

Katrin Zeilinger

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,915
citations

236925

25
h-index

254184

43
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all docs

45
docs citations

45
times ranked

2426
citing authors

#	ARTICLE	IF	CITATIONS
1	HepaRG human hepatic cell line utility as a surrogate for primary human hepatocytes in drug metabolism assessment in vitro. <i>Journal of Pharmacological and Toxicological Methods</i> , 2011, 63, 59-68.	0.7	182
2	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014, 31, 441-477.	1.5	166
3	Cell sources for <i>in vitro</i> human liver cell culture models. <i>Experimental Biology and Medicine</i> , 2016, 241, 1684-1698.	2.4	156
4	Extracorporeal liver support based on primary human liver cells and albumin dialysis – treatment of a patient with primary graft non-function. <i>Journal of Hepatology</i> , 2003, 39, 649-653.	3.7	103
5	Scaling Down of a Clinical Three-Dimensional Perfusion Multicompartment Hollow Fiber Liver Bioreactor Developed for Extracorporeal Liver Support to an Analytical Scale Device Useful for Hepatic Pharmacological In Vitro Studies. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 549-556.	2.1	101
6	Use of primary human liver cells originating from discarded grafts in a bioreactor for liver support therapy and the prospects of culturing adult liver stem cells in bioreactors: a morphologic study. <i>Transplantation</i> , 2003, 76, 781-786.	1.0	94
7	Featured Article: Isolation, characterization, and cultivation of human hepatocytes and non-parenchymal liver cells. <i>Experimental Biology and Medicine</i> , 2015, 240, 645-656.	2.4	82
8	Cytochrome P450-Dependent Metabolism in HepaRG Cells Cultured in a Dynamic Three-Dimensional Bioreactor. <i>Drug Metabolism and Disposition</i> , 2011, 39, 1131-1138.	3.3	68
9	Three-Dimensional Perfusion Bioreactor Culture Supports Differentiation of Human Fetal Liver Cells. <i>Tissue Engineering - Part A</i> , 2010, 16, 2007-2016.	3.1	63
10	Analysis of drug metabolism activities in a miniaturized liver cell bioreactor for use in pharmacological studies. <i>Biotechnology and Bioengineering</i> , 2012, 109, 3172-3181.	3.3	63
11	Time Course of Primary Liver Cell Reorganization in Three-Dimensional High-Density Bioreactors for Extracorporeal Liver Support: An Immunohistochemical and Ultrastructural Study. <i>Tissue Engineering</i> , 2004, 10, 1113-1124.	4.6	61
12	Three-dimensional Co-culture of Primary Human Liver Cells in Bioreactors for In Vitro Drug Studies: Effects of the Initial Cell Quality on the Long-term Maintenance of Hepatocyte-specific Functions. <i>ATLA Alternatives To Laboratory Animals</i> , 2002, 30, 525-538.	1.0	52
13	Compartmental Hollow Fiber Capillary Membrane-Based Bioreactor Technology for <i>In Vitro</i> Studies on Red Blood Cell Lineage Direction of Hematopoietic Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 133-142.	2.1	48
14	Protocol for Isolation of Primary Human Hepatocytes and Corresponding Major Populations of Non-parenchymal Liver Cells. <i>Journal of Visualized Experiments</i> , 2016, , e53069.	0.3	46
15	Bile canaliculi formation and biliary transport in 3D sandwich-cultured hepatocytes in dependence of the extracellular matrix composition. <i>Archives of Toxicology</i> , 2016, 90, 2497-2511.	4.2	46
16	Effect of human patient plasma ex vivo treatment on gene expression and progenitor cell activation of primary human liver cells in multi-compartment 3D perfusion bioreactors for extra-corporeal liver support. <i>Biotechnology and Bioengineering</i> , 2009, 103, 817-827.	3.3	43
17	Serum-free culture of primary human hepatocytes in a miniaturized hollow-fibre membrane bioreactor for pharmacological <i>in vitro</i> studies. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 1017-1026.	2.7	43
18	Hepatic Differentiation of Human Induced Pluripotent Stem Cells in a Perfused Three-Dimensional Multicompartment Bioreactor. <i>BioResearch Open Access</i> , 2016, 5, 235-248.	2.6	43

