

M Teresa Donato

List of Publications by Year in Descending Order

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Version: 2024-04-29

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

6,913
citations

43
h-index

80
g-index

122
ext. papers

7,717
ext. citations

3.8
avg, IF

5.65
L-index

#	Paper	IF	Citations
122	Oxidative-stress and long-term hepatotoxicity: comparative study in Upcyte human hepatocytes and hepaRG cells.. <i>Archives of Toxicology</i> , 2022 , 96, 1021	5.8	1
121	Application of high-content screening for the study of hepatotoxicity: Focus on food toxicology. <i>Food and Chemical Toxicology</i> , 2021 , 147, 111872	4.7	0
120	Induced pluripotent stem cells in liver disease 2021 , 225-250		
119	Improved in vivo efficacy of clinical-grade cryopreserved human hepatocytes in mice with acute liver failure. <i>Cytotherapy</i> , 2020 , 22, 114-121	4.8	2
118	Stem-cell derived hepatocyte-like cells for the assessment of drug-induced liver injury. <i>Differentiation</i> , 2019 , 106, 15-22	3.5	14
117	Long-term and mechanistic evaluation of drug-induced liver injury in Upcyte human hepatocytes. <i>Archives of Toxicology</i> , 2019 , 93, 519-532	5.8	14
116	Customised in vitro model to detect human metabolism-dependent idiosyncratic drug-induced liver injury. <i>Archives of Toxicology</i> , 2018 , 92, 383-399	5.8	22
115	Assessment of the cytotoxic potential of an aqueous-ethanolic extract from <i>Thalassia testudinum</i> angiosperm marine grown in the Caribbean Sea. <i>Journal of Pharmacy and Pharmacology</i> , 2018 , 70, 1553-1560	4.8	6
114	A Multi-Parametric Fluorescent Assay for the Screening and Mechanistic Study of Drug-Induced Steatosis in Liver Cells in Culture. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 2017 , 72, 14.15.1-14.15.11	1	
113	A lipidomic cell-based assay for studying drug-induced phospholipidosis and steatosis. <i>Electrophoresis</i> , 2017 , 38, 2331-2340	3.6	12
112	Using high-content screening technology for studying drug-induced hepatotoxicity in preclinical studies. <i>Expert Opinion on Drug Discovery</i> , 2017 , 12, 201-211	6.2	17
111	In vitro modulation of the cytochrome P450 and ABCB1/P-glycoprotein activities of the aqueous extract of <i>Allophylus cominia</i> (L) Sw. leaves. <i>Drug Metabolism and Personalized Therapy</i> , 2017 , 32, 201-208	2	1
110	Upgrading HepG2 cells with adenoviral vectors that encode drug-metabolizing enzymes: application for drug hepatotoxicity testing. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2017 , 13, 137-148	5.5	14
109	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. <i>Toxicology Letters</i> , 2016 , 263, 58-67	4.4	5
108	Advantageous use of HepaRG cells for the screening and mechanistic study of drug-induced steatosis. <i>Toxicology and Applied Pharmacology</i> , 2016 , 302, 1-9	4.6	40
107	Extending metabolome coverage for untargeted metabolite profiling of adherent cultured hepatic cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 1217-30	4.4	28
106	Metabolic activation and drug-induced liver injury: in vitro approaches for the safety risk assessment of new drugs. <i>Journal of Applied Toxicology</i> , 2016 , 36, 752-68	4.1	46

