

Sergio Uyemura

List of Publications by Year in descending order

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95
papers

3,491
citations

117625

34
h-index

161849

54
g-index

96
all docs

96
docs citations

96
times ranked

5342
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Naturally Occurring Flavonoids on Lipid Peroxidation and Membrane Permeability Transition in Mitochondria. <i>Free Radical Biology and Medicine</i> , 1998, 24, 1455-1461.	2.9	164
2	Hypolipemic and antioxidant activities from <i>Tamarindus indica</i> L. pulp fruit extract in hypercholesterolemic hamsters. <i>Food and Chemical Toxicology</i> , 2006, 44, 810-818.	3.6	151
3	Effects of Periodontal Therapy on Glycemic Control and Inflammatory Markers. <i>Journal of Periodontology</i> , 2008, 79, 774-783.	3.4	146
4	The interaction of flavonoids with mitochondria: effects on energetic processes. <i>Chemico-Biological Interactions</i> , 2005, 152, 67-78.	4.0	139
5	A proposed sequence of events for cadmium-induced mitochondrial impairment. <i>Journal of Inorganic Biochemistry</i> , 2003, 97, 251-257.	3.5	136
6	Respiration and Oxidative Phosphorylation in the Apicomplexan Parasite <i>Toxoplasma gondii</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 31040-31047.	3.4	102
7	In Vitro Interaction of Nonsteroidal Anti-inflammatory Drugs on Oxidative Phosphorylation of Rat Kidney Mitochondria: Respiration and ATP Synthesis. <i>Archives of Biochemistry and Biophysics</i> , 1996, 334, 303-308.	3.0	87
8	Melatonin prevents mitochondrial dysfunction and insulin resistance in rat skeletal muscle. <i>Journal of Pineal Research</i> , 2014, 57, 155-167.	7.4	87
9	Effect of fluoxetine on rat liver mitochondria. <i>Biochemical Pharmacology</i> , 1994, 48, 535-541.	4.4	86
10	Diclofenac Sodium and Mefenamic Acid: Potent Inducers of the Membrane Permeability Transition in Renal Cortex Mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1997, 342, 231-235.	3.0	80
11	The Critical Role of Mitochondrial Energetic Impairment in the Toxicity of Nimesulide to Hepatocytes. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 303, 601-607.	2.5	80
12	Oxidative Phosphorylation and Rotenone-insensitive Malate- and NADH-Quinone Oxidoreductases in <i>Plasmodium yoelii yoelii</i> Mitochondria in Situ. <i>Journal of Biological Chemistry</i> , 2004, 279, 385-393.	3.4	79
13	Thioridazine interacts with the membrane of mitochondria acquiring antioxidant activity toward apoptosis—potentially implicated mechanisms. <i>British Journal of Pharmacology</i> , 2002, 136, 136-142.	5.4	71
14	Antioxidant activity of flavonoids in isolated mitochondria. <i>Phytotherapy Research</i> , 2008, 22, 1213-1218.	5.8	71
15	Cloning and functional expression of the mitochondrial alternative oxidase of <i>Aspergillus fumigatus</i> and its induction by oxidative stress. <i>FEMS Microbiology Letters</i> , 2007, 271, 230-238.	1.8	65
16	Fluoxetine interacts with the lipid bilayer of the inner membrane in isolated rat brain mitochondria, inhibiting electron transport and F1F0-ATPase activity. <i>Molecular and Cellular Biochemistry</i> , 1999, 199, 103-109.	3.1	62
17	Involvement of an Alternative Oxidase in Oxidative Stress and Mycelium-to-Yeast Differentiation in <i>Paracoccidioides brasiliensis</i> . <i>Eukaryotic Cell</i> , 2011, 10, 237-248.	3.4	60
18	(+)- α -Tocopheryl succinate inhibits the mitochondrial respiratory chain complex I and is as effective as arsenic trioxide or ATRA against acute promyelocytic leukemia in vivo. <i>Leukemia</i> , 2012, 26, 451-460.	7.2	60

