Marcel Leist

List of Publications by Year
in descending order

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346 papers	28,942 citations	3933 88 h-index	6654 156 g-index
380 all docs	380 docs citations	380 times ranked	25997 citing authors

#	Article	IF	Citations
1	Intracellular Adenosine Triphosphate (ATP) Concentration: A Switch in the Decision Between Apoptosis and Necrosis. Journal of Experimental Medicine, 1997, 185, 1481-1486.	8.5	1,773
2	Four deaths and a funeral: from caspases to alternative mechanisms. Nature Reviews Molecular Cell Biology, 2001, 2, 589-598.	37.0	1,737
3	Derivatives of Erythropoietin That Are Tissue Protective But Not Erythropoietic. Science, 2004, 305, 239-242.	12.6	775
4	Lysosomes in cell death. Oncogene, 2004, 23, 2881-2890.	5.9	658
5	Cathepsin B Acts as a Dominant Execution Protease in Tumor Cell Apoptosis Induced by Tumor Necrosis Factor. Journal of Cell Biology, 2001, 153, 999-1010.	5.2	586
6	The suitability of BV2 cells as alternative model system for primary microglia cultures or for animal experiments examining brain inflammation. ALTEX: Alternatives To Animal Experimentation, 2009, 26, 83-94.	1.5	579
7	Targeting Chelatable Iron as a Therapeutic Modality in Parkinson's Disease. Antioxidants and Redox Signaling, 2014, 21, 195-210.	5.4	488
8	Concanavalin A?induced T-cell?Mediated hepatic injury in mice: The role of tumor necrosis factor*1. Hepatology, 1995, 21, 190-198.	7.3	433
9	Asialoerythropoietin is a nonerythropoietic cytokine with broad neuroprotective activity in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6741-6746.	7.1	416
10	Tumor necrosis factor-induced hepatocyte apoptosis precedes liver failure in experimental murine shock models. American Journal of Pathology, 1995, 146, 1220-34.	3.8	407
11	Murine hepatocyte apoptosis induced in vitro and in vivo by TNF-alpha requires transcriptional arrest. Journal of Immunology, 1994, 153, 1778-88.	0.8	378
12	Concanavalin Aâ€"induced T-cellâ€"mediated hepatic injury in mice: The role of tumor necrosis factor. Hepatology, 1995, 21, 190-198.	7.3	377
13	The Shape of Cell Death. Biochemical and Biophysical Research Communications, 1997, 236, 1-9.	2.1	295
14	Intracellular ATP, a switch in the decision between apoptosis and necrosis. Toxicology Letters, 1998, 102-103, 139-142.	0.8	293
15	Adverse outcome pathways: opportunities, limitations and open questions. Archives of Toxicology, 2017, 91, 3477-3505.	4.2	282
16	Caspase inhibition reduces apoptosis and increases survival of nigral transplants. Nature Medicine, 1999, 5, 97-100.	30.7	279
17	Age-related Macular Degeneration. Journal of Biological Chemistry, 2000, 275, 39625-39630.	3.4	279
18	Rapid, complete and largeâ€scale generation of postâ€mitotic neurons from the human LUHMES cell line. Journal of Neurochemistry, 2011, 119, 957-971.	3.9	261

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19	Apoptosis, Excitotoxicity, and Neuropathology. Experimental Cell Research, 1998, 239, 183-201.	2.6	258
20	Activation of the 55 kDa TNF receptor is necessary and sufficient for TNF-induced liver failure, hepatocyte apoptosis, and nitrite release. Journal of Immunology, 1995, 154, 1307-16.	0.8	254
21	Inhibition of Mitochondrial ATP Generation by Nitric Oxide Switches Apoptosis to Necrosis. Experimental Cell Research, 1999, 249, 396-403.	2.6	250
22	Neuronal cell death: a demise with different shapes. Trends in Pharmacological Sciences, 1999, 20, 46-51.	8.7	241
23	Progressive Degeneration of Human Mesencephalic Neuron-Derived Cells Triggered by Dopamine-Dependent Oxidative Stress Is Dependent on the Mixed-Lineage Kinase Pathway. Journal of Neuroscience, 2005, 25, 6329-6342.	3.6	224
24	Novel urinary metabolite of alpha-tocopherol, 2,5,7,8-tetramethyl-2(2â€™-carboxyethyl)-6-hydroxychroman, as an indicator of an adequate vitamin E supply?. American Journal of Clinical Nutrition, 1995, 62, 1527S-1534S.	4.7	222
