

Edward L Lecluyse

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83

papers

8,851

citations

48

h-index

83

g-index

83

ext. papers

9,480

ext. citations

4.4

avg, IF

5.7

L-index

#	Paper	IF	Citations
83	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. <i>Archives of Toxicology</i> , 2013 , 87, 1315-530	5.8	837
82	Comparative toxicity of trivalent and pentavalent inorganic and methylated arsenicals in rat and human cells. <i>Archives of Toxicology</i> , 2000 , 74, 289-99	5.8	787
81	The pregnane X receptor: a promiscuous xenobiotic receptor that has diverged during evolution. <i>Molecular Endocrinology</i> , 2000 , 14, 27-39		565
80	Human hepatocyte culture systems for the in vitro evaluation of cytochrome P450 expression and regulation. <i>European Journal of Pharmaceutical Sciences</i> , 2001 , 13, 343-68	5.1	403
79	models for liver toxicity testing. <i>Toxicology Research</i> , 2013 , 2, 23-39	2.6	304
78	Effects of prototypical microsomal enzyme inducers on cytochrome P450 expression in cultured human hepatocytes. <i>Drug Metabolism and Disposition</i> , 2003 , 31, 421-31	4	295
77	Organotypic liver culture models: meeting current challenges in toxicity testing. <i>Critical Reviews in Toxicology</i> , 2012 , 42, 501-48	5.7	252
76	Relative activation of human pregnane X receptor versus constitutive androstane receptor defines distinct classes of CYP2B6 and CYP3A4 inducers. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 320, 72-80	4.7	251
75	Anti-influenza prodrug oseltamivir is activated by carboxylesterase human carboxylesterase 1, and the activation is inhibited by antiplatelet agent clopidogrel. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 319, 1477-84	4.7	223
74	Role of orphan nuclear receptors in the regulation of drug-metabolising enzymes. <i>Clinical Pharmacokinetics</i> , 2003 , 42, 1331-57	6.2	212
73	Antiplatelet agents aspirin and clopidogrel are hydrolyzed by distinct carboxylesterases, and clopidogrel is transesterificated in the presence of ethyl alcohol. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 319, 1467-76	4.7	199
72	Incorporating human dosimetry and exposure into high-throughput in vitro toxicity screening. <i>Toxicological Sciences</i> , 2010 , 117, 348-58	4.4	189
71	A novel distal enhancer module regulated by pregnane X receptor/constitutive androstane receptor is essential for the maximal induction of CYP2B6 gene expression. <i>Journal of Biological Chemistry</i> , 2003 , 278, 14146-52	5.4	176
70	Human CYP2C8 is transcriptionally regulated by the nuclear receptors constitutive androstane receptor, pregnane X receptor, glucocorticoid receptor, and hepatic nuclear factor 4alpha. <i>Molecular Pharmacology</i> , 2005 , 68, 747-57	4.3	168
69	Regulation of CYP2B6 in primary human hepatocytes by prototypical inducers. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 348-58	4	166
68	Regulation of cell morphology and cytochrome P450 expression in human hepatocytes by extracellular matrix and cell-cell interactions. <i>Cell and Tissue Research</i> , 2001 , 306, 85-99	4.2	165
67	Pregnane X receptor: molecular basis for species differences in CYP3A induction by xenobiotics. <i>Chemico-Biological Interactions</i> , 2001 , 134, 283-9	5	164

