

Marcel Leist

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

323
papers

23,619
citations

80
h-index

143
g-index

380
ext. papers

26,211
ext. citations

6.1
avg, IF

6.68
L-index

#	Paper	IF	Citations
323	Intracellular adenosine triphosphate (ATP) concentration: a switch in the decision between apoptosis and necrosis. <i>Journal of Experimental Medicine</i> , 1997 , 185, 1481-6	16.6	1623
322	Four deaths and a funeral: from caspases to alternative mechanisms. <i>Nature Reviews Molecular Cell Biology</i> , 2001 , 2, 589-98	48.7	1553
321	Derivatives of erythropoietin that are tissue protective but not erythropoietic. <i>Science</i> , 2004 , 305, 239-43	33.3	668
320	Lysosomes in cell death. <i>Oncogene</i> , 2004 , 23, 2881-90	9.2	578
319	Cathepsin B acts as a dominant execution protease in tumor cell apoptosis induced by tumor necrosis factor. <i>Journal of Cell Biology</i> , 2001 , 153, 999-1010	7.3	544
318	The suitability of BV2 cells as alternative model system for primary microglia cultures or for animal experiments examining brain inflammation. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2009 , 26, 83-94	4.3	438
317	Asialoerythropoietin is a nonerythropoietic cytokine with broad neuroprotective activity in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6741-6	11.5	380
316	Concanavalin A-induced T-cell-mediated hepatic injury in mice: the role of tumor necrosis factor. <i>Hepatology</i> , 1995 , 21, 190-8	11.2	372
315	Concanavalin A-induced T-cell-mediated hepatic injury in mice: The role of tumor necrosis factor. <i>Hepatology</i> , 1995 , 21, 190-198	11.2	370
314	Murine hepatocyte apoptosis induced in vitro and in vivo by TNF-alpha requires transcriptional arrest. <i>Journal of Immunology</i> , 1994 , 153, 1778-88	5.3	370
313	Tumor necrosis factor-induced hepatocyte apoptosis precedes liver failure in experimental murine shock models. <i>American Journal of Pathology</i> , 1995 , 146, 1220-34	5.8	361
312	Targeting chelatable iron as a therapeutic modality in Parkinson's disease. <i>Antioxidants and Redox Signaling</i> , 2014 , 21, 195-210	8.4	357
311	The shape of cell death. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 236, 1-9	3.4	280
310	Caspase inhibition reduces apoptosis and increases survival of nigral transplants. <i>Nature Medicine</i> , 1999 , 5, 97-100	50.5	258
309	Intracellular ATP, a switch in the decision between apoptosis and necrosis. <i>Toxicology Letters</i> , 1998 , 102-103, 139-42	4.4	250
308	Activation of the 55 kDa TNF receptor is necessary and sufficient for TNF-induced liver failure, hepatocyte apoptosis, and nitrite release. <i>Journal of Immunology</i> , 1995 , 154, 1307-16	5.3	244
307	Age-related macular degeneration. The lipofusion component N-retinyl-N-retinylidene ethanolamine detaches proapoptotic proteins from mitochondria and induces apoptosis in mammalian retinal pigment epithelial cells. <i>Journal of Biological Chemistry</i> , 2000 , 275, 39625-30	5.4	242