105	A metabolomics cell-based approach for anticipating and investigating drug-induced liver injury. <i>Scientific Reports</i> , 2016 , 6, 27239	4.9	50
104	Human Upcyte Hepatocytes: Characterization of the Hepatic Phenotype and Evaluation for Acute and Long-Term Hepatotoxicity Routine Testing. <i>Toxicological Sciences</i> , 2016 , 152, 214-29	4.4	37
103	High-content screening of drug-induced mitochondrial impairment in hepatic cells: effects of statins. <i>Archives of Toxicology</i> , 2015 , 89, 1847-60	5.8	32
102	High-content screening technology for studying drug-induced hepatotoxicity in cell models. <i>Archives of Toxicology</i> , 2015 , 89, 1007-22	5.8	33
101	LC-MS untargeted metabolomic analysis of drug-induced hepatotoxicity in HepG2 cells. <i>Electrophoresis</i> , 2015 , 36, 2294-2302	3.6	25
100	Human neonatal hepatocyte transplantation induces long-term rescue of unconjugated hyperbilirubinemia in the Gunn rat. <i>Liver Transplantation</i> , 2015 , 21, 801-11	4.5	13
99	Repression of the nuclear receptor small heterodimer partner by steatotic drugs and in advanced nonalcoholic fatty liver disease. <i>Molecular Pharmacology</i> , 2015 , 87, 582-94	4.3	18
98	General Cytotoxicity Assessment by Means of the MTT Assay. <i>Methods in Molecular Biology</i> , 2015 , 1250, 333-48	1.4	82
97	Culture and Functional Characterization of Human Hepatoma HepG2 Cells. <i>Methods in Molecular Biology</i> , 2015 , 1250, 77-93	1.4	91
96	A simple transcriptomic signature able to predict drug-induced hepatic steatosis. <i>Archives of Toxicology</i> , 2014 , 88, 967-82	5.8	25
95	In vitro/in vivo screening of oxidative homeostasis and damage to DNA, protein, and lipids using UPLC/MS-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 5465-76	4.4	17
94	Ultra-performance liquid chromatography-mass spectrometry targeted profiling of bile acids: application to serum, liver tissue, and cultured cells of different species. <i>Methods in Molecular Biology</i> , 2014 , 1198, 233-47	1.4	6
93	Competency of different cell models to predict human hepatotoxic drugs. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2014 , 10, 1553-68	5.5	116
92	Metabolomics discloses donor liver biomarkers associated with early allograft dysfunction. <i>Journal of Hepatology</i> , 2014 , 61, 564-74	13.4	49
91	Neonatal livers: a source for the isolation of good-performing hepatocytes for cell transplantation. <i>Cell Transplantation</i> , 2014 , 23, 1229-42	4	36
90	Mangifera indica L. extract and mangiferin modulate cytochrome P450 and UDP-glucuronosyltransferase enzymes in primary cultures of human hepatocytes. <i>Phytotherapy Research</i> , 2013 , 27, 745-52	6.7	15
89	HepG2 cells simultaneously expressing five P450 enzymes for the screening of hepatotoxicity: identification of bioactivable drugs and the potential mechanism of toxicity involved. <i>Archives of Toxicology</i> , 2013 , 87, 1115-27	5.8	57
88	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

87	Multiparametric evaluation of the cytoprotective effect of the <i>Mangifera indica</i> L. stem bark extract and mangiferin in HepG2 cells. <i>Journal of Pharmacy and Pharmacology</i> , 2013 , 65, 1073-82	4.8	16
86	Mammalian cell metabolomics: experimental design and sample preparation. <i>Electrophoresis</i> , 2013 , 34, 2762-75	3.6	130
85	Fluorescence-based screening of cytochrome P450 activities in intact cells. <i>Methods in Molecular Biology</i> , 2013 , 987, 135-48	1.4	5
84	Hepatic cell lines for drug hepatotoxicity testing: limitations and strategies to upgrade their metabolic competence by gene engineering. <i>Current Drug Metabolism</i> , 2013 , 14, 946-68	3.5	55
83	Upgrading cytochrome P450 activity in HepG2 cells co-transfected with adenoviral vectors for drug hepatotoxicity assessment. <i>Toxicology in Vitro</i> , 2012 , 26, 1272-7	3.6	31
82	Evaluation of cytochrome P450 activities in human hepatocytes in vitro. <i>Methods in Molecular Biology</i> , 2012 , 806, 87-97	1.4	8
81	Modulation of biotransformation and elimination systems by BM-21, an aqueous ethanolic extract from <i>Thalassia testudinum</i> , and thalassiolin B on human hepatocytes. <i>Journal of Functional Foods</i> , 2012 , 4, 167-176	5.1	5
80	Targeted profiling of circulating and hepatic bile acids in human, mouse, and rat using a UPLC-MRM-MS-validated method. <i>Journal of Lipid Research</i> , 2012 , 53, 2231-2241	6.3	171
79	High-content imaging technology for the evaluation of drug-induced steatosis using a multiparametric cell-based assay. <i>Journal of Biomolecular Screening</i> , 2012 , 17, 394-400		53
78	Development of a multiparametric cell-based protocol to screen and classify the hepatotoxicity potential of drugs. <i>Toxicological Sciences</i> , 2012 , 127, 187-98	4.4	93
77	Drug-induced liver steatosis and phospholipidosis: cell-based assays for early screening of drug candidates. <i>Current Drug Metabolism</i> , 2012 , 13, 1160-73	3.5	35
76	A comprehensive untargeted metabolomic analysis of human steatotic liver tissue by RP and HILIC chromatography coupled to mass spectrometry reveals important metabolic alterations. <i>Journal of Proteome Research</i> , 2011 , 10, 4825-34	5.6	93
75	Influence of platelet lysate on the recovery and metabolic performance of cryopreserved human hepatocytes upon thawing. <i>Transplantation</i> , 2011 , 91, 1340-6	1.8	16
74	Steatotic liver: a suitable source for the isolation of hepatic progenitor cells. <i>Liver International</i> , 2011 , 31, 1231-8	7.9	10
73	In vitro evaluation of potential hepatotoxicity induced by drugs. <i>Current Pharmaceutical Design</i> , 2010 , 16, 1963-77	3.3	85
72	Mechanism-based selection of compounds for the development of innovative in vitro approaches to hepatotoxicity studies in the LIINTOP project. <i>Toxicology in Vitro</i> , 2010 , 24, 1879-89	3.6	26
71	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. <i>Drug Metabolism and Disposition</i> , 2010 , 38, 1449-55	4	24
70	Functional characterization of hepatocytes for cell transplantation: customized cell preparation for each receptor. <i>Cell Transplantation</i> , 2010 , 19, 21-8	4	29

