Florian L Muller

List of Publications by Year
in descending order

70 papers	12,120 citations	76326 40 h-index	106344 65 g-index
89 all docs	89 docs citations	89 times ranked	21036 citing authors

#	Article	IF	Citations
1	Quantification of Phosphonate Drugs by ¹Hâ€“³¹P HSQC Shows That Rats Are Better Models of Primate Drug Exposure than Mice. Analytical Chemistry, 2022, 94, 10045-10053.	6.5	5
2	Remdesivir for COVID-19: Why Not Dose Higher?. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	6
3	Impaired anaplerosis is a major contributor to glycolysis inhibitor toxicity in glioma. Cancer & Metabolism, 2021, 9, 27.	5.0	11
4	Homozygous MTAP deletion in primary human glioblastoma is not associated with elevation of methylthioadenosine. Nature Communications, 2021, 12, 4228.	12.8	21
5	Structure-guided microbial targeting of antistaphylococcal prodrugs. ELife, 2021, 10, .	6.0	7
6	Why Remdesivir Failed: Preclinical Assumptions Overestimate the Clinical Efficacy of Remdesivir for COVID-19 and Ebola. Antimicrobial Agents and Chemotherapy, 2021, 65, e0111721.	3.2	22
7	Targeting Host Glycolysis as a Strategy for Antimalarial Development. Frontiers in Cellular and Infection Microbiology, 2021, 11, 730413.	3.9	6
8	Single-Cell RNA Sequencing Supports Preferential Bioactivation of Remdesivir in the Liver. Antimicrobial Agents and Chemotherapy, 2021, 65, e0133321.	3.2	1
9	NEAT1 is essential for metabolic changes that promote breast cancer growth and metastasis. Cell Metabolism, 2021, 33, 2380-2397.e9.	16.2	73
10	Enhancer Reprogramming Confers Dependence on Glycolysis and IGF Signaling in KMT2D Mutant Melanoma. Cell Reports, 2020, 33, 108293.	6.4	39
11	Captisol and GS-704277, but Not GS-441524, Are Credible Mediators of Remdesivirâ€™s Nephrotoxicity. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	10
12	Aliphatic amines are viable pro-drug moieties in phosphonoamidate drugs. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127656.	2.2	3
13	Antimicrobial Prodrug Activation by the Staphylococcal Glyoxalase GloB. ACS Infectious Diseases, 2020, 6, 3064-3075.	3.8	9
14	An enolase inhibitor for the targeted treatment of ENO1-deleted cancers. Nature Metabolism, 2020, 2, 1413-1426.	11.9	49
15	Superoxide-mediated oxidative stress accelerates skeletal muscle atrophy by synchronous activation of proteolytic systems. GeroScience, 2020, 42, 1579-1591.	4.6	24
16	Advantages of the Parent Nucleoside GS-441524 over Remdesivir for Covid-19 Treatment. ACS Medicinal Chemistry Letters, 2020, 11, 1361-1366.	2.8	137
17	Why Great Mitotic Inhibitors Make Poor Cancer Drugs. Trends in Cancer, 2020, 6, 924-941.	7.4	33
18	Bioreducible Phosphonoamidate Pro-drug Inhibitor of Enolase: Proof of Concept Study. ACS Medicinal Chemistry Letters, 2020, 11, 1484-1489.	2.8	2