306	Apoptosis, excitotoxicity, and neuropathology. <i>Experimental Cell Research</i> , 1998 , 239, 183-201	4.2	240
305	Inhibition of mitochondrial ATP generation by nitric oxide switches apoptosis to necrosis. <i>Experimental Cell Research</i> , 1999 , 249, 396-403	4.2	237
304	Neuronal cell death: a demise with different shapes. <i>Trends in Pharmacological Sciences</i> , 1999 , 20, 46-51	13.2	221
303	Transgenic mice expressing a Huntington's disease mutation are resistant to quinolinic acid-induced striatal excitotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 8727-32	11.5	200
302	Novel urinary metabolite of alpha-tocopherol, 2,5,7,8-tetramethyl-2(2'-carboxyethyl)-6-hydroxychroman, as an indicator of an adequate vitamin E supply?. <i>American Journal of Clinical Nutrition</i> , 1995 , 62, 1527S-1534S	7	195
301	Rapid, complete and large-scale generation of post-mitotic neurons from the human LUHMES cell line. <i>Journal of Neurochemistry</i> , 2011 , 119, 957-71	6	186
300	Progressive degeneration of human mesencephalic neuron-derived cells triggered by dopamine-dependent oxidative stress is dependent on the mixed-lineage kinase pathway. <i>Journal of Neuroscience</i> , 2005 , 25, 6329-42	6.6	184
299	Adverse outcome pathways: opportunities, limitations and open questions. <i>Archives of Toxicology</i> , 2017 , 91, 3477-3505	5.8	174
298	Tumor necrosis factor-induced apoptosis during the poisoning of mice with hepatotoxins. <i>Gastroenterology</i> , 1997 , 112, 923-34	13.3	167
297	Caspase-Mediated Apoptosis in Neuronal Excitotoxicity Triggered by Nitric Oxide. <i>Molecular Medicine</i> , 1997 , 3, 750-764	6.2	161
296	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2016 , 33, 272-321	4.3	161
295	Human embryonic stem cell-derived test systems for developmental neurotoxicity: a transcriptomics approach. <i>Archives of Toxicology</i> , 2013 , 87, 123-43	5.8	157
294	Granulocyte colony-stimulating factor treatment protects rodents against lipopolysaccharide-induced toxicity via suppression of systemic tumor necrosis factor-alpha. <i>Journal of Immunology</i> , 1992 , 149, 918-24	5.3	155
293	A roadmap for the development of alternative (non-animal) methods for systemic toxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2012 , 29, 3-91	4.3	153
292	Pathological apoptosis in the developing brain. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007 , 12, 993-1010	5.4	152
291	The dynamics of the LPS triggered inflammatory response of murine microglia under different culture and in vivo conditions. <i>Journal of Neuroimmunology</i> , 2006 , 180, 71-87	3.5	149
290	Selective nitration of prostacyclin synthase and defective vasorelaxation in atherosclerotic bovine coronary arteries. <i>American Journal of Pathology</i> , 1999 , 154, 1359-65	5.8	142
289	1-Methyl-4-phenylpyridinium induces autocrine excitotoxicity, protease activation, and neuronal apoptosis. <i>Molecular Pharmacology</i> , 1998 , 54, 789-801	4.3	141

288	Neuroprotective properties of memantine in different in vitro and in vivo models of excitotoxicity. <i>European Journal of Neuroscience</i> , 2006 , 23, 2611-22	3.5	138
287	Metabolomics in toxicology and preclinical research. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013 , 30, 209-25	4.3	135
286	Apoptosis in the absence of poly-(ADP-ribose) polymerase. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 233, 518-22	3.4	134
285	Conventional cell culture media do not adequately supply cells with antioxidants and thus facilitate peroxide-induced genotoxicity. <i>Free Radical Biology and Medicine</i> , 1996 , 21, 297-306	7.8	126
284	ICE-protease inhibitors block murine liver injury and apoptosis caused by CD95 or by TNF-alpha. <i>Immunology Letters</i> , 1997 , 55, 5-10	4.1	124
283	Sensitization to the lysosomal cell death pathway upon immortalization and transformation. <i>Cancer Research</i> , 2004 , 64, 5301-10	10.1	123
282	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014 , 31, 441-77	4.3	122
281	Ex vivo culture of intestinal crypt organoids as a model system for assessing cell death induction in intestinal epithelial cells and enteropathy. <i>Cell Death and Disease</i> , 2014 , 5, e1228	9.8	120
280	Reduced functional deficits, neuroinflammation, and secondary tissue damage after treatment of stroke by nonerythropoietic erythropoietin derivatives. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 552-63	7.3	120
279	Rapid, noninflammatory and PS-dependent phagocytic clearance of necrotic cells. <i>Cell Death and Differentiation</i> , 2003 , 10, 1156-64	12.7	119
278	Apoptosis and necrosis: different execution of the same death. <i>Biochemical Society Symposia</i> , 1999 , 66, 69-73		117
277	Peroxynitrite and nitric oxide donors induce neuronal apoptosis by eliciting autocrine excitotoxicity. <i>European Journal of Neuroscience</i> , 1997 , 9, 1488-98	3.5	115
276	Cytoskeletal breakdown and apoptosis elicited by NO donors in cerebellar granule cells require NMDA receptor activation. <i>Journal of Neurochemistry</i> , 1996 , 67, 2484-93	6	112
275	The novel SAR-binding domain of scaffold attachment factor A (SAF-A) is a target in apoptotic nuclear breakdown. <i>EMBO Journal</i> , 1997 , 16, 7361-71	13	110
274	The 55-kD Tumor Necrosis Factor Receptor and CD95 Independently Signal Murine Hepatocyte Apoptosis and Subsequent Liver Failure. <i>Molecular Medicine</i> , 1996 , 2, 109-124	6.2	109
273	International STakeholder NETwork (ISTNET): creating a developmental neurotoxicity (DNT) testing road map for regulatory purposes. <i>Archives of Toxicology</i> , 2015 , 89, 269-87	5.8	107
272	Overexpression of heat shock protein 70 in R6/2 Huntington's disease mice has only modest effects on disease progression. <i>Brain Research</i> , 2003 , 970, 47-57	3.7	106
271	Energy requirement for caspase activation and neuronal cell death. <i>Brain Pathology</i> , 2000 , 10, 276-82	6	105

