescence. <i>Autophagy</i> , 2022, 18, 2409-2426.	9.1	13
42	High Molecular Weight Forms of Mammalian Respiratory Chain Complex II. <i>PLoS ONE</i> , 2013, 8, e71869.	2.5	12
43	Miro proteins connect mitochondrial function and intercellular transport. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2021, 56, 1-25.	5.2	11
44	Mitocans: Mitochondrially Targeted Anti-cancer Drugs. , 2018, , 613-635.		6
45	In Vitro Reconstitution of Molecular Motor-Driven Mitochondrial Transport. <i>Methods in Molecular Biology</i> , 2022, 2431, 533-546.	0.9	3
46	Evaluation of Respiration of Mitochondria in Cancer Cells Exposed to Mitochondria-Targeted Agents. <i>Methods in Molecular Biology</i> , 2015, 1265, 181-194.	0.9	2
47	Shikonin impairs mitochondrial activity to selectively target leukemia cells. <i>Phytomedicine Plus</i> , 2022, 2, 100300.	2.0	2
48	Mitocans, Mitochondria-Targeting Anticancer Drugs. <i>Oxidative Stress and Disease</i> , 2012, , 55-91.	0.3	1
49	915 Mitochondrial Targeting of Vitamin E Succinate Enhances Its Anti-cancer Activity Via Mitochondrial Complex II and Presents Potential Benefit Against Tumour Angiogenesis. <i>European Journal of Cancer</i> , 2012, 48, S221-S222.	2.8	1
50	Selective elimination of senescent cells by mitochondrial targeting is regulated via ANT2. <i>Free Radical Biology and Medicine</i> , 2018, 120, S116.	2.9	1
51	Limited contribution of claudin-5 dependent tight junction strands to endothelial barrier function. <i>Vascular Pharmacology</i> , 2006, 45, e81.	2.1	0
52	424 Role of the Ubiquinone Site of Complex II in Apoptosis Induction and Malignant Transformation. <i>European Journal of Cancer</i> , 2012, 48, S103.	2.8	0
53	542 The Experimental Anti-cancer Drug Mitochondrially-targeted Vitamin E Succinate Inhibits Mitochondrial Transcription. <i>European Journal of Cancer</i> , 2012, 48, 167.	2.8	0
54	Mitochondrial Complex II in Cancer. , 2014, , 81-104.		0

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55	Oxidative phosphorylation provides stress resistance in non-proliferating cells. <i>Free Radical Biology and Medicine</i> , 2021, 165, 46.	2.9	0
56	Novel Germline <i>SUCLG2</i> Mutations in Patients With Pheochromocytoma and Paraganglioma. <i>Journal of the Endocrine Society</i> , 2021, 5, A168-A169.	0.2	0
57	Platelets Promote Pro-Angiogenic Activity of Mesenchymal Stem Cells Via Mitochondrial Transfer and Metabolic Reprogramming. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0