25	Human embryonic stem cell-derived test systems for developmental neurotoxicity: a transcriptomics approach. Archives of Toxicology, 2013, 87, 123-143.	4.2	222
26	Transgenic mice expressing a Huntington's disease mutation are resistant to quinolinic acid-induced striatal excitotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8727-8732.	7.1	215
27	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 272-321.	1.5	214
28	Tumor necrosis factor-induced apoptosis during the poisoning of mice with hepatotoxins. Gastroenterology, 1997, 112, 923-934.	1.3	191
29	A roadmap for the development of alternative (non-animal) methods for systemic toxicity testing. ALTEX: Alternatives To Animal Experimentation, 2012, 29, 3-91.	1.5	190
30	The dynamics of the LPS triggered inflammatory response of murine microglia under different culture and in vivo conditions. Journal of Neuroimmunology, 2006, 180, 71-87.	2.3	187
31	Triggering of apoptosis by cathepsins. Cell Death and Differentiation, 2001, 8, 324-326.	11.2	186
32	Caspase-Mediated Apoptosis in Neuronal Excitotoxicity Triggered by Nitric Oxide. Molecular Medicine, 1997, 3, 750-764.	4.4	174
33	Ex vivo culture of intestinal crypt organoids as a model system for assessing cell death induction in intestinal epithelial cells and enteropathy. Cell Death and Disease, 2014, 5, e1228-e1228.	6.3	170
34	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.	1.5	166
35	Metabolomics in toxicology and preclinical research. ALTEX: Alternatives To Animal Experimentation, 2013, 30, 209-225.	1.5	164
36	Pathological apoptosis in the developing brain. Apoptosis: an International Journal on Programmed Cell Death, 2007, 12, 993-1010.	4.9	162

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37	Granulocyte colony-stimulating factor treatment protects rodents against lipopolysaccharide-induced toxicity via suppression of systemic tumor necrosis factor-alpha. Journal of Immunology, 1992, 149, 918-24.	0.8	157
38	Neuroprotective properties of memantine in differentin vitroandin vivomodels of excitotoxicity. European Journal of Neuroscience, 2006, 23, 2611-2622.	2.6	154
39	Selective Nitration of Prostacyclin Synthase and Defective Vasorelaxation in Atherosclerotic Bovine Coronary Arteries. American Journal of Pathology, 1999, 154, 1359-1365.	3.8	151
40	1-Methyl-4-Phenylpyridinium Induces Autocrine Excitotoxicity, Protease Activation, and Neuronal Apoptosis. Molecular Pharmacology, 1998, 54, 789-801.	2.3	144
41	Toxicogenomics directory of chemically exposed human hepatocytes. Archives of Toxicology, 2014, 88, 2261-2287.	4.2	143
42	Conventional cell culture media do not adequately supply cells with antioxidants and thus facilitate peroxide-induced genotoxicity. Free Radical Biology and Medicine, 1996, 21, 297-306.	2.9	141
43	Sensitization to the Lysosomal Cell Death Pathway upon Immortalization and Transformation. Cancer Research, 2004, 64, 5301-5310.	0.9	141
44	Inflammatory findings on species extrapolations: humans are definitely no 70-kg mice. Archives of Toxicology, 2013, 87, 563-567.	4.2	140
45	Apoptosis in the Absence of Poly- (ADP-ribose) Polymerase. Biochemical and Biophysical Research Communications, 1997, 233, 518-522.	2.1	138
46	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
47	Peroxynitrite and Nitric Oxide Donors Induce Neuronal Apoptosis by Eliciting Autocrine Excitotoxicity. European Journal of Neuroscience, 1997, 9, 1488-1498.	2.6	130
48	ICE-protease inhibitors block murine liver injury and apoptosis caused by CD95 or by TNF-Î±. Immunology Letters, 1997, 55, 5-10.	2.5	130
49	Apoptosis and necrosis: different execution of the same death. Biochemical Society Symposia, 1999, 66, 69-73.	2.7	130
50	Evaluation of a human neurite growth assay as specific screen for developmental neurotoxicants. Archives of Toxicology, 2013, 87, 2215-2231.	4.2	130
