Marcel Leist

List of Publications by Year in Descending Order

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	A framework for chemical safety assessment incorporating new approach methodologies within REACH.. *Archives of Toxicology*, **2022**, 96, 743	5.8	2
322	A quantitative AOP of mitochondrial toxicity based on data from three cell lines.. *Toxicology in Vitro* , **2022**, 105345	3.6	2
321	The Rise of Three Rs Centres and Platforms in Europe.. *ATLA Alternatives To Laboratory Animals*, **2022**, 2611929221099165	2.1	0
320	Examination of microcystin neurotoxicity using central and peripheral human neurons. *ALTEX: Alternatives To Animal Experimentation*, **2021**, 38, 73-81	4.3	1
319	Circulating (poly)phenol Metabolites: Neuroprotection in a 3D Cell Model of Parkinson's Disease.. *Molecular Nutrition and Food Research*, **2021**, e2100959	5.9	0
318	Mapping the cellular response to electron transport chain inhibitors reveals selective signaling networks triggered by mitochondrial perturbation. *Archives of Toxicology*, **2021**, 1	5.8	2
317	Acute effects of the imidacloprid metabolite desnitro-imidacloprid on human nACh receptors relevant for neuronal signaling. *Archives of Toxicology*, **2021**, 95, 3695-3716	5.8	3
316	The hepatocyte export carrier inhibition assay improves the separation of hepatotoxic from non-hepatotoxic compounds. *Chemico-Biological Interactions*, **2021**, 351, 109728	5	4
315	A human stem cell-derived test system for agents modifying neuronal N-methyl-D-aspartate-type glutamate receptor Ca-signalling. *Archives of Toxicology*, **2021**, 95, 1703-1722	5.8	1
314	The Role of Astrocytes in the Neurorepair Process. *Frontiers in Cell and Developmental Biology*, **2021** , 9, 665795	5.7	6
313	Stimulation of de novo glutathione synthesis by nitrofurantoin for enhanced resilience of hepatocytes. *Cell Biology and Toxicology*, **2021**, 1	7.4	0
312	Neurodevelopmental toxicity assessment of flame retardants using a human DNT in vitro testing battery. *Cell Biology and Toxicology*, **2021**, 1	7.4	10
311	Impairment of neuronal mitochondrial function by L-DOPA in the absence of oxygen-dependent auto-oxidation and oxidative cell damage. *Cell Death Discovery*, **2021**, 7, 151	6.9	1
310	Human neuronal signaling and communication assays to assess functional neurotoxicity. *Archives of Toxicology*, **2021**, 95, 229-252	5.8	3
309	Shortened derivatives from native antimicrobial peptide LyeTx I: and biological activity assessment. *Experimental Biology and Medicine*, **2021**, 246, 414-425	3.7	2
308	Comparing in vitro human liver models to in vivo human liver using RNA-Seq. *Archives of Toxicology*, **2021**, 95, 573-589	5.8	12
307	New approach methods (NAMs) supporting read-across: Two neurotoxicity AOP-based IATA case studies. *ALTEX: Alternatives To Animal Experimentation*, **2021**, 38, 615-635	4.3	2

306	Identifying, naming and documenting of test and tool compound stocks. *ALTEX: Alternatives To Animal Experimentation*, **2021**, 38, 177-182	4.3	
305	Functional alterations by a subgroup of neonicotinoid pesticides in human dopaminergic neurons. *Archives of Toxicology*, **2021**, 95, 2081-2107	5.8	4
304	25th anniversary of the Berlin workshop on developmental toxicology: DevTox database update, challenges in risk assessment of developmental neurotoxicity and alternative methodologies in bone development and growth. *Reproductive Toxicology*, **2021**, 100, 155-162	3.4	3
303	Integration of temporal single cell cellular stress response activity with logic-ODE modeling reveals activation of ATF4-CHOP axis as a critical predictor of drug-induced liver injury. *Biochemical Pharmacology*, **2021**, 190, 114591	6	0
302	Application of the 3Rs principles in the development of pharmaceutical generics. *Regulatory Toxicology and Pharmacology*, **2021**, 125, 105016	3.4	
301	Neurotoxicity and underlying cellular changes of 21 mitochondrial respiratory chain inhibitors. *Archives of Toxicology*, **2021**, 95, 591-615	5.8	9
