

Gopabandhu Jena

List of Publications by Year in descending order

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104
papers

3,733
citations

109321

35
h-index

155660

55
g-index

106
all docs

106
docs citations

106
times ranked

5236
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative stress in ulcerative colitis: an old concept but a new concern. <i>Free Radical Research</i> , 2012, 46, 1339-1345.	3.3	142
2	Protective role of sodium butyrate, a HDAC inhibitor on beta-cell proliferation, function and glucose homeostasis through modulation of p38/ERK MAPK and apoptotic pathways: Study in juvenile diabetic rat. <i>Chemico-Biological Interactions</i> , 2014, 213, 1-12.	4.0	140
3	Astaxanthin intervention ameliorates cyclophosphamide-induced oxidative stress, DNA damage and early hepatocarcinogenesis in rat: Role of Nrf2, p53, p38 and phase-II enzymes. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010, 696, 69-80.	1.7	134
4	Intervention of astaxanthin against cyclophosphamide-induced oxidative stress and DNA damage: A study in mice. <i>Chemico-Biological Interactions</i> , 2009, 180, 398-406.	4.0	122
5	Astaxanthin inhibits cytotoxic and genotoxic effects of cyclophosphamide in mice germ cells. <i>Toxicology</i> , 2008, 248, 96-103.	4.2	121
6	Sodium butyrate reduces insulin-resistance, fat accumulation and dyslipidemia in type-2 diabetic rat: A comparative study with metformin. <i>Chemico-Biological Interactions</i> , 2016, 254, 124-134.	4.0	117
7	Sodium butyrate, a HDAC inhibitor ameliorates eNOS, iNOS and TGF- β 1-induced fibrogenesis, apoptosis and DNA damage in the kidney of juvenile diabetic rats. <i>Food and Chemical Toxicology</i> , 2014, 73, 127-139.	3.6	108
8	Increased cell proliferation and contractility of prostate in insulin resistant rats: Linking hyperinsulinemia with benign prostate hyperplasia. <i>Prostate</i> , 2010, 70, 79-89.	2.3	99
9	Methotrexate-induced cytotoxicity and genotoxicity in germ cells of mice: Intervention of folic and folinic acid. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 673, 43-52.	1.7	93
10	Melatonin modulated autophagy and Nrf2 signaling pathways in mice with colitis-associated colon carcinogenesis. <i>Molecular Carcinogenesis</i> , 2016, 55, 255-267.	2.7	92
11	Effect of melatonin on the expression of Nrf2 and NF- κ B during cyclophosphamide-induced urinary bladder injury in rat. <i>Journal of Pineal Research</i> , 2010, 48, 324-331.	7.4	87
12	Cardioprotective Effects of Hesperetin against Doxorubicin-Induced Oxidative Stress and DNA Damage in Rat. <i>Cardiovascular Toxicology</i> , 2011, 11, 215-225.	2.7	86
13	Investigation on sodium valproate induced germ cell damage, oxidative stress and genotoxicity in male Swiss mice. <i>Reproductive Toxicology</i> , 2011, 32, 385-394.	2.9	74
14	Zinc protects cyclophosphamide-induced testicular damage in rat: Involvement of metallothionein, tesmin and Nrf2. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 591-596.	2.1	74
15	The role of butyrate, a histone deacetylase inhibitor in diabetes mellitus: experimental evidence for therapeutic intervention. <i>Epigenomics</i> , 2015, 7, 669-680.	2.1	74
16	S961, an insulin receptor antagonist causes hyperinsulinemia, insulin-resistance and depletion of energy stores in rats. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 260-265.	2.1	72
17	Antioxidant and antimutagenic effect of quercetin against DEN induced hepatotoxicity in rat. <i>Phytotherapy Research</i> , 2010, 24, 119-128.	5.8	71
18	Sodium valproate ameliorates diabetes-induced fibrosis and renal damage by the inhibition of histone deacetylases in diabetic rat. <i>Experimental and Molecular Pathology</i> , 2015, 98, 230-239.	2.1	69