66	Strategies for restoration and maintenance of normal hepatic structure and function in long-term cultures of rat hepatocytes. <i>Advanced Drug Delivery Reviews</i> , 1996 , 22, 133-186	18,5	162
65	Expression and regulation of cytochrome P450 enzymes in primary cultures of human hepatocytes. <i>Journal of Biochemical and Molecular Toxicology</i> , 2000 , 14, 177-88	3-4	161
64	Differential regulation of hepatic CYP2B6 and CYP3A4 genes by constitutive androstane receptor but not pregnane X receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 317, 1200-9	4-7	154
63	Regulation of human CYP2C9 by the constitutive androstane receptor: discovery of a new distal binding site. <i>Molecular Pharmacology</i> , 2002 , 62, 737-46	4-3	134
62	P-glycoprotein expression, localization, and function in sandwich-cultured primary rat and human hepatocytes: relevance to the hepatobiliary disposition of a model opioid peptide. <i>Pharmaceutical Research</i> , 2004 , 21, 1294-302	4-5	126
61	Metabolism of arsenic in primary cultures of human and rat hepatocytes. <i>Chemical Research in Toxicology</i> , 1999 , 12, 560-5	4	118
60	Human constitutive androstane receptor mediates induction of CYP2B6 gene expression by phenytoin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 29295-301	5-4	115
59	Early identification of clinically relevant drug interactions with the human bile salt export pump (BSEP/ABCB11). <i>Toxicological Sciences</i> , 2013 , 136, 328-43	4-4	113
58	In vivo and in vitro induction of human cytochrome P4503A4 by dexamethasone. <i>Clinical Pharmacology and Therapeutics</i> , 2000 , 68, 356-66	6-1	110
57	Isolation and culture of primary human hepatocytes. <i>Methods in Molecular Biology</i> , 2005 , 290, 207-29	1-4	106
56	Comparative effects of thiazolidinediones on in vitro P450 enzyme induction and inhibition. <i>Drug Metabolism and Disposition</i> , 2003 , 31, 439-46	4	104
55	Isolation and culture of primary hepatocytes from resected human liver tissue. <i>Methods in Molecular Biology</i> , 2010 , 640, 57-82	1-4	99
54	Editor's Highlight: Modeling Compound-Induced Fibrogenesis In Vitro Using Three-Dimensional Bioprinted Human Liver Tissues. <i>Toxicological Sciences</i> , 2016 , 154, 354-367	4-4	97
53	Application of cDNA microarray to the study of arsenic-induced liver diseases in the population of Guizhou, China. <i>Toxicological Sciences</i> , 2001 , 59, 185-92	4-4	87
52	Kupffer cell-mediated IL-2 suppression of CYP3A activity in human hepatocytes. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 359-63	4	86
51	Cultured rat hepatocytes. <i>Pharmaceutical Biotechnology</i> , 1996 , 8, 121-59		84
50	Glucocorticoid receptor enhancement of pregnane X receptor-mediated CYP2B6 regulation in primary human hepatocytes. <i>Drug Metabolism and Disposition</i> , 2003 , 31, 620-30	4	82
49	A map of the PPAR α transcription regulatory network for primary human hepatocytes. <i>Chemico-Biological Interactions</i> , 2014 , 209, 14-24	5	79

