Rodrigo Franco

List of Publications by Year
in descending order

102 papers	14,882 citations	76196 40 h-index	45213 90 g-index
108 all docs	108 docs citations	108 times ranked	30278 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
3	Apoptosis and glutathione: beyond an antioxidant. Cell Death and Differentiation, 2009, 16, 1303-1314.	5.0	582
4	Oxidative stress, DNA methylation and carcinogenesis. Cancer Letters, 2008, 266, 6-11.	3.2	530
5	Environmental toxicity, oxidative stress and apoptosis: MÃ©nage Ã Trois. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 674, 3-22.	0.9	438
6	Reactive Oxygen Species (ROS)â€“â€“Induced genetic and epigenetic alterations in human carcinogenesis. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 711, 167-173.	0.4	437
7	The central role of glutathione in the pathophysiology of human diseases. Archives of Physiology and Biochemistry, 2007, 113, 234-258.	1.0	432
8	Oxidative Stress, Redox Signaling, and Autophagy: Cell DeathVersusSurvival. Antioxidants and Redox Signaling, 2014, 21, 66-85.	2.5	352
9	DNA damage induced by endogenous aldehydes: Current state of knowledge. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 711, 13-27.	0.4	236
10	Glutathione Depletion Is Necessary for Apoptosis in Lymphoid Cells Independent of Reactive Oxygen Species Formation. Journal of Biological Chemistry, 2007, 282, 30452-30465.	1.6	235
11	The role of reactive oxygen species and oxidative stress in environmental carcinogenesis and biomarker development. Chemico-Biological Interactions, 2010, 188, 334-339.	1.7	227
12	Molecular mechanisms of pesticide-induced neurotoxicity: Relevance to Parkinson's disease. Chemico-Biological Interactions, 2010, 188, 289-300.	1.7	202
13	Glutathione Efflux and Cell Death. Antioxidants and Redox Signaling, 2012, 17, 1694-1713.	2.5	186
14	DNA damage and autophagy. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 711, 158-166.	0.4	159
15	Neurotoxicity Linked to Dysfunctional Metal Ion Homeostasis and Xenobiotic Metal Exposure: Redox Signaling and Oxidative Stress. Antioxidants and Redox Signaling, 2018, 28, 1669-1703.	2.5	142
16	Antioxidant gene therapy against neuronal cell death. , 2014, 142, 206-230.		120
17	Metabolic Dysfunction in Parkinsonâ€™s Disease: Bioenergetics, Redox Homeostasis and Central Carbon Metabolism. Brain Research Bulletin, 2017, 133, 12-30.	1.4	115
18	Mitochondrial dysfunction in glial cells: Implications for neuronal homeostasis and survival. Toxicology, 2017, 391, 109-115.	2.0	107

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19	Amino Acid Osmolytes in Regulatory Volume Decrease and Isovolumetric Regulation in Brain Cells: Contribution and Mechanisms. Cellular Physiology and Biochemistry, 2000, 10, 361-370.	1.1	95
20	Potential Roles of Electrogenic Ion Transport and Plasma Membrane Depolarization in Apoptosis. Journal of Membrane Biology, 2006, 209, 43-58.	1.0	95
21	Arsenic-induced neurotoxicity: a mechanistic appraisal. Journal of Biological Inorganic Chemistry, 2019, 24, 1305-1316.	1.1	94
22	SLCO/OATP-like Transport of Glutathione in FasL-induced Apoptosis. Journal of Biological Chemistry, 2006, 281, 29542-29557.	1.6	92
23	Redox homeostasis, oxidative stress and mitophagy. Mitochondrion, 2020, 51, 105-117.	1.6	85
24	Alterations in Energy/Redox Metabolism Induced by Mitochondrial and Environmental Toxins: A Specific Role for Glucose-6-Phosphate-Dehydrogenase and the Pentose Phosphate Pathway in Paraquat Toxicity. ACS Chemical Biology, 2014, 9, 2032-2048.	1.6	82
25	The Role of Isothiocyanates as Cancer Chemo-Preventive, Chemo-Therapeutic and Anti-Melanoma Agents. Antioxidants, 2019, 8, 106.	2.2	80
26	Mitochondrial Metabolism in Astrocytes Regulates Brain Bioenergetics, Neurotransmission and Redox Balance. Frontiers in Neuroscience, 2020, 14, 536682.	1.4	77
27	Mechanisms Counteracting Swelling in Brain Cells During Hyponatremia. Archives of Medical Research, 2002, 33, 237-244.	1.5	76
28	Thiol-Redox Signaling, Dopaminergic Cell Death, and Parkinson's Disease. Antioxidants and Redox Signaling, 2012, 17, 1764-1784.	2.5	73
29	Compartmentalized oxidative stress in dopaminergic cell death induced by pesticides and complex I inhibitors: Distinct roles of superoxide anion and superoxide dismutases. Free Radical Biology and Medicine, 2013, 61, 370-383.	1.3	65
30	Impairment of Atg5-Dependent Autophagic Flux Promotes Paraquat- and MPP+-Induced Apoptosis But Not Rotenone or 6-Hydroxydopamine Toxicity. Toxicological Sciences, 2013, 136, 166-182.	1.4	61
31	Combining DI-ESIâ€“MS and NMR datasets for metabolic profiling. Metabolomics, 2015, 11, 391-402.	1.4	60
32	Epigenetic therapy as a novel approach in hepatocellular carcinoma. , 2015, 145, 103-119.		59
33	Overexpression of alpha-synuclein at non-toxic levels increases dopaminergic cell death induced by copper exposure via modulation of protein degradation pathways. Neurobiology of Disease, 2015, 81, 76-92.	2.1	57
34	mTOR/AMPK signaling in the brain: Cell metabolism, proteostasis and survival. Current Opinion in Toxicology, 2018, 8, 102-110.	2.6	56
35	The role of epigenetics in environmental and occupational carcinogenesis. Chemico-Biological Interactions, 2010, 188, 340-349.	1.7	53
36	Metalloprotease OMA1 Fine-tunes Mitochondrial Bioenergetic Function and Respiratory Supercomplex Stability. Scientific Reports, 2015, 5, 13989.	1.6	52

