Edward L Lecluyse

List of Publications by Year
in descending order

82	10,162	43973 48	71532 76
papers	citations	h-index	g-index

83	83	83	8637
all docs	docs citations	times ranked	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.	1.9	1,089
2	Comparative toxicity of trivalent and pentavalent inorganic and methylated arsenicals in rat and human cells. Archives of Toxicology, 2000, 74, 289-299.	1.9	881
3	The Pregnane X Receptor: A Promiscuous Xenobiotic Receptor That Has Diverged during Evolution. Molecular Endocrinology, 2000, 14, 27-39.	3.7	607
4	Human hepatocyte culture systems for the in vitro evaluation of cytochrome P450 expression and regulation. European Journal of Pharmaceutical Sciences, 2001, 13, 343-368.	1.9	442
5	In vitro models for liver toxicity testing. Toxicology Research, 2013, 2, 23-39.	0.9	368
6	Effects of Prototypical Microsomal Enzyme Inducers on Cytochrome P450 Expression in Cultured Human Hepatocytes. Drug Metabolism and Disposition, 2003, 31, 421-431.	1.7	313
7	Organotypic liver culture models: Meeting current challenges in toxicity testing. Critical Reviews in Toxicology, 2012, 42, 501-548.	1.9	293
8	Relative Activation of Human Pregnane X Receptor versus Constitutive Androstane Receptor Defines Distinct Classes of CYP2B6 and CYP3A4 Inducers. Journal of Pharmacology and Experimental Therapeutics, 2007, 320, 72-80.	1.3	281
9	Anti-Influenza Prodrug Oseltamivir Is Activated by Carboxylesterase Human Carboxylesterase 1, and the Activation Is Inhibited by Antiplatelet Agent Clopidogrel. Journal of Pharmacology and Experimental Therapeutics, 2006, 319, 1477-1484.	1.3	250
10	Role of Orphan Nuclear Receptors in the Regulation of Drug-Metabolising Enzymes. Clinical Pharmacokinetics, 2003, 42, 1331-1357.	1.6	248
11	Antiplatelet Agents Aspirin and Clopidogrel Are Hydrolyzed by Distinct Carboxylesterases, and Clopidogrel Is Transesterificated in the Presence of Ethyl Alcohol. Journal of Pharmacology and Experimental Therapeutics, 2006, 319, 1467-1476.	1.3	225
12	Incorporating Human Dosimetry and Exposure into High-ThroughputIn VitroToxicity Screening. Toxicological Sciences, 2010, 117, 348-358.	1.4	222
13	A Novel Distal Enhancer Module Regulated by Pregnane X Receptor/Constitutive Androstane Receptor Is Essential for the Maximal Induction of CYP2B6 Gene Expression. Journal of Biological Chemistry, 2003, 278, 14146-14152.	1.6	195
14	Human CYP2C8 Is Transcriptionally Regulated by the Nuclear Receptors Constitutive Androstane Receptor, Pregnane X Receptor, Glucocorticoid Receptor, and Hepatic Nuclear Factor 4Î±. Molecular Pharmacology, 2005, 68, 747-757.	1.0	185
15	Strategies for restoration and maintenance of normal hepatic structure and function in long-term cultures of rat hepatocytes. Advanced Drug Delivery Reviews, 1996, 22, 133-186.	6.6	182
16	Expression and regulation of cytochrome P450 enzymes in primary cultures of human hepatocytes. , 2000, 14, 177-188.		180
17	Pregnane X receptor: molecular basis for species differences in CYP3A induction by xenobiotics. Chemico-Biological Interactions, 2001, 134, 283-289.	1.7	180
18	Regulation of cell morphology and cytochrome P450 expression in human hepatocytes by extracellular matrix and cell-cell interactions. Cell and Tissue Research, 2001, 306, 85-99.	1.5	179