300	The influence of structural gradients in large pore organosilica materials on the capabilities for hosting cellular communities.. *RSC Advances*, **2020**, 10, 17327-17335	3.7	1
299	The ENDpoiNTs Project: Novel Testing Strategies for Endocrine Disruptors Linked to Developmental Neurotoxicity. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	11
298	Design and evaluation of bi-functional iron chelators for protection of dopaminergic neurons from toxicants. *Archives of Toxicology*, **2020**, 94, 3105-3123	5.8	6
297	Multiparametric assessment of mitochondrial respiratory inhibition in HepG2 and RPTEC/TERT1 cells using a panel of mitochondrial targeting agrochemicals. *Archives of Toxicology*, **2020**, 94, 2707-2729	5.8	13
296	The EU-ToxRisk method documentation, data processing and chemical testing pipeline for the regulatory use of new approach methods. *Archives of Toxicology*, **2020**, 94, 2435-2461	5.8	12
295	Pharmacological LRH-1/Nr5a2 inhibition limits pro-inflammatory cytokine production in macrophages and associated experimental hepatitis. *Cell Death and Disease*, **2020**, 11, 154	9.8	8
294	Lapachol acetylglycosylation enhances its cytotoxic and pro-apoptotic activities in HL60 cells. *Toxicology in Vitro*, **2020**, 65, 104772	3.6	4
293	Identification of mitochondrial toxicants by combined in silico and in vitro studies A structure-based view on the adverse outcome pathway. *Computational Toxicology*, **2020**, 14, 100123	3.1	7
292	Incorporation of stem cell-derived astrocytes into neuronal organoids to allow neuro-glial interactions in toxicological studies. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 409-428	4.3	11
291	Internationalization of read-across as a validated new approach method (NAM) for regulatory toxicology. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 579-606	4.3	27
290	Biology-inspired microphysiological systems to advance patient benefit and animal welfare in drug development. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 365-394	4.3	66
289	CaFFEE: A program for evaluating time courses of Ca2+ dependent signal changes of complex cells loaded with fluorescent indicator dyes. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 332-336	4.3	4

288	New European Union statistics on laboratory animal use - what really counts!. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 167-186	4.3	6
287	Good Cell and Tissue Culture Practice 2.0 (GCCP 2.0) - Draft for stakeholder discussion and call for action. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 490-492	4.3	10
286	Chemical concentrations in cell culture compartments (C5) - free concentrations. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 693-708	4.3	3
285	Strategy to replace animal-derived ECM by a modular and highly defined matrix. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 482-489	4.3	
284	Development of a neural rosette formation assay (RoFA) to identify neurodevelopmental toxicants and to characterize their transcriptome disturbances. *Archives of Toxicology*, **2020**, 94, 151-171	5.8	13
283	Thiazolides promote G1 cell cycle arrest in colorectal cancer cells by targeting the mitochondrial respiratory chain. *Oncogene*, **2020**, 39, 2345-2357	9.2	16
282	Time and space-resolved quantification of plasma membrane sialylation for measurements of cell function and neurotoxicity. *Archives of Toxicology*, **2020**, 94, 449-467	5.8	6
281	Comparison of points of departure between subchronic and chronic toxicity studies on food additives, food contaminants and natural food constituents. *Food and Chemical Toxicology*, **2020**, 146, 111784	4.7	2
280	Establishment of an a priori protocol for the implementation and interpretation of an in-vitro testing battery for the assessment of developmental neurotoxicity. *EFSA Supporting Publications*, **2020**, 17, 1938E	1.1	16
279	Focus on germ-layer markers: A human stem cell-based model for in vitro teratogenicity testing. *Reproductive Toxicology*, **2020**, 98, 286-298	3.4	6