69	Validated assay for studying activity profiles of human liver UGTs after drug exposure: inhibition and induction studies. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2251-63	4.4	55
68	The use of hepatocytes to investigate drug toxicity. <i>Methods in Molecular Biology</i> , 2010 , 640, 389-415	1.4	32
67	Cytometric analysis for drug-induced steatosis in HepG2 cells. <i>Chemico-Biological Interactions</i> , 2009 , 181, 417-23	5	59
66	Fluorescent benzofurazan-cholic acid conjugates for in vitro assessment of bile acid uptake and its modulation by drugs. <i>ChemMedChem</i> , 2009 , 4, 466-72	3.7	19
65	Inhibition of human P450 enzymes by natural extracts used in traditional medicine. <i>Phytotherapy Research</i> , 2009 , 23, 279-82	6.7	49
64	Synthesis of new, UV-photoactive dansyl derivatives for flow cytometric studies on bile acid uptake. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 4973-80	3.9	16
63	Cytochrome p450 and steatosis. <i>Current Drug Metabolism</i> , 2009 , 10, 692-9	3.5	27
62	Modulation of P450 enzymes by Cuban natural products rich in polyphenolic compounds in rat hepatocytes. <i>Chemico-Biological Interactions</i> , 2008 , 172, 1-10	5	24
61	The carcinoGENOMICS project: critical selection of model compounds for the development of omics-based in vitro carcinogenicity screening assays. <i>Mutation Research - Reviews in Mutation Research</i> , 2008 , 659, 202-10	7	50
60	Potential hepatoprotective effects of new Cuban natural products in rat hepatocytes culture. <i>Toxicology in Vitro</i> , 2008 , 22, 1242-9	3.6	40
59	Photophysical characterization and flow cytometry applications of cholylamidofluorescein, a fluorescent bile acid scaffold. <i>Photochemical and Photobiological Sciences</i> , 2008 , 7, 860-6	4.2	5
58	Strategies to in vitro assessment of major human CYP enzyme activities by using liquid chromatography tandem mass spectrometry. <i>Current Drug Metabolism</i> , 2008 , 9, 12-9	3.5	35
57	Cell lines: a tool for in vitro drug metabolism studies. <i>Current Drug Metabolism</i> , 2008 , 9, 1-11	3.5	216
56	Interactions of polyphenols with the P450 system: possible implications on human therapeutics. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008 , 8, 97-106	3.2	40
55	An update on metabolism studies using human hepatocytes in primary culture. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2008 , 4, 837-54	5.5	59
54	Identification of apoptotic drugs: multiparametric evaluation in cultured hepatocytes. <i>Current Medicinal Chemistry</i> , 2008 , 15, 2071-85	4.3	19
53	Functional assessment of the quality of human hepatocyte preparations for cell transplantation. <i>Cell Transplantation</i> , 2008 , 17, 1211-9	4	45
52	Assessment of cytochrome P450 induction in human hepatocytes using the cocktail strategy plus liquid chromatography tandem mass spectrometry. <i>Drug Metabolism Letters</i> , 2008 , 2, 205-9	2.1	22