51	International STakeholder NETwork (ISTNET): creating a developmental neurotoxicity (DNT) testing road map for regulatory purposes. Archives of Toxicology, 2015, 89, 269-287.	4.2	130
52	Cytoskeletal Breakdown and Apoptosis Elicited by NO Donors in Cerebellar Granule Cells Require NMDA Receptor Activation. Journal of Neurochemistry, 1996, 67, 2484-2493.	3.9	128
53	Reduced Functional Deficits, Neuroinflammation, and Secondary Tissue Damage after Treatment of Stroke by Nonerythropoietic Erythropoietin Derivatives. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 552-563.	4.3	128
54	Rapid, noninflammatory and PS-dependent phagocytic clearance of necrotic cells. Cell Death and Differentiation, 2003, 10, 1156-1164.	11.2	127

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55	The novel SAR-binding domain of scaffold attachment factor A (SAF-A) is a target in apoptotic nuclear breakdown. EMBO Journal, 1997, 16, 7361-7371.	7.8	125
56	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
57	The 55-kD Tumor Necrosis Factor Receptor and CD95 Independently Signal Murine Hepatocyte Apoptosis and Subsequent Liver Failure. Molecular Medicine, 1996, 2, 109-124.	4.4	122
58	Energy supply and the shape of death in neurons and lymphoid cells. Cell Death and Differentiation, 1997, 4, 435-442.	11.2	122
59	Assessment of Chemical-Induced Impairment of Human Neurite Outgrowth by Multiparametric Live Cell Imaging in High-Density Cultures. Toxicological Sciences, 2011, 121, 73-87.	3.1	121
60	Recommendation on test readiness criteria for new approach methods in toxicology: Exemplified for developmental neurotoxicity. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 306-352.	1.5	121
61	Decrease in parvalbumin-expressing neurons in the hippocampus and increased phencyclidine-induced locomotor activity in the rat methylazoxymethanol (MAM) model of schizophrenia. European Journal of Neuroscience, 2006, 23, 279-284.	2.6	120
62	Astrocyte Differentiation of Human Pluripotent Stem Cells: New Tools for Neurological Disorder Research. Frontiers in Cellular Neuroscience, 2016, 10, 215.	3.7	120
63	Eradication of glioblastoma, and breast and colon carcinoma xenografts by Hsp70 depletion. Cancer Research, 2002, 62, 7139-42.	0.9	118
64	Overexpression of heat shock protein 70 in R6/2 Huntingtonâ€™s disease mice has only modest effects on disease progression. Brain Research, 2003, 970, 47-57.	2.2	117
65	Oxidative and nitrative alphaâ€synuclein modifications and proteostatic stress: implications for disease mechanisms and interventions in synucleinopathies. Journal of Neurochemistry, 2013, 125, 491-511.	3.9	116
66	Efficacy of smallâ€molecule glycogen synthase kinaseâ€3 inhibitors in the postnatal rat model of tau hyperphosphorylation. British Journal of Pharmacology, 2007, 152, 959-979.	5.4	115
67	Consensus report on the future of animal-free systemic toxicity testing. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 341-356.	1.5	113
68	Energy Requirement for Caspase Activation and Neuronal Cell Death. Brain Pathology, 2000, 10, 276-282.	4.1	112
69	The dawning of a new age of toxicology. ALTEX: Alternatives To Animal Experimentation, 2008, 25, 103-114.	1.5	111
70	The nonerythropoietic asialoerythropoietin protects against neonatal hypoxiaâ€ischemia as potently as erythropoietin. Journal of Neurochemistry, 2004, 91, 900-910.	3.9	110
71	Irradiation-induced progenitor cell death in the developing brain is resistant to erythropoietin treatment and caspase inhibition. Cell Death and Differentiation, 2004, 11, 1166-1178.	11.2	109
72	Non-animal models of epithelial barriers (skin, intestine and lung) in research, industrial applications and regulatory toxicology. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 327-378.	1.5	108

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73	The network formation assay: a spatially standardized neurite outgrowth analytical display for neurotoxicity screening. Lab on A Chip, 2010, 10, 701.	6.0	106