278	Kinetic modeling of stem cell transcriptome dynamics to identify regulatory modules of normal and disturbed neuroectodermal differentiation. *Nucleic Acids Research*, **2020**, 48, 12577-12592	20.1	3
277	Handling deviating control values in concentration-response curves. *Archives of Toxicology*, **2020**, 94, 3787-3798	5.8	4
276	Setting the stage for next-generation risk assessment with non-animal approaches: the EU-ToxRisk project experience. *Archives of Toxicology*, **2020**, 94, 3581-3592	5.8	9
275	Alzheimer's Risk Gene TREM2 Determines Functional Properties of New Type of Human iPSC-Derived Microglia. *Frontiers in Immunology*, **2020**, 11, 617860	8.4	10
274	DNA Hydrogels: Functionalized DNA Hydrogels Produced by Polymerase-Catalyzed Incorporation of Non-Natural Nucleotides as a Surface Coating for Cell Culture Applications (Adv. Healthcare Mater. 9/2019). *Advanced Healthcare Materials*, **2019**, 8, 1970039	10.1	
273	Reductive modification of genetically encoded 3-nitrotyrosine sites in alpha synuclein expressed in E.coli. *Redox Biology*, **2019**, 26, 101251	11.3	12
272	Development of a neurotoxicity assay that is tuned to detect mitochondrial toxicants. *Archives of Toxicology*, **2019**, 93, 1585-1608	5.8	20
271	Paradigm shift in safety assessment using new approach methods: The EU-ToxRisk strategy. *Current Opinion in Toxicology*, **2019**, 15, 33-39	4.4	5

270	Functionalized DNA Hydrogels Produced by Polymerase-Catalyzed Incorporation of Non-Natural Nucleotides as a Surface Coating for Cell Culture Applications. *Advanced Healthcare Materials*, **2019**, 8, e1900080	10.1	11
269	Advancing human health risk assessment. *EFSA Journal*, **2019**, 17, e170712	2.3	19
268	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. *Archives of Toxicology*, **2019**, 93, 1609-1637	5.8	53
267	Optimizing drug discovery by Investigative Toxicology: Current and future trends. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 289-313	4.3	24
266	Toward Good In Vitro Reporting Standards. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 3-17	4.3	25
265	Template for the description of cell-based toxicological test methods to allow evaluation and regulatory use of the data. *ALTEX: Alternatives To Animal Experimentation*, **2019**, 36, 682-699	4.3	22
264	The synthetic peptide LyeTxI-b derived from Lycosa erythrognatha spider venom is cytotoxic to U-87 MG glioblastoma cells. *Amino Acids*, **2019**, 51, 433-449	3.5	6
263	The Center for Alternatives to Animal Testing in the USA and Europe **2019**, 109-117		2
262	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	4.6	69
261	Canagliflozin mediated dual inhibition of mitochondrial glutamate dehydrogenase and complex I: an off-target adverse effect. *Cell Death and Disease*, **2018**, 9, 226	9.8	33
260	Stage-specific metabolic features of differentiating neurons: Implications for toxicant sensitivity. *Toxicology and Applied Pharmacology*, **2018**, 354, 64-80	4.6	21
259	Toxicity, recovery, and resilience in a 3D dopaminergic neuronal in vitro model exposed to rotenone. *Archives of Toxicology*, **2018**, 92, 2587-2606	5.8	18
258	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	4.3	58
257	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	4.3	27
256	Essential components of methods papers. *ALTEX: Alternatives To Animal Experimentation*, **2018**, 35, 429-432	4.3	2
255	Animal testing and its alternatives - the most important omics is economics. *ALTEX: Alternatives To Animal Experimentation*, **2018**, 35, 275-305	4.3	55
254	An adverse outcome pathway for parkinsonian motor deficits associated with mitochondrial complex I inhibition. *Archives of Toxicology*, **2018**, 92, 41-82	5.8	51
253	A structure-activity relationship linking non-planar PCBs to functional deficits of neural crest cells: new roles for connexins. *Archives of Toxicology*, **2018**, 92, 1225-1247	5.8	9