#	Article	IF	Citations
19	REGULATION OF CYP2B6 IN PRIMARY HUMAN HEPATOCYTES BY PROTOTYPICAL INDUCERS. Drug Metabolism and Disposition, 2004, 32, 348-358.	1.7	177
20	Differential Regulation of Hepatic CYP2B6 and CYP3A4 Genes by Constitutive Androstane Receptor but Not Pregnane X Receptor. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 1200-1209.	1.3	171
21	Regulation of HumanCYP2C9by the Constitutive Androstane Receptor: Discovery of a New Distal Binding Site. Molecular Pharmacology, 2002, 62, 737-746.	1.0	149
22	Human Constitutive Androstane Receptor Mediates Induction of CYP2B6 Gene Expression by Phenytoin. Journal of Biological Chemistry, 2004, 279, 29295-29301.	1.6	136
23	P-glycoprotein Expression, Localization, and Function in Sandwich-Cultured Primary Rat and Human Hepatocytes: Relevance to the Hepatobiliary Disposition of a Model Opioid Peptide. Pharmaceutical Research, 2004, 21, 1294-1302.	1.7	136
24	In vivo and in vitro induction of human cytochrome P4503A4 by dexamethasone. Clinical Pharmacology and Therapeutics, 2000, 68, 356-366.	2.3	133
25	Early Identification of Clinically Relevant Drug Interactions With the Human Bile Salt Export Pump (BSEP/ABCB11). Toxicological Sciences, 2013, 136, 328-343.	1.4	133
26	Metabolism of Arsenic in Primary Cultures of Human and Rat Hepatocytes. Chemical Research in Toxicology, 1999, 12, 560-565.	1.7	132
27	Editorâ€™s Highlight: Modeling Compound-Induced FibrogenesisIn VitroUsing Three-Dimensional Bioprinted Human Liver Tissues. Toxicological Sciences, 2016, 154, 354-367.	1.4	126
28	Isolation and Culture of Primary Hepatocytes from Resected Human Liver Tissue. Methods in Molecular Biology, 2010, 640, 57-82.	0.4	122
29	Isolation and Culture of Primary Human Hepatocytes. , 2005, 290, 207-230.		120
30	Comparative Effects of Thiazolidinediones on in Vitro P450 Enzyme Induction and Inhibition. Drug Metabolism and Disposition, 2003, 31, 439-446.	1.7	114
31	Biliary excretion in primary rat hepatocytes cultured in a collagen-sandwich configuration. American Journal of Physiology - Renal Physiology, 1999, 277, G12-G21.	1.6	105
32	Application of cDNA Microarray to the Study of Arsenic-Induced Liver Diseases in the Population of Guizhou, China. Toxicological Sciences, 2001, 59, 185-192.	1.4	103
33	KUPFFER CELL-MEDIATED IL-2 SUPPRESSION OF CYP3A ACTIVITY IN HUMAN HEPATOCYTES. Drug Metabolism and Disposition, 2004, 32, 359-363.	1.7	99
34	Cultured Rat Hepatocytes. Pharmaceutical Biotechnology, 1996, 8, 121-159.	0.3	96
35	Glucocorticoid Receptor Enhancement of Pregnane X Receptor-Mediated CYP2B6 Regulation in Primary Human Hepatocytes. Drug Metabolism and Disposition, 2003, 31, 620-630.	1.7	89
36	A map of the PPARÎ± transcription regulatory network for primary human hepatocytes. Chemico-Biological Interactions, 2014, 209, 14-24.	1.7	89