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19	Effects of nimesulide and its reduced metabolite on mitochondria. <i>British Journal of Pharmacology</i> , 2000, 131, 1154-1160.	5.4	58
20	The Sterol Composition of <i>Trypanosoma cruzi</i> Changes After Growth in Different Culture Media and Results in Different Sensitivity to Digitonin-Permeabilization. <i>Journal of Eukaryotic Microbiology</i> , 2001, 48, 588-594.	1.7	56
21	<i>Trypanosoma brucei</i> Plasma Membrane-Type Ca ²⁺ -ATPase 1 (TbPMC1) and 2 (TbPMC2) Genes Encode Functional Ca ²⁺ -ATPases Localized to the Acidocalcisomes and Plasma Membrane, and Essential for Ca ²⁺ Homeostasis and Growth. <i>Journal of Biological Chemistry</i> , 2004, 279, 14427-14439.	3.4	56
22	Potential toxicity of toluene and xylene evoked by mitochondrial uncoupling. <i>Toxicology in Vitro</i> , 2007, 21, 782-788.	2.4	51
23	The anti-cancer agent nemorosone is a new potent protonophoric mitochondrial uncoupler. <i>Mitochondrion</i> , 2011, 11, 255-263.	3.4	50
24	Silencing of mitochondrial alternative oxidase gene of <i>Aspergillus fumigatus</i> enhances reactive oxygen species production and killing of the fungus by macrophages. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 631-636.	2.3	48
25	Modulation of human neutrophil oxidative metabolism and degranulation by extract of <i>Tamarindus indica</i> L. fruit pulp. <i>Food and Chemical Toxicology</i> , 2009, 47, 163-170.	3.6	48
26	The anti-obesity agent Orlistat is associated to increase in colonic preneoplastic markers in rats treated with a chemical carcinogen. <i>Cancer Letters</i> , 2006, 240, 221-224.	7.2	47
27	Antioxidant activity of isocoumarins isolated from <i>Paepalanthus bromelioides</i> on mitochondria. <i>Phytochemistry</i> , 2007, 68, 1075-1080.	2.9	43
28	Renal toxicity caused by oral use of medicinal plants: The yacon example. <i>Journal of Ethnopharmacology</i> , 2011, 133, 434-441.	4.1	42
29	Chronic Ethanol Consumption Enhances Phenylephrine-Induced Contraction in the Isolated Rat Aorta. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 233-241.	2.5	40
30	The anti-cancer agent guttiferone-A permeabilizes mitochondrial membrane: Ensuing energetic and oxidative stress implications. <i>Toxicology and Applied Pharmacology</i> , 2011, 253, 282-289.	2.8	40
31	In situ evidence of an alternative oxidase and an uncoupling protein in the respiratory chain of <i>Aspergillus fumigatus</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 162-172.	2.8	39
32	SET protein accumulates in HNSCC and contributes to cell survival: Antioxidant defense, Akt phosphorylation and AVOs acidification. <i>Oral Oncology</i> , 2012, 48, 1106-1113.	1.5	39
33	The Dual Role of Serotonin in Colorectal Cancer. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 611-625.	7.1	39
34	C-Phycocyanin protects SH-SY5Y cells from oxidative injury, rat retina from transient ischemia and rat brain mitochondria from Ca ²⁺ /phosphate-induced impairment. <i>Brain Research Bulletin</i> , 2012, 89, 159-167.	3.0	37
35	Chronic ethanol consumption alters cardiovascular functions in conscious rats. <i>Life Sciences</i> , 2006, 78, 2179-2187.	4.3	35
36	Ethanol Consumption Enhances Endothelin-1-Induced Contraction in the Isolated Rat Carotid. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 819-827.	2.5	35

