Jose V Castell

List of Publications by Citations

256 papers	12,282 citations	57 h-index	99 g-index
271 ext. papers	13,424 ext. citations	4.4 avg, IF	5.96 L-index

#	Paper	IF	Citations
256	Interleukin-6 is the major regulator of acute phase protein synthesis in adult human hepatocytes. *FEBS Letters*, **1989**, 242, 237-9	3.8	608
255	Acute-phase response of human hepatocytes: regulation of acute-phase protein synthesis by interleukin-6. *Hepatology*, **1990**, 12, 1179-86	11.2	581
254	A human hepatocellular in vitro model to investigate steatosis. *Chemico-Biological Interactions*, **2007**, 165, 106-16	5	333
253	Recombinant human interleukin-6 (IL-6/BSF-2/HSF) regulates the synthesis of acute phase proteins in human hepatocytes. *FEBS Letters*, **1988**, 232, 347-50	3.8	331
252	Cytochrome P450 expression in human hepatocytes and hepatoma cell lines: molecular mechanisms that determine lower expression in cultured cells. *Xenobiotica*, **2002**, 32, 505-20	2	304
251	A microassay for measuring cytochrome P450IA1 and P450IIB1 activities in intact human and rat hepatocytes cultured on 96-well plates. *Analytical Biochemistry*, **1993**, 213, 29-33	3.1	283
250	Dichloro-dihydro-fluorescein diacetate (DCFH-DA) assay: a quantitative method for oxidative stress assessment of nanoparticle-treated cells. *Toxicology in Vitro*, **2013**, 27, 954-63	3.6	256
249	Plasma clearance, organ distribution and target cells of interleukin-6/hepatocyte-stimulating factor in the rat. *FEBS Journal*, **1988**, 177, 357-61		225
248	Human hepatocytes in primary culture: the choice to investigate drug metabolism in man. *Current Drug Metabolism*, **2004**, 5, 443-62	3.5	202
247	Hepatic metabolism of diclofenac: role of human CYP in the minor oxidative pathways. *Biochemical Pharmacology*, **1999**, 58, 787-96	6	188
246	Human hepatocytes as a tool for studying toxicity and drug metabolism. *Current Drug Metabolism*, **2003**, 4, 292-312	3.5	187
245	Fluorescence-based assays for screening nine cytochrome P450 (P450) activities in intact cells expressing individual human P450 enzymes. *Drug Metabolism and Disposition*, **2004**, 32, 699-706	4	181
244	Metabolism and bioactivation of toxicants in the lung. The in vitro cellular approach. *Experimental and Toxicologic Pathology*, **2005**, 57 Suppl 1, 189-204		175
243	Targeted profiling of circulating and hepatic bile acids in human, mouse, and rat using a UPLC-MRM-MS-validated method. *Journal of Lipid Research*, **2012**, 53, 2231-2241	6.3	171
242	Cytochrome P450 regulation by hepatocyte nuclear factor 4 in human hepatocytes: a study using adenovirus-mediated antisense targeting. *Hepatology*, **2001**, 33, 668-75	11.2	158
241	Down-regulation of human CYP3A4 by the inflammatory signal interleukin-6: molecular mechanism and transcription factors involved. *FASEB Journal*, **2002**, 16, 1799-801	0.9	158
240	Hepatocyte cell lines: their use, scope and limitations in drug metabolism studies. *Expert Opinion on Drug Metabolism and Toxicology*, **2006**, 2, 183-212	5.5	153

239	Hepatic cytochrome P450 down-regulation during aseptic inflammation in the mouse is interleukin 6 dependent. *Hepatology*, **2000**, 32, 49-55	11.2	140
238	Diclofenac induces apoptosis in hepatocytes by alteration of mitochondrial function and generation of ROS. *Biochemical Pharmacology*, **2003**, 66, 2155-67	6	132
237	A convenient micromethod for the assay of primary amines and proteins with fluorescamine. A reexamination of the conditions of reaction. *Analytical Biochemistry*, **1979**, 99, 379-91	3.1	117
236	Cytochrome P-450 mRNA expression in human liver and its relationship with enzyme activity. *Archives of Biochemistry and Biophysics*, **2001**, 393, 308-15	4.1	113
235	Hepatocytes--the choice to investigate drug metabolism and toxicity in man: in vitro variability as a reflection of in vivo. *Chemico-Biological Interactions*, **2007**, 168, 30-50	5	112
234	Interleukin-6. *Annals of the New York Academy of Sciences*, **2008**, 557, 87-101	6.5	108
233	Transcriptional regulation and expression of CYP3A4 in hepatocytes. *Current Drug Metabolism*, **2007**, 8, 185-94	3.5	106
232	Long-term expression of differentiated functions in hepatocytes cultured in three-dimensional collagen matrix. *Journal of Cellular Physiology*, **1998**, 177, 553-62	7	105
231	Potential impact of steatosis on cytochrome P450 enzymes of human hepatocytes isolated from fatty liver grafts. *Drug Metabolism and Disposition*, **2006**, 34, 1556-62	4	105
230	Characterization of drug metabolizing activities in pig hepatocytes for use in bioartificial liver devices: comparison with other hepatic cellular models. *Journal of Hepatology*, **1999**, 31, 542-9	13.4	102
229	Re-expression of C/EBP alpha induces CYP2B6, CYP2C9 and CYP2D6 genes in HepG2 cells. *FEBS Letters*, **1998**, 431, 227-30	3.8	98
228	Strategies and molecular probes to investigate the role of cytochrome P450 in drug metabolism: focus on in vitro studies. *Clinical Pharmacokinetics*, **2003**, 42, 153-78	6.2	97
227	A comprehensive untargeted metabonomic analysis of human steatotic liver tissue by RP and HILIC chromatography coupled to mass spectrometry reveals important metabolic alterations. *Journal of Proteome Research*, **2011**, 10, 4825-34	5.6	93
226	Development of a multiparametric cell-based protocol to screen and classify the hepatotoxicity potential of drugs. *Toxicological Sciences*, **2012**, 127, 187-98	4.4	93
225	Transcriptional regulation of human CYP3A4 basal expression by CCAAT enhancer-binding protein alpha and hepatocyte nuclear factor-3 gamma. *Molecular Pharmacology*, **2003**, 63, 1180-9	4.3	89
224	Quantitative RT-PCR measurement of human cytochrome P-450s: application to drug induction studies. *Archives of Biochemistry and Biophysics*, **2000**, 376, 109-16	4.1	89
223	The triplet energy of thymine in DNA. *Journal of the American Chemical Society*, **2006**, 128, 6318-9	16.4	86
222	A score model for the continuous grading of early allograft dysfunction severity. *Liver Transplantation*, **2015**, 21, 38-46	4.5	85

