

David C Hay

List of Publications by Year in Descending Order

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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.

94
papers

4,205
citations

33
h-index

64
g-index

126
ext. papers

4,724
ext. citations

6.2
avg, IF

5.24
L-index

#	Paper	IF	Citations
94	Human biliary epithelial cells from discarded donor livers rescue bile duct structure and function in a mouse model of biliary disease.. <i>Cell Stem Cell</i> , 2022 , 29, 355-371.e10	18	2
93	Nuclear factor programming improves stem-cell-derived hepatocyte phenotype.. <i>Cell Stem Cell</i> , 2022 , 29, 657-658	18	
92	Maternal over-the-counter analgesics use during pregnancy and adverse perinatal outcomes: cohort study of 151 141 singleton pregnancies.. <i>BMJ Open</i> , 2022 , 12, e048092	3	2
91	Serum-Free Production of Three-Dimensional Hepatospheres from Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2021 , 1	1.4	
90	Dimethyl fumarate reduces hepatocyte senescence following paracetamol exposure. <i>IScience</i> , 2021 , 24, 102552	6.1	2
89	Protocol for automated production of human stem cell derived liver spheres. <i>STAR Protocols</i> , 2021 , 2, 100502	1.4	5
88	Modeling human hepatic steatosis in pluripotent stem cell-derived hepatocytes. <i>STAR Protocols</i> , 2021 , 2, 100493	1.4	1
87	Over-the-counter analgesics during pregnancy: a comprehensive review of global prevalence and offspring safety. <i>Human Reproduction Update</i> , 2021 , 27, 67-95	15.8	11
86	Mathematical modelling of oxygen gradients in stem cell-derived liver tissue. <i>PLoS ONE</i> , 2021 , 16, e0244070	3.7	3
85	A human pluripotent stem cell model for the analysis of metabolic dysfunction in hepatic steatosis. <i>IScience</i> , 2021 , 24, 101931	6.1	6
84	Human PSC-Derived Hepatocytes Express Low Levels of Viral Pathogen Recognition Receptors, but Are Capable of Mounting an Effective Innate Immune Response. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
83	Liver stem cells 2020 , 723-736		
82	Hepatic Progenitor Specification from Pluripotent Stem Cells using a Defined Differentiation System. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	1
81	Development of a cost effective automated platform to produce human liver spheroids for basic and applied research. <i>Biofabrication</i> , 2020 ,	10.5	15
80	Inflammation-associated suppression of metabolic gene networks in acute and chronic liver disease. <i>Archives of Toxicology</i> , 2020 , 94, 205-217	5.8	15
79	Multomics Analyses of HNF4 β Protein Domain Function during Human Pluripotent Stem Cell Differentiation. <i>IScience</i> , 2019 , 16, 206-217	6.1	10
78	Blended electrospinning with human liver extracellular matrix for engineering new hepatic microenvironments. <i>Scientific Reports</i> , 2019 , 9, 6293	4.9	42

77	Serum Free Production of Three-dimensional Human Hepatospheres from Pluripotent Stem Cells. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	8
76	Metabolic control of gene transcription in non-alcoholic fatty liver disease: the role of the epigenome. <i>Clinical Epigenetics</i> , 2019 , 11, 104	7.7	16
75	Liver biopsy derived induced pluripotent stem cells provide unlimited supply for the generation of hepatocyte-like cells. <i>PLoS ONE</i> , 2019 , 14, e0221762	3.7	7
74	The Hippo Pathway Regulates Caveolae Expression and Mediates Flow Response via Caveolae. <i>Current Biology</i> , 2019 , 29, 242-255.e6	6.3	35
73	Combining stem cell-derived hepatocytes with impedance sensing to better predict human drug toxicity. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2019 , 15, 77-83	5.5	3
72	From scaffold to structure: the synthetic production of cell derived extracellular matrix for liver tissue engineering. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 065015	1.5	16
71	Semi-automated Production of Hepatocyte Like Cells from Pluripotent Stem Cells. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	8
70	3D human liver tissue from pluripotent stem cells displays stable phenotype in vitro and supports compromised liver function in vivo. <i>Archives of Toxicology</i> , 2018 , 92, 3117-3129	5.8	60
69	Liver cell therapy: is this the end of the beginning?. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 1307-1324	3.5	42
68	Quantification of ethyl glucuronide, ethyl sulfate, nicotine, and its metabolites in human fetal liver and placenta. <i>Forensic Toxicology</i> , 2018 , 36, 102-112	2.6	3
67	Science-based assessment of source materials for cell-based medicines: report of a stakeholders workshop. <i>Regenerative Medicine</i> , 2018 , 13, 935-944	2.5	10
66	Developing defined substrates for stem cell culture and differentiation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	28
65	Modelling non-alcoholic fatty liver disease in human hepatocyte-like cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	17
64	Innate immunity in stem cell-derived hepatocytes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	1
63	A human iPSC line capable of differentiating into functional macrophages expressing ZsGreen: a tool for the study and tracking of therapeutic cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	19
62	A Drug-Induced Hybrid Electrospun Poly-Capro-Lactone: Cell-Derived Extracellular Matrix Scaffold for Liver Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2017 , 23, 650-662	3.9	40
61	Modelling foetal exposure to maternal smoking using hepatoblasts from pluripotent stem cells. <i>Archives of Toxicology</i> , 2017 , 91, 3633-3643	5.8	17
60	Pluripotent Stem Cell-Derived Human Tissue: Platforms to Evaluate Drug Metabolism and Safety. <i>AAPS Journal</i> , 2017 , 20, 20	3.7	13