252	Recommendation on test readiness criteria for new approach methods in toxicology: Exemplified for developmental neurotoxicity. *ALTEX: Alternatives To Animal Experimentation*, **2018**, 35, 306-352	4.3	71
251	Major changes of cell function and toxicant sensitivity in cultured cells undergoing mild, quasi-natural genetic drift. *Archives of Toxicology*, **2018**, 92, 3487-3503	5.8	12
250	Toxicogenomics directory of rat hepatotoxicants in vivo and in cultivated hepatocytes. *Archives of Toxicology*, **2018**, 92, 3517-3533	5.8	22
249	Prevention of neuronal apoptosis by astrocytes through thiol-mediated stress response modulation and accelerated recovery from proteotoxic stress. *Cell Death and Differentiation*, **2018**, 25, 2101-2117	12.7	17
248	Relevance of the incubation period in cytotoxicity testing with primary human hepatocytes. *Archives of Toxicology*, **2018**, 92, 3505-3515	5.8	22
247	HSP90-incorporating chaperome networks as biosensor for disease-related pathways in patient-specific midbrain dopamine neurons. *Nature Communications*, **2018**, 9, 4345	17.4	22
246	Carbamylated Erythropoietin Decreased Proliferation and Neurogenesis in the Subventricular Zone, but Not the Dentate Gyrus, After Irradiation to the Developing Rat Brain. *Frontiers in Neurology*, **2018**, 9, 738	4.1	6
245	Reduced A□secretion by human neurons under□conditions of strongly increased BACE activity. *Journal of Neurochemistry*, **2018**, 147, 256-274	6	3
244	Increasing the Resistance of Living Cells against Oxidative Stress by Nonnatural Surfactants as Membrane Guards. *ACS Applied Materials & Interfaces*, **2018**, 10, 23638-23646	9.5	6
243	Correlation of structural features of novel 1,2,3-triazoles with their neurotoxic and tumoricidal properties. *Chemico-Biological Interactions*, **2018**, 291, 253-263	5	11
242	Multiparameter toxicity assessment of novel DOPO-derived organophosphorus flame retardants. *Archives of Toxicology*, **2017**, 91, 407-425	5.8	52
241	Definition of transcriptome-based indices for quantitative characterization of chemically disturbed stem cell development: introduction of the STOP-Tox and STOP-Tox tests. *Archives of Toxicology*, **2017**, 91, 839-864	5.8	28
240	Fingerprinting of neurotoxic compounds using a mouse embryonic stem cell dual luminescence reporter assay. *Archives of Toxicology*, **2017**, 91, 365-391	5.8	11
239	Quantification of Metabolic Rearrangements During Neural Stem Cells Differentiation into Astrocytes by Metabolic Flux Analysis. *Neurochemical Research*, **2017**, 42, 244-253	4.6	17
238	Switching from astrocytic neuroprotection to neurodegeneration by cytokine stimulation. *Archives of Toxicology*, **2017**, 91, 231-246	5.8	29
237	Tipping Points and Endogenous Determinants of Nigrostriatal Degeneration by MPTP. *Trends in Pharmacological Sciences*, **2017**, 38, 541-555	13.2	42
236	Combination of multiple neural crest migration assays to identify environmental toxicants from a proof-of-concept chemical library. *Archives of Toxicology*, **2017**, 91, 3613-3632	5.8	21
235	Chemical exposure and infant leukaemia: development of an adverse outcome pathway (AOP) for aetiology and risk assessment research. *Archives of Toxicology*, **2017**, 91, 2763-2780	5.8	11

234	Impairment of human neural crest cell migration by prolonged exposure to interferon-beta. *Archives of Toxicology*, **2017**, 91, 3385-3402	5.8	5
233	Stem Cell Transcriptome Responses and Corresponding Biomarkers That Indicate the Transition from Adaptive Responses to Cytotoxicity. *Chemical Research in Toxicology*, **2017**, 30, 905-922	4	23
232	Simultaneous IR-Spectroscopic Observation of □Synuclein, Lipids, and Solvent Reveals an Alternative Membrane-Induced Oligomerization Pathway. *ChemBioChem*, **2017**, 18, 2312-2316	3.8	7
231	Adverse outcome pathways: opportunities, limitations and open questions. *Archives of Toxicology*, **2017**, 91, 3477-3505	5.8	174
230	Reverse-transcription quantitative PCR directly from cells without RNA extraction and without isothermal reverse-transcription: a 'zero-step' RT-qPCR protocol. *Biology Methods and Protocols*, **2017**, 2, bpx008	2.4	3