221	Human mesenchymal stem cells from adipose tissue: Differentiation into hepatic lineage. *Toxicology in Vitro*, **2007**, 21, 324-9	3.6	82
220	Biochemical functionality and recovery of hepatocytes after deep freezing storage. *In Vitro*, **1984**, 20, 826-32		77
219	Sensitive markers used to identify compounds that trigger apoptosis in cultured hepatocytes. *Toxicological Sciences*, **2002**, 65, 299-308	4.4	76
218	Coordinated induction of drug transporters and phase I and II metabolism in human liver slices. *European Journal of Pharmaceutical Sciences*, **2008**, 33, 380-9	5.1	75
217	Culture of human hepatocytes from small surgical liver biopsies. Biochemical characterization and comparison with in vivo. *In Vitro Cellular & Developmental Biology*, **1990**, 26, 67-74		75
216	Comparative studies on the cytochrome p450-associated metabolism and interaction potential of selegiline between human liver-derived in vitro systems. *Drug Metabolism and Disposition*, **2003**, 31, 1093-102	4	72
215	Photodynamic lipid peroxidation by the photosensitizing nonsteroidal antiinflammatory drugs suprofen and tiaprofenic acid. *Photochemistry and Photobiology*, **1994**, 59, 35-9	3.6	72
214	Evaluation of the cytotoxicity of ten chemicals on human cultured hepatocytes: Predictability of human toxicity and comparison with rodent cell culture systems. *Toxicology in Vitro*, **1992**, 6, 47-52	3.6	69
213	Photolytic degradation of ibuprofen. Toxicity of the isolated photoproducts on fibroblasts and erythrocytes. *Photochemistry and Photobiology*, **1987**, 46, 991-6	3.6	69
212	Enhanced steatosis by nuclear receptor ligands: a study in cultured human hepatocytes and hepatoma cells with a characterized nuclear receptor expression profile. *Chemico-Biological Interactions*, **2010**, 184, 376-87	5	65
211	Triplet excited fluoroquinolones as mediators for thymine cyclobutane dimer formation in DNA. *Journal of Physical Chemistry B*, **2007**, 111, 7409-14	3.4	63
210	The human liver fatty acid binding protein (FABP1) gene is activated by FOXA1 and PPARα and repressed by C/EBPα Implications in FABP1 down-regulation in nonalcoholic fatty liver disease. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2013**, 1831, 803-18	5	60
209	Cytometric analysis for drug-induced steatosis in HepG2 cells. *Chemico-Biological Interactions*, **2009**, 181, 417-23	5	59
208	An update on metabolism studies using human hepatocytes in primary culture. *Expert Opinion on Drug Metabolism and Toxicology*, **2008**, 4, 837-54	5.5	59
207	Transcriptional activation of CYP2C9, CYP1A1, and CYP1A2 by hepatocyte nuclear factor 4alpha requires coactivators peroxisomal proliferator activated receptor-gamma coactivator 1alpha and steroid receptor coactivator 1. *Molecular Pharmacology*, **2006**, 70, 1681-92	4.3	59
206	The second ECVAM workshop on phototoxicity testing. The report and recommendations of ECVAM workshop 42. *ATLA Alternatives To Laboratory Animals*, **2000**, 28, 777-814	2.1	59
205	A microassay for measuring glycogen in 96-well-cultured cells. *Analytical Biochemistry*, **1996**, 236, 296-301	3.1	58
204	HepG2 cells simultaneously expressing five P450 enzymes for the screening of hepatotoxicity: identification of bioactivable drugs and the potential mechanism of toxicity involved. *Archives of Toxicology*, **2013**, 87, 1115-27	5.8	57

203	Clinical outcome of hepatocyte transplantation in four pediatric patients with inherited metabolic diseases. *Cell Transplantation*, **2012**, 21, 2267-82	4	57
202	Polypodium leucotomos extract: antioxidant activity and disposition. *Toxicology in Vitro*, **2006**, 20, 464-71	3.6	57
201	Expression and induction of a large set of drug-metabolizing enzymes by the highly differentiated human hepatoma cell line BC2. *FEBS Journal*, **2001**, 268, 1448-59		57
200	Fate and biological action of human recombinant interleukin 1 beta in the rat in vivo. *European Journal of Immunology*, **1989**, 19, 1485-90	6.1	57
199	The application of in vitro data in the derivation of the acceptable daily intake of food additives. *Food and Chemical Toxicology*, **1999**, 37, 1175-97	4.7	56
198	Towards an alternative testing strategy for nanomaterials used in nanomedicine: lessons from NanoTEST. *Nanotoxicology*, **2015**, 9 Suppl 1, 118-32	5.3	55
197	Human embryonic stem cell derived hepatocyte-like cells as a tool for in vitro hazard assessment of chemical carcinogenicity. *Toxicological Sciences*, **2011**, 124, 278-90	4.4	55
196	Validated assay for studying activity profiles of human liver UGTs after drug exposure: inhibition and induction studies. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2251-63	4.4	55
195	Transcriptional regulation of the human hepatic CYP3A4: identification of a new distal enhancer region responsive to CCAAT/enhancer-binding protein beta isoforms (liver activating protein and liver inhibitory protein). *Molecular Pharmacology*, **2005**, 67, 2088-101	4.3	55
194	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. *Archives of Toxicology*, **2019**, 93, 1609-1637	5.8	53
193	High-content imaging technology for the evaluation of drug-induced steatosis using a multiparametric cell-based assay. *Journal of Biomolecular Screening*, **2012**, 17, 394-400		53
192	Co-cultures of hepatocytes with epithelial-like cell lines: expression of drug-biotransformation activities by hepatocytes. *Cell Biology and Toxicology*, **1991**, 7, 1-14	7.4	53
191	Foxa1 reduces lipid accumulation in human hepatocytes and is down-regulated in nonalcoholic fatty liver. *PLoS ONE*, **2012**, 7, e30014	3.7	52
190	Diclofenac induces apoptosis in hepatocytes. *Toxicology in Vitro*, **2003**, 17, 675-80	3.6	51
189	A metabolomics cell-based approach for anticipating and investigating drug-induced liver injury. *Scientific Reports*, **2016**, 6, 27239	4.9	50
188	Metabolomics discloses donor liver biomarkers associated with early allograft dysfunction. *Journal of Hepatology*, **2014**, 61, 564-74	13.4	49
187	Transplantation of hESC-derived hepatocytes protects mice from liver injury. *Stem Cell Research and Therapy*, **2015**, 6, 246	8.3	49
186	Inhibition of human P450 enzymes by natural extracts used in traditional medicine. *Phytotherapy Research*, **2009**, 23, 279-82	6.7	49