270	Inflammatory findings on species extrapolations: humans are definitely no 70-kg mice. <i>Archives of Toxicology</i> , 2013 , 87, 563-7	5.8	104
269	Energy supply and the shape of death in neurons and lymphoid cells. <i>Cell Death and Differentiation</i> , 1997 , 4, 435-42	12.7	103
268	Eradication of glioblastoma, and breast and colon carcinoma xenografts by Hsp70 depletion. <i>Cancer Research</i> , 2002 , 62, 7139-42	10.1	103
267	Oxidative and nitrative alpha-synuclein modifications and proteostatic stress: implications for disease mechanisms and interventions in synucleinopathies. <i>Journal of Neurochemistry</i> , 2013 , 125, 491-511	6	102
266	Decrease in parvalbumin-expressing neurons in the hippocampus and increased phencyclidine-induced locomotor activity in the rat methylazoxymethanol (MAM) model of schizophrenia. <i>European Journal of Neuroscience</i> , 2006 , 23, 279-84	3.5	102
265	Evaluation of a human neurite growth assay as specific screen for developmental neurotoxicants. <i>Archives of Toxicology</i> , 2013 , 87, 2215-31	5.8	101
264	The nonerythropoietic asialoerythropoietin protects against neonatal hypoxia-ischemia as potently as erythropoietin. <i>Journal of Neurochemistry</i> , 2004 , 91, 900-10	6	100
263	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	5.8	99
262	Irradiation-induced progenitor cell death in the developing brain is resistant to erythropoietin treatment and caspase inhibition. <i>Cell Death and Differentiation</i> , 2004 , 11, 1166-78	12.7	97
261	Consensus report on the future of animal-free systemic toxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014 , 31, 341-56	4.3	95
260	The Sonic hedgehog pathway mediates carbamylated erythropoietin-enhanced proliferation and differentiation of adult neural progenitor cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 32462-70	5.4	93
259	The network formation assay: a spatially standardized neurite outgrowth analytical display for neurotoxicity screening. <i>Lab on A Chip</i> , 2010 , 10, 701-9	7.2	92
258	Hypersensitivity to seizures in beta-amyloid precursor protein deficient mice. <i>Cell Death and Differentiation</i> , 1998 , 5, 858-66	12.7	92
257	Simultaneous release of adenylate kinase and cytochrome c in cell death. <i>Cell Death and Differentiation</i> , 1998 , 5, 1001-3	12.7	92
256	Efficacy of small-molecule glycogen synthase kinase-3 inhibitors in the postnatal rat model of tau hyperphosphorylation. <i>British Journal of Pharmacology</i> , 2007 , 152, 959-79	8.6	92
255	Apoptosis in Caspase-inhibited Neurons. <i>Molecular Medicine</i> , 2001 , 7, 36-48	6.2	92
254	Tumor necrosis factor-induced hepatic DNA fragmentation as an early marker of T cell-dependent liver injury in mice. <i>Gastroenterology</i> , 1995 , 109, 166-76	13.3	88
253	Assessment of chemical-induced impairment of human neurite outgrowth by multiparametric live cell imaging in high-density cultures. <i>Toxicological Sciences</i> , 2011 , 121, 73-87	4.4	87

