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List of Publications by Year in descending order

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54
papers

1,094
citations

516710

16
h-index

414414

32
g-index

56
all docs

56
docs citations

56
times ranked

2051
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental models of non-alcoholic fatty liver disease in rats. <i>World Journal of Gastroenterology</i> , 2014, 20, 8364.	3.3	149
2	Determination of reduced and oxidized glutathione in biological samples using liquid chromatography with fluorimetric detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1382-1387.	2.8	126
3	The Effect of <i>tert</i> -Butyl Hydroperoxide-Induced Oxidative Stress on Lean and Steatotic Rat Hepatocytes <i>In Vitro</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-12.	4.0	100
4	Metformin prevents ischemia reperfusion-induced oxidative stress in the fatty liver by attenuation of reactive oxygen species formation. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, G100-G111.	3.4	86
5	The toxic effect of thioacetamide on rat liver <i>in vitro</i> . <i>Toxicology in Vitro</i> , 2010, 24, 2097-2103.	2.4	70
6	<i>In Vitro</i> Toxicity of Epigallocatechin Gallate in Rat Liver Mitochondria and Hepatocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-10.	4.0	50
7	Chronic Anthracycline Cardiotoxicity: Molecular and Functional Analysis with Focus on Nuclear Factor Erythroid 2-Related Factor 2 and Mitochondrial Biogenesis Pathways. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 343, 468-478.	2.5	48
8	Susceptibility of rat non-alcoholic fatty liver to the acute toxic effect of acetaminophen. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2012, 27, 323-330.	2.8	31
9	Cholestatic effect of epigallocatechin gallate in rats is mediated via decreased expression of Mrp2. <i>Toxicology</i> , 2013, 303, 9-15.	4.2	27
10	Assessment of reduced glutathione: Comparison of an optimized fluorometric assay with enzymatic recycling method. <i>Analytical Biochemistry</i> , 2012, 423, 236-240.	2.4	26
11	[(<i>p</i> -MeC ₆ H ₄ Pr) ₂ Ru ₂ (SC ₆ H ₄ - <i>p</i> -Bu) ₃]Cl (diruthenium-1), a dinuclear arene ruthenium compound with very high anticancer activity: An <i>in Vitro</i> and <i>in Vivo</i> study. <i>Journal of Organometallic Chemistry</i> , 2015, 782, 42-51.	1.8	25
12	Dose-dependent regulation of mitochondrial function and cell death pathway by sorafenib in liver cancer cells. <i>Biochemical Pharmacology</i> , 2020, 176, 113902.	4.4	22
13	Time-course of hormonal induction of mitochondrial glycerophosphate dehydrogenase biogenesis in rat liver. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1726, 217-223.	2.4	21
14	Acetaminophen toxicity in rat and mouse hepatocytes <i>in vitro</i> . <i>Drug and Chemical Toxicology</i> , 2017, 40, 448-456.	2.3	21
15	Characterization of calcium, phosphate and peroxide interactions in activation of mitochondrial swelling using derivative of the swelling curves. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 309-315.	2.3	17
16	Protective effect of S-adenosylmethionine on cellular and mitochondrial membranes of rat hepatocytes against <i>tert</i> -butylhydroperoxide-induced injury in primary culture. <i>Chemico-Biological Interactions</i> , 2005, 156, 13-23.	4.0	16
17	Standardisation of Parameters during Endovenous Laser Therapy of Truncal Varicose Veins - Experimental Ex-vivo Study. <i>European Journal of Vascular and Endovascular Surgery</i> , 2007, 34, 224-228.	1.5	16
18	Mechanisms participating in oxidative damage of isolated rat hepatocytes. <i>Archives of Toxicology</i> , 2009, 83, 363-372.	4.2	16