185	Underexpressed coactivators PGC1alpha and SRC1 impair hepatocyte nuclear factor 4 alpha function and promote dedifferentiation in human hepatoma cells. *Journal of Biological Chemistry*, **2006**, 281, 29840-9	5.4	48
184	Role of hepatocyte nuclear factor 3 gamma in the expression of human CYP2C genes. *Archives of Biochemistry and Biophysics*, **2004**, 426, 63-72	4.1	48
183	O- and N-glycosylation lead to different molecular mass forms of human monocyte interleukin-6. *FEBS Letters*, **1989**, 247, 323-6	3.8	48
182	Chemometric approaches to improve PLSDA model outcome for predicting human non-alcoholic fatty liver disease using UPLC-MS as a metabolic profiling tool. *Metabolomics*, **2012**, 8, 86-98	4.7	47
181	Adenovirus-mediated gene transfer into human hepatocytes: analysis of the biochemical functionality of transduced cells. *Gene Therapy*, **1997**, 4, 455-64	4	47
180	ATF5 is a highly abundant liver-enriched transcription factor that cooperates with constitutive androstane receptor in the transactivation of CYP2B6: implications in hepatic stress responses. *Drug Metabolism and Disposition*, **2008**, 36, 1063-72	4	45
179	Functional assessment of the quality of human hepatocyte preparations for cell transplantation. *Cell Transplantation*, **2008**, 17, 1211-9	4	45
178	Effect of xenobiotics on monooxygenase activities in cultured human hepatocytes. *Biochemical Pharmacology*, **1990**, 39, 1321-6	6	45
177	Hepatocyte transplantation program: Lessons learned and future strategies. *World Journal of Gastroenterology*, **2016**, 22, 874-86	5.6	45
176	Drug metabolizing enzymes in rat hepatocytes co-cultured with cell lines. *In Vitro Cellular & Developmental Biology*, **1990**, 26, 1057-62		43
175	Induction of hepatic heme oxygenase-1 by diclofenac in rodents: role of oxidative stress and cytochrome P-450 activity. *Journal of Hepatology*, **2003**, 38, 776-83	13.4	42
174	Fate of interleukin-6 in the rat. Involvement of skin in its catabolism. *FEBS Journal*, **1990**, 189, 113-8		42
173	Non-invasive prediction of NAFLD severity: a comprehensive, independent validation of previously postulated serum microRNA biomarkers. *Scientific Reports*, **2018**, 8, 10606	4.9	41
172	Cryopreservation of rat, dog and human hepatocytes: influence of preculture and cryoprotectants on recovery, cytochrome P450 activities and induction upon thawing. *Xenobiotica*, **2006**, 36, 457-72	2	41
171	Measurement of intracellular LDH activity in 96-well cultures: A rapid and automated assay for cytotoxicity studies. *Cytotechnology*, **1991**, 13, 21-24		41
170	Transcriptomic responses generated by hepatocarcinogens in a battery of liver-based in vitro models. *Carcinogenesis*, **2013**, 34, 1393-402	4.6	40
169	Potential hepatoprotective effects of new Cuban natural products in rat hepatocytes culture. *Toxicology in Vitro*, **2008**, 22, 1242-9	3.6	40
168	Damage to mitochondria of cultured human skin fibroblasts photosensitized by fluoroquinolones. *Journal of Photochemistry and Photobiology B: Biology*, **2000**, 58, 20-5	6.7	40