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37	Dehydromonocrotaline inhibits mitochondrial complex I. A potential mechanism accounting for hepatotoxicity of monocrotaline. <i>Toxicol</i> , 2007, 50, 724-730.	1.6	34
38	Interaction of Vimang (<i>Mangifera indica</i> L. extract) with Fe(III) improves its antioxidant and cytoprotecting activity. <i>Pharmacological Research</i> , 2006, 54, 389-395.	7.1	33
39	Ethanol consumption increases blood pressure and alters the responsiveness of the mesenteric vasculature in rats. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 60, 331-341.	2.4	33
40	Calcium mobilization by arachidonic acid in trypanosomatids. <i>Molecular and Biochemical Parasitology</i> , 2000, 105, 261-271.	1.1	32
41	Flufenamic acid as an inducer of mitochondrial permeability transition. <i>Molecular and Cellular Biochemistry</i> , 2000, 210, 153-158.	3.1	31
42	JM-20, a novel benzodiazepine-dihydropyridine hybrid molecule, protects mitochondria and prevents ischemic insult-mediated neural cell death in vitro. <i>European Journal of Pharmacology</i> , 2014, 726, 57-65.	3.5	31
43	The roles played by <i>Aspergillus nidulans</i> apoptosis-inducing factor (AIF)-like mitochondrial oxidoreductase (AifA) and NADH-ubiquinone oxidoreductases (NdeA-B and NdiA) in farnesol resistance. <i>Fungal Genetics and Biology</i> , 2010, 47, 1055-1069.	2.1	29
44	Hg(II)-induced renal cytotoxicity: in vitro and in vivo implications for the bioenergetic and oxidative status of mitochondria. <i>Molecular and Cellular Biochemistry</i> , 1997, 177, 53-59.	3.1	28
45	Effect of ethanol consumption on blood pressure and rat mesenteric arterial bed, aorta and carotid responsiveness. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 985-993.	2.4	28
46	Classical and alternative components of the mitochondrial respiratory chain in pathogenic fungi as potential therapeutic targets. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 81-88.	2.3	27
47	A Thermostable <i>Aspergillus fumigatus</i> GH7 Endoglucanase Over-Expressed in <i>Pichia pastoris</i> Stimulates Lignocellulosic Biomass Hydrolysis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2261.	4.1	27
48	Accumulation of the SET protein in HEK293T cells and mild oxidative stress: cell survival or death signaling. <i>Molecular and Cellular Biochemistry</i> , 2012, 363, 65-74.	3.1	26
49	Serotonin synthesis protects the mouse colonic crypt from DNA damage and colorectal tumorigenesis. <i>Journal of Pathology</i> , 2019, 249, 102-113.	4.5	26
50	Effect of the extract of the tamarind (<i>Tamarindus indica</i>) fruit on the complement system: Studies in vitro and in hamsters submitted to a cholesterol-enriched diet. <i>Food and Chemical Toxicology</i> , 2007, 45, 1487-1495.	3.6	24
51	Ca ²⁺ binding to c-state of adenine nucleotide translocase (ANT)-surrounding cardiolipins enhances (ANT)-Cys56 relative mobility: A computational-based mitochondrial permeability transition study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 176-182.	1.0	22
52	Clusianone, a naturally occurring nemorosone regioisomer, uncouples rat liver mitochondria and induces HepG2 cell death. <i>Chemico-Biological Interactions</i> , 2014, 212, 20-29.	4.0	22
53	Lytic Polysaccharide Monooxygenase from <i>Aspergillus fumigatus</i> can Improve Enzymatic Cocktail Activity During Sugarcane Bagasse Hydrolysis. <i>Protein and Peptide Letters</i> , 2019, 26, 377-385.	0.9	22
54	Effects of isocoumarins isolated from <i>Paepalanthus bromelioides</i> on mitochondria: Uncoupling, and induction/inhibition of mitochondrial permeability transition. <i>Chemico-Biological Interactions</i> , 2006, 161, 155-164.	4.0	21