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19	Hepatic differentiation of human iPSCs in different 3D models: A comparative study. <i>International Journal of Molecular Medicine</i> , 2017, 40, 1759-1771.	4.0	39
20	Toward Preclinical Predictive Drug Testing for Metabolism and Hepatotoxicity by Using <i>In Vitro</i> Models Derived from Human Embryonic Stem Cells and Human Cell Lines – A Report on the Vitrocellomics EU-project. <i>ATLA Alternatives To Laboratory Animals</i> , 2011, 39, 147-171.	1.0	38
21	Self-assembled 3D spheroids and hollow-fibre bioreactors improve MSC-derived hepatocyte-like cell maturation in vitro. <i>Archives of Toxicology</i> , 2017, 91, 1815-1832.	4.2	38
22	In-depth physiological characterization of primary human hepatocytes in a 3D hollow-fiber bioreactor. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, e207-e218.	2.7	37
23	Evaluation and optimization of hepatocyte culture media factors by design of experiments (DoE) methodology. <i>Cytotechnology</i> , 2008, 57, 251-261.	1.6	35
24	Isolation and Characterization of Adult Human Liver Progenitors from Ischemic Liver Tissue Derived from Therapeutic Hepatectomies. <i>Tissue Engineering - Part A</i> , 2009, 15, 1633-1643.	3.1	35
25	Metabolism of remimazolam in primary human hepatocytes during continuous long-term infusion in a 3-D bioreactor system. <i>Drug Design, Development and Therapy</i> , 2019, Volume 13, 1033-1047.	4.3	30
26	Subtoxic Concentrations of Hepatotoxic Drugs Lead to Kupffer Cell Activation in a Human <i>In Vitro</i> Liver Model: An Approach to Study DILI. <i>Mediators of Inflammation</i> , 2015, 2015, 1-14.	3.0	29
27	Evaluation of Primary Human Liver Cells in Bioreactor Cultures for Extracorporeal Liver Support on the Basis of Urea Production. <i>Artificial Organs</i> , 2006, 30, 686-694.	1.9	25
28	Effects of Co-Culture Media on Hepatic Differentiation of hiPSC with or without HUVEC Co-Culture. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1724.	4.1	20
29	Lidocaine/Monoethylglycinexylidide Test, Galactose Elimination Test, and Sorbitol Elimination Test for Metabolic Assessment of Liver Cell Bioreactors. <i>Artificial Organs</i> , 2010, 34, 462-472.	1.9	19
30	In Vitro Model for Hepatotoxicity Studies Based on Primary Human Hepatocyte Cultivation in a Perfused 3D Bioreactor System. <i>International Journal of Molecular Sciences</i> , 2016, 17, 584.	4.1	19
31	Microscale 3D Liver Bioreactor for In Vitro Hepatotoxicity Testing under Perfusion Conditions. <i>Bioengineering</i> , 2018, 5, 24.	3.5	17
32	Effect of inoculum density on human-induced pluripotent stem cell expansion in 3D bioreactors. <i>Cell Proliferation</i> , 2019, 52, e12604.	5.3	14
33	The B-13 hepatocyte progenitor cell resists pluripotency induction and differentiation to non-hepatocyte cells. <i>Toxicology Research</i> , 2013, 2, 308.	2.1	12
34	Periodic harvesting of embryonic stem cells from a hollow-fiber membrane based four-compartment bioreactor. <i>Biotechnology Progress</i> , 2016, 32, 141-151.	2.6	10
35	The Cell Surface Glycome of Human Embryonic Stem Cells and Differentiated Hepatic Cells thereof. <i>ChemBioChem</i> , 2017, 18, 1234-1241.	2.6	9
36	Active Wound Dressing With Artificial Capillaries for Temporary Wound Irrigation and Skin Cell Supply. <i>Artificial Organs</i> , 2012, 36, 446-449.	1.9	6

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37	Feasibility study of an active wound dressing based on hollow fiber membranes in a porcine wound model. Burns, 2015, 41, 778-788.	1.9	6
38	Global Transcriptional Response of Human Liver Cells to Ethanol Stress of Different Strength Reveals Hormetic Behavior. Alcoholism: Clinical and Experimental Research, 2017, 41, 883-894.	2.4	4
39	Online measurement of oxygen enables continuous noninvasive evaluation of human-induced pluripotent stem cell (<i>hiPSC</i>) culture in a perfused 3D hollow-fiber bioreactor. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1203-1216.	2.7	4
40	Feasibility of using Sodium Chloride as a Tracer for the Characterization of the Distribution of Matter in Complex Multi-Compartment 3D Bioreactors for Stem Cell Culture. International Journal of Artificial Organs, 2010, 33, 399-404.	1.4	2
41	Cell therapeutic options in liver diseases: cell types, medical devices and regulatory issues. Journal of Materials Science: Materials in Medicine, 2011, 22, 1087-1099.	3.6	2
42	Dynamic Model of Amino Acid and Carbohydrate Metabolism in Primary Human Liver Cells. Lecture Notes in Computer Science, 2006, , 137-149.	1.3	2
43	A reduced stoichiometric model to describe metabolism in hepatocytes. , 2006, , .		0