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37	Glutathione Depletion and Disruption of Intracellular Ionic Homeostasis Regulate Lymphoid Cell Apoptosis. Journal of Biological Chemistry, 2008, 283, 36071-36087.	1.6	51
38	Effects of hyperthermia as a mitigation strategy in DNA damage-based cancer therapies. Seminars in Cancer Biology, 2016, 37-38, 96-105.	4.3	51
39	Evidence for two mechanisms of amino acid osmolyte release from hippocampal slices. Pflugers Archiv European Journal of Physiology, 2001, 442, 791-800.	1.3	50
40	Pleiotrophic effects of natural products in ROS-induced carcinogenesis: The role of plant-derived natural products in oral cancer chemoprevention. Cancer Letters, 2012, 327, 16-25.	3.2	49
41	Osmosensitive release of neurotransmitter amino acids: relevance and mechanisms. Neurochemical Research, 2002, 27, 59-65.	1.6	46
42	Efflux of osmolyte amino acids during isovolumic regulation in hippocampal slices. Journal of Neuroscience Research, 2000, 61, 701-711.	1.3	45
43	Glucose Metabolism and AMPK Signaling Regulate Dopaminergic Cell Death Induced by Gene (Î±-Synuclein)-Environment (Paraquat) Interactions. Molecular Neurobiology, 2017, 54, 3825-3842.	1.9	40
44	A Novel Role of Silibinin as a Putative Epigenetic Modulator in Human Prostate Carcinoma. Molecules, 2017, 22, 62.	1.7	40
45	Metabolic Investigations of the Molecular Mechanisms Associated with Parkinsonâ€™s Disease. Metabolites, 2017, 7, 22.	1.3	39
46	Redox Biology in Neurological Function, Dysfunction, and Aging. Antioxidants and Redox Signaling, 2018, 28, 1583-1586.	2.5	39
47	Heterogeneous Nuclear Ribonucleoprotein K Supports Vesicular Stomatitis Virus Replication by Regulating Cell Survival and Cellular Gene Expression. Journal of Virology, 2013, 87, 10059-10069.	1.5	38
48	Glutaredoxin 1 Protects Dopaminergic Cells by Increased Protein Glutathionylation in Experimental Parkinson's Disease. Antioxidants and Redox Signaling, 2012, 17, 1676-1693.	2.5	37
49	Biomarkers of Protein Oxidation in Human Disease. Current Molecular Medicine, 2012, 12, 681-697.	0.6	34
50	Osmolytes and Mechanisms Involved in Regulatory Volume Decrease Under Conditions of Sudden or Gradual Osmolarity Decrease. Neurochemical Research, 2004, 29, 65-72.	1.6	33
51	Epidermal growth factor receptor is activated by hyposmolarity and is an early signal modulating osmolyte efflux pathways in Swiss 3T3 fibroblasts. Pflugers Archiv European Journal of Physiology, 2004, 447, 830-839.	1.3	33
52	Autocrine signaling involved in cell volume regulation: The role of released transmitters and plasma membrane receptors. Journal of Cellular Physiology, 2008, 216, 14-28.	2.0	33
53	From chemo-prevention to epigenetic regulation: The role of isothiocyanates in skin cancer prevention. , 2018, 190, 187-201.		33
54	Depolarization, exocytosis and amino acid release evoked by hyposmolarity from cortical synaptosomes. European Journal of Neuroscience, 2004, 19, 916-924.	1.2	32