229	Entwicklungstoxikologische in vitro-Tests mit humanen Zellen. *BioSpektrum*, **2017**, 23, 477-477	0.1	
228	In vitro acute and developmental neurotoxicity screening: an overview of cellular platforms and high-throughput technical possibilities. *Archives of Toxicology*, **2017**, 91, 1-33	5.8	99
227	Investigation into experimental toxicological properties of plant protection products having a potential link to Parkinson's disease and childhood leukaemia. *EFSA Journal*, **2017**, 15, e04691	2.3	12
226	New animal-free concepts and test methods for developmental toxicity and peripheral neurotoxicity. *ATLA Alternatives To Laboratory Animals*, **2017**, 45, 253-260	2.1	0
225	21. Mechanisms of neuronal apoptosis elicited by glutamate or nitric oxide donors **2017**, 213-218		
224	Design of a high-throughput human neural crest cell migration assay to indicate potential developmental toxicants. *ALTEX: Alternatives To Animal Experimentation*, **2017**, 34, 75-94	4.3	19
223	Good Cell Culture Practice for stem cells and stem-cell-derived models. *ALTEX: Alternatives To Animal Experimentation*, **2017**, 34, 95-132	4.3	61
222	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	4.3	56
221	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	4.3	76
220	Stem cell microscopic image segmentation using supervised normalized cuts **2016**,		3
219	Major Histocompatibility Complex class I proteins are critical for maintaining neuronal structural complexity in the aging brain. *Scientific Reports*, **2016**, 6, 26199	4.9	22
218	Comparison of a teratogenic transcriptome-based predictive test based on human embryonic versus inducible pluripotent stem cells. *Stem Cell Research and Therapy*, **2016**, 7, 190	8.3	20
217	Functional and phenotypic differences of pure populations of stem cell-derived astrocytes and neuronal precursor cells. *Glia*, **2016**, 64, 695-715	9	24

216	Identification of transcriptome signatures and biomarkers specific for potential developmental toxicants inhibiting human neural crest cell migration. *Archives of Toxicology*, **2016**, 90, 159-80	5.8	26
215	A LUHMES 3D dopaminergic neuronal model for neurotoxicity testing allowing long-term exposure and cellular resilience analysis. *Archives of Toxicology*, **2016**, 90, 2725-2743	5.8	49
214	Loss of DJ-1 impairs antioxidant response by altered glutamine and serine metabolism. *Neurobiology of Disease*, **2016**, 89, 112-25	7.5	33
213	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. *ALTEX: Alternatives To Animal Experimentation*, **2016**, 33, 272-321	4.3	161
212	Astrocyte Differentiation of Human Pluripotent Stem Cells: New Tools for Neurological Disorder Research. *Frontiers in Cellular Neuroscience*, **2016**, 10, 215	6.1	86
211	Conversion of Nonproliferating Astrocytes into Neurogenic Neural Stem Cells: Control by FGF2 and Interferon-□*Stem Cells*, **2016**, 34, 2861-2874	5.8	24
210	Stem Cell-Derived Immature Human Dorsal Root Ganglia Neurons to Identify Peripheral Neurotoxicants. *Stem Cells Translational Medicine*, **2016**, 5, 476-87	6.9	39
209	Neuronal developmental gene and miRNA signatures induced by histone deacetylase inhibitors in human embryonic stem cells. *Cell Death and Disease*, **2015**, 6, e1756	9.8	23
208	Toxicity of organic and inorganic mercury species in differentiated human neurons and human astrocytes. *Journal of Trace Elements in Medicine and Biology*, **2015**, 32, 200-8	4.1	77
207	International STakeholder NETwork (ISTNET): creating a developmental neurotoxicity (DNT) testing road map for regulatory purposes. *Archives of Toxicology*, **2015**, 89, 269-87	5.8	107
206	Systems Toxicology: The Future of Risk Assessment. *International Journal of Toxicology*, **2015**, 34, 346-8	2.4	24
205	Prevention of the degeneration of human dopaminergic neurons in an astrocyte co-culture system allowing endogenous drug metabolism. *British Journal of Pharmacology*, **2015**, 172, 4119-32	8.6	39
