Helena T Hogberg

List of Publications by Year
in descending order

53 papers	3,467 citations	136740 32 h-index	168136 53 g-index
54 all docs	54 docs citations	54 times ranked	4356 citing authors

#	Article	IF	Citations
1	A human brain microphysiological system derived from induced pluripotent stem cells to study neurological diseases and toxicity. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 362-376.	0.9	195
2	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 441-477.	0.9	166
3	Metabolomics in toxicology and preclinical research. ALTEX: Alternatives To Animal Experimentation, 2013, 30, 209-225.	0.9	164
4	Review: Toxicometabolomics. Journal of Applied Toxicology, 2013, 33, 1365-1383.	1.4	148
5	International STakeholder NETwork (ISTNET): creating a developmental neurotoxicity (DNT) testing road map for regulatory purposes. Archives of Toxicology, 2015, 89, 269-287.	1.9	130
6	Application of micro-electrode arrays (MEAs) as an emerging technology for developmental neurotoxicity: Evaluation of domoic acid-induced effects in primary cultures of rat cortical neurons. NeuroToxicology, 2011, 32, 158-168.	1.4	123
7	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 365-394.	0.9	123
8	Recommendation on test readiness criteria for new approach methods in toxicology: Exemplified for developmental neurotoxicity. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 306-352.	0.9	121
9	Brain-on-a-chip model enables analysis of human neuronal differentiation and chemotaxis. Lab on A Chip, 2016, 16, 4152-4162.	3.1	119
10	A Human Stem Cell-Based Model for Identifying Adverse Effects of Organic and Inorganic Chemicals on the Developing Nervous System. Stem Cells, 2009, 27, 2591-2601.	1.4	116
11	Infectability of Human BrainSphere Neurons Suggests Neurotropism of SARS-CoV-2*. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 665-671.	0.9	112
12	Developmental neurotoxicity â€“ Challenges in the 21st Century and In Vitro Opportunities. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 129-56.	0.9	103
13	Biological and medical applications of a brain-on-a-chip. Experimental Biology and Medicine, 2014, 239, 1096-1107.	1.1	103
14	Rotenone exerts developmental neurotoxicity in a human brain spheroid model. Toxicology and Applied Pharmacology, 2018, 354, 101-114.	1.3	102
15	In vitro developmental neurotoxicity (DNT) testing: Relevant models and endpoints. NeuroToxicology, 2010, 31, 545-554.	1.4	97
16	Reference compounds for alternative test methods to indicate developmental neurotoxicity (DNT) potential of chemicals: example lists and criteria for their selection and use. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 49-74.	0.9	94
17	mRNA Expression is a Relevant Tool to Identify Developmental Neurotoxicants Using an In Vitro Approach. Toxicological Sciences, 2010, 113, 95-115.	1.4	91
18	A LUHMES 3D dopaminergic neuronal model for neurotoxicity testing allowing long-term exposure and cellular resilience analysis. Archives of Toxicology, 2016, 90, 2725-2743.	1.9	90

#	ARTICLE	IF	CITATIONS
19	Consensus statement on the need for innovation, transition and implementation of developmental neurotoxicity (DNT) testing for regulatory purposes. Toxicology and Applied Pharmacology, 2018, 354, 3-6.	1.3	90
20	Relevance of in vitro neurotoxicity testing for regulatory requirements: Challenges to be considered. Neurotoxicology and Teratology, 2010, 32, 36-41.	1.2	89
21	Microglia Increase Inflammatory Responses in iPSC-Derived Human BrainSpheres. Frontiers in Microbiology, 2018, 9, 2766.	1.5	88
22	Pathways of Toxicity. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 53-61.	0.9	75
23	Gene expression as a sensitive endpoint to evaluate cell differentiation and maturation of the developing central nervous system in primary cultures of rat cerebellar granule cells (CGCs) exposed to pesticides. Toxicology and Applied Pharmacology, 2009, 235, 268-286.	1.3	71
24	Toward a 3D model of human brain development for studying gene/environment interactions. Stem Cell Research and Therapy, 2013, 4, S4.	2.4	68
25	Suitability of 3D human brain spheroid models to distinguish toxic effects of gold and poly-lactic acid nanoparticles to assess biocompatibility for brain drug delivery. Particle and Fibre Toxicology, 2019, 16, 22.	2.8	67
26	Î²₁-Adrenergic receptors increase UCP1 in human MADS brown adipocytes and rescue cold-acclimated Î²₃-adrenergic receptor-knockout mice via nonshivering thermogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E1108-E1118.	1.8	55
27	Beyond Cholinesterase Inhibition: Developmental Neurotoxicity of Organophosphate Ester Flame Retardants and Plasticizers. Environmental Health Perspectives, 2021, 129, 105001.	2.8	54
28	Characterization of three human cell line models for highâ€throughput neuronal cytotoxicity screening. Journal of Applied Toxicology, 2017, 37, 167-180.	1.4	49
29	Antidepressant Paroxetine Exerts Developmental Neurotoxicity in an iPSC-Derived 3D Human Brain Model. Frontiers in Cellular Neuroscience, 2020, 14, 25.	1.8	47
30	Toward good in vitro reporting standards. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 3-17.	0.9	46
31	Mapping the Human Toxome by Systems Toxicology. Basic and Clinical Pharmacology and Toxicology, 2014, 115, 24-31.	1.2	41
32	Geneâ€"Environment Interactions in Developmental Neurotoxicity: a Case Study of Synergy between Chlorpyrifos and CHD8 Knockout in Human BrainSpheres. Environmental Health Perspectives, 2021, 129, 77001.	2.8	41
33	Metabolomics Reveals Metabolic Alterations by Intrauterine Growth Restriction in the Fetal Rabbit Brain. PLoS ONE, 2013, 8, e64545.	1.1	40
34	Organophosphorus flame retardants are developmental neurotoxicants in a rat primary brainsphere in vitro model. Archives of Toxicology, 2021, 95, 207-228.	1.9	35
35	Temperature Dependence of O₂ Consumption; Opposite Effects of Leptin and Etomoxir on Respiratory Quotient in Mice. Obesity, 2006, 14, 673-682.	1.5	34
36	Advances in 3D neuronal microphysiological systems: towards a functional nervous system on a chip. In Vitro Cellular and Developmental Biology - Animal, 2021, 57, 191-206.	0.7	30

