Srigiridhar Kotamraju

List of Publications by Year
in descending order

66 papers	4,587 citations	117625 34 h-index	102487 66 g-index
67 all docs	67 docs citations	67 times ranked	7333 citing authors

#	Article	IF	Citations
1	Doxorubicin Induces Apoptosis in Normal and Tumor Cells via Distinctly Different Mechanisms. Journal of Biological Chemistry, 2004, 279, 25535-25543.	3.4	517
2	Doxorubicin-induced Apoptosis in Endothelial Cells and Cardiomyocytes Is Ameliorated by Nitrone Spin Traps and Ebselen. Journal of Biological Chemistry, 2000, 275, 33585-33592.	3.4	336
3	Metformin Inhibits Monocyte-to-Macrophage Differentiation via AMPK-Mediated Inhibition of STAT3 Activation: Potential Role in Atherosclerosis. Diabetes, 2015, 64, 2028-2041.	0.6	310
4	Doxorubicin-induced apoptosis: Implications in cardiotoxicity. Molecular and Cellular Biochemistry, 2002, 234/235, 119-124.	3.1	272
5	Supplementation of Endothelial Cells with Mitochondria-targeted Antioxidants Inhibit Peroxide-induced Mitochondrial Iron Uptake, Oxidative Damage, and Apoptosis. Journal of Biological Chemistry, 2004, 279, 37575-37587.	3.4	215
6	Transferrin Receptor-dependent Iron Uptake Is Responsible for Doxorubicin-mediated Apoptosis in Endothelial Cells. Journal of Biological Chemistry, 2002, 277, 17179-17187.	3.4	190
7	Doxorubicin-induced Apoptosis Is Associated with Increased Transcription of Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 2001, 276, 47266-47276.	3.4	189
8	Mitochondria superoxide dismutase mimetic inhibits peroxide-induced oxidative damage and apoptosis: Role of mitochondrial superoxide. Free Radical Biology and Medicine, 2005, 39, 567-583.	2.9	180
9	Oxidative Stressâ€“Induced Iron Signaling Is Responsible for Peroxide-Dependent Oxidation of Dichlorodihydrofluorescein in Endothelial Cells. Circulation Research, 2003, 92, 56-63.	4.5	146
10	Statin-Induced Breast Cancer Cell Death: Role of Inducible Nitric Oxide and Arginase-Dependent Pathways. Cancer Research, 2007, 67, 7386-7394.	0.9	130
11	Î±-Synuclein Up-regulation and Aggregation during MPP+-induced Apoptosis in Neuroblastoma Cells. Journal of Biological Chemistry, 2004, 279, 15240-15247.	3.4	119
12	Metformin regulates mitochondrial biogenesis and senescence through AMPK mediated H3K79 methylation: Relevance in age-associated vascular dysfunction. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 1115-1128.	3.8	102
13	Nitric oxide inhibits H2O2-induced transferrin receptor-dependent apoptosis in endothelial cells: Role of ubiquitin-proteasome pathway. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10653-10658.	7.1	97
14	Synthesis of novel 1,2,3-triazole substituted-N-alkyl/aryl nitrone derivatives, their anti-inflammatory and anticancer activity. European Journal of Medicinal Chemistry, 2014, 80, 184-191.	5.5	95
15	Ceramide-induced Intracellular Oxidant Formation, Iron Signaling, and Apoptosis in Endothelial Cells. Journal of Biological Chemistry, 2004, 279, 28614-28624.	3.4	89
16	Upregulation of immunoproteasomes by nitric oxide: Potential antioxidative mechanism in endothelial cells. Free Radical Biology and Medicine, 2006, 40, 1034-1044.	2.9	87
17	Hydrogen peroxide induces nitric oxide and proteosome activity in endothelial cells: A bell-shaped signaling response. Free Radical Biology and Medicine, 2007, 42, 1049-1061.	2.9	84
18	Mitochondrial-Targeted Curcuminoids: A Strategy to Enhance Bioavailability and Anticancer Efficacy of Curcumin. PLoS ONE, 2014, 9, e89351.	2.5	80

