

Anil Kumar Mantha

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,153
citations

257450

24
h-index

233421

45
g-index

52
all docs

52
docs citations

52
times ranked

3284
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptional Regulatory Functions of Mammalian AP-Endonuclease (APE1/Ref-1), an Essential Multifunctional Protein. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 621-637.	5.4	223
2	Biosensors for breast cancer diagnosis: A review of bioreceptors, biotransducers and signal amplification strategies. <i>Biosensors and Bioelectronics</i> , 2017, 88, 217-231.	10.1	219
3	Essential Oils and Their Constituents as Anticancer Agents: A Mechanistic View. <i>BioMed Research International</i> , 2014, 2014, 1-23.	1.9	181
4	APE1/Ref-1 as an emerging therapeutic target for various human diseases: phytochemical modulation of its functions. <i>Experimental and Molecular Medicine</i> , 2014, 46, e106-e106.	7.7	126
5	Identification of Apurinic/aprimidinic endonuclease 1 (APE1) as the endoribonuclease that cleaves c-myc mRNA. <i>Nucleic Acids Research</i> , 2009, 37, 3946-3958.	14.5	124
6	Oxidative genome damage and its repair: Implications in aging and neurodegenerative diseases. <i>Mechanisms of Ageing and Development</i> , 2012, 133, 157-168.	4.6	124
7	Recent developments on the structure-activity relationship studies of MAO inhibitors and their role in different neurological disorders. <i>RSC Advances</i> , 2016, 6, 42660-42683.	3.6	98
8	Conserved Structural Chemistry for Incision Activity in Structurally Non-homologous Apurinic/Apyrimidinic Endonuclease APE1 and Endonuclease IV DNA Repair Enzymes. <i>Journal of Biological Chemistry</i> , 2013, 288, 8445-8455.	3.4	88
9	Ginkgolide B revamps neuroprotective role of apurinic/aprimidinic endonuclease 1 and mitochondrial oxidative phosphorylation against A β ₂₅₋₃₅ -induced neurotoxicity in human neuroblastoma cells. <i>Journal of Neuroscience Research</i> , 2015, 93, 938-947.	2.9	60
10	Phytochemical Ginkgolide B Attenuates Amyloid- β ₁₋₄₂ Induced Oxidative Damage and Altered Cellular Responses in Human Neuroblastoma SH-SY5Y Cells. <i>Journal of Alzheimer's Disease</i> , 2017, 60, S25-S40.	2.6	53
11	4,6-Diphenylpyrimidine Derivatives as Dual Inhibitors of Monoamine Oxidase and Acetylcholinesterase for the Treatment of Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2019, 10, 252-265.	3.5	53
12	Curcumin revitalizes Amyloid beta (25-35)-induced and organophosphate pesticides pestered neurotoxicity in SH-SY5Y and IMR-32 cells via activation of APE1 and Nrf2. <i>Metabolic Brain Disease</i> , 2017, 32, 2045-2061.	2.9	51
13	Glycyrrhiza glabra (Licorice) root extract attenuates doxorubicin-induced cardiotoxicity via alleviating oxidative stress and stabilising the cardiac health in H9c2 cardiomyocytes. <i>Journal of Ethnopharmacology</i> , 2020, 258, 112690.	4.1	50
14	A short review on the implications of base excision repair pathway for neurons: Relevance to neurodegenerative diseases. <i>Mitochondrion</i> , 2014, 16, 38-49.	3.4	48
15	A review on protein-protein interaction network of APE1/Ref-1 and its associated biological functions. <i>Cell Biochemistry and Function</i> , 2015, 33, 101-112.	2.9	48
16	Proteomic study of amyloid beta (25-35) peptide exposure to neuronal cells: Impact on APE1/Ref-1's protein-protein interaction. <i>Journal of Neuroscience Research</i> , 2012, 90, 1230-1239.	2.9	39
17	Synthesis, biological evaluation and molecular modeling studies of phenyl/benzhydrylpiperazine derivatives as potential MAO inhibitors. <i>Bioorganic Chemistry</i> , 2018, 77, 252-262.	4.1	36
18	DNA Repair and Redox Activities and Inhibitors of Apurinic/Apyrimidinic Endonuclease 1/Redox Effector Factor 1 (APE1/Ref-1): A Comparative Analysis and Their Scope and Limitations toward Anticancer Drug Development. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 10241-10256.	6.4	35