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55	Inhibition of Protein Ubiquitination by Paraquat and 1-Methyl-4-Phenylpyridinium Impairs Ubiquitin-Dependent Protein Degradation Pathways. Molecular Neurobiology, 2016, 53, 5229-5251.	1.9	32
56	Mechanical stretch exacerbates the cell death in SH-SY5Y cells exposed to paraquat: mitochondrial dysfunction and oxidative stress. NeuroToxicology, 2014, 41, 54-63.	1.4	31
57	Volume changes and whole cell membrane currents activated during gradual osmolarity decrease in C6 glioma cells: contribution of two types of K+ channels. American Journal of Physiology - Cell Physiology, 2004, 286, C1399-C1409.	2.1	28
58	Environmental toxicity, oxidative stress, human disease and the â€œblack boxâ€•of their synergism: How much have we revealed?. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 674, 1-2.	0.9	28
59	Ouabain-induced perturbations in intracellular ionic homeostasis regulate death receptor-mediated apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 834-849.	2.2	27
60	Sulforaphane and iberin are potent epigenetic modulators of histone acetylation and methylation in malignant melanoma. European Journal of Nutrition, 2021, 60, 147-158.	1.8	26
61	Aldehyde dehydrogenase 3A1 promotes multi-modality resistance and alters gene expression profile in human breast adenocarcinoma MCF-7 cells. International Journal of Biochemistry and Cell Biology, 2016, 77, 120-128.	1.2	24
62	Allyl isothiocyanate regulates lysine acetylation and methylation marks in an experimental model of malignant melanoma. European Journal of Nutrition, 2020, 59, 557-569.	1.8	24
63	Aldehyde dehydrogenase 3A1 confers oxidative stress resistance accompanied by altered DNA damage response in human corneal epithelial cells. Free Radical Biology and Medicine, 2020, 150, 66-74.	1.3	24
64	Sulfur-Containing Compounds in Protecting Against Oxidant-Mediated Lung Diseases. Current Medicinal Chemistry, 2007, 14, 2590-2596.	1.2	23
65	Mechanistic Target of Rapamycin Signaling Activation Antagonizes Autophagy To Facilitate Zika Virus Replication. Journal of Virology, 2020, 94, .	1.5	22
66	Mechanisms of sex hormones in autoimmunity: focus on EAE. Biology of Sex Differences, 2020, 11, 50.	1.8	22
67	PKA and AMPK Signaling Pathways Differentially Regulate Luteal Steroidogenesis. Endocrinology, 2021, 162, .	1.4	18
68	Development of a Novel Experimental In Vitro Model of Isothiocyanate-induced Apoptosis in Human Malignant Melanoma Cells. Anticancer Research, 2016, 36, 6303-6310.	0.5	18
69	Influence of protein tyrosine kinases on cell volume changeinduced taurine release. Cerebellum, 2002, 1, 103-109.	1.4	17
70	Mechanisms of the ATP potentiation of hyposmotic taurine release in Swiss 3T3 fibroblasts. Pflugers Archiv European Journal of Physiology, 2004, 449, 159-169.	1.3	15
71	Human aldehyde dehydrogenase 3A1 (ALDH3A1) exhibits chaperone-like function. International Journal of Biochemistry and Cell Biology, 2017, 89, 16-24.	1.2	15
72	Metabolomics Analyses from Tissues in Parkinsonâ€™s Disease. Methods in Molecular Biology, 2019, 1996, 217-257.	0.4	14