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37	Quality assurance of metabolomics. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 319-326.	0.9	30
38	Human IPSC-Derived Model to Study Myelin Disruption. International Journal of Molecular Sciences, 2021, 22, 9473.	1.8	28
39	Toxicity, recovery, and resilience in a 3D dopaminergic neuronal in vitro model exposed to rotenone. Archives of Toxicology, 2018, 92, 2587-2606.	1.9	27
40	Domoic Acid-Induced Neurotoxicity Is Mainly Mediated by the AMPA/KA Receptor: Comparison between Immature and Mature Primary Cultures of Neurons and Glial Cells from Rat Cerebellum. Journal of Toxicology, 2011, 2011, 1-14.	1.4	24
41	3D Differentiation of LUHMES Cell Line to Study Recovery and Delayed Neurotoxic Effects. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2017, 73, 11.23.1-11.23.28.	1.1	21
42	Nanotoxicology: â€œthe end of the beginningâ€•â€" Signs on the roadmap to a strategy for assuring the safe application and use of nanomaterials. ALTEX: Alternatives To Animal Experimentation, 2011, 28, 236-241.	0.9	18
43	Guidance document on Good Cell and Tissue Culture Practice 2.0 (GCCP 2.0). ALTEX: Alternatives To Animal Experimentation, 2021, , .	0.9	18
44	Human Oligodendrocytes and Myelin In Vitro to Evaluate Developmental Neurotoxicity. International Journal of Molecular Sciences, 2021, 22, 7929.	1.8	17
45	Explosive Blast Loading on Human 3D Aggregate Minibrains. Cellular and Molecular Neurobiology, 2017, 37, 1331-1334.	1.7	12
46	The Future of 3D Brain Cultures in Developmental Neurotoxicity Testing. Frontiers in Toxicology, 2022, 4, 808620.	1.6	12
47	Human IPSC 3D brain model as a tool to study chemical-induced dopaminergic neuronal toxicity. Neurobiology of Disease, 2022, 169, 105719.	2.1	12
48	COVID-19 through Adverse Outcome Pathways: Building networks to better understand the disease â€" 3rd CIAO AOP Design Workshop. ALTEX: Alternatives To Animal Experimentation, 2022, , .	0.9	9
49	A human-derived 3D brain organoid model to study JC virus infection. Journal of NeuroVirology, 2022, 28, 17-26.	1.0	9
50	COVID-19 â€" prime time for microphysiological systems, as illustrated for the brain. ALTEX: Alternatives To Animal Experimentation, 2021, 38, 535-549.	0.9	6
51	The future of Parkinsonâ€™s disease research: A new paradigm of human-specific investigation is necessaryâ€¦ and possible. ALTEX: Alternatives To Animal Experimentation, 2022, , .	0.9	4
52	In Vitro Developmental Neurotoxicity Testing: Relevant Models and Endpoints. Methods in Pharmacology and Toxicology, 2014, , 125-146.	0.1	1
53	Quantification of Oligodendrocytes and Myelin in Human iPSC-Derived 3D Brain Cell Cultures (BrainSpheres). Neuromethods, 2021, , 459-471.	0.2	0