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55	Modulatory effects of rutin on biochemical and hematological parameters in hypercholesterolemic Golden Syrian hamsters. <i>Anais Da Academia Brasileira De Ciencias</i> , 2009, 81, 67-72.	0.8	21
56	Phenotypic analysis of genes whose mRNA accumulation is dependent on calcineurin in <i>Aspergillus fumigatus</i> . <i>Fungal Genetics and Biology</i> , 2009, 46, 791-802.	2.1	21
57	Chronic ethanol intake modulates vascular levels of endothelin-1 receptor and enhances the pressor response to endothelin-1 in anaesthetized rats. <i>British Journal of Pharmacology</i> , 2008, 154, 971-981.	5.4	20
58	Effects on mitochondria of mitochondria-induced nitric oxide release from a ruthenium nitrosyl complex. <i>Nitric Oxide - Biology and Chemistry</i> , 2009, 20, 24-30.	2.7	20
59	Mitochondrial Uncoupling by the Sulindac Metabolite, Sulindac Sulfide. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2006, 99, 294-299.	2.5	19
60	Impact of adenosine nucleotide translocase (ANT) proline isomerization on Ca ²⁺ -induced cysteine relative mobility/mitochondrial permeability transition pore. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 329-335.	2.3	19
61	Characterization of <i>Rubus fruticosus</i> mitochondria and salicylic acid inhibition of reactive oxygen species generation at Complex III/Q cycle: potential implications for hypersensitive response in plants. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 237-246.	2.3	18
62	Release of NO from a nitrosyl ruthenium complex through oxidation of mitochondrial NADH and effects on mitochondria. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 26, 174-181.	2.7	18
63	<scp>SET</scp> overexpression decreases cell detoxification efficiency: <scp>ALDH</scp>2 and <scp>GSTP</scp>1 are downregulated, <scp>DDR</scp> is impaired and <scp>DNA</scp> damage accumulates. <i>FEBS Journal</i> , 2012, 279, 4615-4628.	4.7	18
64	A Perspective Discussion on Rising Pesticide Levels and Colon Cancer Burden in Brazil. <i>Frontiers in Public Health</i> , 2017, 5, 273.	2.7	18
65	Energetics of heart mitochondria during acute phase of <i>Trypanosoma cruzi</i> infection in rats. <i>International Journal of Biochemistry and Cell Biology</i> , 1995, 27, 1183-1189.	2.8	16
66	Chronic ethanol consumption induces histopathological changes and increases nitric oxide generation in the rat liver. <i>Tissue and Cell</i> , 2011, 43, 384-391.	2.2	16
67	Mitochondrial function in the yeast form of the pathogenic fungus <i>Paracoccidioides brasiliensis</i> . <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 297-305.	2.3	15
68	Aerobic Training Activates Interleukin 10 for Colon Anticarcinogenic Effects. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1806-1813.	0.4	15
69	The cytotoxic effects of brown Cuban propolis depend on the nemorosone content and may be mediated by mitochondrial uncoupling. <i>Chemico-Biological Interactions</i> , 2015, 228, 28-34.	4.0	15
70	Influence of nonsteroidal anti-inflammatory drugs on calcium efflux in isolated rat renal cortex mitochondria and aspects of the mechanisms involved. <i>International Journal of Biochemistry and Cell Biology</i> , 1998, 30, 961-965.	2.8	14
71	A PMR1-like calcium ATPase of <i>Aspergillus fumigatus</i> : cloning, identification and functional expression in <i>S. cerevisiae</i> . <i>Yeast</i> , 2005, 22, 813-824.	1.7	14
72	The combination of conjugated linoleic acid (CLA) and extra virgin olive oil increases mitochondrial and body metabolism and prevents CLA-associated insulin resistance and liver hypertrophy in C57Bl/6 mice. <i>Journal of Nutritional Biochemistry</i> , 2016, 28, 147-154.	4.2	13