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19	Hesperetin protects testicular toxicity of doxorubicin in rat: Role of NF- κ B, p38 and caspase-3. Food and Chemical Toxicology, 2011, 49, 838-847.	3.6	67
20	Valproate attenuates the proteinuria, podocyte and renal injury by facilitating autophagy and inactivation of NF- κ B/iNOS signaling in diabetic rat. Biochimie, 2015, 110, 1-16.	2.6	67
21	Role of α -lipoic acid in dextran sulfate sodium-induced ulcerative colitis in mice: Studies on inflammation, oxidative stress, DNA damage and fibrosis. Food and Chemical Toxicology, 2013, 59, 339-355.	3.6	65
22	Melatonin Reduces Ulcerative Colitis-Associated Local and Systemic Damage in Mice: Investigation on Possible Mechanisms. Digestive Diseases and Sciences, 2013, 58, 3460-3474.	2.3	62
23	Cytotoxic and genotoxic effects of methotrexate in germ cells of male Swiss mice. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 655, 59-67.	1.7	61
24	Ethanol-induced gastric ulcer in rats and intervention of tert-butylhydroquinone: Involvement of Nrf2/HO-1 signalling pathway. Human and Experimental Toxicology, 2020, 39, 547-562.	2.2	56
25	Insulin-resistance and benign prostatic hyperplasia: The connection. European Journal of Pharmacology, 2010, 641, 75-81.	3.5	54
26	Intervention of α -lipoic acid ameliorates methotrexate-induced oxidative stress and genotoxicity: A study in rat intestine. Chemico-Biological Interactions, 2010, 183, 85-97.	4.0	51
27	Alkaline, Endo III and FPG modified comet assay as biomarkers for the detection of oxidative DNA damage in rats with experimentally induced diabetes. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2011, 726, 242-250.	1.7	48
28	Evaluation of male germ cell toxicity in rats: Correlation between sperm head morphology and sperm comet assay. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 703, 115-121.	1.7	47
29	Telmisartan ameliorates germ cell toxicity in the STZ-induced diabetic rat: Studies on possible molecular mechanisms. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 755, 11-23.	1.7	47
30	Valproic acid reduces insulin-resistance, fat deposition and FOXO1-mediated gluconeogenesis in type-2 diabetic rat. Biochimie, 2016, 125, 42-52.	2.6	47
31	Valproic Acid Improves Glucose Homeostasis by Increasing Beta-Cell Proliferation, Function, and Reducing its Apoptosis through HDAC Inhibition in Juvenile Diabetic Rat. Journal of Biochemical and Molecular Toxicology, 2016, 30, 438-446.	3.0	44
32	Mechanistic insight into beta-carotene-mediated protection against ulcerative colitis-associated local and systemic damage in mice. European Journal of Nutrition, 2015, 54, 639-652.	3.9	43
33	Role of Zinc Supplementation in Testicular and Epididymal Damages in Diabetic Rat: Involvement of Nrf2, SOD1, and GPX5. Biological Trace Element Research, 2016, 173, 452-464.	3.5	43
34	Sodium Butyrate Ameliorates L-Arginine-Induced Pancreatitis and Associated Fibrosis in Wistar Rat: Role of Inflammation and Nitrosative Stress. Journal of Biochemical and Molecular Toxicology, 2015, 29, 349-359.	3.0	40
35	Ulcerative colitis-induced hepatic damage in mice: Studies on inflammation, fibrosis, oxidative DNA damage and GST-P expression. Chemico-Biological Interactions, 2013, 201, 19-30.	4.0	37
36	Intervention of d-glucose ameliorates the toxicity of streptozotocin in accessory sex organs of rat. Toxicology and Applied Pharmacology, 2008, 226, 84-93.	2.8	34

