

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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45
all docs

45
docs citations

45
times ranked

2426
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effect of inoculum density on human-induced pluripotent stem cell expansion in 3D bioreactors. Cell Proliferation, 2019, 52, e12604. | 5.3 | 14 |
| 2 | <p>Metabolism of remimazolam in primary human hepatocytes during continuous long-term infusion in a 3-D bioreactor system</p>. Drug Design, Development and Therapy, 2019, Volume 13, 1033-1047. | 4.3 | 30 |
| 3 | Online measurement of oxygen enables continuous noninvasive evaluation of human-induced pluripotent stem cell (<sc>hiPSC</sc>) culture in a perfused 3D hollow-fiber bioreactor. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1203-1216. | 2.7 | 4 |
| 4 | Microscale 3D Liver Bioreactor for In Vitro Hepatotoxicity Testing under Perfusion Conditions. Bioengineering, 2018, 5, 24. | 3.5 | 17 |
| 5 | 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 |
| 6 | The Cell-surface N-glycome of Human Embryonic Stem Cells and Differentiated Hepatic Cells thereof. ChemBioChem, 2017, 18, 1234-1241. | 2.6 | 9 |
| 7 | Hepatic differentiation of human iPSCs in different 3D models: A comparative study. International Journal of Molecular Medicine, 2017, 40, 1759-1771. | 4.0 | 39 |
| 8 | Self-assembled 3D spheroids and hollow-fibre bioreactors improve MSC-derived hepatocyte-like cell maturation in vitro. Archives of Toxicology, 2017, 91, 1815-1832. | 4.2 | 38 |
| 9 | Effects of Co-Culture Media on Hepatic Differentiation of hiPSC with or without HUVEC Co-Culture. International Journal of Molecular Sciences, 2017, 18, 1724. | 4.1 | 20 |
| 10 | In Vitro Model for Hepatotoxicity Studies Based on Primary Human Hepatocyte Cultivation in a Perfused 3D Bioreactor System. International Journal of Molecular Sciences, 2016, 17, 584. | 4.1 | 19 |
| 11 | Cell sources for <i>in vitro</i> human liver cell culture models. Experimental Biology and Medicine, 2016, 241, 1684-1698. | 2.4 | 156 |
| 12 | Periodic harvesting of embryonic stem cells from a hollow-fiber membrane based four-compartment bioreactor. Biotechnology Progress, 2016, 32, 141-151. | 2.6 | 10 |
| 13 | Hepatic Differentiation of Human Induced Pluripotent Stem Cells in a Perfused Three-Dimensional Multicompartment Bioreactor. BioResearch Open Access, 2016, 5, 235-248. | 2.6 | 43 |
| 14 | Protocol for Isolation of Primary Human Hepatocytes and Corresponding Major Populations of Non-parenchymal Liver Cells. Journal of Visualized Experiments, 2016, , e53069. | 0.3 | 46 |
| 15 | Bile canaliculi formation and biliary transport in 3D sandwich-cultured hepatocytes in dependence of the extracellular matrix composition. Archives of Toxicology, 2016, 90, 2497-2511. | 4.2 | 46 |
| 16 | Serum-free culture of primary human hepatocytes in a miniaturized hollow-fibre membrane bioreactor for pharmacological <i>in vitro</i> studies. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1017-1026. | 2.7 | 43 |
| 17 | Subtoxic Concentrations of Hepatotoxic Drugs Lead to Kupffer Cell Activation in a Human <i>In Vitro</i> Liver Model: An Approach to Study DILI. Mediators of Inflammation, 2015, 2015, 1-14. | 3.0 | 29 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 <i>In Vitro</i> Studies. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 549-556. | 2.1 | 101 |
| 26 | 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 |
| 27 | HepaRG human hepatic cell line utility as a surrogate for primary human hepatocytes in drug metabolism assessment <i>in vitro</i> . <i>Journal of Pharmacological and Toxicological Methods</i> , 2011, 63, 59-68. | 0.7 | 182 |
| 28 | Cell therapeutic options in liver diseases: cell types, medical devices and regulatory issues. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1087-1099. | 3.6 | 2 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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. <i>International Journal of Artificial Organs</i> , 2010, 33, 399-404. | 1.4 | 2 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Effect of human patient plasma <i>ex vivo</i> 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 |
| 36 | Evaluation and optimization of hepatocyte culture media factors by design of experiments (DoE) methodology. <i>Cytotechnology</i> , 2008, 57, 251-261. | 1.6 | 35 |

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|----|--|-----|-----------|
| 37 | A reduced stoichiometric model to describe metabolism in hepatocytes. , 2006, , . | | 0 |
| 38 | Evaluation of Primary Human Liver Cells in Bioreactor Cultures for Extracorporeal Liver Support on the Basis of Urea Production. Artificial Organs, 2006, 30, 686-694. | 1.9 | 25 |
| 39 | Dynamic Model of Amino Acid and Carbohydrate Metabolism in Primary Human Liver Cells. Lecture Notes in Computer Science, 2006, , 137-149. | 1.3 | 2 |
| 40 | Time Course of Primary Liver Cell Reorganization in Three-Dimensional High-Density Bioreactors for Extracorporeal Liver Support: An Immunohistochemical and Ultrastructural Study. Tissue Engineering, 2004, 10, 1113-1124. | 4.6 | 61 |
| 41 | Extracorporeal liver support based on primary human liver cells and albumin dialysis " treatment of a patient with primary graft non-function. Journal of Hepatology, 2003, 39, 649-653. | 3.7 | 103 |
| 42 | 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. Transplantation, 2003, 76, 781-786. | 1.0 | 94 |
| 43 | 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. ATLA Alternatives To Laboratory Animals, 2002, 30, 525-538. | 1.0 | 52 |