204	Preferential Extracellular Generation of the Active Parkinsonian Toxin MPP+ by Transporter-Independent Export of the Intermediate MPDP+. *Antioxidants and Redox Signaling*, **2015**, 23, 1001-16	8.4	23
203	Grouping of histone deacetylase inhibitors and other toxicants disturbing neural crest migration by transcriptional profiling. *NeuroToxicology*, **2015**, 50, 56-70	4.4	19
202	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, 1599-618	5.8	50
201	Human Pluripotent Stem Cell Based Developmental Toxicity Assays for Chemical Safety Screening and Systems Biology Data Generation. *Journal of Visualized Experiments*, **2015**, e52333	1.6	23
200	Toxicity testing in the 21st century beyond environmental chemicals. *ALTEX: Alternatives To Animal Experimentation*, **2015**, 32, 171-81	4.3	62
199	Animal use for science in Europe. *ALTEX: Alternatives To Animal Experimentation*, **2015**, 32, 261-74	4.3	21

198	Cellular resilience. *ALTEX: Alternatives To Animal Experimentation*, **2015**, 32, 247-60	4.3	37
197	Non-animal models of epithelial barriers (skin, intestine and lung) in research, industrial applications and regulatory toxicology. *ALTEX: Alternatives To Animal Experimentation*, **2015**, 32, 327-78	4.3	82
196	Targeting chelatable iron as a therapeutic modality in Parkinson's disease. *Antioxidants and Redox Signaling*, **2014**, 21, 195-210	8.4	357
195	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	5.8	44
194	Spatial control of Cdc42 signalling by a GM130-RasGRF complex regulates polarity and tumorigenesis. *Nature Communications*, **2014**, 5, 4839	17.4	61
193	Design principles of concentration-dependent transcriptome deviations in drug-exposed differentiating stem cells. *Chemical Research in Toxicology*, **2014**, 27, 408-20	4	64
192	Alpha-synuclein binds to the inner membrane of mitochondria in an α-helical conformation. *ChemBioChem*, **2014**, 15, 2499-502	3.8	60
191	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, 1451-68	5.8	43
190	Identification and affinity-quantification of β-amyloid and β-synuclein polypeptides using on-line SAW-biosensor-mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **2014**, 25, 1472-81	3.5	11
189	Acrylamide alters neurotransmitter induced calcium responses in murine ESC-derived and primary neurons. *NeuroToxicology*, **2014**, 43, 117-126	4.4	23
188	Toxicogenomics directory of chemically exposed human hepatocytes. *Archives of Toxicology*, **2014**, 88, 2261-87	5.8	74
187	Transcriptional and metabolic adaptation of human neurons to the mitochondrial toxicant MPP(+). *Cell Death and Disease*, **2014**, 5, e1222	9.8	69
186	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	9.8	120
185	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 441-77	4.3	122
184	Instruments for assessing risk of bias and other methodological criteria of animal studies: omission of well-established methods. *Environmental Health Perspectives*, **2014**, 122, A66-7	8.4	1
183	Impairment of glutamate signaling in mouse central nervous system neurons in vitro by tri-ortho-cresyl phosphate at noncytotoxic concentrations. *Toxicological Sciences*, **2014**, 142, 274-84	4.4	22
182	Epigenetics and transcriptomics to detect adverse drug effects in model systems of human development. *Basic and Clinical Pharmacology and Toxicology*, **2014**, 115, 59-68	3.1	28
181	Developmental neurotoxicity - challenges in the 21st century and in vitro opportunities. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 129-56	4.3	82

180	Lineage-specific regulation of epigenetic modifier genes in human liver and brain. *PLoS ONE*, **2014**, 9, e102035	3.7	21
179	Current approaches and future role of high content imaging in safety sciences and drug discovery. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 479-93	4.3	33
178	Consensus report on the future of animal-free systemic toxicity testing. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 341-56	4.3	95
177	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	4.3	67