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37	Dimethyl fumarate protects thioacetamide-induced liver damage in rats: Studies on Nrf2, NLRP3, and NF- κ B. <i>Journal of Biochemical and Molecular Toxicology</i> , 2020, 34, e22476.	3.0	33
38	Evaluation of streptozotocin genotoxicity in rats from different ages using the micronucleus assay. <i>Regulatory Toxicology and Pharmacology</i> , 2007, 49, 238-244.	2.7	32
39	Micronucleus and comet assay in the peripheral blood of juvenile rat: Establishment of assay feasibility, time of sampling and the induction of DNA damage. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010, 700, 86-94.	1.7	32
40	Glibenclamide protects against thioacetamide-induced hepatic damage in Wistar rat: investigation on NLRP3, MMP-2, and stellate cell activation. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018, 391, 1257-1274.	3.0	32
41	NLRP3 inhibitor glibenclamide attenuates high-fat diet and streptozotocin-induced non-alcoholic fatty liver disease in rat: studies on oxidative stress, inflammation, DNA damage and insulin signalling pathway. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2020, 393, 705-716.	3.0	31
42	Mutagenicity of an organophosphate insecticide acephate an in vivo study in chicks. <i>Mutagenesis</i> , 1994, 9, 319-324.	2.6	29
43	Enalapril reduces germ cell toxicity in streptozotocin-induced diabetic rat: investigation on possible mechanisms. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2012, 385, 111-124.	3.0	29
44	Ebselen attenuates cyclophosphamide-induced oxidative stress and DNA damage in mice. <i>Free Radical Research</i> , 2008, 42, 966-977.	3.3	28
45	Protective role of atorvastatin against doxorubicin-induced cardiotoxicity and testicular toxicity in mice. <i>Journal of Physiology and Biochemistry</i> , 2013, 69, 513-525.	3.0	28
46	A Review of the Use of Melatonin in Ulcerative Colitis. <i>Inflammatory Bowel Diseases</i> , 2014, 20, 553-563.	1.9	28
47	Clastogenic effects of copper sulphate in chick in vivo test system. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1996, 367, 57-63.	1.2	27
48	Dextran sulfate sodium-induced ulcerative colitis leads to increased hematopoiesis and induces both local as well as systemic genotoxicity in mice. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012, 744, 172-183.	1.7	26
49	Pioglitazone attenuates prostatic enlargement in diet-induced insulin-resistant rats by altering lipid distribution and hyperinsulinaemia. <i>British Journal of Pharmacology</i> , 2010, 161, 1708-1721.	5.4	24
50	Protective effect of a polyherbal formulation (Immu-21) against cyclophosphamide-induced mutagenicity in mice. <i>Phytotherapy Research</i> , 2003, 17, 306-310.	5.8	23
51	Use of the alkaline comet assay for the detection of transplacental genotoxins in newborn mice. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008, 653, 134-139.	1.7	23
52	Relative influence of testosterone and insulin in the regulation of prostatic cell proliferation and growth. <i>Steroids</i> , 2011, 76, 416-423.	1.8	23
53	Anti-fibrotic effects of valproic acid: role of HDAC inhibition and associated mechanisms. <i>Epigenomics</i> , 2016, 8, 1087-1101.	2.1	23
54	Zinc and selenium combination treatment protected diabetes-induced testicular and epididymal damage in rat. <i>Human and Experimental Toxicology</i> , 2020, 39, 1235-1256.	2.2	23