167	Intracellular glutathione in human hepatocytes incubated with S-adenosyl-L-methionine and GSH-depleting drugs. *Toxicology*, **1991**, 70, 293-302	4.4	40
166	Sequential hepatogenic transdifferentiation of adipose tissue-derived stem cells: relevance of different extracellular signaling molecules, transcription factors involved, and expression of new key marker genes. *Cell Transplantation*, **2009**, 18, 1319-40	4	39
165	Effects of steatosis on drug-metabolizing capability of primary human hepatocytes. *Toxicology in Vitro*, **2007**, 21, 271-6	3.6	39
164	Drug-photosensitized protein modification: identification of the reactive sites and elucidation of the reaction mechanisms with tiaprofenic acid/albumin as model system. *Chemical Research in Toxicology*, **1998**, 11, 172-7	4	39
163	In vitro assessment of the phototoxicity of anti-inflammatory 2-arylpropionic acids. *Toxicology in Vitro*, **1991**, 5, 451-5	3.6	39
162	Semi-automatic quantitative RT-PCR to measure CYP induction by drugs in human hepatocytes. *Toxicology in Vitro*, **2003**, 17, 643-9	3.6	38
161	Human Upcyte Hepatocytes: Characterization of the Hepatic Phenotype and Evaluation for Acute and Long-Term Hepatotoxicity Routine Testing. *Toxicological Sciences*, **2016**, 152, 214-29	4.4	37
160	Neonatal livers: a source for the isolation of good-performing hepatocytes for cell transplantation. *Cell Transplantation*, **2014**, 23, 1229-42	4	36
159	Strategies to in vitro assessment of major human CYP enzyme activities by using liquid chromatography tandem mass spectrometry. *Current Drug Metabolism*, **2008**, 9, 12-9	3.5	35
158	Evaluation of the cytotoxicity of 10 chemicals in human and rat hepatocytes and in cell lines: Correlation between in vitro data and human lethal concentration. *Toxicology in Vitro*, **1995**, 9, 959-66	3.6	35
157	A fluorescamine-based sensitive method for the assay of proteinases, capable of detecting the initial cleavage steps of a protein. *FEBS Journal*, **1979**, 99, 253-9		35
156	Molecular mechanism of diclofenac hepatotoxicity: Association of cell injury with oxidative metabolism and decrease in ATP levels. *Toxicology in Vitro*, **1995**, 9, 439-44	3.6	34
155	Plasma clearance, organ distribution and target cells of interleukin-6/hepatocyte-stimulating factor in the rat. *FEBS Journal*, **1988**, 177, 351-355		34
154	Liver cell culture techniques. *Methods in Molecular Biology*, **2009**, 481, 35-46	1.4	33
153	Involvement of drug-derived peroxides in the phototoxicity of naproxen and tiaprofenic acid. *Photochemistry and Photobiology*, **1993**, 57, 486-90	3.6	33
152	Diagnosis of malignant ascites. Comparison of ascitic fibronectin, cholesterol, and serum-ascites albumin difference. *Digestive Diseases and Sciences*, **1988**, 33, 833-8	4	33
151	High-content screening of drug-induced mitochondrial impairment in hepatic cells: effects of statins. *Archives of Toxicology*, **2015**, 89, 1847-60	5.8	32
150	Overexpression of SND p102, a rat homologue of p100 coactivator, promotes the secretion of lipoprotein phospholipids in primary hepatocytes. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 698-708	5	32

149	Increased toxicity of cocaine on human hepatocytes induced by ethanol: role of GSH. *Biochemical Pharmacology*, **1999**, 58, 1579-85	6	32
148	Enantioselective Discrimination in the Intramolecular Quenching of an Excited Aromatic Ketone by a Ground-State Phenol. *Journal of the American Chemical Society*, **1999**, 121, 11569-11570	16.4	32
147	Evaluation of ketoprofen (R,S and R/S) phototoxicity by a battery of in vitro assays. *Journal of Photochemistry and Photobiology B: Biology*, **1995**, 31, 133-8	6.7	32
146	Enzyme-linked immunosorbent assay to quantify fibronectin. *Analytical Biochemistry*, **1985**, 145, 1-8	3.1	32
145	The use of hepatocytes to investigate drug toxicity. *Methods in Molecular Biology*, **2010**, 640, 389-415	1.4	32
144	Upgrading cytochrome P450 activity in HepG2 cells co-transfected with adenoviral vectors for drug hepatotoxicity assessment. *Toxicology in Vitro*, **2012**, 26, 1272-7	3.6	31
143	Functional characterization of hepatocytes for cell transplantation: customized cell preparation for each receptor. *Cell Transplantation*, **2010**, 19, 21-8	4	29
142	Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. *Biotechnology and Applied Biochemistry*, **2005**, 42, 35-9	2.8	29
141	Extending metabolome coverage for untargeted metabolite profiling of adherent cultured hepatic cells. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 1217-30	4.4	28
140	In vitro ADME medium/high-throughput screening in drug preclinical development. *Mini-Reviews in Medicinal Chemistry*, **2006**, 6, 1053-62	3.2	28
139	Human hepatic cell cultures: in vitro and in vivo drug metabolism. *ATLA Alternatives To Laboratory Animals*, **2003**, 31, 257-65	2.1	28
138	Functionality of cultured human hepatocytes from elective samples, cadaveric grafts and hepatectomies. *Toxicology in Vitro*, **2003**, 17, 769-74	3.6	28
137	New microRNA Biomarkers for Drug-Induced Steatosis and Their Potential to Predict the Contribution of Drugs to Non-alcoholic Fatty Liver Disease. *Frontiers in Pharmacology*, **2017**, 8, 3	5.6	27
136	CCAAT/enhancer-binding protein alpha (C/EBPalpha) and hepatocyte nuclear factor 4alpha (HNF4alpha) synergistically cooperate with constitutive androstane receptor to transactivate the human cytochrome P450 2B6 (CYP2B6) gene: application to the development of a metabolically competent human hepatic cell model. *Journal of Biological Chemistry*, **2010**, 285, 28457-71	5.4	27
135	The use of cultured hepatocytes to investigate the mechanisms of drug hepatotoxicity. *Cell Biology and Toxicology*, **1997**, 13, 331-8	7.4	27
134	Development of an expert system rulebase for the prospective identification of photoallergens. *Journal of Photochemistry and Photobiology B: Biology*, **2000**, 58, 54-61	6.7	27
133	New cytostatic agents obtained by molecular topology. *Bioorganic and Medicinal Chemistry Letters*, **1996**, 6, 2301-2306	2.9	27
132	Potentiation of cocaine hepatotoxicity by ethanol in human hepatocytes. *Toxicology and Applied Pharmacology*, **1991**, 107, 526-34	4.6	27