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19	Estradiol and progesterone treatments change the lipid profile in naturally menopausal rats from different age groups. <i>Biogerontology</i> , 2004, 5, 411-419.	3.9	34
20	Unusual Role of a Cysteine Residue in Substrate Binding and Activity of Human AP-Endonuclease 1. <i>Journal of Molecular Biology</i> , 2008, 379, 28-37.	4.2	33
21	Elevated level of acetylation of APE1 in tumor cells modulates DNA damage repair. <i>Oncotarget</i> , 2016, 7, 75197-75209.	1.8	31
22	Neuroprotective Role of Neurokinin B (NKB) on $\text{A}\beta_{25-35}$ Induced Toxicity in Aging Rat Brain Synaptosomes: Involvement in Oxidative Stress and Excitotoxicity. <i>Biogerontology</i> , 2006, 7, 1-17.	3.9	28
23	Understanding human thiol dioxygenase enzymes: structure to function, and biology to pathology. <i>International Journal of Experimental Pathology</i> , 2017, 98, 52-66.	1.3	26
24	Three Dimensional Structure of Mammalian Tachykinin Peptide Neurokinin B Bound to Lipid Micelles. <i>Journal of Biomolecular Structure and Dynamics</i> , 2004, 22, 137-147.	3.5	25
25	Effect of Hormone Replacement Therapy in Normalizing Age Related Neuronal Markers in Different Age Groups of Naturally Menopausal Rats. <i>Biogerontology</i> , 2005, 6, 345-356.	3.9	24
26	Regulation of limited N-terminal proteolysis of APE1 in tumor via acetylation and its role in cell proliferation. <i>Oncotarget</i> , 2016, 7, 22590-22604.	1.8	24
27	APE1 modulates cellular responses to organophosphate pesticide-induced oxidative damage in non-small cell lung carcinoma A549 cells. <i>Molecular and Cellular Biochemistry</i> , 2018, 441, 201-216.	3.1	24
28	Membrane Associated Functions of Neurokinin B (NKB) on $\text{A}\beta_{25-35}$ Induced Toxicity in Aging Rat Brain Synaptosomes. <i>Biogerontology</i> , 2006, 7, 19-33.	3.9	23
29	Oxidative stress stimulates invasive potential in rat C6 and human U-87 MG glioblastoma cells via activation and cross-talk between PKM2, ENPP2 and APE1 enzymes. <i>Metabolic Brain Disease</i> , 2018, 33, 1307-1326.	2.9	22
30	Bio-analytical applications of nicking endonucleases assisted signal-amplification strategies for detection of cancer biomarkers -DNA methyl transferase and microRNA. <i>Biosensors and Bioelectronics</i> , 2019, 124-125, 233-243.	10.1	21
31	A short review: Doxorubicin and its effect on cardiac proteins. <i>Journal of Cellular Biochemistry</i> , 2021, 122, 153-165.	2.6	18
32	Brain Exosomes: Friend or Foe in Alzheimer's Disease?. <i>Molecular Neurobiology</i> , 2021, 58, 6610-6624.	4.0	18
33	Doxorubicin and Crocin Co-delivery by Polymeric Nanoparticles for Enhanced Anticancer Potential <i>In Vitro</i> and <i>In Vivo</i> . <i>ACS Applied Bio Materials</i> , 2020, 3, 7789-7799.	4.6	17
34	Scaffold attachment factor A (SAF-A) and Ku temporally regulate repair of radiation-induced clustered genome lesions. <i>Oncotarget</i> , 2016, 7, 54430-54444.	1.8	16
35	MD simulation and experimental evidence for Mg^{2+} binding at the b site in human AP endonuclease 1. <i>Bioinformatics</i> , 2011, 7, 184-198.	0.5	16
36	An in vitro study ascertaining the role of H_2O_2 and glucose oxidase in modulation of antioxidant potential and cancer cell survival mechanisms in glioblastoma U-87 MG cells. <i>Metabolic Brain Disease</i> , 2017, 32, 1705-1716.	2.9	13

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37	A short review on cross-link between pyruvate kinase (PKM2) and Glioblastoma Multiforme. <i>Metabolic Brain Disease</i> , 2021, 36, 751-765.	2.9	13
38	Anticancer activity of dihydropyrazolo[1,5- <i>c</i>]quinazolines against rat C6 glioma cells via inhibition of topoisomerase II. <i>Archiv Der Pharmazie</i> , 2018, 351, e1800023.	4.1	10
39	Oxidative Stress Events and Neuronal Dysfunction in Alzheimer's Disease: Focus on APE1/Ref-1-Mediated Survival Strategies. , 2015, , 175-207.		9
40	Organophosphate pesticides induced survival mechanisms and APE1-mediated Nrf2 regulation in non-small cell lung cancer cells. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22640.	3.0	8
41	Inflammatory response of gliadin protein isolated from various wheat varieties on human intestinal cell line. <i>Journal of Cereal Science</i> , 2018, 81, 91-98.	3.7	7
42	Biodegradable nanoparticulate co-delivery of flavonoid and doxorubicin: Mechanistic exploration and evaluation of anticancer effect in vitro and in vivo. <i>Biomaterials and Biosystems</i> , 2021, 3, 100022.	2.2	7
43	ANTI-CANCER DRUG DOXORUBICIN INDUCED CARDIOTOXICITY: UNDERSTANDING THE MECHANISMS INVOLVED IN ROS GENERATION RESULTING IN MITOCHONDRIAL DYSFUNCTION. <i>Rasayan Journal of Chemistry</i> , 2020, 13, 1042-1053.	0.4	5
44	Mitigation of Gliadin-Induced Inflammation and Cellular Damage by Curcumin in Human Intestinal Cell Lines. <i>Inflammation</i> , 2021, 44, 873-889.	3.8	4
45	Priming alleviates high temperature induced oxidative DNA damage and repair using Apurinic/aprimidinic endonuclease (Ape1L) homologue in wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2020, 156, 304-313.	5.8	3
46	Gliadin induced oxidative stress and altered cellular responses in human intestinal cells: An in vitro study to understand the cross-talk between the transcription factor Nrf2 and multifunctional APE1 enzyme. <i>Journal of Biochemical and Molecular Toxicology</i> , 2022, 36, e23096.	3.0	3
47	Pharmacophore Pattern Identification of Tachykinin Receptor Selective Peptide Agonists: Implications in Receptor Selectivity. <i>American Journal of Biochemistry and Biotechnology</i> , 2007, 3, 180-186.	0.4	2
48	Methods to Detect Nitric Oxide and Reactive Nitrogen Species in Biological Sample. <i>Methods in Molecular Biology</i> , 2022, 2413, 69-76.	0.9	1
49	Methods to Assess Oxidative DNA Base Damage Repair of Apurinic/Apyrimidinic (AP) Sites Using Radioactive and Nonradioactive Oligonucleotide-Based Assays. <i>Methods in Molecular Biology</i> , 2022, 2413, 155-163.	0.9	1
50	Herbal Remedies for Improving Cancer Treatment Through Modulation of Redox Balance. , 2022, , 1-17.		1