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55	Dextran sulfate sodium-induced ulcerative colitis leads to testicular toxicity in mice: Role of inflammation, oxidative stress and DNA damage. <i>Reproductive Toxicology</i> , 2014, 49, 171-184.	2.9	21
56	Valproate ameliorates thioacetamide-induced fibrosis by hepatic stellate cell inactivation. <i>Human and Experimental Toxicology</i> , 2015, 34, 44-55.	2.2	21
57	Phenylbutyrate and $\hat{1}^2$ -cell function: contribution of histone deacetylases and ER stress inhibition. <i>Epigenomics</i> , 2017, 9, 711-720.	2.1	21
58	Methotrexate-induced germ cell toxicity and the important role of zinc and SOD1: Investigation of molecular mechanisms. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 596-601.	2.1	21
59	Implementation of Good Laboratory Practices (GLP) in basic scientific research: Translating the concept beyond regulatory compliance. <i>Regulatory Toxicology and Pharmacology</i> , 2017, 89, 20-25.	2.7	21
60	Therapeutic potential of seabuckthorn: a patent review (2000-2018). <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 733-744.	5.0	21
61	Nrf2, a novel molecular target to reduce type 1 diabetes associated secondary complications: The basic considerations. <i>European Journal of Pharmacology</i> , 2019, 843, 12-26.	3.5	21
62	Diethylnitrosamine and thioacetamide-induced hepatic damage and early carcinogenesis in rats: Role of Nrf2 activator dimethyl fumarate and NLRP3 inhibitor glibenclamide. <i>Biochemical and Biophysical Research Communications</i> , 2020, 522, 381-387.	2.1	20
63	Protective effects of enalapril in streptozotocin-induced diabetic rat: studies of <sc>DNA</sc> damage, apoptosis and expression of <sc>CCN2</sc> in the heart, kidney and liver. <i>Journal of Applied Toxicology</i> , 2012, 32, 662-672.	2.8	19
64	Zinc deficient diet increases the toxicity of bisphenol A in rat testis. <i>Journal of Biochemical and Molecular Toxicology</i> , 2020, 34, e22549.	3.0	19
65	Quercetin Inhibits Diethylnitrosamine-Induced Hepatic Preneoplastic Lesions in Rats. <i>Nutrition and Cancer</i> , 2011, 63, 234-241.	2.0	16
66	Furosemide-induced genotoxicity and cytotoxicity in the hepatocytes, but weak genotoxicity in the bone marrow cells of mice. <i>Fundamental and Clinical Pharmacology</i> , 2012, 26, 383-392.	1.9	16
67	Cytarabine induced cerebellar neuronal damage in juvenile rat: Correlating neurobehavioral performance with cellular and genetic alterations. <i>Toxicology</i> , 2012, 293, 41-52.	4.2	15
68	Pre-pubertal exposure of cytarabine-induced testicular atrophy, impaired spermatogenesis and germ cell DNA damage in SD rats. <i>Toxicology Mechanisms and Methods</i> , 2014, 24, 703-712.	2.7	15
69	Role of autophagy and histone deacetylases in diabetic nephropathy: Current status and future perspectives. <i>Genes and Diseases</i> , 2016, 3, 211-219.	3.4	15
70	Evaluation of multi-organ DNA damage by comet assay from 28 days repeated dose oral toxicity test in mice: A practical approach for test integration in regulatory toxicity testing. <i>Regulatory Toxicology and Pharmacology</i> , 2010, 58, 145-154.	2.7	14
71	Prior bleeding enhances the sensitivity of peripheral blood and bone marrow micronucleus tests in rats. <i>Mutagenesis</i> , 2007, 22, 287-291.	2.6	12
72	Diet-Induced Hyperinsulinemia Accelerates Growth of Androgen-Independent PC-3 Cells In Vitro. <i>Nutrition and Cancer</i> , 2012, 64, 121-127.	2.0	12

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73	Regulatory requirements and ICH guidelines on carcinogenicity testing of pharmaceuticals: A review on current status. <i>Indian Journal of Pharmacology</i> , 2005, 37, 209.	0.7	12
74	Simultaneous Modulation of NLRP3 Inflammasome and Nrf2/ARE Pathway Rescues Thioacetamide-Induced Hepatic Damage in Mice: Role of Oxidative Stress and Inflammation. <i>Inflammation</i> , 2022, 45, 610-626.	3.8	12
75	Influence of Hyperglycaemia on Chemical-Induced Toxicity: Study with Cyclophosphamide in Rat. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2009, 105, 236-242.	2.5	11
76	Pretreatment with valproic acid, a histone deacetylase inhibitor, enhances the sensitivity of the peripheral blood micronucleus assay in rodents. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 751, 19-26.	1.7	11
77	Effect of sodium valproate on the toxicity of cyclophosphamide in the testes of mice: Influence of pre- and post-treatment schedule. <i>Toxicology International</i> , 2013, 20, 68.	0.1	11
78	Influence of 3-aminobenzamide, an inhibitor of poly(ADP-ribose)polymerase, in the evaluation of the genotoxicity of doxorubicin, cyclophosphamide and zidovudine in female mice. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014, 770, 6-15.	1.7	11
79	Pre-bled-young-rats in genotoxicity testing: A model for peripheral blood micronucleus assay. <i>Regulatory Toxicology and Pharmacology</i> , 2008, 52, 147-157.	2.7	10
80	3-Aminobenzamide – a PARP inhibitor enhances the sensitivity of peripheral blood micronucleus and comet assays in mice. <i>Toxicology Mechanisms and Methods</i> , 2014, 24, 332-341.	2.7	10
81	Use of Chemoprotectants in Chemotherapy and Radiation Therapy: The Challenges of Selecting an Appropriate Agent. <i>Integrative Cancer Therapies</i> , 2010, 9, 253-258.	2.0	9
82	Sodium valproate, a histone deacetylase inhibitor ameliorates cyclophosphamide-induced genotoxicity and cytotoxicity in the colon of mice. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2014, 25, 329-339.	1.3	9
83	Nicotinamide attenuates cyclophosphamide-induced hepatotoxicity in SD rats by reducing oxidative stress and apoptosis. <i>Journal of Biochemical and Molecular Toxicology</i> , 2020, 34, e22558.	3.0	9
84	Zinc deficient diet exacerbates the testicular and epididymal damage in type 2 diabetic rat: Studies on oxidative stress-related mechanisms. <i>Reproductive Biology</i> , 2020, 20, 191-201.	1.9	9
85	Effect of diethyldithiocarbamate in cyclophosphamide-induced nephrotoxicity: Immunohistochemical study of superoxide dismutase 1 in rat. <i>Indian Journal of Pharmacology</i> , 2018, 50, 4.	0.7	9
86	Insulin-resistance reduces botulinum neurotoxin-type A induced prostatic atrophy and apoptosis in rats. <i>European Journal of Pharmacology</i> , 2011, 650, 356-363.	3.5	8
87	Effects of nicotine on the testicular toxicity of streptozotocin-induced diabetic rat. <i>Human and Experimental Toxicology</i> , 2014, 33, 609-622.	2.2	8
88	±-Lipoic acid attenuates transplacental nicotine-induced germ cell and oxidative DNA damage in adult mice. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2016, 27, 585-593.	1.3	8
89	Studies on male gonadal toxicity of bisphenol A in diabetic rats: An example of exacerbation effect. <i>Journal of Biochemical and Molecular Toxicology</i> , 2022, 36, e22996.	3.0	8
90	Role of Combination Treatment of Aspirin and Zinc in DMH-DSS-induced Colon Inflammation, Oxidative Stress and Tumour Progression in Male BALB/c Mice. <i>Biological Trace Element Research</i> , 2023, 201, 1327-1343.	3.5	8