74	Animal testing and its alternatives â€“ the most important omics is economics. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 275-305.	1.5	105
75	Hypersensitivity to seizures in Î²-amyloid precursor protein deficient mice. Cell Death and Differentiation, 1998, 5, 858-866.	11.2	104
76	The Sonic Hedgehog Pathway Mediates Carbamylated Erythropoietin-enhanced Proliferation and Differentiation of Adult Neural Progenitor Cells. Journal of Biological Chemistry, 2007, 282, 32462-32470.	3.4	103
77	Developmental neurotoxicity â€“ Challenges in the 21st Century and In Vitro Opportunities. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 129-56.	1.5	103
78	Design Principles of Concentration-Dependent Transcriptome Deviations in Drug-Exposed Differentiating Stem Cells. Chemical Research in Toxicology, 2014, 27, 408-420.	3.3	103
79	Apoptosis in Caspase-inhibited Neurons. Molecular Medicine, 2001, 7, 36-48.	4.4	101
80	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.	1.5	101
81	The Expression of Plasma Membrane Ca2+ Pump Isoforms in Cerebellar Granule Neurons Is Modulated by Ca2+. Journal of Biological Chemistry, 1999, 274, 1667-1676.	3.4	100
82	Tumor necrosis factor-induced hepatic DNA fragmentation as an early marker of T cell-dependent liver injury in mice. Gastroenterology, 1995, 109, 166-176.	1.3	97
83	Simultaneous release of adenylate kinase and cytochrome c in cell death. Cell Death and Differentiation, 1998, 5, 1001-1003.	11.2	97
84	Calcium and neuronal death. , 1998, 132, 79-125.		96
85	DNA fragmentation in mouse organs during endotoxic shock. American Journal of Pathology, 1996, 149, 1381-93.	3.8	95
86	Phagocytosis of Nonapoptotic Cells Dying by Caspase- Independent Mechanisms. Journal of Immunology, 2000, 164, 6520-6529.	0.8	94
87	Requirement of a dopaminergic neuronal phenotype for toxicity of low concentrations of 1-methyl-4-phenylpyridinium to human cells. Toxicology and Applied Pharmacology, 2009, 241, 23-35.	2.8	94
88	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.	1.5	94
89	Evaluation of Developmental Toxicants and Signaling Pathways in a Functional Test Based on the Migration of Human Neural Crest Cells. Environmental Health Perspectives, 2012, 120, 1116-1122.	6.0	93
90	Toxicity of organic and inorganic mercury species in differentiated human neurons and human astrocytes. Journal of Trace Elements in Medicine and Biology, 2015, 32, 200-208.	3.0	91

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91	A 3-dimensional human embryonic stem cell (hESC)-derived model to detect developmental neurotoxicity of nanoparticles. Archives of Toxicology, 2013, 87, 721-733.	4.2	90
92	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
93	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.	2.8	90
94	Neuroprotection by Minocycline Caused by Direct and Specific Scavenging of Peroxynitrite. Journal of Biological Chemistry, 2011, 286, 4991-5002.	3.4	89
95	ATP Controls Neuronal Apoptosis Triggered by Microtubule Breakdown or Potassium Deprivation. Molecular Medicine, 1999, 5, 477-489.	4.4	88
96	Epigenetic changes and disturbed neural development in a human embryonic stem cell-based model relating to the fetal valproate syndrome. Human Molecular Genetics, 2012, 21, 4104-4114.	2.9	88
97	Metabolic Depletion of Atp by Fructose Inversely Controls Cd95- and Tumor Necrosis Factor Receptor 1â€“Mediated Hepatic Apoptosis. Journal of Experimental Medicine, 2000, 191, 1975-1986.	8.5	87
98	Advanced Good Cell Culture Practice for human primary, stem cell-derived and organoid models as well as microphysiological systems. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 353-378.	1.5	87
99	The use of biomarkers of toxicity for integrating in vitro hazard estimates into risk assessment for humans. ALTEX: Alternatives To Animal Experimentation, 2012, 29, 411-425.	1.5	87