#	Article	IF	Citations
37	The Effect of Cyclophosphamide with and without Dexamethasone on Cytochrome P450 3A4 and 2B6 in Human Hepatocytes. Drug Metabolism and Disposition, 2002, 30, 814-822.	1.7	88
38	Dodecylphosphocholine-mediated enhancement of paracellular permeability and cytotoxicity in Caco-2 cell monolayers. Journal of Pharmaceutical Sciences, 1999, 88, 1161-1168.	1.6	85
39	Selenium Compounds Modulate the Activity of Recombinant Rat AsIII-Methyltransferase and the Methylation of Arsenite by Rat and Human Hepatocytes. Chemical Research in Toxicology, 2003, 16, 261-265.	1.7	78
40	Interindividual variation in the metabolism of arsenic in cultured primary human hepatocytes. Toxicology and Applied Pharmacology, 2004, 201, 166-177.	1.3	78
41	Partial maintenance of taurocholate uptake by adult rat hepatocytes cultured in a collagen sandwich configuration. Pharmaceutical Research, 1998, 15, 1533-1539.	1.7	76
42	A comprehensive evaluation of metabolic activity and intrinsic clearance in suspensions and monolayer cultures of cryopreserved primary human hepatocytes. Journal of Pharmaceutical Sciences, 2012, 101, 3989-4002.	1.6	74
43	Avasimibe Induces CYP3A4 and Multiple Drug Resistance Protein 1 Gene Expression through Activation of the Pregnane X Receptor. Journal of Pharmacology and Experimental Therapeutics, 2003, 306, 1027-1034.	1.3	68
44	Knockout of the aryl hydrocarbon receptor results in distinct hepatic and renal phenotypes in rats and mice. Toxicology and Applied Pharmacology, 2013, 272, 503-518.	1.3	67
45	Cross-species Comparisons of Transcriptomic Alterations in Human and Rat Primary Hepatocytes Exposed to 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Toxicological Sciences, 2012, 127, 199-215.	1.4	66
46	Co-culture of Hepatocytes and Kupffer Cells as an InÂVitro Model of Inflammation and Drug-Induced Hepatotoxicity. Journal of Pharmaceutical Sciences, 2016, 105, 950-964.	1.6	66
47	Relationship between drug absorption enhancing activity and membrane perturbing effects of acylcarnitines. Pharmaceutical Research, 1991, 08, 84-87.	1.7	54
48	Longâ€Term Stability of Primary Rat Hepatocytes in Micropatterned Cocultures. Journal of Biochemical and Molecular Toxicology, 2013, 27, 204-212.	1.4	54
49	Xenobiotic-Metabolizing Enzyme and Transporter Gene Expression in Primary Cultures of Human Hepatocytes Modulated by Toxcast Chemicals. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2010, 13, 329-346.	2.9	53
50	In vitro models for selection of development candidates. Permeability studies to define mechanisms of absorption enhancement. Advanced Drug Delivery Reviews, 1997, 23, 163-183.	6.6	50
51	The Human Sulfotransferase SULT1A1 Gene Is Regulated in a Synergistic Manner by Sp1 and GA Binding Protein. Molecular Pharmacology, 2004, 66, 1690-1701.	1.0	48
52	A Micropatterned Hepatocyte Coculture Model for Assessment of Liver Toxicity Using High-Content Imaging Analysis. Assay and Drug Development Technologies, 2014, 12, 16-27.	0.6	43
53	Differential UGT1A1 Induction by Chrysin in Primary Human Hepatocytes and HepG2 Cells. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 1256-1264.	1.3	41
54	Modulation of UDP-glucuronosyltransferase 1A1 in primary human hepatocytes by prototypical inducers. Journal of Biochemical and Molecular Toxicology, 2005, 19, 96-108.	1.4	40

