

# Geraldine A Hamilton

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1375802/geraldine-a-hamilton-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Modeling alpha-synuclein pathology in a human brain-chip to assess blood-brain barrier disruption. <i>Nature Communications</i> , <b>2021</b> , 12, 5907	17.4	14
25	A novel organ-chip system emulates three-dimensional architecture of the human epithelia and the mechanical forces acting on it. <i>Biomaterials</i> , <b>2021</b> , 275, 120957	15.6	7
24	Biology-inspired microphysiological systems to advance patient benefit and animal welfare in drug development. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2020</b> , 37, 365-394	4.3	66
23	Duodenum Intestine-Chip for preclinical drug assessment in a human relevant model. <i>ELife</i> , <b>2020</b> , 9,	8.9	85
22	Robotic fluidic coupling and interrogation of multiple vascularized organ chips. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 407-420	19	150
21	Organs-on-Chips in Clinical Pharmacology: Putting the Patient Into the Center of Treatment Selection and Drug Development. <i>Clinical Pharmacology and Therapeutics</i> , <b>2020</b> , 107, 181-185	6.1	12
20	Introducing an automated high content confocal imaging approach for Organs-on-Chips. <i>Lab on A Chip</i> , <b>2019</b> , 19, 410-421	7.2	50
19	Integrated in vitro models for hepatic safety and metabolism: evaluation of a human Liver-Chip and liver spheroid. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 1021-1037	5.8	54
18	Reproducing human and cross-species drug toxicities using a Liver-Chip. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	161
17	Human iPSC-Derived Endothelial Cells and Microengineered Organ-Chip Enhance Neuronal Development. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 1222-1236	8	89
16	Application of Microphysiological Systems to Enhance Safety Assessment in Drug Discovery. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2018</b> , 58, 65-82	17.9	83
15	Artificial Slanted Nanocilia Array as a Mechanotransducer for Controlling Cell Polarity. <i>ACS Nano</i> , <b>2017</b> , 11, 730-741	16.7	21
14	Small airway-on-a-chip enables analysis of human lung inflammation and drug responses in vitro. <i>Nature Methods</i> , <b>2016</b> , 13, 151-7	21.6	426
13	Assessment of whole blood thrombosis in a microfluidic device lined by fixed human endothelium. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 73	3.7	80
12	Latent progenitor cells as potential regulators for tympanic membrane regeneration. <i>Scientific Reports</i> , <b>2015</b> , 5, 11542	4.9	29
11	Topographical extracellular matrix cues on anticancer drug-induced cytotoxicity in stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 1320-7	3.5	6
10	Engineered in vitro disease models. <i>Annual Review of Pathology: Mechanisms of Disease</i> , <b>2015</b> , 10, 195-264	9.4	373

9	Chapter 2:Kidney on a Chip. <i>RSC Nanoscience and Nanotechnology</i> , <b>2014</b> , 19-39		
8	Microfabrication of human organs-on-chips. <i>Nature Protocols</i> , <b>2013</b> , 8, 2135-57	18.8	441
7	Human kidney proximal tubule-on-a-chip for drug transport and nephrotoxicity assessment. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 1119-29	3.7	514
6	A human disease model of drug toxicity-induced pulmonary edema in a lung-on-a-chip microdevice. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 159ra147	17.5	624
5	Microengineered physiological biomimicry: organs-on-chips. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2156-64	7.2	505
4	From 3D cell culture to organs-on-chips. <i>Trends in Cell Biology</i> , <b>2011</b> , 21, 745-54	18.3	1235
3	Regulation of cell morphology and cytochrome P450 expression in human hepatocytes by extracellular matrix and cell-cell interactions. <i>Cell and Tissue Research</i> , <b>2001</b> , 306, 85-99	4.2	165
2	Comparative toxicity of trivalent and pentavalent inorganic and methylated arsenicals in rat and human cells. <i>Archives of Toxicology</i> , <b>2000</b> , 74, 289-99	5.8	787
1	Metabolism of arsenic in primary cultures of human and rat hepatocytes. <i>Chemical Research in Toxicology</i> , <b>1999</b> , 12, 560-5	4	118