48	The effect of cyclophosphamide with and without dexamethasone on cytochrome P450 3A4 and 2B6 in human hepatocytes. <i>Drug Metabolism and Disposition</i> , 2002 , 30, 814-22	4	78
47	Dodecylphosphocholine-mediated enhancement of paracellular permeability and cytotoxicity in Caco-2 cell monolayers. <i>Journal of Pharmaceutical Sciences</i> , 1999 , 88, 1161-8	3.9	77
46	Selenium compounds modulate the activity of recombinant rat AsIII-methyltransferase and the methylation of arsenite by rat and human hepatocytes. <i>Chemical Research in Toxicology</i> , 2003 , 16, 261-5	4	74
45	Interindividual variation in the metabolism of arsenic in cultured primary human hepatocytes. <i>Toxicology and Applied Pharmacology</i> , 2004 , 201, 166-77	4.6	73
44	Biliary excretion in primary rat hepatocytes cultured in a collagen-sandwich configuration. <i>American Journal of Physiology - Renal Physiology</i> , 1999 , 277, G12-21	5.1	73
43	Partial maintenance of taurocholate uptake by adult rat hepatocytes cultured in a collagen sandwich configuration. <i>Pharmaceutical Research</i> , 1998 , 15, 1533-9	4.5	69
42	A comprehensive evaluation of metabolic activity and intrinsic clearance in suspensions and monolayer cultures of cryopreserved primary human hepatocytes. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 3989-4002	3.9	62
41	Co-culture of Hepatocytes and Kupffer Cells as an In Vitro Model of Inflammation and Drug-Induced Hepatotoxicity. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 950-964	3.9	58
40	Cross-species comparisons of transcriptomic alterations in human and rat primary hepatocytes exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. <i>Toxicological Sciences</i> , 2012 , 127, 199-215	4.4	58
39	Avasimibe induces CYP3A4 and multiple drug resistance protein 1 gene expression through activation of the pregnane X receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003 , 306, 1027-34	4.7	58
38	Knockout of the aryl hydrocarbon receptor results in distinct hepatic and renal phenotypes in rats and mice. <i>Toxicology and Applied Pharmacology</i> , 2013 , 272, 503-18	4.6	56
37	Long-term stability of primary rat hepatocytes in micropatterned cocultures. <i>Journal of Biochemical and Molecular Toxicology</i> , 2013 , 27, 204-12	3.4	50
36	Relationship between drug absorption enhancing activity and membrane perturbing effects of acylcarnitines. <i>Pharmaceutical Research</i> , 1991 , 8, 84-7	4.5	50
35	Xenobiotic-metabolizing enzyme and transporter gene expression in primary cultures of human hepatocytes modulated by ToxCast chemicals. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2010 , 13, 329-46	8.6	47
34	The human sulfotransferase SULT1A1 gene is regulated in a synergistic manner by Sp1 and GA binding protein. <i>Molecular Pharmacology</i> , 2004 , 66, 1690-701	4.3	46
33	In vitro models for selection of development candidates. Permeability studies to define mechanisms of absorption enhancement. <i>Advanced Drug Delivery Reviews</i> , 1997 , 23, 163-183	18.5	41
32	Differential UGT1A1 induction by chrysin in primary human hepatocytes and HepG2 Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005 , 315, 1256-64	4.7	40
31	Human and rat primary hepatocyte CYP1A1 and 1A2 induction with 2,3,7,8-tetrachlorodibenzo-p-dioxin, 2,3,7,8-tetrachlorodibenzofuran, and 2,3,4,7,8-pentachlorodibenzofuran. <i>Toxicological Sciences</i> , 2010 , 118, 224-35	4.4	38