252	The expression of plasma membrane Ca ²⁺ pump isoforms in cerebellar granule neurons is modulated by Ca ²⁺ . <i>Journal of Biological Chemistry</i> , 1999 , 274, 1667-76	5.4	87
251	Phagocytosis of nonapoptotic cells dying by caspase-independent mechanisms. <i>Journal of Immunology</i> , 2000 , 164, 6520-9	5.3	86
250	Astrocyte Differentiation of Human Pluripotent Stem Cells: New Tools for Neurological Disorder Research. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 215	6.1	86
249	Developmental neurotoxicity - challenges in the 21st century and in vitro opportunities. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014 , 31, 129-56	4.3	82
248	Non-animal models of epithelial barriers (skin, intestine and lung) in research, industrial applications and regulatory toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015 , 32, 327-78	4.3	82
247	DNA fragmentation in mouse organs during endotoxic shock. <i>American Journal of Pathology</i> , 1996 , 149, 1381-93	5.8	82
246	Calcium and neuronal death. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 1998 , 132, 79-125	2.9	81
245	Evaluation of developmental toxicants and signaling pathways in a functional test based on the migration of human neural crest cells. <i>Environmental Health Perspectives</i> , 2012 , 120, 1116-22	8.4	80
244	ATP Controls Neuronal Apoptosis Triggered by Microtubule Breakdown or Potassium Deprivation. <i>Molecular Medicine</i> , 1999 , 5, 477-489	6.2	78
243	Interleukin-1 and nitric oxide protect against tumor necrosis factor α -induced liver injury through distinct pathways. <i>Hepatology</i> , 1995 , 22, 1829-1837	11.2	78
242	Toxicity of organic and inorganic mercury species in differentiated human neurons and human astrocytes. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015 , 32, 200-8	4.1	77
241	Epigenetic changes and disturbed neural development in a human embryonic stem cell-based model relating to the fetal valproate syndrome. <i>Human Molecular Genetics</i> , 2012 , 21, 4104-14	5.6	77
240	Nonhematopoietic erythropoietin derivatives prevent motoneuron degeneration in vitro and in vivo. <i>Molecular Medicine</i> , 2006 , 12, 153-60	6.2	77
239	Reference compounds for alternative test methods to indicate developmental neurotoxicity (DNT) potential of chemicals: example lists and criteria for their selection and use. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2017 , 34, 49-74	4.3	76
238	Markers of murine embryonic and neural stem cells, neurons and astrocytes: reference points for developmental neurotoxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2010 , 27, 17-42	4.3	76
237	Toxicogenomics directory of chemically exposed human hepatocytes. <i>Archives of Toxicology</i> , 2014 , 88, 2261-87	5.8	74
236	Neuroprotection by minocycline caused by direct and specific scavenging of peroxynitrite. <i>Journal of Biological Chemistry</i> , 2011 , 286, 4991-5002	5.4	74
235	The inflammatory transcriptome of reactive murine astrocytes and implications for their innate immune function. <i>Journal of Neurochemistry</i> , 2006 , 96, 893-907	6	73

234	Cascade of caspase activation in potassium-deprived cerebellar granule neurons: targets for treatment with peptide and protein inhibitors of apoptosis. <i>Molecular and Cellular Neurosciences</i> , 2001 , 17, 717-31	4.8	73
233	Requirement of a dopaminergic neuronal phenotype for toxicity of low concentrations of 1-methyl-4-phenylpyridinium to human cells. <i>Toxicology and Applied Pharmacology</i> , 2009 , 241, 23-35	4.6	72
232	Defined inflammatory states in astrocyte cultures: correlation with susceptibility towards CD95-driven apoptosis. <i>Journal of Neurochemistry</i> , 2004 , 88, 181-93	6	72
231	Recommendation on test readiness criteria for new approach methods in toxicology: Exemplified for developmental neurotoxicity. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 306-352	4.3	71
230	Metabolic depletion of ATP by fructose inversely controls CD95- and tumor necrosis factor receptor 1-mediated hepatic apoptosis. <i>Journal of Experimental Medicine</i> , 2000 , 191, 1975-85	16.6	70
229	Consensus statement on the need for innovation, transition and implementation of developmental neurotoxicity (DNT) testing for regulatory purposes. <i>Toxicology and Applied Pharmacology</i> , 2018 , 354, 3-6	4.6	69
228	Transcriptional and metabolic adaptation of human neurons to the mitochondrial toxicant MPP(+). <i>Cell Death and Disease</i> , 2014 , 5, e1222	9.8	69
227	Coordinated waves of gene expression during neuronal differentiation of embryonic stem cells as basis for novel approaches to developmental neurotoxicity testing. <i>Cell Death and Differentiation</i> , 2011 , 18, 383-95	12.7	69
226	Vesicular monoamine transporter 2 regulates the sensitivity of rat dopaminergic neurons to disturbed cytosolic dopamine levels. <i>Brain Research</i> , 2007 , 1185, 18-32	3.7	69
225	Additive effects of caspase inhibitor and lazardoid on the survival of transplanted rat and human embryonic dopamine neurons. <i>Experimental Neurology</i> , 2000 , 164, 102-11	5.7	69
224	Translating neurobehavioural endpoints of developmental neurotoxicity tests into in vitro assays and readouts. <i>NeuroToxicology</i> , 2012 , 33, 911-24	4.4	68
223	Comparison of neuroprotective effects of erythropoietin (EPO) and carbamylerythropoietin (CEPO) against ischemia-like oxygen-glucose deprivation (OGD) and NMDA excitotoxicity in mouse hippocampal slice cultures. <i>Experimental Neurology</i> , 2007 , 204, 106-17	5.7	67
222	Botulinum neurotoxin C initiates two different programs for neurite degeneration and neuronal apoptosis. <i>Journal of Cell Biology</i> , 2005 , 168, 607-18	7.3	67
221	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014 , 31, 441-477	4.3	67
220	A 3-dimensional human embryonic stem cell (hESC)-derived model to detect developmental neurotoxicity of nanoparticles. <i>Archives of Toxicology</i> , 2013 , 87, 721-33	5.8	66
219	Biology-inspired microphysiological systems to advance patient benefit and animal welfare in drug development. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020 , 37, 365-394	4.3	66
218	The use of biomarkers of toxicity for integrating in vitro hazard estimates into risk assessment for humans. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2012 , 29, 411-25	4.3	66
217	Design principles of concentration-dependent transcriptome deviations in drug-exposed differentiating stem cells. <i>Chemical Research in Toxicology</i> , 2014 , 27, 408-20	4	64