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19	Simultaneous electrochemical determination of superoxide anion radical and nitrite using Cu,ZnSOD immobilized on carbon nanotube in polypyrrole matrix. Biosensors and Bioelectronics, 2010, 26, 689-695.	10.1	78
20	Synthesis, biological activity evaluation and molecular docking studies of novel coumarin substituted thiazolyl-3-aryl-pyrazole-4-carbaldehydes. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5797-5803.	2.2	65
21	1-Methyl-4-phenylpyridinium-induced Apoptosis in Cerebellar Granule Neurons Is Mediated by Transferrin Receptor Iron-dependent Depletion of Tetrahydrobiopterin and Neuronal Nitric-oxide Synthase-derived Superoxide. Journal of Biological Chemistry, 2004, 279, 19099-19112.	3.4	60
22	Inhibition of Oxidized Low-density Lipoprotein-induced Apoptosis in Endothelial Cells by Nitric Oxide. Journal of Biological Chemistry, 2001, 276, 17316-17323.	3.4	59
23	Paradoxical effects of metalloporphyrins on doxorubicin-induced apoptosis: scavenging of reactive oxygen species versus induction of heme oxygenase-1. Free Radical Biology and Medicine, 2002, 33, 988-997.	2.9	58
24	Oxidant-Induced Iron Signaling in Doxorubicin-Mediated Apoptosis. Methods in Enzymology, 2004, 378, 362-382.	1.0	57
25	Novel 2-(2,4-dioxo-1,3-thiazolidin-5-yl)acetamides as antioxidant and/or anti-inflammatory compounds. European Journal of Medicinal Chemistry, 2013, 66, 305-313.	5.5	57
26	Recent trends in electrochemical biosensors of superoxide dismutases. Biosensors and Bioelectronics, 2018, 116, 89-99.	10.1	57
27	Resveratrol attenuates monocyte-to-macrophage differentiation and associated inflammation via modulation of intracellular GSH homeostasis: Relevance in atherosclerosis. Free Radical Biology and Medicine, 2016, 96, 392-405.	2.9	53
28	Mitochondria-targeted esculetin alleviates mitochondrial dysfunction by AMPK-mediated nitric oxide and SIRT3 regulation in endothelial cells: potential implications in atherosclerosis. Scientific Reports, 2016, 6, 24108.	3.3	48
29	Statinâ€induced inhibition of breast cancer proliferation and invasion involves attenuation of iron transport: intermediacy of nitric oxide and antioxidant defence mechanisms. FEBS Journal, 2014, 281, 3719-3738.	4.7	47
30	<scp>AMPK</scp> inhibits <scp>MTDH</scp> expression via <scp>GSK</scp>3Î² and <scp>SIRT</scp>1 activation: potential role in triple negative breast cancer cell proliferation. FEBS Journal, 2015, 282, 3971-3985.	4.7	47
31	Oxidative stress in coronary artery disease: epigenetic perspective. Molecular and Cellular Biochemistry, 2013, 374, 203-211.	3.1	44
32	Metformin treatment prevents SREBP2-mediated cholesterol uptake and improves lipid homeostasis during oxidative stress-induced atherosclerosis. Free Radical Biology and Medicine, 2018, 118, 85-97.	2.9	44
33	Synthesis and anticancer evaluation of 3-aryl-6-phenylimidazo[2,1-b]thiazoles. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5428-5431.	2.2	43
34	Nitration of PECAM-1 ITIM tyrosines abrogates phosphorylation and SHP-2 binding. Biochemical and Biophysical Research Communications, 2002, 296, 1171-1179.	2.1	36
35	Synthesis and Biological Evaluation of Imidazopyridineâ€“Oxindole Conjugates as Microtubuleâ€Targeting Agents. ChemMedChem, 2013, 8, 2015-2025.	3.2	36
36	Sepiapterin attenuates 1-methyl-4-phenylpyridinium-induced apoptosis in neuroblastoma cells transfected with neuronal NOS: Role of tetrahydrobiopterin, nitric oxide, and proteasome activation. Free Radical Biology and Medicine, 2005, 39, 1059-1074.	2.9	33