59	Defined and Scalable Generation of Hepatocyte-like Cells from Human Pluripotent Stem Cells. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	25
58	Distinct Gene Expression and Epigenetic Signatures in Hepatocyte-like Cells Produced by Different Strategies from the Same Donor. <i>Stem Cell Reports</i> , 2017 , 9, 1813-1824	8	24
57	Stem cell-derived models to improve mechanistic understanding and prediction of human drug-induced liver injury. <i>Hepatology</i> , 2017 , 65, 710-721	11.2	47
56	Reducing Hepatocyte Injury and Necrosis in Response to Paracetamol Using Noncoding RNAs. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 764-72	6.9	29
55	Low-Density Lipoprotein Uptake Demonstrates a Hepatocyte Phenotype in the Dog, but Is Nonspecific. <i>Stem Cells and Development</i> , 2016 , 25, 90-100	4.4	2
54	Fluid shear stress modulation of hepatocyte-like cell function. <i>Archives of Toxicology</i> , 2016 , 90, 1757-61	5.8	69
53	Pluripotent stem cell derived hepatocytes: using materials to define cellular differentiation and tissue engineering. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3433-3442	7.3	24
52	Stem cell-derived cardiomyocytes and hepatocytes as tools for drug development and screening applications 2016 , 171-192		1
51	Concise Review: Advances in Generating Hepatocytes from Pluripotent Stem Cells for Translational Medicine. <i>Stem Cells</i> , 2016 , 34, 1421-6	5.8	26
50	Hepatic progenitor cells of biliary origin with liver repopulation capacity. <i>Nature Cell Biology</i> , 2015 , 17, 971-983	23.4	287
49	Maternal Smoking Dysregulates Protein Expression in Second Trimester Human Fetal Livers in a Sex-Specific Manner. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, E861-70	5.6	22
48	Gene networks and transcription factor motifs defining the differentiation of stem cells into hepatocyte-like cells. <i>Journal of Hepatology</i> , 2015 , 63, 934-42	13.4	107
47	Galectin-3 regulates hepatic progenitor cell expansion during liver injury. <i>Gut</i> , 2015 , 64, 312-21	19.2	32
46	Polyurethane: Stable Cell Phenotype Requires Plasticity: Polymer Supported Directed Differentiation Reveals a Unique Gene Signature Predicting Stable Hepatocyte Performance (Adv. Healthcare Mater. 12/2015). <i>Advanced Healthcare Materials</i> , 2015 , 4, 1819	10.1	1
45	Recombinant Laminins Drive the Differentiation and Self-Organization of hESC-Derived Hepatocytes. <i>Stem Cell Reports</i> , 2015 , 5, 1250-1262	8	101
44	Polymer Supported Directed Differentiation Reveals a Unique Gene Signature Predicting Stable Hepatocyte Performance. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1820-5	10.1	18
43	Discovery of a Novel Polymer for Human Pluripotent Stem Cell Expansion and Multilineage Differentiation. <i>Advanced Materials</i> , 2015 , 27, 4006-12	24	64
42	Concise review: workshop review: understanding and assessing the risks of stem cell-based therapies. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 389-400	6.9	82

41	Serum-Free Directed Differentiation of Human Embryonic Stem Cells to Hepatocytes. <i>Methods in Molecular Biology</i> , 2015 , 1250, 105-11	1.4	16
40	Modulating innate immunity improves hepatitis C virus infection and replication in stem cell-derived hepatocytes. <i>Stem Cell Reports</i> , 2014 , 3, 204-14	8	38
39	Stabilizing hepatocellular phenotype using optimized synthetic surfaces. <i>Journal of Visualized Experiments</i> , 2014 , 51723	1.6	2
38	Accurate prediction of drug-induced liver injury using stem cell-derived populations. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 141-8	6.9	88
37	Deriving functional hepatocytes from pluripotent stem cells. <i>Current Protocols in Stem Cell Biology</i> , 2014 , 30, 1G.5.1-12	2.8	43
36	Development of an embryoid body-based screening strategy for assessing the hepatocyte differentiation potential of human embryonic stem cells following single-cell dissociation. <i>Cellular Reprogramming</i> , 2013 , 15, 9-14	2.1	8
35	Pluripotent stem cell-derived hepatocytes: potential and challenges in pharmacology. <i>Annual Review of Pharmacology and Toxicology</i> , 2013 , 53, 147-59	17.9	45
34	Modeling human liver biology using stem cell-derived hepatocytes. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 22011-21	6.3	6
33	Liver tissue engineering and cell sources: issues and challenges. <i>Liver International</i> , 2013 , 33, 666-76	7.9	89
32	Developing high-fidelity hepatotoxicity models from pluripotent stem cells. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 505-9	6.9	111
31	Identification and Application of Polymers as Biomaterials for Tissue Engineering and Regenerative Medicine 2012 , 1-30		3
30	Maintaining hepatic stem cell gene expression on biological and synthetic substrata. <i>BioResearch Open Access</i> , 2012 , 1, 50-3	2.4	7
29	Novel biopolymers to enhance endothelialisation of intra-vascular devices. <i>Advanced Healthcare Materials</i> , 2012 , 1, 646-56	10.1	20
28	Pluripotent Stem Cell Models in Human Drug Development 2012 , 455-459		
27	Stem Cell-Based Toxicity Screening. <i>Pharmaceutical Medicine</i> , 2012 , 26, 85-89	2.3	9
26	Stem cell differentiation and human liver disease. <i>World Journal of Gastroenterology</i> , 2012 , 18, 2018-25	5.6	12
25	SUMOylation of HNF4 α regulates protein stability and hepatocyte function. <i>Journal of Cell Science</i> , 2012 , 125, 4686-4686	5.3	2
24	SUMOylation of HNF4 α regulates protein stability and hepatocyte function. <i>Journal of Cell Science</i> , 2012 , 125, 3630-5	5.3	34