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73	Glutathione depletion regulates both extrinsic and intrinsic apoptotic signaling cascades independent from multidrug resistance protein 1. Apoptosis: an International Journal on Programmed Cell Death, 2014, 19, 117-134.	2.2	13
74	Oxidative Stress Based-Biomarkers in Oral Carcinogenesis: How Far Have We Gone?. Current Molecular Medicine, 2012, 12, 698-703.	0.6	9
75	Benzyl and phenethyl isothiocyanates as promising epigenetic drug compounds by modulating histone acetylation and methylation marks in malignant melanoma. Investigational New Drugs, 2021, 39, 1460-1468.	1.2	9
76	Evaluation of Bioactive Properties of Lipophilic Fractions of Edible and Non-Edible Parts of Nasturtium officinale (Watercress) in a Model of Human Malignant Melanoma Cells. Pharmaceuticals, 2022, 15, 141.	1.7	9
77	Association of Autophagy in the Cell Death Mediated by Dihydrotestosterone in Autoreactive T Cells Independent of Antigenic Stimulation. Journal of NeuroImmune Pharmacology, 2015, 10, 620-634.	2.1	8
78	Novel Docosahexaenoic Acid Ester of Phloridzin Inhibits Proliferation and Triggers Apoptosis in an In Vitro Model of Skin Cancer. Antioxidants, 2018, 7, 188.	2.2	8
79	Arsenic Toxicity on Metabolism and Autophagy in Adipose and Muscle Tissues. Antioxidants, 2022, 11, 689.	2.2	7
80	An Evaluation of the Anti-Carcinogenic Response of Major Isothiocyanates in Non-Metastatic and Metastatic Melanoma Cells. Antioxidants, 2021, 10, 284.	2.2	6
81	DNAJA1 Dysregulates Metabolism Promoting an Antiapoptotic Phenotype in Pancreatic Ductal Adenocarcinoma. Journal of Proteome Research, 2021, 20, 3925-3939.	1.8	6
82	Osmosensitive Taurine Release. Advances in Experimental Medicine and Biology, 2003, , 189-196.	0.8	6
83	Differential modulation of human GABAC-ï1 receptor by sulfur-containing compounds structurally related to taurine. BMC Neuroscience, 2018, 19, 47.	0.8	5
84	A novel methylated analogue of L-Mimosine exerts its therapeutic potency through ROS production and ceramide-induced apoptosis in malignant melanoma. Investigational New Drugs, 2021, 39, 971-986.	1.2	5
85	Assessment of Methodological Pipelines for the Determination of Isothiocyanates Derived from Natural Sources. Antioxidants, 2022, 11, 642.	2.2	5
86	Cell death or survival: The double-edged sword of environmental and occupational toxicity. Chemico-Biological Interactions, 2010, 188, 265-266.	1.7	3
87	Survival Mechanisms and Xenobiotic Susceptibility of Keratinocytes Exposed to Metal-Derived Nanoparticles. Chemical Research in Toxicology, 2020, 33, 536-552.	1.7	3
88	Astrocyte Cellular Swelling. , 2004, , 173-190.		3
89	Chemical and Biological Characterization of the Anticancer Potency of Salvia fruticosa in a Model of Human Malignant Melanoma. Plants, 2021, 10, 2472.	1.6	3
90	Osmosensitive taurine release: does taurine share the same efflux pathway with chloride and other amino acid osmolytes?. Advances in Experimental Medicine and Biology, 2003, 526, 189-96.	0.8	3

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91	Challenges and opportunities for toxicology in Mexico. Toxicology Mechanisms and Methods, 2011, 21, 635-636.	1.3	1
92	Oxidative Stress, Redox Homeostasis and NF-Î²B Signaling in Neurodegeneration. ACS Symposium Series, 2015, , 53-90.	0.5	1
93	Lead facilitates foci formation in a Balb/c-3T3 two-step cell transformation model: role of Ape1 function. Environmental Science and Pollution Research, 2018, 25, 12150-12158.	2.7	1
94	Glutaredoxins Regulate Neuronal Cell Death Associated with Parkinsonâ€™s Disease. Free Radical Biology and Medicine, 2010, 49, S157.	1.3	0
95	A Distinct Role for Superoxide Anion and Hydrogen Peroxide in Dopaminergic Cell Death Induced by Mitochondrial Parkinsonian Toxins. Free Radical Biology and Medicine, 2010, 49, S157.	1.3	0
96	Alpha-Synuclein Impairs Autophagic Flux Increasing Oxidative Stress and Dopaminergic Cell Death Induced by Environmental Copper Exposure. Free Radical Biology and Medicine, 2012, 53, S70-S71.	1.3	0
97	Mitochondrial Peroxiredoxin 5 Protects Dopaminergic Cells Against Parkinsonian Neurotoxins Independent from Hydrogen Peroxide Signaling. Free Radical Biology and Medicine, 2012, 53, S65.	1.3	0
98	Distinct Role of Glutaredoxin 1 and 2 Regulating Protein Glutathionylation and Dopaminergic Cell Death. Free Radical Biology and Medicine, 2012, 53, S65.	1.3	0
99	Redox-metabolic â€œSwitchesâ€•Regulate Toxicity and Oxidative Stress in Dopaminergic/ Mesencephalic Cells Upon Experimental Models for Parkinsonâ€™s Disease. Free Radical Biology and Medicine, 2013, 65, S47.	1.3	0
100	Paraquat-induced ubiquitin/proteasome system dysfunction is compensated by P62-mediated autophagic clearance of oxidized/damaged proteins. Toxicology Letters, 2014, 229, S75.	0.4	0
101	Glutathione efflux through an SLCO/OATPâ€like transporter is necessary for the progression of FasLâ€induced apoptosis in Jurkat cells. FASEB Journal, 2006, 20, A121.	0.2	0
102	Protein glutathionylation regulates FasLâ€induced apoptosis.. FASEB Journal, 2009, 23, 526.17.	0.2	0