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19	Robust detection of oncometabolic aberrations by 1Hâ€“13C heteronuclear single quantum correlation in intact biological specimens. Communications Biology, 2020, 3, 328.	4.4	3
20	KMT2D Deficiency Impairs Super-Enhancers to Confer a Glycolytic Vulnerability in Lung Cancer. Cancer Cell, 2020, 37, 599-617.e7.	16.8	137
21	The 3S Enantiomer Drives Enolase Inhibitory Activity in SF2312 and Its Analogues. Molecules, 2019, 24, 2510.	3.8	10
22	Mechanism-Specific Pharmacodynamics of a Novel Complex-I Inhibitor Quantified by Imaging Reversal of Consumptive Hypoxia with [18F]FAZA PET In Vivo. Cells, 2019, 8, 1487.	4.1	20
23	Functional Genomics Reveals Synthetic Lethality between Phosphogluconate Dehydrogenase and Oxidative Phosphorylation. Cell Reports, 2019, 26, 469-482.e5.	6.4	47
24	<scp>FOXO</scp> protects against ageâ€progressive axonal degeneration. Aging Cell, 2018, 17, e12701.	6.7	52
25	Mutations in the SWI/SNF complex induce a targetable dependence on oxidative phosphorylation in lung cancer. Nature Medicine, 2018, 24, 1047-1057.	30.7	175
26	An inhibitor of oxidative phosphorylation exploits cancer vulnerability. Nature Medicine, 2018, 24, 1036-1046.	30.7	622
27	Genomic deletion of malic enzyme 2 confers collateral lethality in pancreatic cancer. Nature, 2017, 542, 119-123.	27.8	209
28	Synthetic vulnerabilities of mesenchymal subpopulations in pancreatic cancer. Nature, 2017, 542, 362-366.	27.8	105
29	Tumor Evolution of Glioma-Intrinsic Gene Expression Subtypes Associates with Immunological Changes in the Microenvironment. Cancer Cell, 2017, 32, 42-56.e6.	16.8	1,282
30	ENOblock Does Not Inhibit the Activity of the Glycolytic Enzyme Enolase. PLoS ONE, 2016, 11, e0168739.	2.5	34
31	SF2312 is a natural phosphonate inhibitor of enolase. Nature Chemical Biology, 2016, 12, 1053-1058.	8.0	90
32	Collateral Lethality: A New Therapeutic Strategy in Oncology. Trends in Cancer, 2015, 1, 161-173.	7.4	106
33	Whole-genome and multisector exome sequencing of primary and post-treatment glioblastoma reveals patterns of tumor evolution. Genome Research, 2015, 25, 316-327.	5.5	343
34	The â€˜mitoflashâ€™ probe cpYFP does not respond to superoxide. Nature, 2014, 514, E12-E14.	27.8	109
35	Oncogene ablation-resistant pancreatic cancer cells depend on mitochondrial function. Nature, 2014, 514, 628-632.	27.8	998
36	Oncogenic NRAS signaling differentially regulates survival and proliferation in melanoma. Nature Medicine, 2012, 18, 1503-1510.	30.7	333

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37	Dietary restriction attenuates ageâ€associated muscle atrophy by lowering oxidative stress in mice even in complete absence of CuZnSOD. Aging Cell, 2012, 11, 770-782.	6.7	82
38	Dietary restriction but not rapamycin extends disease onset and survival of the H46R/H48Q mouse model of ALS. Neurobiology of Aging, 2012, 33, 1829-1832.	3.1	48
39	Passenger deletions generate therapeutic vulnerabilities in cancer. Nature, 2012, 488, 337-342.	27.8	294
40	Complex I generated, mitochondrial matrix-directed superoxide is released from the mitochondria through voltage dependent anion channels. Biochemical and Biophysical Research Communications, 2012, 422, 515-521.	2.1	75
41	Mitochondrial â€˜flashesâ€™: a radical concept repHined. Trends in Cell Biology, 2012, 22, 503-508.	7.9	74
42	MnSOD deficiency results in elevated oxidative stress and decreased mitochondrial function but does not lead to muscle atrophy during aging. Aging Cell, 2011, 10, 493-505.	6.7	76
43	Telomerase reactivation reverses tissue degeneration in aged telomerase-deficient mice. Nature, 2011, 469, 102-106.	27.8	674
44	Telomere dysfunction induces metabolic and mitochondrial compromise. Nature, 2011, 470, 359-365.	27.8	1,093
45	An Objective Appraisal of the Free Radical Theory of Aging. , 2011, , 177-202.		7
46	Increased superoxide in vivo accelerates ageâ€associated muscle atrophy through mitochondrial dysfunction and neuromuscular junction degeneration. FASEB Journal, 2010, 24, 1376-1390.	0.5	250
47	Denervation Induces Cytosolic Phospholipase A2-mediated Fatty Acid Hydroperoxide Generation by Muscle Mitochondria. Journal of Biological Chemistry, 2009, 284, 46-55.	3.4	82
48	A critical evaluation of cpYFP as a probe for superoxide. Free Radical Biology and Medicine, 2009, 47, 1779-1780.	2.9	46
49	Conditional knockout of Mn-SOD targeted to type IIB skeletal muscle fibers increases oxidative stress and is sufficient to alter aerobic exercise capacity. American Journal of Physiology - Cell Physiology, 2009, 297, C1520-C1532.	4.6	67
50	FoxOs Cooperatively Regulate Diverse Pathways Governing Neural Stem Cell Homeostasis. Cell Stem Cell, 2009, 5, 540-553.	11.1	418
51	MnSOD deficiency has a differential effect on disease progression in two different ALS mutant mouse models. Muscle and Nerve, 2008, 38, 1173-1183.	2.2	27
52	The Basics of Oxidative Biochemistry. , 2008, , 11-35.		9
53	GAPDH Is Conformationally and Functionally Altered in Association with Oxidative Stress in Mouse Models of Amyotrophic Lateral Sclerosis. Journal of Molecular Biology, 2008, 382, 1195-1210.	4.2	70
54	Deleterious action of FA metabolites on ATP synthesis: possible link between lipotoxicity, mitochondrial dysfunction, and insulin resistance. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E678-E685.	3.5	117