216	Mitogen-activated protein kinase-activated protein kinase 2-deficient mice show increased susceptibility to <i>Listeria monocytogenes</i> infection. <i>Journal of Immunology</i> , 2002 , 168, 4667-73	5.3	64
215	T cell stimulus-induced crosstalk between lymphocytes and liver macrophages results in augmented cytokine release. <i>Experimental Cell Research</i> , 1996 , 229, 137-46	4.2	63
214	Interleukin-1 and nitric oxide protect against tumor necrosis factor alpha-induced liver injury through distinct pathways. <i>Hepatology</i> , 1995 , 22, 1829-37	11.2	62
213	Toxicity testing in the 21st century beyond environmental chemicals. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015 , 32, 171-81	4.3	62
212	Spatial control of Cdc42 signalling by a GM130-RasGRF complex regulates polarity and tumorigenesis. <i>Nature Communications</i> , 2014 , 5, 4839	17.4	61
211	Good Cell Culture Practice for stem cells and stem-cell-derived models. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2017 , 34, 95-132	4.3	61
210	Alpha-synuclein binds to the inner membrane of mitochondria in an helical conformation. <i>ChemBioChem</i> , 2014 , 15, 2499-502	3.8	60
209	The dawning of a new age of toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008 , 103-114	4.3	60
208	Asialoerythropoietin is not effective in the R6/2 line of Huntington's disease mice. <i>BMC Neuroscience</i> , 2004 , 5, 17	3.2	58
207	Advanced Good Cell Culture Practice for human primary, stem cell-derived and organoid models as well as microphysiological systems. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 353-378	4.3	58
206	Compound selection for in vitro modeling of developmental neurotoxicity. <i>Frontiers in Bioscience - Landmark</i> , 2012 , 17, 2442-60	2.8	57
205	Sensitivity of dopaminergic neuron differentiation from stem cells to chronic low-dose methylmercury exposure. <i>Toxicological Sciences</i> , 2011 , 121, 357-67	4.4	57
204	Functional and immunochemical characterisation of different antibodies against the erythropoietin receptor. <i>Journal of Neuroscience Methods</i> , 2007 , 164, 50-8	3	56
203	OECD/EFSA workshop on developmental neurotoxicity (DNT): The use of non-animal test methods for regulatory purposes. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2017 , 34, 311-315	4.3	56
202	Tributyltin-induced apoptosis requires glycolytic adenosine triphosphate production. <i>Chemical Research in Toxicology</i> , 1999 , 12, 874-82	4	55
201	Animal testing and its alternatives - the most important omics is economics. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 275-305	4.3	55
200	Specific modulation of astrocyte inflammation by inhibition of mixed lineage kinases with CEP-1347. <i>Journal of Immunology</i> , 2004 , 173, 2762-70	5.3	54
199	Inhibition of microglial inflammation by the MLK inhibitor CEP-1347. <i>Journal of Neurochemistry</i> , 2005 , 92, 1439-51	6	54