#	Article	IF	Citations
55	Regulation of cytochrome P450 2C9 expression in primary cultures of human hepatocytes. Journal of Biochemical and Molecular Toxicology, 2009, 23, 43-58.	1.4	40
56	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. Toxicological Sciences, 2010, 118, 224-235.	1.4	40
57	Optimization of culture conditions for determining hepatobiliary disposition of taurocholate in sandwich-cultured rat hepatocytes. In Vitro Cellular and Developmental Biology - Animal, 2001, 37, 380-385.	0.7	37
58	Sulfotransferase gene expression in primary cultures of rat hepatocytes. Biochemical Pharmacology, 1996, 52, 1621-1630.	2.0	35
59	The Promise of New Technologies to Reduce, Refine, or Replace Animal Use while Reducing Risks of Drug Induced Liver Injury in Pharmaceutical Development. ILAR Journal, 2016, 57, 186-211.	1.8	35
60	Simultaneous in vitro measurement of intestinal tissue permeability and transepithelial electrical resistance (TEER) using Sweetana-Grass diffusion cells. Pharmaceutical Research, 1992, 09, 316-319.	1.7	32
61	EFFECTS OF AVASIMIBE ON CYTOCHROME P450 2C9 EXPRESSION IN VITRO AND IN VIVO. Drug Metabolism and Disposition, 2004, 32, 1370-1376.	1.7	30
62	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. Toxicology and Applied Pharmacology, 2014, 277, 131-137.	1.3	26
63	Evaluation of an in vitro toxicogenetic mouse model for hepatotoxicity. Toxicology and Applied Pharmacology, 2010, 249, 208-216.	1.3	23
64	OPTIMIZATION OF CULTURE CONDITIONS FOR DETERMINING HEPATOBILIARY DISPOSITION OF TAUROCHOLATE IN SANDWICH-CULTURED RAT HEPATOCYTES. In Vitro Cellular and Developmental Biology - Animal, 2001, 37, 380.	0.7	22
65	Temporal kinetics and concentrationâ€“response relationships for induction of CYP1A, CYP2B, and CYP3A in primary cultures of beagle dog hepatocytes. Journal of Biochemical and Molecular Toxicology, 2006, 20, 69-78.	1.4	19
66	Enhanced bioavailability of cefoxitin using palmitoyl L-carnitine. I. Enhancer activity in different intestinal regions. Pharmaceutical Research, 1992, 09, 191-194.	1.7	17
67	Enhanced bioavailability of cefoxitin using palmitoylcarnitine. II. Use of directly compressed tablet formulations in the rat and dog. Pharmaceutical Research, 1993, 10, 1516-1520.	1.7	15
68	Differential Effects of Trovafloxacin on TNF-Î± and IL-6 Profiles in a Rat Hepatocyteâ€“Kupffer Cell Coculture System. Applied in Vitro Toxicology, 2015, 1, 45-54.	0.6	15
69	Cloning, Tissue Expression, and Regulation of Beagle Dog CYP4A Genes. Toxicological Sciences, 2006, 92, 356-367.	1.4	13
70	Development of 3D Dynamic Flow Model of Human Liver and Its Application to Prediction of Metabolic Clearance of 7-Ethoxycoumarin. Tissue Engineering - Part C: Methods, 2014, 20, 641-651.	1.1	13
71	Primary Human Hepatocyte Culture for HCV Study. Methods in Molecular Biology, 2009, 510, 373-382.	0.4	13
72	Identifying qualitative differences in PPARÎ± signaling networks in human and rat hepatocytes and their significance for next generation chemical risk assessment methods. Toxicology in Vitro, 2020, 64, 104463.	1.1	12

#	Article	IF	Citations
73	Bioactivation and Toxicity of Acetaminophen in a Rat Hepatocyte Micropatterned Coculture System. Journal of Biochemical and Molecular Toxicology, 2013, 27, 471-478.	1.4	10
74	CYP3A INDUCTION BY N-HYDROXYFORMAMIDE TUMOR NECROSIS FACTOR-Î± CONVERTING ENZYME/MATRIX METALLOPROTEINASE INHIBITORS: USE OF A PREGNANE X RECEPTOR ACTIVATION ASSAY AND PRIMARY HEPATOCYTE CULTURE FOR ASSESSING INDUCTION POTENTIAL IN HUMANS. Drug Metabolism and Disposition, 2003, 31, 870-877.	1.7	9
75	Advancing nonclinical innovation and safety in pharmaceutical testing. Drug Discovery Today, 2019, 24, 624-628.	3.2	9
76	Hepatocyte size fractionation allows dissection of human liver zonation. Journal of Cellular Physiology, 2021, 236, 5885-5894.	2.0	7
77	Long-Term Engineered Cultures of Primary Mouse Hepatocytes for Strain and Species Comparison Studies During Drug Development. Gene Expression, 2019, 19, 199-214.	0.5	6
78	Response to Comments on â€œAnti-Influenza Prodrug Oseltamivir Is Activated by Carboxylesterase Human Carboxylesterase 1, and the Activation Is Inhibited by Antiplatelet Agent Clopidogrelâ€. Journal of Pharmacology and Experimental Therapeutics, 2007, 322, 424-425.	1.3	1
79	Species Differences in Receptor-Mediated Gene Regulation. , 0, , 71-98.		1
80	Nuclear Receptor-Mediated Gene Expression Changes in a Human Hepatic Micropatterned Coculture Model After Treatment with Hepatotoxic Compounds. Applied in Vitro Toxicology, 2016, 2, 8-16.	0.6	0
81	Liverâ€”Structure and Microanatomy. , 2018, , .		0
82	Reprogramming of Human Hepatic Nonâ€Parenchymal Cells: Stepâ€byâ€Step Protocol. Current Protocols in Stem Cell Biology, 2020, 53, e112.	3.0	0