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55	The in vivo gene expression signature of oxidative stress. Physiological Genomics, 2008, 34, 112-126.	2.3	204
56	High rates of superoxide production in skeletal-muscle mitochondria respiring on both complex I- and complex II-linked substrates. Biochemical Journal, 2008, 409, 491-499.	3.7	138
57	Does Oxidative Stress Limit Mouse Life Span?. , 2008, , 129-146.		0
58	Oxidative stress induced mitochondrial dysfunction leads to age related loss of muscle mass via myonuclear apoptosis and proteolysis. FASEB Journal, 2008, 22, 758.33.	0.5	0
59	Denervation-induced skeletal muscle atrophy is associated with increased mitochondrial ROS production. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1159-R1168.	1.8	285
60	Trends in oxidative aging theories. Free Radical Biology and Medicine, 2007, 43, 477-503.	2.9	897
61	Absence of CuZn superoxide dismutase leads to elevated oxidative stress and acceleration of age-dependent skeletal muscle atrophy. Free Radical Biology and Medicine, 2006, 40, 1993-2004.	2.9	378
62	Alterations in mitochondrial function, hydrogen peroxide release and oxidative damage in mouse hind-limb skeletal muscle during aging. Mechanisms of Ageing and Development, 2006, 127, 298-306.	4.6	203
63	Acceleration of ageâ€related skeletal muscle atrophy and oxidative stress in the mice lacking of CuZnSOD. FASEB Journal, 2006, 20, A818.	0.5	0
64	Absence of CuZn superoxide dismuatase (SOD1) leads to increased proteolysis of skeletal muscle. FASEB Journal, 2006, 20, LB32.	0.5	0
65	H2S-Induced Ectothermy: Relevance to Aging. Rejuvenation Research, 2005, 8, 135-137.	1.8	2
66	Complex III Releases Superoxide to Both Sides of the Inner Mitochondrial Membrane. Journal of Biological Chemistry, 2004, 279, 49064-49073.	3.4	859
67	Q-Cycle Bypass Reactions at the Qo Site of the Cytochrome bc1 (and Related) Complexes. Methods in Enzymology, 2004, 382, 21-45.	1.0	43
68	Architecture of the QoSite of the Cytochromebc1Complex Probed by Superoxide Productionâ€. Biochemistry, 2003, 42, 6493-6499.	2.5	132
69	Multiple Q-Cycle Bypass Reactions at the QoSite of the Cytochromebc1Complexâ€. Biochemistry, 2002, 41, 7866-7874.	2.5	160
70	The nature and mechanism of superoxide production by the electron transport chain: Its relevance to aging. Age, 2000, 23, 227-253.	3.0	110