100	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. Archives of Toxicology, 2019, 93, 1609-1637.	4.2	86
101	The inflammatory transcriptome of reactive murine astrocytes and implications for their innate immune function. Journal of Neurochemistry, 2006, 96, 893-907.	3.9	85
102	Interleukin-1 and nitric oxide protect against tumor necrosis factor Î±-induced liver injury through distinct pathways. Hepatology, 1995, 22, 1829-1837.	7.3	84
103	Translating neurobehavioural endpoints of developmental neurotoxicity tests into in vitro assays and readouts. NeuroToxicology, 2012, 33, 911-924.	3.0	84
104	Transcriptional and metabolic adaptation of human neurons to the mitochondrial toxicant MPP+. Cell Death and Disease, 2014, 5, e1222-e1222.	6.3	84
105	Defined inflammatory states in astrocyte cultures: correlation with susceptibility towards CD95â€driven apoptosis. Journal of Neurochemistry, 2004, 88, 181-193.	3.9	83
106	Markers of murine embryonic and neural stem cells, neurons and astrocytes: reference points for developmental neurotoxicity testing. ALTEX: Alternatives To Animal Experimentation, 2010, 27, 17-42.	1.5	83
107	Nonhematopoietic Erythropoietin Derivatives Prevent Motoneuron Degeneration In Vitro and In Vivo. Molecular Medicine, 2006, 12, 153-160.	4.4	82
108	A transcriptome-based classifier to identify developmental toxicants by stem cell testing: design, validation and optimization for histone deacetylase inhibitors. Archives of Toxicology, 2015, 89, 1599-1618.	4.2	82

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109	Towards grouping concepts based on new approach methodologies in chemical hazard assessment: the read-across approach of the EU-ToxRisk project. Archives of Toxicology, 2019, 93, 3643-3667.	4.2	82
110	Botulinum neurotoxin C initiates two different programs for neurite degeneration and neuronal apoptosis. Journal of Cell Biology, 2005, 168, 607-618.	5.2	81
111	Good Cell Culture Practice for stem cells and stem-cell-derived models. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 95-132.	1.5	81
112	Food for thought â€¦ on the evolution of toxicology and the phasing out of animal testing. ALTEX: Alternatives To Animal Experimentation, 2008, 25, 91-96.	1.5	81
113	Additive Effects of Caspase Inhibitor and Lazaroid on the Survival of Transplanted Rat and Human Embryonic Dopamine Neurons. Experimental Neurology, 2000, 164, 102-111.	4.1	80
114	Coordinated waves of gene expression during neuronal differentiation of embryonic stem cells as basis for novel approaches to developmental neurotoxicity testing. Cell Death and Differentiation, 2011, 18, 383-395.	11.2	79
115	Spatial control of Cdc42 signalling by a GM130â€“RasGRF complex regulates polarity and tumorigenesis. Nature Communications, 2014, 5, 4839.	12.8	79
116	Vesicular monoamine transporter 2 regulates the sensitivity of rat dopaminergic neurons to disturbed cytosolic dopamine levels. Brain Research, 2007, 1185, 18-32.	2.2	78
117	Cascade of Caspase Activation in Potassium-Deprived Cerebellar Granule Neurons: Targets for Treatment with Peptide and Protein Inhibitors of Apoptosis. Molecular and Cellular Neurosciences, 2001, 17, 717-731.	2.2	77
118	An adverse outcome pathway for parkinsonian motor deficits associated with mitochondrial complex I inhibition. Archives of Toxicology, 2018, 92, 41-82.	4.2	77
119	Comparison of neuroprotective effects of erythropoietin (EPO) and carbamylerythropoietin (CEPO) against ischemia-like oxygenâ€“glucose deprivation (OGD) and NMDA excitotoxicity in mouse hippocampal slice cultures. Experimental Neurology, 2007, 204, 106-117.	4.1	75
120	Toxicity testing in the 21st century beyond environmental chemicals. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 171-181.	1.5	74
121	Mitogen-Activated Protein Kinase-Activated Protein Kinase 2-Deficient Mice Show Increased Susceptibility to Listeria monocytogenes Infection. Journal of Immunology, 2002, 168, 4667-4673.	0.8	73