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19	Proteomic analysis to display the effect of low doses of erythropoietin on rat liver regeneration. <i>Life Sciences</i> , 2011, 89, 827-833.	4.3	16
20	Is rat liver affected by non-alcoholic steatosis more susceptible to the acute toxic effect of thioacetamide?. <i>International Journal of Experimental Pathology</i> , 2011, 92, 281-289.	1.3	16
21	Tissue Specific Sensitivity of Mitochondrial Permeability Transition Pore to Ca ²⁺ Ions. <i>Acta Medica (Hradec Kralove)</i> , 2009, 52, 69-72.	0.5	15
22	PUFA n-3 lipid emulsion â€” A promising agent in ARDS treatment. <i>Nutrition</i> , 1997, 13, 232-233.	2.4	12
23	MODULATORY EFFECT OF CYCLOSPORIN A ON TERT-BUTYL HYDROPEROXIDE-INDUCED OXIDATIVE DAMAGE IN HEPATOCYTES. <i>Immunopharmacology and Immunotoxicology</i> , 2001, 23, 43-54.	2.4	12
24	The role of time-lapse fluorescent microscopy in the characterization of toxic effects in cell populations cultivated in vitro. <i>Toxicology in Vitro</i> , 2008, 22, 1382-1386.	2.4	12
25	Western Diet Decreases the Liver Mitochondrial Oxidative Flux of Succinate: Insight from a Murine NAFLD Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6908.	4.1	12
26	ANTIOXIDATIVE EFFECT OF EPIGALLOCATECHIN GALLATE AGAINST D-GALACTOSAMINE-INDUCED INJURY IN PRIMARY CULTURE OF RAT HEPATOCYTES. <i>Acta Medica (Hradec Kralove)</i> , 2014, 57, 3-8.	0.5	12
27	S-Adenosylmethionine Exerts a Protective Effect against Thioacetamide-induced Injury in Primary Cultures of Rat Hepatocytes. <i>ATLA Alternatives To Laboratory Animals</i> , 2007, 35, 363-371.	1.0	11
28	Evaluation of Mitochondrial Function in Isolated Rat Hepatocytes and Mitochondria during Oxidative Stress. <i>ATLA Alternatives To Laboratory Animals</i> , 2007, 35, 353-361.	1.0	10
29	Up-regulation of renal Mdr1 and Mrp2 transporters during amiodarone pretreatment in rats. <i>Pharmacological Research</i> , 2010, 61, 129-135.	7.1	10
30	Does Simple Steatosis Affect Liver Regeneration after Partial Hepatectomy in Rats?. <i>Acta Medica (Hradec Kralove)</i> , 2016, 59, 35-42.	0.5	10
31	Effects of Epigallocatechin Gallate on Tert-Butyl Hydroperoxide-Induced Mitochondrial Dysfunction in Rat Liver Mitochondria and Hepatocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-8.	4.0	7
32	Impaired mitochondrial functions contribute to 3-bromopyruvate toxicity in primary rat and mouse hepatocytes. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 363-373.	2.3	7
33	Adaptation of Mitochondrial Substrate Flux in a Mouse Model of Nonalcoholic Fatty Liver Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1101.	4.1	7
34	Studying Liver Regeneration by Means of Molecular Biology: How Far We Are in Interpreting the Findings?. <i>Acta Medica (Hradec Kralove)</i> , 2009, 52, 91-99.	0.5	7
35	In vitro cytotoxicity testing of metal alloys used in medicine: Comparison of different approaches. <i>Toxicology in Vitro</i> , 1994, 8, 783-785.	2.4	6
36	Epigallocatechin Gallate Does Not Accelerate the Early Phase of Liver Regeneration After Partial Hepatectomy in Rats. <i>Digestive Diseases and Sciences</i> , 2014, 59, 976-985.	2.3	6

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37	Comparison of two anti-diabetic monoestolides regarding effects on intact murine liver tissue. Archives of Physiology and Biochemistry, 2020, , 1-8.	2.1	6
38	Effect of S-adenosylmethionine on Acetaminophen-induced Toxic Injury of Rat Hepatocytes in vitro. Acta Veterinaria Brno, 2009, 78, 603-613.	0.5	5
39	The effect of epigallocatechin gallate on hepatocytes isolated from normal and partially hepatectomized rats. Canadian Journal of Physiology and Pharmacology, 2014, 92, 512-517.	1.4	5
40	Serum levels of selected liver proteins following partial hepatectomy in the female rat. Laboratory Animals, 1995, 29, 185-191.	1.0	4
41	Deteriorating effect of fluvastatin on the cholestatic liver injury induced by bile duct ligation in rats. General Physiology and Biophysics, 2011, 30, 66-74.	0.9	4
42	Determination of glutathione and glutathione disulfide in human whole blood using HPLC with coulometric detection: A comparison with fluorescence detection. Collection of Czechoslovak Chemical Communications, 2011, 76, 277-294.	1.0	4
43	The Connection between MicroRNAs from Visceral Adipose Tissue and Non-Alcoholic Fatty Liver Disease. Acta Medica (Hradec Kralove), 2021, 64, 1-7.	0.5	3
44	Alternatives to Experiments with Animals in Medical Education: A TEMPUS Joint European Project. , 0, , 119-123.		2
45	Structural changes in the liver parenchyma of rats during long-term feeding on diets differing in protein content. Bulletin of Experimental Biology and Medicine, 1986, 101, 607-610.	0.8	1
46	Effect of glucagon-like peptide-1 analogue liraglutide on primary cultures of rat hepatocytes isolated from lean and steatotic livers. General Physiology and Biophysics, 2019, 38, 343-352.	0.9	1
47	Measuring Mitochondrial Substrate Flux in Recombinant Perfringolysin O-Permeabilized Cells. Journal of Visualized Experiments, 2021, , .	0.3	1
48	Effect of S-adenosylmethionine on liver regeneration induced by partial hepatectomy. General Physiology and Biophysics, 2010, 29, 72-78.	0.9	1
49	Effect of S-adenosylmethionine on liver regeneration induced by partial hepatectomy. General Physiology and Biophysics, 2010, 29, 72-8.	0.9	1
50	Effect of dietary protein content on liver morphology in acute galactosamine poisoning. Bulletin of Experimental Biology and Medicine, 1988, 105, 127-129.	0.8	0
51	Effect of a low protein diet on restoration of the rat liver parenchyma after carbon tetrachloride poisoning. Bulletin of Experimental Biology and Medicine, 1988, 105, 397-400.	0.8	0
52	Our Experiences with Development of Digitised Video Streams and Their Use in Animal-free Medical Education. ATLA Alternatives To Laboratory Animals, 2004, 32, 521-523.	1.0	0
53	Induction of uncoupling protein-2 mRNA by triiodothyronine in rat liver. Acta Veterinaria Brno, 2012, 81, 75-81.	0.5	0
54	Liver response to indomethacin-induced intestinal injury. Acta Medica (Hradec Kralove), 2002, 45, 13-8.	0.5	0