

Geraldine A Hamilton

List of Publications by Citations

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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.

26
papers

6,095
citations

21
h-index

26
g-index

26
ext. papers

7,108
ext. citations

11.3
avg, IF

5.58
L-index

#	Paper	IF	Citations
26	From 3D cell culture to organs-on-chips. <i>Trends in Cell Biology</i> , 2011 , 21, 745-54	18.3	1235
25	Comparative toxicity of trivalent and pentavalent inorganic and methylated arsenicals in rat and human cells. <i>Archives of Toxicology</i> , 2000 , 74, 289-99	5.8	787
24	A human disease model of drug toxicity-induced pulmonary edema in a lung-on-a-chip microdevice. <i>Science Translational Medicine</i> , 2012 , 4, 159ra147	17.5	624
23	Human kidney proximal tubule-on-a-chip for drug transport and nephrotoxicity assessment. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 1119-29	3.7	514
22	Microengineered physiological biomimicry: organs-on-chips. <i>Lab on A Chip</i> , 2012 , 12, 2156-64	7.2	505
21	Microfabrication of human organs-on-chips. <i>Nature Protocols</i> , 2013 , 8, 2135-57	18.8	441
20	Small airway-on-a-chip enables analysis of human lung inflammation and drug responses in vitro. <i>Nature Methods</i> , 2016 , 13, 151-7	21.6	426
19	Engineered in vitro disease models. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2015 , 10, 195-264	9.4	373
18	Regulation of cell morphology and cytochrome P450 expression in human hepatocytes by extracellular matrix and cell-cell interactions. <i>Cell and Tissue Research</i> , 2001 , 306, 85-99	4.2	165
17	Reproducing human and cross-species drug toxicities using a Liver-Chip. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	161
16	Robotic fluidic coupling and interrogation of multiple vascularized organ chips. <i>Nature Biomedical Engineering</i> , 2020 , 4, 407-420	19	150
15	Metabolism of arsenic in primary cultures of human and rat hepatocytes. <i>Chemical Research in Toxicology</i> , 1999 , 12, 560-5	4	118
14	Human iPSC-Derived Endothelial Cells and Microengineered Organ-Chip Enhance Neuronal Development. <i>Stem Cell Reports</i> , 2018 , 10, 1222-1236	8	89
13	Duodenum Intestine-Chip for preclinical drug assessment in a human relevant model. <i>ELife</i> , 2020 , 9,	8.9	85
12	Application of Microphysiological Systems to Enhance Safety Assessment in Drug Discovery. <i>Annual Review of Pharmacology and Toxicology</i> , 2018 , 58, 65-82	17.9	83
11	Assessment of whole blood thrombosis in a microfluidic device lined by fixed human endothelium. <i>Biomedical Microdevices</i> , 2016 , 18, 73	3.7	80
10	Biology-inspired microphysiological systems to advance patient benefit and animal welfare in drug development. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020 , 37, 365-394	4.3	66

9	Integrated in vitro models for hepatic safety and metabolism: evaluation of a human Liver-Chip and liver spheroid. <i>Archives of Toxicology</i> , 2019 , 93, 1021-1037	5.8	54
8	Introducing an automated high content confocal imaging approach for Organs-on-Chips. <i>Lab on A Chip</i> , 2019 , 19, 410-421	7.2	50
7	Latent progenitor cells as potential regulators for tympanic membrane regeneration. <i>Scientific Reports</i> , 2015 , 5, 11542	4.9	29
6	Artificial Slanted Nanocilia Array as a Mechanotransducer for Controlling Cell Polarity. <i>ACS Nano</i> , 2017 , 11, 730-741	16.7	21
5	Modeling alpha-synuclein pathology in a human brain-chip to assess blood-brain barrier disruption. <i>Nature Communications</i> , 2021 , 12, 5907	17.4	14
4	Organs-on-Chips in Clinical Pharmacology: Putting the Patient Into the Center of Treatment Selection and Drug Development. <i>Clinical Pharmacology and Therapeutics</i> , 2020 , 107, 181-185	6.1	12
3	A novel organ-chip system emulates three-dimensional architecture of the human epithelia and the mechanical forces acting on it. <i>Biomaterials</i> , 2021 , 275, 120957	15.6	7
2	Topographical extracellular matrix cues on anticancer drug-induced cytotoxicity in stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1320-7	3.5	6
1	Chapter 2:Kidney on a Chip. <i>RSC Nanoscience and Nanotechnology</i> , 2014 , 19-39		