Lena Smirnova

List of Publications by Year in descending order

35 papers	3,326 citations	236612 25 h-index	360668 35 g-index
37 all docs	37 docs citations	37 times ranked	5353 citing authors

#	Article	IF	Citations
1	The Future of 3D Brain Cultures in Developmental Neurotoxicity Testing. Frontiers in Toxicology, 2022, 4, 808620.	1.6	12
2	Human IPSC 3D brain model as a tool to study chemical-induced dopaminergic neuronal toxicity. Neurobiology of Disease, 2022, 169, 105719.	2.1	12
3	Advances in Animal Models and Cutting-Edge Research in Alternatives: Proceedings of the Second International Conference on 3Rs Research and Progress, Hyderabad, 2021. ATLA Alternatives To Laboratory Animals, 2022, , 026119292210892.	0.7	4
4	Quality criteria for in vitro human pluripotent stem cell-derived models of tissue-based cells. Reproductive Toxicology, 2022, 112, 36-50.	1.3	2
5	Organophosphorus flame retardants are developmental neurotoxicants in a rat primary brainsphere in vitro model. Archives of Toxicology, 2021, 95, 207-228.	1.9	35
6	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
7	Human IPSC-Derived Model to Study Myelin Disruption. International Journal of Molecular Sciences, 2021, 22, 9473.	1.8	28
8	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
9	Effect of sub-chronic exposure to cigarette smoke, electronic cigarette and waterpipe on human lung epithelial barrier function. BMC Pulmonary Medicine, 2020, 20, 216.	0.8	28
10	Antidepressant Paroxetine Exerts Developmental Neurotoxicity in an iPSC-Derived 3D Human Brain Model. Frontiers in Cellular Neuroscience, 2020, 14, 25.	1.8	47
11	The exposome â€“ a new approach for risk assessment. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 3-23.	0.9	45
12	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
13	Infectability of Human BrainSphere Neurons Suggests Neurotropism of SARS-CoV-2*. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 665-671.	0.9	112
14	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
15	Toward good in vitro reporting standards. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 3-17.	0.9	46
16	Rotenone exerts developmental neurotoxicity in a human brain spheroid model. Toxicology and Applied Pharmacology, 2018, 354, 101-114.	1.3	102
17	Stage-specific metabolic features of differentiating neurons: Implications for toxicant sensitivity. Toxicology and Applied Pharmacology, 2018, 354, 64-80.	1.3	29
18	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

#	Article	IF	Citations
19	3S - Systematic, systemic, and systems biology and toxicology. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 139-162.	0.9	50
20	Animal testing and its alternatives â€“ the most important omics is economics. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 275-305.	0.9	105
21	Characterization of three human cell line models for highâ€throughput neuronal cytotoxicity screening. Journal of Applied Toxicology, 2017, 37, 167-180.	1.4	49
22	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
23	In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. Archives of Toxicology, 2017, 91, 1-33.	1.9	132
24	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
25	Quality assurance of metabolomics. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 319-326.	0.9	30
26	Cellular resilience. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 247-260.	0.9	46
27	MicroRNA Profiling as Tool for In Vitro Developmental Neurotoxicity Testing: The Case of Sodium Valproate. PLoS ONE, 2014, 9, e98892.	1.1	27
28	Developmental neurotoxicity â€“ Challenges in the 21st Century and In Vitro Opportunities. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 129-56.	0.9	103
29	Pathways of Toxicity. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 53-61.	0.9	75
30	Toward a 3D model of human brain development for studying gene/environment interactions. Stem Cell Research and Therapy, 2013, 4, S4.	2.4	68
31	Metabolomics in toxicology and preclinical research. ALTEX: Alternatives To Animal Experimentation, 2013, 30, 209-225.	0.9	164
32	The let-7 target gene mouse lin-41 is a stem cell specific E3 ubiquitin ligase for the miRNA pathway protein Ago2. Nature Cell Biology, 2009, 11, 1411-1420.	4.6	211
33	A feedback loop comprising lin-28 and let-7 controls pre-let-7 maturation during neural stem-cell commitment. Nature Cell Biology, 2008, 10, 987-993.	4.6	736
34	Cancer-Associated Alteration in Fatty Acid Binding to Albumin Studied by Spin-Label Electron Spin Resonance. Cancer Investigation, 2007, 25, 378-383.	0.6	16
35	Regulation of miRNA expression during neural cell specification. European Journal of Neuroscience, 2005, 21, 1469-1477.	1.2	637