198	Nitric oxide inhibits execution of apoptosis at two distinct ATP-dependent steps upstream and downstream of mitochondrial cytochrome c release. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 258, 215-21	3.4	54
197	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. <i>Archives of Toxicology</i> , 2019 , 93, 1609-1637	5.8	53
196	Multiparameter toxicity assessment of novel DOPO-derived organophosphorus flame retardants. <i>Archives of Toxicology</i> , 2017 , 91, 407-425	5.8	52
195	Reduced immunoproteasome formation and accumulation of immunoproteasomal precursors in the brains of lymphocytic choriomeningitis virus-infected mice. <i>Journal of Immunology</i> , 2010 , 185, 5549-5603	5.3	51
194	Detectable concentrations of Fas ligand in cerebrospinal fluid after severe head injury. <i>Journal of Neuroimmunology</i> , 1997 , 80, 93-6	3.5	51
193	An adverse outcome pathway for parkinsonian motor deficits associated with mitochondrial complex I inhibition. <i>Archives of Toxicology</i> , 2018 , 92, 41-82	5.8	51
192	A transcriptome-based classifier to identify developmental toxicants by stem cell testing: design, validation and optimization for histone deacetylase inhibitors. <i>Archives of Toxicology</i> , 2015 , 89, 1599-618	5.8	50
191	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	5.8	49
190	A novel mechanism of murine hepatocyte death inducible by concanavalin A. <i>Journal of Hepatology</i> , 1996 , 25, 948-59	13.4	49
189	High-dose erythropoietin alters platelet reactivity and bleeding time in rodents in contrast to the neuroprotective variant carbamyl-erythropoietin (CEPO). <i>Thrombosis and Haemostasis</i> , 2008 , 99, 720-8	7	48
188	Prevention of endotoxin-induced lethality, but not of liver apoptosis in poly(ADP-ribose) polymerase-deficient mice. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 263, 433-8	3.4	48
187	Food for thought ... on the evolution of toxicology and the phasing out of animal testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008 , 25, 91-102	4.3	48
186	Disialoganglioside GD3 is released by microglia and induces oligodendrocyte apoptosis. <i>Cell Death and Differentiation</i> , 2002 , 9, 758-67	12.7	46
185	In vivo and in vitro evidence for extracellular caspase activity released from apoptotic cells. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 283, 1111-7	3.4	46
184	Attenuated amyloid-beta aggregation and neurotoxicity owing to methionine oxidation. <i>NeuroReport</i> , 2007 , 18, 559-63	1.7	45
183	Profiling of drugs and environmental chemicals for functional impairment of neural crest migration in a novel stem cell-based test battery. <i>Archives of Toxicology</i> , 2014 , 88, 1109-26	5.8	44
182	TLR2 hypersensitivity of astrocytes as functional consequence of previous inflammatory episodes. <i>Journal of Immunology</i> , 2011 , 186, 3237-47	5.3	44
181	Critical evaluation of the use of dogs in biomedical research and testing in Europe. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2011 , 28, 326-40	4.3	44

180	Generation of genetically-modified human differentiated cells for toxicological tests and the study of neurodegenerative diseases. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013 , 30, 427-44	4.3	44
179	From transient transcriptome responses to disturbed neurodevelopment: role of histone acetylation and methylation as epigenetic switch between reversible and irreversible drug effects. <i>Archives of Toxicology</i> , 2014 , 88, 1451-68	5.8	43
178	Molecular basis for detection of invading pathogens in the brain. <i>Journal of Neuroscience Research</i> , 2008 , 86, 1434-47	4.4	43
177	Tipping Points and Endogenous Determinants of Nigrostriatal Degeneration by MPTP. <i>Trends in Pharmacological Sciences</i> , 2017 , 38, 541-555	13.2	42
176	Erythropoietin: not just about erythropoiesis. <i>Lancet, The</i> , 2010 , 375, 2142	4.0	41
175	Caspase-3 activity is present in cerebrospinal fluid from patients with traumatic brain injury. <i>Journal of Neuroimmunology</i> , 2001 , 121, 76-8	3.5	41
174	Validation and quality control of replacement alternatives Current status and future challenges. <i>Toxicology Research</i> , 2012 , 1, 8-22	2.6	40
173	Prevention of the degeneration of human dopaminergic neurons in an astrocyte co-culture system allowing endogenous drug metabolism. <i>British Journal of Pharmacology</i> , 2015 , 172, 4119-32	8.6	39
172	Calpain inhibitors prevent nitric oxide-triggered excitotoxic apoptosis. <i>NeuroReport</i> , 2001 , 12, 3645-8	1.7	39
171	Stem Cell-Derived Immature Human Dorsal Root Ganglia Neurons to Identify Peripheral Neurotoxicants. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 476-87	6.9	39
170	Poly(ADP-ribose) glycohydrolase as a target for neuroprotective intervention: assessment of currently available pharmacological tools. <i>European Journal of Pharmacology</i> , 2004 , 497, 7-16	5.3	38
169	Selective proteolysis of the nuclear replication factor MCM3 in apoptosis. <i>Experimental Cell Research</i> , 1998 , 238, 415-21	4.2	38
168	Caspase-mediated apoptosis in neuronal excitotoxicity triggered by nitric oxide. <i>Molecular Medicine</i> , 1997 , 3, 750-64	6.2	38
167	Cellular resilience. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2015 , 32, 247-60	4.3	37
166	The biological and ethical basis of the use of human embryonic stem cells for in vitro test systems or cell therapy. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008 , 163-190	4.3	36
165	The NOX1/4 inhibitor GKT136901 as selective and direct scavenger of peroxynitrite. <i>Current Medicinal Chemistry</i> , 2014 , 21, 365-76	4.3	36
164	Novel technologies and an overall strategy to allow hazard assessment and risk prediction of chemicals, cosmetics, and drugs with animal-free methods. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2012 , 29, 373-88	4.3	35
163	Synthesis of ganglioside GD3 and its comparison with bovine GD3 with regard to oligodendrocyte apoptosis mitochondrial damage. <i>Chemistry - A European Journal</i> , 2001 , 7, 2178-84	4.8	34