51	Evaluation of drug-metabolizing and functional competence of human hepatocytes incubated under hypothermia in different media for clinical infusion. <i>Cell Transplantation</i> , 2008 , 17, 887-97	4	24
50	A new in vitro approach for the simultaneous determination of phase I and phase II enzymatic activities of human hepatocyte preparations. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 240-4 ²	4	21
49	Hepatocytes--the choice to investigate drug metabolism and toxicity in man: in vitro variability as a reflection of in vivo. <i>Chemico-Biological Interactions</i> , 2007 , 168, 30-50	5	112
48	A human hepatocellular in vitro model to investigate steatosis. <i>Chemico-Biological Interactions</i> , 2007 , 165, 106-16	5	333
47	Transcriptional regulation and expression of CYP3A4 in hepatocytes. <i>Current Drug Metabolism</i> , 2007 , 8, 185-94	3.5	106
46	Effects of steatosis on drug-metabolizing capability of primary human hepatocytes. <i>Toxicology in Vitro</i> , 2007 , 21, 271-6	3.6	39
45	Determination of major human cytochrome P450s activities in 96-well plates using liquid chromatography tandem mass spectrometry. <i>Toxicology in Vitro</i> , 2007 , 21, 1247-52	3.6	26
44	Effects of <i>Mangifera indica</i> L. aqueous extract (Vimang) on primary culture of rat hepatocytes. <i>Food and Chemical Toxicology</i> , 2007 , 45, 2506-12	4.7	28
43	In vitro ADME medium/high-throughput screening in drug preclinical development. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006 , 6, 1053-62	3.2	28
42	Cryopreservation of rat, dog and human hepatocytes: influence of preculture and cryoprotectants on recovery, cytochrome P450 activities and induction upon thawing. <i>Xenobiotica</i> , 2006 , 36, 457-72	2	41
41	Potential impact of steatosis on cytochrome P450 enzymes of human hepatocytes isolated from fatty liver grafts. <i>Drug Metabolism and Disposition</i> , 2006 , 34, 1556-62	4	105
40	Influence of preservation solution on the isolation and culture of human hepatocytes from liver grafts. <i>Cell Transplantation</i> , 2005 , 14, 837-43	4	18
39	Metabolism and bioactivation of toxicants in the lung. The in vitro cellular approach. <i>Experimental and Toxicologic Pathology</i> , 2005 , 57 Suppl 1, 189-204		175
38	Liver grafts preserved in Celsior solution as source of hepatocytes for drug metabolism studies: comparison with surgical liver biopsies. <i>Drug Metabolism and Disposition</i> , 2005 , 33, 108-14	4	14
37	Drug metabolism by cultured human hepatocytes: how far are we from the in vivo reality?. <i>ATLA Alternatives To Laboratory Animals</i> , 2004 , 32, 101-10	2.1	6
36	Human hepatocytes in primary culture: the choice to investigate drug metabolism in man. <i>Current Drug Metabolism</i> , 2004 , 5, 443-62	3.5	202
35	The immunosuppressant drug FK506 prevents Fas-induced apoptosis in human hepatocytes. <i>Biochemical Pharmacology</i> , 2004 , 68, 2427-33	6	25
34	Fluorescence-based assays for screening nine cytochrome P450 (P450) activities in intact cells expressing individual human P450 enzymes. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 699-706	4	181