131	Mechanism-based selection of compounds for the development of innovative in vitro approaches to hepatotoxicity studies in the LIINTOP project. *Toxicology in Vitro*, **2010**, 24, 1879-89	3.6	26
130	Determination of major human cytochrome P450s activities in 96-well plates using liquid chromatography tandem mass spectrometry. *Toxicology in Vitro*, **2007**, 21, 1247-52	3.6	26
129	Allergic hepatitis induced by drugs. *Current Opinion in Allergy and Clinical Immunology*, **2006**, 6, 258-65	3.3	26
128	Acute cytotoxicity of ten chemicals in human and rat cultured hepatocytes and in cell lines: Correlation between in vitro data and human lethal concentrations. *Toxicology in Vitro*, **1994**, 8, 47-54	3.6	26
127	The Removal of S-Cysteine Protection by Means of 2-Pyridine Sulfenyl Chloride and the Subsequent Formation of Disulfide Bonds. Preliminary communication. *Helvetica Chimica Acta*, **1979**, 62, 2507-2510	2	26
126	A simple transcriptomic signature able to predict drug-induced hepatic steatosis. *Archives of Toxicology*, **2014**, 88, 967-82	5.8	25
125	LC-MS untargeted metabolomic analysis of drug-induced hepatotoxicity in HepG2 cells. *Electrophoresis*, **2015**, 36, 2294-2302	3.6	25
124	The immunosuppressant drug FK506 prevents Fas-induced apoptosis in human hepatocytes. *Biochemical Pharmacology*, **2004**, 68, 2427-33	6	25
123	Cocaine hepatotoxicity: two different toxicity mechanisms for phenobarbital-induced and non-induced rat hepatocytes. *Biochemical Pharmacology*, **1993**, 46, 1967-74	6	25
122	Metabolite formation kinetics and intrinsic clearance of phenacetin, tolbutamide, alprazolam, and midazolam in adenoviral cytochrome P450-transfected HepG2 cells and comparison with hepatocytes and in vivo. *Drug Metabolism and Disposition*, **2010**, 38, 1449-55	4	24
121	Modulation of P450 enzymes by Cuban natural products rich in polyphenolic compounds in rat hepatocytes. *Chemico-Biological Interactions*, **2008**, 172, 1-10	5	24
120	Evaluation of drug-metabolizing and functional competence of human hepatocytes incubated under hypothermia in different media for clinical infusion. *Cell Transplantation*, **2008**, 17, 887-97	4	24
119	Use of molecular topology in the selection of new cytostatic drugs. *Computational and Theoretical Chemistry*, **2000**, 504, 241-248		24
118	In vitro photoperoxidation as an indicator of the potential phototoxicity of non-steroidal anti-inflammatory 2-arylpropionic acids. *Toxicology in Vitro*, **1993**, 7, 523-6	3.6	24
117	Drug biotransformation by human hepatocytes. In vitro/in vivo metabolism by cells from the same donor. *Journal of Hepatology*, **2001**, 34, 19-25	13.4	23
116	Human hepatocyte transplantation in patients with hepatic failure awaiting a graft. *European Surgical Research*, **2013**, 50, 273-81	1.1	22
115	Assessment of cytochrome P450 induction in human hepatocytes using the cocktail strategy plus liquid chromatography tandem mass spectrometry. *Drug Metabolism Letters*, **2008**, 2, 205-9	2.1	22
114	Customised in vitro model to detect human metabolism-dependent idiosyncratic drug-induced liver injury. *Archives of Toxicology*, **2018**, 92, 383-399	5.8	22

113	Relevance of the incubation period in cytotoxicity testing with primary human hepatocytes. *Archives of Toxicology*, **2018**, 92, 3505-3515	5.8	22
112	A Network Involving Gut Microbiota, Circulating Bile Acids, and Hepatic Metabolism Genes That Protects Against Non-Alcoholic Fatty Liver Disease. *Molecular Nutrition and Food Research*, **2019**, 63, e1900487	5.9	21
111	Interaction between Hhex and SOX13 modulates Wnt/TCF activity. *Journal of Biological Chemistry*, **2010**, 285, 5726-37	5.4	21
110	A new in vitro approach for the simultaneous determination of phase I and phase II enzymatic activities of human hepatocyte preparations. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 240-4	2.2	21
109	Inhibition of monooxygenase activities in human hepatocytes by interferons. *Toxicology in Vitro*, **1993**, 7, 481-5	3.6	21
108	Molecular basis of drug phototoxicity: photosensitized cell damage by the major photoproduct of tiaprofenic acid. *Photochemistry and Photobiology*, **1994**, 60, 586-90	3.6	21
107	Immunochemical detection of protein adducts in cultured human hepatocytes exposed to diclofenac. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1995**, 1272, 140-6	6.9	20
106	Fluorescent benzofurazan-cholic acid conjugates for in vitro assessment of bile acid uptake and its modulation by drugs. *ChemMedChem*, **2009**, 4, 466-72	3.7	19
105	Photobinding of Tiaprofenic Acid and Suprofen to Proteins and Cells: A Combined Study Using Radiolabeling, Antibodies and Laser Flash Photolysis of Model Bichromophores. *Photochemistry and Photobiology*, **1998**, 68, 660-665	3.6	19
104	Identification of apoptotic drugs: multiparametric evaluation in cultured hepatocytes. *Current Medicinal Chemistry*, **2008**, 15, 2071-85	4.3	19
103	Regio- and stereo-selectivity in the intramolecular quenching of the excited benzoylthiophene chromophore by tryptophan. *Chemical Communications*, **2000**, 2257-2258	5.8	19
102	The use of cultured hepatocytes to investigate the metabolism of drugs and mechanisms of drug hepatotoxicity. *ATLA Alternatives To Laboratory Animals*, **2001**, 29, 225-31	2.1	19
101	Photobinding of drugs to cells as an indicator of potential photoallergy. *Toxicology in Vitro*, **1995**, 9, 499-503	3.6	19
100	Long-term storage of peroxidase-labelled immunoglobulins for use in enzyme immunoassay. *Journal of Immunological Methods*, **1987**, 99, 13-20	2.5	19
99	Interindividual variation in response to xenobiotic exposure established in precision-cut human liver slices. *Toxicology*, **2014**, 323, 61-9	4.4	18
98	Growth-promoting and tumourigenic activity of c-Myc is suppressed by Hhex. *Oncogene*, **2015**, 34, 3011-22	7.2	18
97	Repression of the nuclear receptor small heterodimer partner by steatotic drugs and in advanced nonalcoholic fatty liver disease. *Molecular Pharmacology*, **2015**, 87, 582-94	4.3	18
96	Influence of preservation solution on the isolation and culture of human hepatocytes from liver grafts. *Cell Transplantation*, **2005**, 14, 837-43	4	18

