

J Andr  s Melendez

List of Publications by Year in descending order

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56
papers

6,578
citations

126708

33
h-index

155451

55
g-index

58
all docs

58
docs citations

58
times ranked

10507
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive Oxygen Species Generated at Mitochondrial Complex III Stabilize Hypoxia-inducible Factor-1 α during Hypoxia. <i>Journal of Biological Chemistry</i> , 2000, 275, 25130-25138.	1.6	1,697
2	Mitochondrial Complex I Inhibitor Rotenone Induces Apoptosis through Enhancing Mitochondrial Reactive Oxygen Species Production. <i>Journal of Biological Chemistry</i> , 2003, 278, 8516-8525.	1.6	1,112
3	Mitochondrial redox control of matrix metalloproteinases. <i>Free Radical Biology and Medicine</i> , 2004, 37, 768-784.	1.3	388
4	Overexpression of Catalase in Cytosolic or Mitochondrial Compartment Protects HepG2 Cells against Oxidative Injury. <i>Journal of Biological Chemistry</i> , 1999, 274, 26217-26224.	1.6	257
5	Redox control of senescence and age-related disease. <i>Redox Biology</i> , 2017, 11, 91-102.	3.9	240
6	Mitochondrial ROS control of cancer. <i>Seminars in Cancer Biology</i> , 2017, 47, 57-66.	4.3	222
7	Mitochondrial H ₂ O ₂ Regulates the Angiogenic Phenotype via PTEN Oxidation. <i>Journal of Biological Chemistry</i> , 2005, 280, 16916-16924.	1.6	217
8	Manganese Superoxide Dismutase Enhances the Invasive and Migratory Activity of Tumor Cells. <i>Cancer Research</i> , 2007, 67, 10260-10267.	0.4	157
9	Manganese Superoxide Dismutase Signals Matrix Metalloproteinase Expression via H ₂ O ₂ -dependent ERK1/2 Activation. <i>Journal of Biological Chemistry</i> , 2001, 276, 14264-14270.	1.6	139
10	Manganese Superoxide Dismutase (Sod2) and Redox-Control of Signaling Events That Drive Metastasis. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2011, 11, 191-201.	0.9	135
11	Mitochondrial or cytosolic catalase reverses the MnSOD-dependent inhibition of proliferation by enhancing respiratory chain activity, net ATP production, and decreasing the steady state levels of H ₂ O ₂ . <i>Free Radical Biology and Medicine</i> , 2000, 29, 801-813.	1.3	126
12	Elevated sod2 activity augments matrix metalloproteinase expression: evidence for the involvement of endogenous hydrogen peroxide in regulating metastasis. <i>Clinical Cancer Research</i> , 2003, 9, 424-32.	3.2	112
13	Matrix Metalloproteinase 9 Activity Enhances Host Susceptibility to Pulmonary Infection with Type A and B Strains of <i>Francisella tularensis</i> . <i>Journal of Immunology</i> , 2007, 178, 1013-1020.	0.4	104
14	Superoxide Dismutase B Gene (sodB)-Deficient Mutants of <i>Francisella tularensis</i> Demonstrate Hypersensitivity to Oxidative Stress and Attenuated Virulence. <i>Journal of Bacteriology</i> , 2006, 188, 6443-6448.	1.0	99
15	Altered redox status accompanies progression to metastatic human bladder cancer. <i>Free Radical Biology and Medicine</i> , 2009, 46, 42-50.	1.3	92
16	DPI induces mitochondrial superoxide-mediated apoptosis. <i>Free Radical Biology and Medicine</i> , 2003, 34, 465-477.	1.3	90
17	Strain-stimulated hypertrophy in cardiac myocytes is mediated by reactive oxygen species-dependent Ras S-glutathiolation. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 613-622.	0.9	89
18	Redox-control of matrix metalloproteinase-1: A critical link between free radicals, matrix remodeling and degenerative disease. <i>Respiratory Physiology and Neurobiology</i> , 2010, 174, 299-306.	0.7	87

