Lena Smirnova

List of Publications by Year
in descending order

35	3,326	236925	361022
papers	citations	25 h-index	35 g-index

37	37	37	5353
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	10.3	736
2	Regulation of miRNA expression during neural cell specification. European Journal of Neuroscience, 2005, 21, 1469-1477.	2.6	637
3	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.	10.3	211
4	Metabolomics in toxicology and preclinical research. ALTEX: Alternatives To Animal Experimentation, 2013, 30, 209-225.	1.5	164
5	In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. Archives of Toxicology, 2017, 91, 1-33.	4.2	132
6	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 365-394.	1.5	123
7	Infectability of Human BrainSphere Neurons Suggests Neurotropism of SARS-CoV-2*. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 665-671.	1.5	112
8	Animal testing and its alternatives â€“ the most important omics is economics. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 275-305.	1.5	105
9	Developmental neurotoxicity â€“ Challenges in the 21st Century and In Vitro Opportunities. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 129-56.	1.5	103
10	Rotenone exerts developmental neurotoxicity in a human brain spheroid model. Toxicology and Applied Pharmacology, 2018, 354, 101-114.	2.8	102
11	A LUHMES 3D dopaminergic neuronal model for neurotoxicity testing allowing long-term exposure and cellular resilience analysis. Archives of Toxicology, 2016, 90, 2725-2743.	4.2	90
12	Pathways of Toxicity. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 53-61.	1.5	75
13	Toward a 3D model of human brain development for studying gene/environment interactions. Stem Cell Research and Therapy, 2013, 4, S4.	5.5	68
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.	6.2	67
15	3S - Systematic, systemic, and systems biology and toxicology. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 139-162.	1.5	50
16	Characterization of three human cell line models for highâ€throughput neuronal cytotoxicity screening. Journal of Applied Toxicology, 2017, 37, 167-180.	2.8	49
17	Antidepressant Paroxetine Exerts Developmental Neurotoxicity in an iPSC-Derived 3D Human Brain Model. Frontiers in Cellular Neuroscience, 2020, 14, 25.	3.7	47
18	Cellular resilience. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 247-260.	1.5	46

#	Article	IF	Citations
19	Toward good in vitro reporting standards. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 3-17.	1.5	46
20	The exposome â€“ a new approach for risk assessment. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 3-23.	1.5	45
21	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.	6.0	41
22	Organophosphorus flame retardants are developmental neurotoxicants in a rat primary brainsphere in vitro model. Archives of Toxicology, 2021, 95, 207-228.	4.2	35
23	Quality assurance of metabolomics. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 319-326.	1.5	30
24	Stage-specific metabolic features of differentiating neurons: Implications for toxicant sensitivity. Toxicology and Applied Pharmacology, 2018, 354, 64-80.	2.8	29
25	Effect of sub-chronic exposure to cigarette smoke, electronic cigarette and waterpipe on human lung epithelial barrier function. BMC Pulmonary Medicine, 2020, 20, 216.	2.0	28
26	Human IPSC-Derived Model to Study Myelin Disruption. International Journal of Molecular Sciences, 2021, 22, 9473.	4.1	28
27	MicroRNA Profiling as Tool for In Vitro Developmental Neurotoxicity Testing: The Case of Sodium Valproate. PLoS ONE, 2014, 9, e98892.	2.5	27
28	Toxicity, recovery, and resilience in a 3D dopaminergic neuronal in vitro model exposed to rotenone. Archives of Toxicology, 2018, 92, 2587-2606.	4.2	27
29	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
30	Cancer-Associated Alteration in Fatty Acid Binding to Albumin Studied by Spin-Label Electron Spin Resonance. Cancer Investigation, 2007, 25, 378-383.	1.3	16
31	The Future of 3D Brain Cultures in Developmental Neurotoxicity Testing. Frontiers in Toxicology, 2022, 4, 808620.	3.1	12
32	Human IPSC 3D brain model as a tool to study chemical-induced dopaminergic neuronal toxicity. Neurobiology of Disease, 2022, 169, 105719.	4.4	12
33	COVID-19 â€“ prime time for microphysiological systems, as illustrated for the brain. ALTEX: Alternatives To Animal Experimentation, 2021, 38, 535-549.	1.5	6
34	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.	1.0	4
35	Quality criteria for in vitro human pluripotent stem cell-derived models of tissue-based cells. Reproductive Toxicology, 2022, 112, 36-50.	2.9	2