33	Human hepatocytes as a tool for studying toxicity and drug metabolism. <i>Current Drug Metabolism</i> , 2003 , 4, 292-312	3.5	187
32	Diclofenac induces apoptosis in hepatocytes by alteration of mitochondrial function and generation of ROS. <i>Biochemical Pharmacology</i> , 2003 , 66, 2155-67	6	132
31	Strategies and molecular probes to investigate the role of cytochrome P450 in drug metabolism: focus on in vitro studies. <i>Clinical Pharmacokinetics</i> , 2003 , 42, 153-78	6.2	97
30	Constitutive and inducible expression of CYP enzymes in immortal hepatocytes derived from SV40 transgenic mice. <i>Xenobiotica</i> , 2003 , 33, 459-73	2	8
29	Functionality of cultured human hepatocytes from elective samples, cadaveric grafts and hepatectomies. <i>Toxicology in Vitro</i> , 2003 , 17, 769-74	3.6	28
28	Cytochrome P450 expression in human hepatocytes and hepatoma cell lines: molecular mechanisms that determine lower expression in cultured cells. <i>Xenobiotica</i> , 2002 , 32, 505-20	2	304
27	Establishment and characterization of immortal hepatocytes derived from various transgenic mouse lines. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 294, 864-71	3.4	13
26	Expression and induction of a large set of drug-metabolizing enzymes by the highly differentiated human hepatoma cell line BC2. <i>FEBS Journal</i> , 2001 , 268, 1448-59		57
25	Cytochrome P450 expression and related metabolism in human buccal mucosa. <i>Carcinogenesis</i> , 2001 , 22, 481-8	4.6	87
24	Role of endogenous nitric oxide in liver-specific functions and survival of cultured rat hepatocytes. <i>Xenobiotica</i> , 2001 , 31, 249-64	2	18
23	Cytochrome P-450 mRNA expression in human liver and its relationship with enzyme activity. <i>Archives of Biochemistry and Biophysics</i> , 2001 , 393, 308-15	4.1	113
22	New non-woven polyurethane-based biomaterials for the cultivation of hepatocytes: expression of differentiated functions. <i>Journal of Materials Science: Materials in Medicine</i> , 2000 , 11, 37-41	4.5	3
21	Characterization of drug metabolizing activities in pig hepatocytes for use in bioartificial liver devices: comparison with other hepatic cellular models. <i>Journal of Hepatology</i> , 1999 , 31, 542-9	13.4	102
20	The Coumarin 7-Hydroxylation Microassay in Living Hepatic Cells in Culture. <i>ATLA Alternatives To Laboratory Animals</i> , 1998 , 26, 213-223	2.1	4
19	Oncostatin M down-regulates basal and induced cytochromes P450 in human hepatocytes. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 1998 , 285, 127-34	4.7	33
18	The coumarin 7-hydroxylation microassay in living hepatic cells in culture. <i>ATLA Alternatives To Laboratory Animals</i> , 1998 , 26, 213-23	2.1	6
17	Comparison of rat hepatocyte and differentiated hepatoma cell line cultures as bio indicators of CYP 1A1 inducers in urban air. <i>Biomarkers</i> , 1997 , 2, 279-85	2.6	8
16	Adenovirus-mediated gene transfer into human hepatocytes: analysis of the biochemical functionality of transduced cells. <i>Gene Therapy</i> , 1997 , 4, 455-64	4	47

15	A specific microassay for evaluating hepatic LDH activity in co-cultures of hepatocytes with other cells. <i>Cytotechnology</i> , 1995 , 17, 45-52	2.2	
14	Effect of model inducers on cytochrome P450 activities of human hepatocytes in primary culture. <i>Drug Metabolism and Disposition</i> , 1995 , 23, 553-8	4	53
13	Cytochrome P450 activities in pure and co-cultured rat hepatocytes. Effects of model inducers. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1994 , 30A, 825-32	2.6	33
12	Evaluation of the xenobiotic biotransformation capability of six rodent hepatoma cell lines in comparison with rat hepatocytes. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1994 , 30A, 574-80	2.6	31
11	Inhibition of monooxygenase activities in human hepatocytes by interferons. <i>Toxicology in Vitro</i> , 1993 , 7, 481-5	3.6	21
10	A microassay for measuring cytochrome P450IA1 and P450IIB1 activities in intact human and rat hepatocytes cultured on 96-well plates. <i>Analytical Biochemistry</i> , 1993 , 213, 29-33	3.1	283
9	Toxicity of the antitumoral drug datelliptium in hepatic cells: Use of models in vitro for the prediction of toxicity in vivo. <i>Toxicology in Vitro</i> , 1992 , 6, 295-302	3.6	6
8	A rapid and sensitive method for measuring monooxygenase activities in hepatocytes cultured in 96-well plates. <i>Cytotechnology</i> , 1992 , 14, 153-157		18
7	Co-cultures of hepatocytes with epithelial-like cell lines: expression of drug-biotransformation activities by hepatocytes. <i>Cell Biology and Toxicology</i> , 1991 , 7, 1-14	7.4	53
6	Rat hepatocytes cultured on a monkey kidney cell line: Expression of biotransformation and hepatic metabolic activities. <i>Toxicology in Vitro</i> , 1991 , 5, 435-8	3.6	12
5	Culture of human hepatocytes from small surgical liver biopsies. Biochemical characterization and comparison with in vivo. <i>In Vitro Cellular & Developmental Biology</i> , 1990 , 26, 67-74		75
4	Drug metabolizing enzymes in rat hepatocytes co-cultured with cell lines. <i>In Vitro Cellular & Developmental Biology</i> , 1990 , 26, 1057-62		43
3	Prolonged expression of biotransformation activities of rat hepatocytes co-cultured with established cell lines. <i>Toxicology in Vitro</i> , 1990 , 4, 461-6	3.6	18
2	Effect of xenobiotics on monooxygenase activities in cultured human hepatocytes. <i>Biochemical Pharmacology</i> , 1990 , 39, 1321-6	6	45
1	The potential use of cultured hepatocytes in predicting the hepatotoxicity of xenobiotics. <i>Xenobiotica</i> , 1988 , 18, 725-35	2	33