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19	Alkbh8 Regulates Selenocysteine-Protein Expression to Protect against Reactive Oxygen Species Damage. <i>PLoS ONE</i> , 2015, 10, e0131335.	1.1	77
20	Potential Mechanisms for the Inhibition of Tumor Cell Growth by Manganese Superoxide Dismutase. <i>Antioxidants and Redox Signaling</i> , 2001, 3, 361-373.	2.5	72
21	An improved vaccine for prevention of respiratory tularemia caused by <i>Francisella tularensis</i> SchuS4 strain. <i>Vaccine</i> , 2008, 26, 5276-5288.	1.7	70
22	Haem oxygenase 1 gene induction by glucose deprivation is mediated by reactive oxygen species via the mitochondrial electron-transport chain. <i>Biochemical Journal</i> , 2003, 371, 877-885.	1.7	68
23	Manganese Superoxide Dismutase Protects from TNF- α -Induced Apoptosis by Increasing the Steady-State Production of H ₂ O ₂ . <i>Antioxidants and Redox Signaling</i> , 2006, 8, 1295-1305.	2.5	67
24	Redox-dependent Matrix Metalloproteinase-1 Expression Is Regulated by JNK through Ets and AP-1 Promoter Motifs*. <i>Journal of Biological Chemistry</i> , 2006, 281, 14100-14110.	1.6	66
25	Reactive oxygen species control senescence-associated matrix metalloproteinase-1 through c-Jun N-terminal kinase. <i>Journal of Cellular Physiology</i> , 2010, 225, 52-62.	2.0	66
26	Redox Control of the Senescence Regulator Interleukin-1 β and the Secretory Phenotype. <i>Journal of Biological Chemistry</i> , 2013, 288, 32149-32159.	1.6	65
27	<i>Francisella tularensis</i> Antioxidants Harness Reactive Oxygen Species to Restrict Macrophage Signaling and Cytokine Production. <i>Journal of Biological Chemistry</i> , 2010, 285, 27553-27560.	1.6	58
28	Identification of <i>Francisella tularensis</i> Live Vaccine Strain CuZn Superoxide Dismutase as Critical for Resistance to Extracellularly Generated Reactive Oxygen Species. <i>Journal of Bacteriology</i> , 2009, 191, 6447-6456.	1.0	55
29	Nickel Compounds Render Anti-apoptotic Effect to Human Bronchial Epithelial Beas-2B Cells by Induction of Cyclooxygenase-2 through an IKK1 ² /p65-dependent and IKK1 ⁻ and p50-independent Pathway. <i>Journal of Biological Chemistry</i> , 2006, 281, 39022-39032.	1.6	48
30	Mitochondrial localization of catalase provides optimal protection from H ₂ O ₂ -induced cell death in lung epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 290, L978-L986.	1.3	40
31	Serotonin-induced MMP-13 Production Is Mediated via Phospholipase C, Protein Kinase C, and ERK1/2 in Rat Uterine Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 42830-42840.	1.6	39
32	Potent Anti-tumor Effects of an Active Site Mutant of Human Manganese-Superoxide Dismutase. <i>Journal of Biological Chemistry</i> , 2004, 279, 12769-12776.	1.6	36
33	Fc γ R-driven Release of IL-6 by Macrophages Requires NOX2-dependent Production of Reactive Oxygen Species. <i>Journal of Biological Chemistry</i> , 2013, 288, 25098-25108.	1.6	36
34	A Dynamic Culture Method to Produce Ovarian Cancer Spheroids under Physiologically-Relevant Shear Stress. <i>Cells</i> , 2018, 7, 277.	1.8	36
35	Micropatterning of 3D Microenvironments for Living Biosensor Applications. <i>Biosensors</i> , 2014, 4, 28-44.	2.3	34
36	Redox-control of the alarmin, Interleukin-1 β . <i>Redox Biology</i> , 2013, 1, 218-225.	3.9	28