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37	Garlic provides protection to mice heart against isoproterenol-induced oxidative damage: Role of nitric oxide. Nitric Oxide - Biology and Chemistry, 2012, 27, 9-17.	2.7	32
38	Synthesis of novel 1,2-benzothiazine 1,1-dioxide-3-ethanone oxime N-aryl acetamide ether derivatives as potent anti-inflammatory agents and inhibitors of monocyte-to-macrophage transformation. European Journal of Medicinal Chemistry, 2014, 75, 143-150.	5.5	32
39	Virtual electrochemical nitric oxide analyzer using copper, zinc superoxide dismutase immobilized on carbon nanotubes in polypyrrole matrix. Talanta, 2012, 100, 168-174.	5.5	31
40	Synthesis of imidazo[2,1-b][1,3,4]thiadiazoleâ€“chalcones as apoptosis inducing anticancer agents. MedChemComm, 2014, 5, 1718-1723.	3.4	27
41	Impact of Hyperhomocysteinemia on Breast Cancer Initiation and Progression: Epigenetic Perspective. Cell Biochemistry and Biophysics, 2014, 68, 397-406.	1.8	26
42	Mitochondriaâ€targeted esculetin inhibits PAIâ€1 levels by modulating STAT3 activation and miRâ€19b via SIRT3: Role in acute coronary artery syndrome. Journal of Cellular Physiology, 2018, 233, 214-225.	4.1	26
43	High Affinity Neutral Bodipy Fluorophores for Mitochondrial Tracking. ACS Medicinal Chemistry Letters, 2018, 9, 618-622.	2.8	22
44	Synthesis and cytotoxicity of novel 6H-indolo[2,3-b]quinoxaline derivatives. Medicinal Chemistry Research, 2013, 22, 3712-3718.	2.4	21
45	Nitric oxide mitigates peroxide-induced iron-signaling, oxidative damage, and apoptosis in endothelial cells: role of proteasomal function?. Archives of Biochemistry and Biophysics, 2004, 423, 74-80.	3.0	19
46	Doxorubicin induces prostate cancer drug resistance by upregulation of ABCG4 through GSH depletion and CREB activation: Relevance of statins in chemosensitization. Molecular Carcinogenesis, 2019, 58, 1118-1133.	2.7	19
47	A novel metadherinÎ”7 splice variant enhances triple negative breast cancer aggressiveness by modulating mitochondrial function via NFÄ¸B-SIRT3 axis. Oncogene, 2020, 39, 2088-2102.	5.9	19
48	Fluvastatin Mediated Breast Cancer Cell Death: A Proteomic Approach to Identify Differentially Regulated Proteins in MDA-MB-231 Cells. PLoS ONE, 2014, 9, e108890.	2.5	18
49	Three-component, one-pot synthesis of benzo[6,7]cyclohepta[1,2- b]pyridine derivatives under catalyst free conditions and evaluation of their anti-inflammatory activity. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 858-863.	2.2	18
50	Down-regulation of the global regulator SATB1 by statins in COLO205 colon cancer cells. Molecular Medicine Reports, 2010, 3, 857-61.	2.4	14
51	Gold Nanoparticles with Self-Assembled Cysteine Monolayer Coupled to Nitrate Reductase in Polypyrrole Matrix Enhanced Nitrate Biosensor. Advanced Chemistry Letters, 2013, 1, 2-9.	0.1	14
52	A facile and single pot strategy for the synthesis of novel naphthyridine derivatives under microwave irradiation conditions using ZnCl2 as catalyst, evaluation of AChE inhibitory activity, and molecular modeling studies. Medicinal Chemistry Research, 2012, 21, 1785-1795.	2.4	10
53	3â€(2â€(5â€Aminoâ€3â€arylâ€1Hâ€pyrazolâ€1â€yl) thiazolâ€4â€yl)â€2Hâ€chromenâ€2â€ones as Potential Anticancer Agents: Synthesis, Anticancer Activity Evaluation and Molecular Docking Studies. ChemistrySelect, 2019, 4, 4324-4330.	1.5	10
54	Expression of the hemochromatosis gene modulates the cytotoxicity of doxorubicin in breast cancer cells. International Journal of Cancer, 2006, 119, 2200-2204.	5.1	9

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55	Antibacterial effect of an extract of the endophytic fungus Alternaria alternata and its cytotoxic activity on MCF-7 and MDA MB-231 tumour cell lines. Biological Letters, 2014, 51, 7-17.	0.6	9
56	Synthesis of novel 1-substituted triazole linked 1,2-benzothiazine 1,1-dioxido propenone derivatives as potent anti-inflammatory agents and inhibitors of monocyte-to-macrophage differentiation. MedChemComm, 2015, 6, 1494-1500.	3.4	9
57	Synthesis, antimicrobial and cytotoxic activities of novel 4-trifluoromethyl-(1,2,3)-thiadiazolo-5-carboxylic acid hydrazide Schiffâ€™s bases. Medicinal Chemistry Research, 2013, 22, 1747-1755.	2.4	8
58	Novel Bioactive Wild Medicinal Mushroom-Xylaria sp. R006 (Ascomycetes) against Multidrug Resistant Human Bacterial Pathogens and Human Cancer Cell Lines. International Journal of Medicinal Mushrooms, 2015, 17, 1005-1017.	1.5	8
59	Nitric Oxide, Proteasomal Function, and Iron Homeostasisâ€"Implications in Aging and Neurodegenerative Diseases. Methods in Enzymology, 2005, 396, 526-534.	1.0	7
60	Superoxide Anion Radical Biosensor Using Self-Assembled Cysteine Monolayer on Gold Nanoparticles in Polypyrrole Matrix Facilitated Electron Transfer in Cu, ZnSOD. Sensor Letters, 2010, 8, 613-621.	0.4	7
61	Nâ€end rule pathway inhibitor sensitizes cancer cells to antineoplastic agents by regulating XIAP and RAD21 protein expression. Journal of Cellular Biochemistry, 2020, 121, 804-815.	2.6	4
62	sp 3 â€Rich Glycyrrhetinic Acid Analogues Using Lateâ€Stage Functionalization as Potential Breast Tumor Regressing Agents. ChemMedChem, 2020, 15, 1826-1833.	3.2	3
63	A functional and self-assembling octyl-phosphonium-tagged esculetin as an effective siRNA delivery agent. Chemical Communications, 2021, 57, 12329-12332.	4.1	2
64	Synthesis of Novel Pyrido[3â€²,2â€²:4,5]furo[3,2â€d]pyrimidine Derivatives and Their Cytotoxic Activity. Journal of Heterocyclic Chemistry, 2014, 51, 1531-1535.	2.6	1
65	High Glucose Induced Monocyteâ€toâ€Macrophage Differentiation: Role of AMPk. FASEB Journal, 2013, 27, 870.7.	0.5	1
66	Synthesis, Characterization and Antitumor Activity of Novel Triazole/ Isoxazole Tagged Pyridine Hybrids. Letters in Organic Chemistry, 2014, 11, 293-302.	0.5	1