95	Antibodies directed to drug epitopes to investigate the structure of drug-protein photoadducts. Recognition of a common photobound substructure in tiaprofenic acid/ketoprofen cross-photoreactivity. *Chemical Research in Toxicology*, **2001**, 14, 1486-91	4	18
94	Prolonged expression of biotransformation activities of rat hepatocytes co-cultured with established cell lines. *Toxicology in Vitro*, **1990**, 4, 461-6	3.6	18
93	Monitoring of system conditioning after blank injections in untargeted UPLC-MS metabolomic analysis. *Scientific Reports*, **2019**, 9, 9822	4.9	17
92	Angiopoietin-Like Protein 8 Is a Novel Vitamin D Receptor Target Gene Involved in Nonalcoholic Fatty Liver Pathogenesis. *American Journal of Pathology*, **2018**, 188, 2800-2810	5.8	17
91	Multiparametric evaluation of the cytoprotective effect of the Mangifera indica L. stem bark extract and mangiferin in HepG2 cells. *Journal of Pharmacy and Pharmacology*, **2013**, 65, 1073-82	4.8	16
90	An in vitro tool to assess cytochrome P450 drug biotransformation-dependent cytotoxicity in engineered HepG2 cells generated by using adenoviral vectors. *Toxicology in Vitro*, **2013**, 27, 1410-5	3.6	16
89	Influence of platelet lysate on the recovery and metabolic performance of cryopreserved human hepatocytes upon thawing. *Transplantation*, **2011**, 91, 1340-6	1.8	16
88	Synthesis of new, UV-photoactive dansyl derivatives for flow cytometric studies on bile acid uptake. *Organic and Biomolecular Chemistry*, **2009**, 7, 4973-80	3.9	16
87	Preliminary results from the Scandinavian multicentre evaluation of in vitro cytotoxicity (MEIC). *Toxicology in Vitro*, **1990**, 4, 688-91	3.6	16
86	Mangifera indica L. extract and mangiferin modulate cytochrome P450 and UDP-glucuronosyltransferase enzymes in primary cultures of human hepatocytes. *Phytotherapy Research*, **2013**, 27, 745-52	6.7	15
85	Gata4 blocks somatic cell reprogramming by directly repressing Nanog. *Stem Cells*, **2013**, 31, 71-82	5.8	15
84	A general procedure for isotopic (deuterium) labelling of non-steroidal antiinflammatory 2-arylpropionic acids. *Journal of Labelled Compounds and Radiopharmaceuticals*, **1994**, 34, 93-100	1.9	15
83	Model-based contextualization of in vitro toxicity data quantitatively predicts in vivo drug response in patients. *Archives of Toxicology*, **2017**, 91, 865-883	5.8	14
82	Inter-laboratory study of human in vitro toxicogenomics-based tests as alternative methods for evaluating chemical carcinogenicity: a bioinformatics perspective. *Archives of Toxicology*, **2016**, 90, 2215-2229	5.8	14
81	Exploring mass spectrometry suitability to examine human liver graft metabonomic profiles. *Transplantation Proceedings*, **2010**, 42, 2953-8	1.1	14
80	Liver grafts preserved in Celsior solution as source of hepatocytes for drug metabolism studies: comparison with surgical liver biopsies. *Drug Metabolism and Disposition*, **2005**, 33, 108-14	4	14
79	Photoreactivity of tiaprofenic acid and suprofen using pig skin as an ex vivo model. *Journal of Photochemistry and Photobiology B: Biology*, **2000**, 58, 32-6	6.7	14
78	Comparative Metabolism of Thiabendazole in Cultured Hepatocytes from Rats, Rabbits, Calves, Pigs, and Sheep, Including the Formation of Protein-Bound Residues. *Journal of Agricultural and Food Chemistry*, **1998**, 46, 742-748	5.7	14

77	[D-Ala2, Phe (p-NO2)4, Leu5]Enkephalin Amide and N[D-Ala2, Leu5]-Enkephalyl-NAcetyl-Lysine Amide: Synthesis and Biological Properties of Prospective Enkephalin Cooperative-Affinity and Photoaffinity Labels. Preliminary communication. *Helvetica Chimica Acta*, **1979**, 62, 525-529	2	14
76	Long-term and mechanistic evaluation of drug-induced liver injury in Upcyte human hepatocytes. *Archives of Toxicology*, **2019**, 93, 519-532	5.8	14
75	Human neonatal hepatocyte transplantation induces long-term rescue of unconjugated hyperbilirubinemia in the Gunn rat. *Liver Transplantation*, **2015**, 21, 801-11	4.5	13
74	Isolation, Culture and Use of Human Hepatocytes in Drug Research **1997**, 129-153		13
73	Multiparametric characterization by flow cytometry of flow-sorted subpopulations of a human hepatoma cell line useful for drug research **2005**, 63, 48-58		13
72	Establishment and characterization of immortal hepatocytes derived from various transgenic mouse lines. *Biochemical and Biophysical Research Communications*, **2002**, 294, 864-71	3.4	13
71	High Expression of Human CYP2C in Immortalized Human Liver Epithelial Cells. *Toxicology in Vitro*, **1999**, 13, 633-8	3.6	13
70	Phototoxicity of non-steroidal anti-inflammatory drugs: in vitro testing of the photoproducts of Butibufen and Flurbiprofen. *Journal of Photochemistry and Photobiology B: Biology*, **1992**, 13, 71-81	6.7	13
69	Direct conversion of human fibroblast to hepatocytes using a single inducible polycistronic vector. *Stem Cell Research and Therapy*, **2019**, 10, 317	8.3	13
68	Comparing Targeted vs. Untargeted MS Data-Dependent Acquisition for Peak Annotation in LC-MS Metabolomics. *Metabolites*, **2020**, 10,	5.6	13
67	In vitro studies on DNA-photosensitization by different drug stereoisomers. *Toxicology in Vitro*, **2003**, 17, 651-6	3.6	12
66	Photobinding of carprofen to protein. *Journal of Photochemistry and Photobiology B: Biology*, **2000**, 58, 13-9	6.7	12
65	Mechanisms of drug photobinding to proteins: photobinding of suprofen to human serum albumin. *Toxicology in Vitro*, **2001**, 15, 333-7	3.6	12
64	Rat hepatocytes cultured on a monkey kidney cell line: Expression of biotransformation and hepatic metabolic activities. *Toxicology in Vitro*, **1991**, 5, 435-8	3.6	12
63	Comparing in vitro human liver models to in vivo human liver using RNA-Seq. *Archives of Toxicology*, **2021**, 95, 573-589	5.8	12
62	Steatotic liver: a suitable source for the isolation of hepatic progenitor cells. *Liver International*, **2011**, 31, 1231-8	7.9	10
61	Effect of glucocorticoids on the expression of gamma-glutamyltransferase and tyrosine aminotransferase in serum-free-cultured hepatocytes. *Hoppe-Seylerʼs Zeitschrift Fü Physiologische Chemie*, **1983**, 364, 501-8		10
60	In Vitro Investigation of the Molecular Mechanisms of Hepatotoxicity **1997**, 375-410		10