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37	Acquisition of the Metastatic Phenotype Is Accompanied by H ₂ O ₂ -Dependent Activation of the p130Cas Signaling Complex. <i>Molecular Cancer Research</i> , 2013, 11, 303-312.	1.5	26
38	Loss of epitranscriptomic control of selenocysteine utilization engages senescence and mitochondrial reprogramming. <i>Redox Biology</i> , 2020, 28, 101375.	3.9	25
39	Intracellular redox status controls membrane localization of pro- and anti-migratory signaling molecules. <i>Redox Biology</i> , 2014, 2, 245-250.	3.9	23
40	Manganese superoxide dismutase inactivation during Fas (CD95)-mediated apoptosis in Jurkat T cells. <i>Free Radical Biology and Medicine</i> , 2006, 41, 1795-1806.	1.3	22
41	Epitranscriptomic systems regulate the translation of reactive oxygen species detoxifying and disease linked selenoproteins. <i>Free Radical Biology and Medicine</i> , 2019, 143, 573-593.	1.3	19
42	Serotonin-mediated Production of Interstitial Collagenase by Uterine Smooth Muscle Cells Requires Interleukin-1 β , but not Interleukin-1 α . <i>Journal of Biological Chemistry</i> , 1998, 273, 25488-25494.	1.6	18
43	Redox-sensitive gene-regulatory events controlling aberrant matrix metalloproteinase-1 expression. <i>Free Radical Biology and Medicine</i> , 2014, 74, 99-107.	1.3	18
44	Characterization of α -adapt33, a Stress-Inducible Riboregulator. <i>Gene Expression</i> , 2003, 11, 85-94.	0.5	15
45	Comparative analysis of redox and inflammatory properties of pristine nanomaterials and commonly used semiconductor manufacturing nano-abrasives. <i>Toxicology Letters</i> , 2015, 239, 205-215.	0.4	14
46	Francisella tularensis Catalase Restricts Immune Function by Impairing TRPM2 Channel Activity. <i>Journal of Biological Chemistry</i> , 2016, 291, 3871-3881.	1.6	14
47	Senescence in chronic allograft nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F880-F889.	1.3	12
48	The epitranscriptomic writer ALKBH8 drives tolerance and protects mouse lungs from the environmental pollutant naphthalene. <i>Epigenetics</i> , 2020, 15, 1121-1138.	1.3	12
49	Localization and regulation of IL-1 β in rat myometrium during late pregnancy and the postpartum period. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R879-R888.	0.9	10
50	Age-dependent increases in interstitial collagenase and MAP Kinase levels are exacerbated by superoxide dismutase deficiencies. <i>Experimental Gerontology</i> , 2009, 44, 503-510.	1.2	8
51	Cloning of the cDNA and nucleotide sequence of a skeletal muscle protease from myopathic hamsters. <i>Molecular and Cellular Biochemistry</i> , 1998, 181, 125-135.	1.4	5
52	Redox and mTOR-dependent regulation of plasma lamellar calcium influx controls the senescence-associated secretory phenotype. <i>Experimental Biology and Medicine</i> , 2020, 245, 1560-1570.	1.1	5
53	Boronate probe-based hydrogen peroxide detection with AlGaN/GaN HEMT sensor. <i>Experimental Biology and Medicine</i> , 2021, 246, 523-528.	1.1	4
54	Featured Article: Nanoenhanced matrix metalloproteinase-responsive delivery vehicles for disease resolution and imaging. <i>Experimental Biology and Medicine</i> , 2016, 241, 2023-2032.	1.1	3

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55	Regulation of the Cellular Redox Environment by Superoxide Dismutases, Catalase, and Glutathione Peroxidases During Tumor Metastasis. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2016, , 51-79.	0.4	1
56	Respiratory Control of Redox Signaling and Cancer. , 2009, , 33-44.		0