162	Differential effects of Bcl-2 overexpression on fibre outgrowth and survival of embryonic dopaminergic neurons in intracerebral transplants. <i>European Journal of Neuroscience</i> , 1999 , 11, 3073-81	3.5	34
161	Food for thought ... considerations and guidelines for basic test method descriptions in toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2010 , 27, 309-17	4.3	34
160	Canagliflozin mediated dual inhibition of mitochondrial glutamate dehydrogenase and complex I: an off-target adverse effect. <i>Cell Death and Disease</i> , 2018 , 9, 226	9.8	33
159	Loss of DJ-1 impairs antioxidant response by altered glutamine and serine metabolism. <i>Neurobiology of Disease</i> , 2016 , 89, 112-25	7.5	33
158	Current approaches and future role of high content imaging in safety sciences and drug discovery. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014 , 31, 479-93	4.3	33
157	CEP-11004, an inhibitor of the SAPK/JNK pathway, reduces TNF-alpha release from lipopolysaccharide-treated cells and mice. <i>European Journal of Pharmacology</i> , 2005 , 515, 179-87	5.3	31
156	The 55-kD tumor necrosis factor receptor and CD95 independently signal murine hepatocyte apoptosis and subsequent liver failure. <i>Molecular Medicine</i> , 1996 , 2, 109-24	6.2	31
155	The dawning of a new age of toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008 , 25, 103-14	4.3	31
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153	Differential effects of bcl-2 on cell death triggered under ATP-depleting conditions. <i>Experimental Cell Research</i> , 2001 , 262, 8-16	4.2	30
152	Switching from astrocytic neuroprotection to neurodegeneration by cytokine stimulation. <i>Archives of Toxicology</i> , 2017 , 91, 231-246	5.8	29
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148	Definition of transcriptome-based indices for quantitative characterization of chemically disturbed stem cell development: introduction of the STOP-Tox and STOP-Tox tests. <i>Archives of Toxicology</i> , 2017 , 91, 839-864	5.8	28
147	Epigenetics and transcriptomics to detect adverse drug effects in model systems of human development. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014 , 115, 59-68	3.1	28
146	A role for mixed lineage kinases in granule cell apoptosis induced by cytoskeletal disruption. <i>Journal of Neurochemistry</i> , 2006 , 96, 1242-52	6	28
145	Execution of apoptosis: converging or diverging pathways?. <i>Biological Chemistry</i> , 1999 , 380, 1035-40	4.5	28