59	Epistane, an anabolic steroid used for recreational purposes, causes cholestasis with elevated levels of cholic acid conjugates, by upregulating bile acid synthesis (CYP8B1) and cross-talking with nuclear receptors in human hepatocytes. *Archives of Toxicology*, **2020**, 94, 589-607	5.8	10
58	Advances in drug-induced cholestasis: Clinical perspectives, potential mechanisms and in vitro systems. *Food and Chemical Toxicology*, **2018**, 120, 196-212	4.7	9
57	Predicting drug-induced cholestasis: preclinical models. *Expert Opinion on Drug Metabolism and Toxicology*, **2018**, 14, 721-738	5.5	9
56	Primary photochemical processes of the phototoxic neuroleptic cyamemazine: a study by laser flash photolysis and steady-state irradiation. *Photochemistry and Photobiology*, **2004**, 80, 535-41	3.6	9
55	Evaluation of cytochrome P450 activities in human hepatocytes in vitro. *Methods in Molecular Biology*, **2012**, 806, 87-97	1.4	8
54	Constitutive and inducible expression of CYP enzymes in immortal hepatocytes derived from SV40 transgenic mice. *Xenobiotica*, **2003**, 33, 459-73	2	8
53	An In Vitro Approach to Drug Photoallergy: Use of Drug-directed Antibodies to Assess Photobinding of Non-steroidal Anti-inflammatories to Skin Cells. *Toxicology in Vitro*, **1999**, 13, 701-5	3.6	8
52	Hepatic toxicity of paraquat in primary cultures of rat hepatocytes. *Toxicology in Vitro*, **1988**, 2, 275-82	3.6	8
51	Isolation of Cross-Coupling Products in Model Studies on the Photochemical Modification of Proteins by Tiaprofenic Acid. *European Journal of Organic Chemistry*, **1999**, 1999, 497-502	3.2	7
50	Quantification of CYP1A1 and 2B1/2 in rat hepatocytes cultured in microwells by immunological methods. *Toxicology in Vitro*, **1994**, 8, 1167-75	3.6	7
49	Fluorometric microassay to quantify microsomal epoxide hydrolase in 96-well plates. *Analytical Biochemistry*, **1995**, 230, 154-8	3.1	7
48	Potentiation of cocaine hepatotoxicity in human hepatocytes by ethanol. *Toxicology in Vitro*, **1992**, 6, 155-8	3.6	7
47	Toxic effects of the photoproducts of chlorpromazine on cultured hepatocytes. *Hepatology*, **1987**, 7, 349-54	11.2	7
46	Isozyme pattern of thymidine kinase during liver regeneration. *Hoppe-Seylerʼs Zeitschrift F□ Physiologische Chemie*, **1984**, 365, 457-62		7
45	Fluorometric assays in the study of nucleic acid--protein interactions. I. The use of diaminobenzoic acid as a reagent of DNA. *Analytical Biochemistry*, **1978**, 90, 543-50	3.1	7
44	Isolation and culture of human hepatocytes **2000**, 11-15		7
43	The Vitamin D Receptor Regulates Glycerolipid and Phospholipid Metabolism in Human Hepatocytes. *Biomolecules*, **2020**, 10,	5.9	6
42	Contribution to the Understanding of Particle Motion Perception in Marine Invertebrates. *Advances in Experimental Medicine and Biology*, **2016**, 875, 47-55	3.6	6

41	Drug metabolism by cultured human hepatocytes: how far are we from the in vivo reality?. *ATLA Alternatives To Laboratory Animals*, **2004**, 32, 101-10	2.1	6
40	Toxicity of the antitumoral drug datelliptium in hepatic cells: Use of models in vitro for the prediction of toxicity in vivo. *Toxicology in Vitro*, **1992**, 6, 295-302	3.6	6
39	The effects of buprenorphine on the metabolism of human hepatocytes. *Toxicology in Vitro*, **1991**, 5, 219-24	3.6	6
38	Photolytic degradation of benorylate: effects of the photoproducts on cultured hepatocytes. *Journal of Pharmaceutical Sciences*, **1987**, 76, 374-8	3.9	6
37	Fluorometric assays in the study of nucleic acid--protein interactions. II. The use of fluorescamine as a reagent for proteins. *Analytical Biochemistry*, **1978**, 90, 551-60	3.1	6
36	Silencing of hepatic fate-conversion factors induce tumorigenesis in reprogrammed hepatic progenitor-like cells. *Stem Cell Research and Therapy*, **2016**, 7, 96	8.3	6
35	Both cholestatic and steatotic drugs trigger extensive alterations in the mRNA level of biliary transporters in rat hepatocytes: Application to develop new predictive biomarkers for early drug development. *Toxicology Letters*, **2016**, 263, 58-67	4.4	5
34	Modulation of biotransformation and elimination systems by BM-21, an aqueous ethanolic extract from Thalassia testudinum, and thalassiolin B on human hepatocytes. *Journal of Functional Foods*, **2012**, 4, 167-176	5.1	5
33	A combination of transcriptomics and metabolomics uncovers enhanced bile acid biosynthesis in HepG2 cells expressing CCAAT/enhancer-binding protein [(C/EBP)], hepatocyte nuclear factor 4 (HNF4)], and constitutive androstane receptor (CAR). *Journal of Proteome Research*, **2013**, 12, 2732-41	5.6	5
32	Mechanisms of photosensitization by drugs: Involvement of tyrosines in the photomodification of proteins mediated by tiaprofenic acid in vitro. *Toxicology in Vitro*, **1997**, 11, 653-9	3.6	5
31	Photophysical characterization and flow cytometry applications of cholylamidofluorescein, a fluorescent bile acid scaffold. *Photochemical and Photobiological Sciences*, **2008**, 7, 860-6	4.2	5
30	Over-expression of neuropathy target esterase activity in bovine chromaffin cell cultures by adenovirus-mediated gene transfer. *Toxicology Letters*, **2007**, 168, 286-91	4.4	5
29	Primary steps of the photochemical reactions of 2-cyano-10-(3-[dimethylamino, N-oxide]-2-methylpropyl)-5-oxide-phenothiazine, the photoproduct of cyamemazine, a phototoxic neuroleptic: comparison with the sulfoxide. *Photochemical and Photobiological Sciences*, **2006**, 5, 336-42	4.2	5
28	Biotransformation in vitro of the 22R and 22S epimers of budesonide by human liver, bronchus, colonic mucosa and skin. *Fundamental and Clinical Pharmacology*, **2001**, 15, 47-54	3.1	5
27	Primary Photochemical Processes of the Phototoxic Neuroleptic Cyamemazine: A Study by Laser Flash Photolysis and Steady-state Irradiation¶. *Photochemistry and Photobiology*, **2004**, 80, 535	3.6	5
26	A Physiology-Based Model of Human Bile Acid Metabolism for Predicting Bile Acid Tissue Levels After Drug Administration in Healthy Subjects and BRIC Type 2 Patients. *Frontiers in Physiology*, **2019**, 10, 1192	4.6	4
25	The Coumarin 7-Hydroxylation Microassay in Living Hepatic Cells in Culture. *ATLA Alternatives To Laboratory Animals*, **1998**, 26, 213-223	2.1	4
24	A Novel MicroRNA Signature for Cholestatic Drugs in Human Hepatocytes and Its Translation into Novel Circulating Biomarkers for Drug-Induced Liver Injury Patients. *Toxicological Sciences*, **2020**, 173, 229-243	4.4	3