122	Alphaâ€Synuclein Binds to the Inner Membrane of Mitochondria in an Î±â€Helical Conformation. ChemBioChem, 2014, 15, 2499-2502.	2.6	73
123	OECD/EFSA workshop on developmental neurotoxicity (DNT): The use of non-animal test methods for regulatory purposes. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 311-315.	1.5	73
124	T Cell Stimulus-Induced Crosstalk between Lymphocytes and Liver Macrophages Results in Augmented Cytokine Release. Experimental Cell Research, 1996, 229, 137-146.	2.6	69
125	Compound selection for in vitro modeling of developmental neurotoxicity. Frontiers in Bioscience - Landmark, 2012, 17, 2442.	3.0	69
126	Stem Cell-Derived Immature Human Dorsal Root Ganglia Neurons to Identify Peripheral Neurotoxicants. Stem Cells Translational Medicine, 2016, 5, 476-487.	3.3	69

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127	From transient transcriptome responses to disturbed neurodevelopment: role of histone acetylation and methylation as epigenetic switch between reversible and irreversible drug effects. Archives of Toxicology, 2014, 88, 1451-1468.	4.2	67
128	Sensitivity of Dopaminergic Neuron Differentiation from Stem Cells to Chronic Low-Dose Methylmercury Exposure. Toxicological Sciences, 2011, 121, 357-367.	3.1	66
129	Interleukin-1 and nitric oxide protect against tumor necrosis factor alpha-induced liver injury through distinct pathways. Hepatology, 1995, 22, 1829-37.	7.3	66
130	Specific Modulation of Astrocyte Inflammation by Inhibition of Mixed Lineage Kinases with CEP-1347. Journal of Immunology, 2004, 173, 2762-2770.	0.8	65
131	Inhibition of microglial inflammation by the MLK inhibitor CEPâ€1347. Journal of Neurochemistry, 2005, 92, 1439-1451.	3.9	65
132	Asialoerythropoietin is not effective in the R6/2 line of Huntington's disease mice. BMC Neuroscience, 2004, 5, 17.	1.9	63
133	Multiparameter toxicity assessment of novel DOPO-derived organophosphorus flame retardants. Archives of Toxicology, 2017, 91, 407-425.	4.2	63
134	Profiling of drugs and environmental chemicals for functional impairment of neural crest migration in a novel stem cell-based test battery. Archives of Toxicology, 2014, 88, 1109-26.	4.2	62
135	The biological and ethical basis of the use of human embryonic stem cells for in vitro test systems or cell therapy. ALTEX: Alternatives To Animal Experimentation, 2008, , 163-190.	1.5	61
136	Functional and immunochemical characterisation of different antibodies against the erythropoietin receptor. Journal of Neuroscience Methods, 2007, 164, 50-58.	2.5	60
137	Tributyltin-Induced Apoptosis Requires Glycolytic Adenosine Trisphosphate Production. Chemical Research in Toxicology, 1999, 12, 874-882.	3.3	59
138	Validation and quality control of replacement alternatives â€“ current status and future challenges. Toxicology Research, 2012, 1, 8-22.	2.1	59
139	Generation of genetically-modified human differentiated cells for toxicological tests and the study of neurodegenerative diseases. ALTEX: Alternatives To Animal Experimentation, 2013, 30, 427-444.	1.5	59
140	Tipping Points and Endogenous Determinants of Nigrostriatal Degeneration by MPTP. Trends in Pharmacological Sciences, 2017, 38, 541-555.	8.7	58
141	Canagliflozin mediated dual inhibition of mitochondrial glutamate dehydrogenase and complex I: an off-target adverse effect. Cell Death and Disease, 2018, 9, 226.	6.3	58
142	Nitric Oxide Inhibits Execution of Apoptosis at Two Distinct ATP-Dependent Steps Upstream and Downstream of Mitochondrial CytochromecRelease. Biochemical and Biophysical Research Communications, 1999, 258, 215-221.	2.1	57
143	Reduced Immunoproteasome Formation and Accumulation of Immunoproteasomal Precursors in the Brains of Lymphocytic Choriomeningitis Virus-Infected Mice. Journal of Immunology, 2010, 185, 5549-5560.	0.8	57