23	Robust generation of hepatocyte-like cells from human embryonic stem cell populations. <i>Journal of Visualized Experiments</i> , 2011 , e2969	1.6	16
22	Persistence of functional hepatocyte-like cells in immune-compromised mice. <i>Liver International</i> , 2011 , 31, 254-62	7.9	35
21	Unbiased screening of polymer libraries to define novel substrates for functional hepatocytes with inducible drug metabolism. <i>Stem Cell Research</i> , 2011 , 6, 92-102	1.6	87
20	The role of activin/nodal and Wnt signaling in endoderm formation. <i>Vitamins and Hormones</i> , 2011 , 85, 207-16	2.5	15
19	Lineage-specific distribution of high levels of genomic 5-hydroxymethylcytosine in mammalian development. <i>Cell Research</i> , 2011 , 21, 1332-42	24.7	161
18	Deriving Metabolically Active Hepatic Endoderm from Pluripotent Stem Cells. <i>Springer Protocols</i> , 2011 , 369-386	0.3	
17	Three-dimensional culture of human embryonic stem cell derived hepatic endoderm and its role in bioartificial liver construction. <i>Journal of Biomedicine and Biotechnology</i> , 2010 , 2010, 236147		26
16	Cadaveric hepatocytes repopulate diseased livers: life after death. <i>Gastroenterology</i> , 2010 , 139, 729-31	13.3	6
15	The comparison between conditioned media and serum-free media in human embryonic stem cell culture and differentiation. <i>Cellular Reprogramming</i> , 2010 , 12, 133-40	2.1	37
14	Hepatic endoderm differentiation from human embryonic stem cells. <i>Current Stem Cell Research and Therapy</i> , 2010 , 5, 233-44	3.6	10
13	Role of stem-cell-derived hepatic endoderm in human drug discovery. <i>Biochemical Society Transactions</i> , 2010 , 38, 1033-6	5.1	14
12	The effect of SUMO modification on hepatic differentiation from hESCs. <i>Toxicology</i> , 2010 , 278, 352	4.4	
11	Generation of functional human hepatic endoderm from human induced pluripotent stem cells. <i>Hepatology</i> , 2010 , 51, 329-35	11.2	347
10	Pluripotent stem cell derived hepatocyte like cells and their potential in toxicity screening. <i>Toxicology</i> , 2010 , 278, 250-5	4.4	58
9	Post-translational modification by SUMO. <i>Toxicology</i> , 2010 , 278, 288-93	4.4	91
8	Progress and future challenges in stem cell-derived liver technologies. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, G241-8	5.1	69
7	Highly efficient differentiation of hESCs to functional hepatic endoderm requires ActivinA and Wnt3a signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12301-6	11.5	358
6	The inhibitory role of stromal cell mesenchyme on human embryonic stem cell hepatocyte differentiation is overcome by Wnt3a treatment. <i>Cloning and Stem Cells</i> , 2008 , 10, 331-9		30

5	Efficient differentiation of hepatocytes from human embryonic stem cells exhibiting markers recapitulating liver development in vivo. <i>Stem Cells</i> , 2008 , 26, 894-902	5.8	335
4	Progenitor cell characterization and location in the developing human liver. <i>Stem Cells and Development</i> , 2007 , 16, 771-8	4.4	39
3	Direct differentiation of human embryonic stem cells to hepatocyte-like cells exhibiting functional activities. <i>Cloning and Stem Cells</i> , 2007 , 9, 51-62		139
2	Oct-4 knockdown induces similar patterns of endoderm and trophoblast differentiation markers in human and mouse embryonic stem cells. <i>Stem Cells</i> , 2004 , 22, 225-35	5.8	317
1	Interaction between hnRNPA1 and I κ B α is required for maximal activation of NF- κ B-dependent transcription. <i>Molecular and Cellular Biology</i> , 2001 , 21, 3482-90	4.8	47