23	Can hepatoma cell lines be redifferentiated to be used in drug metabolism studies?. *ATLA Alternatives To Laboratory Animals*, **2004**, 32 Suppl 1A, 65-74	2.1	3
22	New non-woven polyurethane-based biomaterials for the cultivation of hepatocytes: expression of differentiated functions. *Journal of Materials Science: Materials in Medicine*, **2000**, 11, 37-41	4.5	3
21	S-adenosyl-L-methionine reverses the cholestatic effect of ethinylestradiol in rat hepatocytes by increasing its catabolism. *Cell Biology and Toxicology*, **1992**, 8, 13-26	7.4	3
20	Release of Inflammatory Mediators (PGE2, IL-6) by Fenofibric Acid-Photosensitized Human Keratinocytes and Fibroblasts. *Photochemistry and Photobiology*, **1998**, 68, 331	3.6	3
19	Molecular mechanisms of hepatotoxic cholestasis by clavulanic acid: Role of NRF2 and FXR pathways. *Food and Chemical Toxicology*, **2021**, 158, 112664	4.7	3
18	Improved in vivo efficacy of clinical-grade cryopreserved human hepatocytes in mice with acute liver failure. *Cytotherapy*, **2020**, 22, 114-121	4.8	2
17	An enzyme immunoassay for the quantitation of rat liver carbamoyl-phosphate synthetase I. *Analytical Biochemistry*, **1988**, 174, 687-92	3.1	2
16	Expression of liver specific-genes in hepatocytes cultured in collagen gel matrix. *Progress in Molecular and Subcellular Biology*, **2000**, 25, 89-104	3	2
15	Toward Rapid Screening of Liver Grafts at the Operating Room Using Mid-infrared Spectroscopy. *Analytical Chemistry*, **2020**, 92, 14542-14549	7.8	2
14	Metabolomic analysis to discriminate drug-induced liver injury (DILI) phenotypes. *Archives of Toxicology*, **2021**, 95, 3049-3062	5.8	2
13	Release of Inflammatory Mediators (PGE2, IL-6) by Fenofibric Acid-Photosensitized Human Keratinocytes and Fibroblasts. *Photochemistry and Photobiology*, **1998**, 68, 331-336	3.6	1
12	Branched-chain amino-acids and albumin synthesis. Study with hepatocytes of normal and stressed rats. *Clinical Nutrition*, **1987**, 6, 241-245	5.9	1
11	Properties of P3 esters of nucleoside triphosphates as substrates for RNA polymerase from Escherichia coli. *Biochemistry*, **1981**, 20, 5538-46	3.2	1
10	The in vitro assessment of the toxicity of volatile, oxidisable, redox-cycling compounds: phenols as an example. *Archives of Toxicology*, **2021**, 95, 2109-2121	5.8	1
9	Methionine Cycle Rewiring by Targeting miR-873-5p Modulates Ammonia Metabolism to Protect the Liver from Acetaminophen. *Antioxidants*, **2022**, 11, 897	7.1	1
8	Derivation of healthy hepatocyte-like cells from a female patient with ornithine transcarbamylase deficiency through X-inactivation selection.. *Scientific Reports*, **2022**, 12, 2308	4.9	0
7	Factors that influence the quality of metabolomics data in in vitro cell toxicity studies: a systematic survey. *Scientific Reports*, **2021**, 11, 22119	4.9	0
6	Extracting consistent biological information from functional results of metabolomic pathway analysis using the Mantel's test. *Analytica Chimica Acta*, **2021**, 1187, 339173	6.6	0

5	A Model-Based Workflow to Benchmark the Clinical Cholestasis Risk of Drugs. *Clinical Pharmacology and Therapeutics*, **2021**, 110, 1293-1301	6.1	0
4	Idiosyncratic Drug-Induced Liver Injury: Facts and Perspectives **2009**, 179-206		
3	A specific microassay for evaluating hepatic LDH activity in co-cultures of hepatocytes with other cells. *Cytotechnology*, **1995**, 17, 45-52	2.2	
2	Evidence for arrested G2 cell subpopulation in rat liver inducible to mitosis. *Cell Proliferation*, **1987**, 20, 583-90	7.9	
1	Proliferative response and metabolic effects of growth factors in human hepatocytes **2000**, 247-261		