30	A micropatterned hepatocyte coculture model for assessment of liver toxicity using high-content imaging analysis. <i>Assay and Drug Development Technologies</i> , 2014 , 12, 16-27	2.1	37
29	Regulation of cytochrome P450 2C9 expression in primary cultures of human hepatocytes. <i>Journal of Biochemical and Molecular Toxicology</i> , 2009 , 23, 43-58	3.4	35
28	Optimization of culture conditions for determining hepatobiliary disposition of taurocholate in sandwich-cultured rat hepatocytes. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2001 , 37, 380-5	2.6	34
27	Sulfotransferase gene expression in primary cultures of rat hepatocytes. <i>Biochemical Pharmacology</i> , 1996 , 52, 1621-30	6	34
26	Modulation of UDP-glucuronosyltransferase 1A1 in primary human hepatocytes by prototypical inducers. <i>Journal of Biochemical and Molecular Toxicology</i> , 2005 , 19, 96-108	3.4	32
25	The Promise of New Technologies to Reduce, Refine, or Replace Animal Use while Reducing Risks of Drug Induced Liver Injury in Pharmaceutical Development. <i>ILAR Journal</i> , 2016 , 57, 186-211	1.7	30
24	Effects of avasimibe on cytochrome P450 2C9 expression in vitro and in vivo. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 1370-6	4	25
23	Simultaneous in vitro measurement of intestinal tissue permeability and transepithelial electrical resistance (TEER) using Sweetana-Grass diffusion cells. <i>Pharmaceutical Research</i> , 1992 , 9, 316-9	4.5	24
22	Evaluation of an in vitro toxicogenetic mouse model for hepatotoxicity. <i>Toxicology and Applied Pharmacology</i> , 2010 , 249, 208-16	4.6	21
21	Liver biomarker and in vitro assessment confirm the hepatic origin of aminotransferase elevations lacking histopathological correlate in beagle dogs treated with GABAA receptor antagonist NP260. <i>Toxicology and Applied Pharmacology</i> , 2014 , 277, 131-7	4.6	20
20	Enhanced bioavailability of cefoxitin using palmitoyl L-carnitine. I. Enhancer activity in different intestinal regions. <i>Pharmaceutical Research</i> , 1992 , 9, 191-4	4.5	16
19	Temporal kinetics and concentration-response relationships for induction of CYP1A, CYP2B, and CYP3A in primary cultures of beagle dog hepatocytes. <i>Journal of Biochemical and Molecular Toxicology</i> , 2006 , 20, 69-78	3.4	14
18	OPTIMIZATION OF CULTURE CONDITIONS FOR DETERMINING HEPATOBILIARY DISPOSITION OF TAUROCHOLATE IN SANDWICH-CULTURED RAT HEPATOCYTES. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2001 , 37, 380	2.6	14
17	Development of 3D dynamic flow model of human liver and its application to prediction of metabolic clearance of 7-ethoxycoumarin. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 641-51	2.9	13
16	Enhanced bioavailability of cefoxitin using palmitoylcarnitine. II. Use of directly compressed tablet formulations in the rat and dog. <i>Pharmaceutical Research</i> , 1993 , 10, 1516-20	4.5	13
15	Primary human hepatocyte culture for HCV study. <i>Methods in Molecular Biology</i> , 2009 , 510, 373-82	1.4	12
14	Differential Effects of Trovafloxacin on TNF- α and IL-6 Profiles in a Rat Hepatocyte-Kupffer Cell Coculture System. <i>Applied in Vitro Toxicology</i> , 2015 , 1, 45-54	1.3	11
13	Cloning, tissue expression, and regulation of beagle dog CYP4A genes. <i>Toxicological Sciences</i> , 2006 , 92, 356-67	4.4	11

12	CYP3A induction by N-hydroxyformamide tumor necrosis factor-alpha converting enzyme/matrix metalloproteinase inhibitors use of a pregnane X receptor activation assay and primary hepatocyte culture for assessing induction potential in humans. <i>Drug Metabolism and Disposition</i> , 2003 , 31, 870-7	4	9
11	Bioactivation and toxicity of acetaminophen in a rat hepatocyte micropatterned coculture system. <i>Journal of Biochemical and Molecular Toxicology</i> , 2013 , 27, 471-8	3.4	8
10	Identifying qualitative differences in PPAR signaling networks in human and rat hepatocytes and their significance for next generation chemical risk assessment methods. <i>Toxicology in Vitro</i> , 2020 , 64, 104463	3.6	7
9	Long-Term Engineered Cultures of Primary Mouse Hepatocytes for Strain and Species Comparison Studies During Drug Development. <i>Gene Expression</i> , 2019 , 19, 199-214	3.4	4
8	Advancing nonclinical innovation and safety in pharmaceutical testing. <i>Drug Discovery Today</i> , 2019 , 24, 624-628	8.8	3
7	Species Differences in Receptor-Mediated Gene Regulation71-98		1
6	Response to Comments on Anti-Influenza Prodrug Oseltamivir Is Activated by Carboxylesterase Human Carboxylesterase 1, and the Activation Is Inhibited by Antiplatelet Agent Clopidogrel <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 322, 424-425	4.7	1
5	Cytochrome P450 Induction265-314		1
4	Hepatocyte size fractionation allows dissection of human liver zonation. <i>Journal of Cellular Physiology</i> , 2021 , 236, 5885-5894	7	0
3	Reprogramming of Human Hepatic Non-Parenchymal Cells: Step-by-Step Protocol. <i>Current Protocols in Stem Cell Biology</i> , 2020 , 53, e112	2.8	
2	Liver Structure and Microanatomy 2018 ,		
1	Nuclear Receptor-Mediated Gene Expression Changes in a Human Hepatic Micropatterned Coculture Model After Treatment with Hepatotoxic Compounds. <i>Applied in Vitro Toxicology</i> , 2016 , 2, 8-16	1.3	