

Lena Smirnova

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

3,326
citations

236612

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360668

35
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37
docs citations

37
times ranked

5353
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. <i>Nature Cell Biology</i> , 2008, 10, 987-993.	4.6	736
2	Regulation of miRNA expression during neural cell specification. <i>European Journal of Neuroscience</i> , 2005, 21, 1469-1477.	1.2	637
3	The let-7 target gene mouse lin-41 is a stem cell specific E3 ubiquitin ligase for the miRNA pathway protein Ago2. <i>Nature Cell Biology</i> , 2009, 11, 1411-1420.	4.6	211
4	Metabolomics in toxicology and preclinical research. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013, 30, 209-225.	0.9	164
5	In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. <i>Archives of Toxicology</i> , 2017, 91, 1-33.	1.9	132
6	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020, 37, 365-394.	0.9	123
7	Infectability of Human BrainSphere Neurons Suggests Neurotropism of SARS-CoV-2*. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020, 37, 665-671.	0.9	112
8	Animal testing and its alternatives – the most important omics is economics. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 275-305.	0.9	105
9	Developmental neurotoxicity – Challenges in the 21st Century and In Vitro Opportunities. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014, 31, 129-56.	0.9	103
10	Rotenone exerts developmental neurotoxicity in a human brain spheroid model. <i>Toxicology and Applied Pharmacology</i> , 2018, 354, 101-114.	1.3	102
11	A LUHMES 3D dopaminergic neuronal model for neurotoxicity testing allowing long-term exposure and cellular resilience analysis. <i>Archives of Toxicology</i> , 2016, 90, 2725-2743.	1.9	90
12	Pathways of Toxicity. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014, 31, 53-61.	0.9	75
13	Toward a 3D model of human brain development for studying gene/environment interactions. <i>Stem Cell Research and Therapy</i> , 2013, 4, S4.	2.4	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. <i>Particle and Fibre Toxicology</i> , 2019, 16, 22.	2.8	67
15	3S - Systematic, systemic, and systems biology and toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 139-162.	0.9	50
16	Characterization of three human cell line models for high-throughput neuronal cytotoxicity screening. <i>Journal of Applied Toxicology</i> , 2017, 37, 167-180.	1.4	49
17	Antidepressant Paroxetine Exerts Developmental Neurotoxicity in an iPSC-Derived 3D Human Brain Model. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 25.	1.8	47
18	Cellular resilience. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015, 32, 247-260.	0.9	46

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19	Toward good in vitro reporting standards. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 3-17.	0.9	46
20	The exposome – a new approach for risk assessment. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 3-23.	0.9	45
21	Gene–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
22	Organophosphorus flame retardants are developmental neurotoxicants in a rat primary brainsphere in vitro model. Archives of Toxicology, 2021, 95, 207-228.	1.9	35
23	Quality assurance of metabolomics. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 319-326.	0.9	30
24	Stage-specific metabolic features of differentiating neurons: Implications for toxicant sensitivity. Toxicology and Applied Pharmacology, 2018, 354, 64-80.	1.3	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.	0.8	28
26	Human iPSC-Derived Model to Study Myelin Disruption. International Journal of Molecular Sciences, 2021, 22, 9473.	1.8	28
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	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
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.	0.6	16
31	The Future of 3D Brain Cultures in Developmental Neurotoxicity Testing. Frontiers in Toxicology, 2022, 4, 808620.	1.6	12
32	Human iPSC 3D brain model as a tool to study chemical-induced dopaminergic neuronal toxicity. Neurobiology of Disease, 2022, 169, 105719.	2.1	12
33	COVID-19 – prime time for microphysiological systems, as illustrated for the brain. ALTEX: Alternatives To Animal Experimentation, 2021, 38, 535-549.	0.9	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.	0.7	4
35	Quality criteria for in vitro human pluripotent stem cell-derived models of tissue-based cells. Reproductive Toxicology, 2022, 112, 36-50.	1.3	2