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List of Publications by Year
in descending order

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58 papers	4,252 citations	159585 30 h-index	144013 57 g-index
61 all docs	61 docs citations	61 times ranked	6198 citing authors

#	Article	IF	Citations
1	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. Archives of Toxicology, 2013, 87, 1315-1530.	4.2	1,089
2	Multilineage communication regulates human liver bud development from pluripotency. Nature, 2017, 546, 533-538.	27.8	458
3	Hepatocyte pyroptosis and release of inflammasome particles induce stellate cell activation and liver fibrosis. Journal of Hepatology, 2021, 74, 156-167.	3.7	264
4	Gene networks and transcription factor motifs defining the differentiation of stem cells into hepatocyte-like cells. Journal of Hepatology, 2015, 63, 934-942.	3.7	165
5	Cell sources forinÂvitrohuman liver cell culture models. Experimental Biology and Medicine, 2016, 241, 1684-1698.	2.4	156
6	Toxicogenomics directory of chemically exposed human hepatocytes. Archives of Toxicology, 2014, 88, 2261-2287.	4.2	143
7	Manufactured nanomaterials: categorization and approaches to hazard assessment. Archives of Toxicology, 2014, 88, 2191-2211.	4.2	120
8	Hepatic 3D cultures but not 2D cultures preserve specific transporter activity for acetaminophen-induced hepatotoxicity. Archives of Toxicology, 2013, 87, 1581-1593.	4.2	102
9	Gene network activity in cultivated primary hepatocytes is highly similar to diseased mammalian liver tissue. Archives of Toxicology, 2016, 90, 2513-2529.	4.2	100
10	Direct Transcriptional Regulation of Human Hepatic Cytochrome P450 3A4 (CYP3A4) by Peroxisome Proliferatorâ€“Activated Receptor Alpha (PPARÎ±). Molecular Pharmacology, 2013, 83, 709-718.	2.3	88
11	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. Archives of Toxicology, 2019, 93, 1609-1637.	4.2	86
12	Featured Article: Isolation, characterization, and cultivation of human hepatocytes and non-parenchymal liver cells. Experimental Biology and Medicine, 2015, 240, 645-656.	2.4	82
13	A Systematic Comparison of the Impact of Inflammatory Signaling on Absorption, Distribution, Metabolism, and Excretion Gene Expression and Activity in Primary Human Hepatocytes and HepaRG Cells. Drug Metabolism and Disposition, 2015, 43, 273-283.	3.3	80
14	Involvement of sphingosine 1-phosphate in palmitate-induced insulin resistance of hepatocytes via the S1P2 receptor subtype. Diabetologia, 2014, 57, 373-382.	6.3	79
15	Genomewide comparison of the inducible transcriptomes of nuclear receptors CAR, PXR and PPARÎ± in primary human hepatocytes. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 1218-1227.	1.9	67
16	High exposure to inorganic arsenic by food: the need for risk reduction. Archives of Toxicology, 2015, 89, 2219-2227.	4.2	65
17	Epigenomic map of human liver reveals principles of zonated morphogenic and metabolic control. Nature Communications, 2018, 9, 4150.	12.8	65
18	Unbiased RNAi screen for hepcidin regulators links hepcidin suppression to proliferative Ras/RAF and nutrient-dependent mTOR signaling. Blood, 2014, 123, 1574-1585.	1.4	62

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19	Induction of active demethylation and 5hmC formation by 5-azacytidine is TET2 dependent and suggests new treatment strategies against hepatocellular carcinoma. Clinical Epigenetics, 2015, 7, 98.	4.1	55
20	Resolving the Combinatorial Complexity of Smad Protein Complex Formation and Its Link to Gene Expression. Cell Systems, 2018, 6, 75-89.e11.	6.2	55
21	Aromatic hydroxylation is a major metabolic pathway of the mycotoxin zearalenone in vitro. Molecular Nutrition and Food Research, 2009, 53, 1123-1133.	3.3	54
22	3D Cultivation Techniques for Primary Human Hepatocytes. Microarrays (Basel, Switzerland), 2015, 4, 64-83.	1.4	46
23	Protocol for Isolation of Primary Human Hepatocytes and Corresponding Major Populations of Non-parenchymal Liver Cells. Journal of Visualized Experiments, 2016, , e53069.	0.3	46
24	Bile canaliculi formation and biliary transport in 3D sandwich-cultured hepatocytes in dependence of the extracellular matrix composition. Archives of Toxicology, 2016, 90, 2497-2511.	4.2	46
25	Hepatic Differentiation of Human Induced Pluripotent Stem Cells in a Perfused Three-Dimensional Multicompartment Bioreactor. BioResearch Open Access, 2016, 5, 235-248.	2.6	43
26	Disentangling molecular mechanisms regulating sensitization of interferon alpha signal transduction. Molecular Systems Biology, 2020, 16, e8955.	7.2	41
27	Hemolysis after Oral Artemisinin Combination Therapy for UncomplicatedPlasmodium falciparumMalaria. Emerging Infectious Diseases, 2016, 22, 1381-1386.	4.3	39
28	Hepatic differentiation of human iPSCs in different 3D models: A comparative study. International Journal of Molecular Medicine, 2017, 40, 1759-1771.	4.0	39
29	Critical evaluation of human health risks due to hydraulic fracturing in natural gas and petroleum production. Archives of Toxicology, 2020, 94, 967-1016.	4.2	36
30	Resveratrol Differentially Regulates NAMPT and SIRT1 in Hepatocarcinoma Cells and Primary Human Hepatocytes. PLoS ONE, 2014, 9, e91045.	2.5	33
31	Decrease of Global Methylation Improves Significantly Hepatic Differentiation of Ad-MSCs: Possible Future Application for Urea Detoxification. Cell Transplantation, 2013, 22, 119-131.	2.5	32
32	Metabolism of remimazolam in primary human hepatocytes during continuous long-term infusion in a 3-D bioreactor system . Drug Design, Development and Therapy, 2019, Volume 13, 1033-1047.	4.3	30
33	Subtoxic Concentrations of Hepatotoxic Drugs Lead to Kupffer Cell Activation in a HumanIn VitroLiver Model: An Approach to Study DILI. Mediators of Inflammation, 2015, 2015, 1-14.	3.0	29
34	Human parenchymal and non-parenchymal liver cell isolation, culture and characterization. Hepatology International, 2013, 7, 951-958.	4.2	28
35	Primaryâ€like human hepatocytes genetically engineered to obtain proliferation competence display hepatic differentiation characteristics in monolayer and organotypical spheroid cultures. Cell Biology International, 2016, 40, 341-353.	3.0	24
36	Imatinib and spironolactone suppress hepcidin expression. Haematologica, 2017, 102, 1173-1184.	3.5	23