144	Critical evaluation of the use of dogs in biomedical research and testing in Europe. ALTEX: Alternatives To Animal Experimentation, 2011, 28, 326-340.	1.5	57

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145	A novel mechanism of murine hepatocyte death inducible by Concanavalin A. Journal of Hepatology, 1996, 25, 948-959.	3.7	56
146	Detectable concentrations of Fas ligand in cerebrospinal fluid after severe head injury. Journal of Neuroimmunology, 1997, 80, 93-96.	2.3	56
147	Novel technologies and an overall strategy to allow hazard assessment and risk prediction of chemicals, cosmetics, and drugs with animal-free methods. ALTEX: Alternatives To Animal Experimentation, 2012, 29, 373-388.	1.5	54
148	High-dose erythropoietin alters platelet reactivity and bleeding time in rodents in contrast to the neuroprotective variant carbamyl-erythropoietin (CEPO). Thrombosis and Haemostasis, 2008, 99, 720-728.	3.4	53
149	Definition of transcriptome-based indices for quantitative characterization of chemically disturbed stem cell development: introduction of the STOP-Toxukn and STOP-Toxukk tests. Archives of Toxicology, 2017, 91, 839-864.	4.2	53
150	TLR2 Hypersensitivity of Astrocytes as Functional Consequence of Previous Inflammatory Episodes. Journal of Immunology, 2011, 186, 3237-3247.	0.8	52
151	Disialoganglioside GD3 is released by microglia and induces oligodendrocyte apoptosis. Cell Death and Differentiation, 2002, 9, 758-767.	11.2	50
152	Attenuated amyloid-Î² aggregation and neurotoxicity owing to methionine oxidation. NeuroReport, 2007, 18, 559-563.	1.2	50
153	Molecular basis for detection of invading pathogens in the brain. Journal of Neuroscience Research, 2008, 86, 1434-1447.	2.9	50
154	Prevention of Endotoxin-Induced Lethality, but Not of Liver Apoptosis in Poly(ADP-ribose) Polymerase-Deficient Mice. Biochemical and Biophysical Research Communications, 1999, 263, 433-438.	2.1	49
155	Caspase-3 activity is present in cerebrospinal fluid from patients with traumatic brain injury. Journal of Neuroimmunology, 2001, 121, 76-78.	2.3	49
156	The Role of Astrocytes in the Neurorepair Process. Frontiers in Cell and Developmental Biology, 2021, 9, 665795.	3.7	49
157	Erythropoietin: not just about erythropoiesis. Lancet, The, 2010, 375, 2142.	13.7	48
158	Internationalization of read-across as a validated new approach method (NAM) for regulatory toxicology. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 579-606.	1.5	48
159	Loss of DJ-1 impairs antioxidant response by altered glutamine and serine metabolism. Neurobiology of Disease, 2016, 89, 112-125.	4.4	47
160	Comparing in vitro human liver models to in vivo human liver using RNA-Seq. Archives of Toxicology, 2021, 95, 573-589.	4.2	47
161	In Vivo and in Vitro Evidence for Extracellular Caspase Activity Released from Apoptotic Cells. Biochemical and Biophysical Research Communications, 2001, 283, 1111-1117.	2.1	46
162	Toxicogenomics directory of rat hepatotoxicants in vivo and in cultivated hepatocytes. Archives of Toxicology, 2018, 92, 3517-3533.	4.2	46

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163	Cellular resilience. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 247-260.	1.5	46
164	A high-throughput approach to identify specific neurotoxicants / developmental toxicants in human neuronal cell function assays. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 235-253.	1.5	46
165	Toward good in vitro reporting standards. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 3-17.	1.5	46
166	Food for thought ... considerations and guidelines for basic test method descriptions in toxicology. ALTEX: Alternatives To Animal Experimentation, 2010, 27, 309-317.	1.5	46
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343	Target tissue specific activation of transcriptional programmes by mitotoxicants. Toxicology Letters, 2018, 295, S31.	0.8	0
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