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73	A critical discussion on diet, genomic mutations and repair mechanisms in colon carcinogenesis. <i>Toxicology Letters</i> , 2017, 265, 106-116.	0.8	13
74	Characterization of the stimulus for reactive oxygen species generation in calcium-overloaded mitochondria. <i>Redox Report</i> , 2011, 16, 108-113.	4.5	10
75	Colon preneoplasia after carcinogen exposure is enhanced and colonic serotonergic system is suppressed by food deprivation. <i>Toxicology</i> , 2013, 312, 123-131.	4.2	10
76	Mast Cells and Serotonin Synthesis Modulate Chagas Disease in the Colon: Clinical and Experimental Evidence. <i>Digestive Diseases and Sciences</i> , 2018, 63, 1473-1484.	2.3	10
77	SET protein accumulation prevents cell death in head and neck squamous cell carcinoma through regulation of redox state and autophagy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 623-637.	4.1	10
78	Respiration and mitochondrial ATPase in energized mitochondria during isoproterenol-induced cell injury of myocardium. <i>International Journal of Biochemistry & Cell Biology</i> , 1991, 23, 1143-1149.	0.5	9
79	Heart FoF1-ATPase changes during the acute phase of <i>Trypanosoma cruzi</i> infection in rats. <i>Molecular and Cellular Biochemistry</i> , 1996, 165, 127-33.	3.1	9
80	Hyperhomocysteinemia induced by feeding rats diets rich in dl-homocysteine thiolactone promotes alterations on carotid reactivity independent of arterial structure. <i>Vascular Pharmacology</i> , 2009, 51, 291-298.	2.1	9
81	The cytotoxic effects of VE-3N, a novel 1,4-dihydropyridine derivative, involve the mitochondrial bioenergetic disruption via uncoupling mechanisms. <i>Toxicology in Vitro</i> , 2017, 42, 21-30.	2.4	9
82	Administration of a murine diet supplemented with conjugated linoleic acid increases the expression and activity of hepatic uncoupling proteins. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 587-596.	2.3	8
83	Hepatitis B virus genotyping among chronic hepatitis B patients with resistance to treatment with lamivudine in the City of Ribeirão Preto, State of São Paulo. <i>Revista Da Sociedade Brasileira De Medicina Tropical</i> , 2010, 43, 224-228.	0.9	8
84	The effects of high-intensity resistance exercise on the blood lipid profile and liver function in hypercholesterolemic hamsters. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 448-454.	1.9	7
85	Assessment of the potential genotoxic risk of medicinal <i>Tamarindus indica</i> fruit pulp extract using in vivo assays. <i>Genetics and Molecular Research</i> , 2009, 8, 1085-1092.	0.2	7
86	Rotavírus bovino: fatores de risco, prevalência e caracterização antigênica de amostras em rebanhos leiteiros no estado de São Paulo. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2011, 63, 820-827.	0.4	6
87	Chemical features of the photosensitizers new methylene blue N and S137 influence their subcellular localization and photoinactivation efficiency in <i>Candida albicans</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111942.	3.8	6
88	Effect of chronic ethanol consumption on endothelin-1 generation and conversion of exogenous big-endothelin-1 by the rat carotid artery. <i>Alcohol</i> , 2007, 41, 77-85.	1.7	5
89	Cubebin and derivatives as inhibitors of mitochondrial complex I. Proposed interaction with subunit B8. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009, 24, 599-606.	5.2	5
90	Age-Related and Gender-Related Increases in Colorectal Cancer Mortality Rates in Brazil Between 1979 and 2015: Projections for Continuing Rises in Disease. <i>Journal of Gastrointestinal Cancer</i> , 2021, 52, 280-288.	1.3	5

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91	High-Fat and Fat-Enriched Diets Impair the Benefits of Moderate Physical Training in the Aorta and the Heart in Rats. <i>Frontiers in Nutrition</i> , 2017, 4, 21.	3.7	4
92	4-hydroxy nimesulide effects on mitochondria and HepG2 cells. A comparison with nimesulide. <i>European Journal of Pharmacology</i> , 2007, 566, 43-49.	3.5	3
93	Kinetic properties of mitochondrial ATPase during isoproterenol-induced cardiomyopathy. <i>International Journal of Biochemistry & Cell Biology</i> , 1990, 22, 611-615.	0.5	2
94	Auto-inhibitory regulation of angiotensin II functionality in hamster aorta during the early phases of dyslipidemia. <i>European Journal of Pharmacology</i> , 2016, 781, 1-9.	3.5	0
95	Heterologous expression of mitochondrial nicotinamide adenine dinucleotide transporter (Ndt1) from <i>Aspergillus fumigatus</i> rescues impaired growth in $\Delta ndt1\Delta ndt2$ <i>Saccharomyces cerevisiae</i> strain. <i>Journal of Bioenergetics and Biomembranes</i> , 2017, 49, 423-435.	2.3	0