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37	Epigenetic Modifications of the Liver Tumor Cell Line HepG2 Increase Their Drug Metabolic Capacity. International Journal of Molecular Sciences, 2019, 20, 347.	4.1	23
38	Epigenomic and transcriptional profiling identifies impaired glyoxylate detoxification in NAFLD as a risk factor for hyperoxaluria. Cell Reports, 2021, 36, 109526.	6.4	22
39	Diploid hepatocytes drive physiological liver renewal in adult humans. Cell Systems, 2022, 13, 499-507.e12.	6.2	22
40	A unifying mathematical model of lipid droplet metabolism reveals key molecular players in the development of hepatic steatosis. FEBS Journal, 2017, 284, 3245-3261.	4.7	21
41	In Vitro Model for Hepatotoxicity Studies Based on Primary Human Hepatocyte Cultivation in a Perfused 3D Bioreactor System. International Journal of Molecular Sciences, 2016, 17, 584.	4.1	19
42	Model Based Targeting of IL-6-Induced Inflammatory Responses in Cultured Primary Hepatocytes to Improve Application of the JAK Inhibitor Ruxolitinib. Frontiers in Physiology, 2017, 8, 775.	2.8	19
43	Context-specific flow through the MEK/ERK module produces cell- and ligand-specific patterns of ERK single and double phosphorylation. Science Signaling, 2016, 9, ra13.	3.6	18
44	Microscale 3D Liver Bioreactor for In Vitro Hepatotoxicity Testing under Perfusion Conditions. Bioengineering, 2018, 5, 24.	3.5	17
45	Prolonged Lipid Accumulation in Cultured Primary Human Hepatocytes Rather Leads to ER Stress than Oxidative Stress. International Journal of Molecular Sciences, 2020, 21, 7097.	4.1	17
46	Mutual Zonated Interactions of Wnt and Hh Signaling Are Orchestrating the Metabolism of the Adult Liver in Mice and Human. Cell Reports, 2019, 29, 4553-4567.e7.	6.4	15
47	Real-time in situ viability assessment in a 3D bioreactor with liver cells using resazurin assay. Cytotechnology, 2013, 65, 297-305.	1.6	14
48	HepaChip-MP â€“ a twenty-four chamber microplate for a continuously perfused liver coculture model. Lab on A Chip, 2020, 20, 2911-2926.	6.0	12
49	Influence of Genistein on Hepatic Lipid Metabolism in an In Vitro Model of Hepatic Steatosis. Molecules, 2021, 26, 1156.	3.8	12
50	The Cellâ€Surface Nâ€Glycome of Human Embryonic Stem Cells and Differentiated Hepatic Cells thereof. ChemBioChem, 2017, 18, 1234-1241.	2.6	9
51	Effect of glucose and insulin supplementation on the isolation of primary human hepatocytes. EXCLI Journal, 2019, 18, 1071-1091.	0.7	9
52	Combination of LC-MS² and GC-MS as a Tool to Differentiate Oxidative Metabolites of Zearalenone with Different Chemical Structures. International Journal of Spectroscopy, 2012, 2012, 1-10.	1.6	6
53	Long-term simulation of lead concentrations in agricultural soils in relation to human adverse health effects. Archives of Toxicology, 2020, 94, 2319-2329.	4.2	6
54	Identification of Interleukin1Î² as an Amplifier of Interferon alpha-induced Antiviral Responses. PLoS Pathogens, 2020, 16, e1008461.	4.7	5

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55	Global Transcriptional Response of Human Liver Cells to Ethanol Stress of Different Strength Reveals Hormetic Behavior. Alcoholism: Clinical and Experimental Research, 2017, 41, 883-894.	2.4	4
56	In vitromammalian metabolism of the mitosis inhibitor zoxamide and the relationship to itsin vitrotoxicity. Xenobiotica, 2010, 40, 72-82.	1.1	3
57	The right choice of antihypertensives protects primary human hepatocytes from ethanol- and recombinant human TGF-β1-induced cellular damage. Hepatic Medicine: Evidence and Research, 2013, 5, 31.	2.5	2
58	In Vivo and In Vitro Characterization of Primary Human Liver Macrophages and Their Inflammatory State. Biomedicines, 2021, 9, 406.	3.2	1