144	A high-throughput approach to identify specific neurotoxicants/ developmental toxicants in human neuronal cell function assays. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018 , 35, 235-253	4.3	27
143	Internationalization of read-across as a validated new approach method (NAM) for regulatory toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020 , 37, 579-606	4.3	27
142	Identification of transcriptome signatures and biomarkers specific for potential developmental toxicants inhibiting human neural crest cell migration. <i>Archives of Toxicology</i> , 2016 , 90, 159-80	5.8	26
141	ATP controls neuronal apoptosis triggered by microtubule breakdown or potassium deprivation. <i>Molecular Medicine</i> , 1999 , 5, 477-89	6.2	26
140	The biological and ethical basis of the use of human embryonic stem cells for in vitro test systems or cell therapy. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008 , 25, 163-90	4.3	26
139	Toward Good In Vitro Reporting Standards. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019 , 36, 3-17	4.3	25
138	Apoptosis in caspase-inhibited neurons. <i>Molecular Medicine</i> , 2001 , 7, 36-48	6.2	25
137	Systems Toxicology: The Future of Risk Assessment. <i>International Journal of Toxicology</i> , 2015 , 34, 346-8	2.4	24
136	Functional and phenotypic differences of pure populations of stem cell-derived astrocytes and neuronal precursor cells. <i>Glia</i> , 2016 , 64, 695-715	9	24
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134	Optimizing drug discovery by Investigative Toxicology: Current and future trends. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019 , 36, 289-313	4.3	24
133	Conversion of Nonproliferating Astrocytes into Neurogenic Neural Stem Cells: Control by FGF2 and Interferon- γ . <i>Stem Cells</i> , 2016 , 34, 2861-2874	5.8	24
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130	Preferential Extracellular Generation of the Active Parkinsonian Toxin MPP ⁺ by Transporter-Independent Export of the Intermediate MPDP ⁺ . <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 1001-16	8.4	23
129	Acrylamide alters neurotransmitter induced calcium responses in murine ESC-derived and primary neurons. <i>NeuroToxicology</i> , 2014 , 43, 117-126	4.4	23
128	Human Pluripotent Stem Cell Based Developmental Toxicity Assays for Chemical Safety Screening and Systems Biology Data Generation. <i>Journal of Visualized Experiments</i> , 2015 , e52333	1.6	23
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125	Impairment of glutamate signaling in mouse central nervous system neurons in vitro by tri-ortho-cresyl phosphate at noncytotoxic concentrations. <i>Toxicological Sciences</i> , 2014 , 142, 274-84	4.4	22
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122	Toxicogenomics directory of rat hepatotoxicants in vivo and in cultivated hepatocytes. <i>Archives of Toxicology</i> , 2018 , 92, 3517-3533	5.8	22
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82	Food for thought... on the real success of 3R approaches. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008 , 25, 17-32	4.3	11
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80	Mitochondrial signals and energy requirement in cell death. <i>Cell Death and Differentiation</i> , 1997 , 4, 516	12.7	10
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70	Neurotoxicity and underlying cellular changes of 21 mitochondrial respiratory chain inhibitors. <i>Archives of Toxicology</i> , 2021 , 95, 591-615	5.8	9
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62	New European Union statistics on laboratory animal use - what really counts!. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020 , 37, 167-186	4.3	6
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41	Acute effects of the imidacloprid metabolite desnitro-imidacloprid on human nACh receptors relevant for neuronal signaling. <i>Archives of Toxicology</i> , 2021 , 95, 3695-3716	5.8	3
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22	Excitotoxicity. <i>Cell Death and Differentiation</i> , 1997 , 4, 517-8	12.7	1
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20	Automated Image Processing to Quantify Cell Migration. <i>Informatik Aktuell</i> , 2013 , 152-157	0.3	1
19	A human stem cell-derived test system for agents modifying neuronal N-methyl-D-aspartate-type glutamate receptor Ca-signalling. <i>Archives of Toxicology</i> , 2021 , 95, 1703-1722	5.8	1

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11	The Rise of Three Rs Centres and Platforms in Europe.. <i>ATLA Alternatives To Laboratory Animals</i> , 2022 , 2611929221099165	2.1	0
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7	Inside Cover: Autoproteolytic Fragments Are Intermediates in the Oligomerization/Aggregation of the Parkinson's Disease Protein Alpha-Synuclein as Revealed by Ion Mobility Mass Spectrometry (ChemBioChem 18/2011). <i>ChemBioChem</i> , 2011 , 12, 2706-2706	3.8	
6	Excitotoxins, nitric oxide and programmed neuronal death. <i>Advances in Cell Aging and Gerontology</i> , 2001 , 323-347		
5	Tunicamycin potently inhibits tumor necrosis factor-induced hepatocyte apoptosis. <i>European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section</i> , 1995 , 292, 201-4		
4	From Caspases to Alternative Cell-Death Mechanisms 2003 , 101-122		
3	Strategy to replace animal-derived ECM by a modular and highly defined matrix. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020 , 37, 482-489	4.3	
2	Identifying, naming and documenting of test and tool compound stocks. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021 , 38, 177-182	4.3	
1	Application of the 3Rs principles in the development of pharmaceutical generics. <i>Regulatory Toxicology and Pharmacology</i> , 2021 , 125, 105016	3.4	