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91	Role of insulin and testosterone in prostatic growth: Who is doing what?. Medical Hypotheses, 2011, 76, 474-478.	1.5	7
92	Modulation of mitomycin C-induced genotoxicity by acetyl- and thio- analogues of salicylic acid. In Vivo, 2009, 23, 303-7.	1.3	7
93	Mechanisms of NLRP3 inflammasome-mediated hepatic stellate cell activation: Therapeutic potential for liver fibrosis. Genes and Diseases, 2023, 10, 480-494.	3.4	6
94	Association of Type 1 diabetes with ulcerative colitis in BALB/c mice: Investigations on sex-specific differences. Journal of Biochemical and Molecular Toxicology, 2022, 36, e22980.	3.0	6
95	The evaluation of clastogenic potential of trichloroacetic acid (TCA) in chick in vivo test system. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1996, 367, 253-259.	1.2	5
96	Simultaneous use of erythropoietin and prior bleeding enhances the sensitivity of the peripheral blood micronucleus assay. Mutagenesis, 2011, 26, 331-338.	2.6	5
97	The intervention of tert-butylhydroquinone protects ethanol-induced gastric ulcer in type II diabetic rats: the role of Nrf2 pathway. Canadian Journal of Physiology and Pharmacology, 2021, 99, 522-535.	1.4	5
98	THU-074-Anti-fibrotic effect of dimethyl fumarate on rat liver fibrosis induced by thioacetamide: Role of NF-kappa B, NLRP3, Nrf2 and autophagy. Journal of Hepatology, 2019, 70, e191-e192.	3.7	4
99	Intervention of 3-aminobenzamide against Dextran Sulphate Sodium induced colitis in mice: Investigations on molecular mechanisms. European Journal of Pharmacology, 2022, 920, 174861.	3.5	4
100	Butyrate, a Short-Chain Fatty Acid and Histone Deacetylases Inhibitor: Nutritional, Physiological, and Pharmacological Aspects in Diabetes. , 2017, , 1-15.		3
101	Good Laboratory Practice (GLP) Requirements for Preclinical Animal Studies. , 2021, , 655-677.		2
102	Butyrate, a Short-Chain Fatty Acid and Histone Deacetylases Inhibitor: Nutritional, Physiological, and Pharmacological Aspects in Diabetes. , 2019, , 793-807.		1
103	Dietary Zinc Deficiency Increases Bisphenol A Toxicity in Diabetic Rat: Studies on the Testicular and Epididymal Pathophysiology. FASEB Journal, 2022, 36, .	0.5	1
104	Inhibition of central insulin-receptor signaling by S961 causes hyperglycemia and glucose intolerance in rats. Nature Precedings, 2011, , .	0.1	0