176	The NOX1/4 inhibitor GKT136901 as selective and direct scavenger of peroxynitrite. *Current Medicinal Chemistry*, **2014**, 21, 365-76	4.3	36
175	Application of Omics Technologies to In Vitro Toxicology. *Methods in Pharmacology and Toxicology*, **2014**, 399-432	1.1	2
174	Evaluation of a human neurite growth assay as specific screen for developmental neurotoxicants. *Archives of Toxicology*, **2013**, 87, 2215-31	5.8	101
173	Inflammatory findings on species extrapolations: humans are definitely no 70-kg mice. *Archives of Toxicology*, **2013**, 87, 563-7	5.8	104
172	A 3-dimensional human embryonic stem cell (hESC)-derived model to detect developmental neurotoxicity of nanoparticles. *Archives of Toxicology*, **2013**, 87, 721-33	5.8	66
171	Monocrotophos in Gandaman village: India school lunch deaths and need for improved toxicity testing. *Archives of Toxicology*, **2013**, 87, 1877-81	5.8	22
170	Oxidative and nitrative alpha-synuclein modifications and proteostatic stress: implications for disease mechanisms and interventions in synucleinopathies. *Journal of Neurochemistry*, **2013**, 125, 491-511	6	102
169	Control of A release from human neurons by differentiation status and RET signaling. *Neurobiology of Aging*, **2013**, 34, 184-99	5.6	12
168	Human embryonic stem cell-derived test systems for developmental neurotoxicity: a transcriptomics approach. *Archives of Toxicology*, **2013**, 87, 123-43	5.8	157
167	Metabolomics in toxicology and preclinical research. *ALTEX: Alternatives To Animal Experimentation*, **2013**, 30, 209-25	4.3	135
166	Reprint: Inflammatory findings on species extrapolations: humans are definitely no 70-kg mice. *ALTEX: Alternatives To Animal Experimentation*, **2013**, 30, 227-30	4.3	20
165	Generation of genetically-modified human differentiated cells for toxicological tests and the study of neurodegenerative diseases. *ALTEX: Alternatives To Animal Experimentation*, **2013**, 30, 427-44	4.3	44
164	A roadmap for hazard monitoring and risk assessment of marine biotoxins on the basis of chemical and biological test systems. *ALTEX: Alternatives To Animal Experimentation*, **2013**, 30, 487-545	4.3	22
163	Automated Image Processing to Quantify Cell Migration. *Informatik Aktuell*, **2013**, 152-157	0.3	1

162	GFAP-independent inflammatory competence and trophic functions of astrocytes generated from murine embryonic stem cells. *Glia*, **2012**, 60, 218-28	9	30
161	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, 4104-14	5.6	77
160	Translating neurobehavioural endpoints of developmental neurotoxicity tests into in vitro assays and readouts. *NeuroToxicology*, **2012**, 33, 911-24	4.4	68
159	Uncoupling of ATP-depletion and cell death in human dopaminergic neurons. *NeuroToxicology*, **2012**, 33, 769-79	4.4	29
158	Validation and quality control of replacement alternatives □current status and future challenges. *Toxicology Research*, **2012**, 1, 8-22	2.6	40
157	Locally resolved membrane binding affinity of the N-terminus of □synuclein. *Biochemistry*, **2012**, 51, 3960-2	3.2	24
156	Extensive transcriptional regulation of chromatin modifiers during human neurodevelopment. *PLoS ONE*, **2012**, 7, e36708	3.7	19
155	Compound selection for in vitro modeling of developmental neurotoxicity. *Frontiers in Bioscience - Landmark*, **2012**, 17, 2442-60	2.8	57
154	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, 1116-22	8.4	80
153	Autocatalytic nitration of prostaglandin endoperoxide synthase-2 by nitrite inhibits prostanoid formation in rat alveolar macrophages. *Antioxidants and Redox Signaling*, **2012**, 17, 1393-406	8.4	8
152	A roadmap for the development of alternative (non-animal) methods for systemic toxicity testing. *ALTEX: Alternatives To Animal Experimentation*, **2012**, 29, 3-91	4.3	153
151	Characterization of mouse cell line IMA 2.1 as a potential model system to study astrocyte functions. *ALTEX: Alternatives To Animal Experimentation*, **2012**, 29, 261-74	4.3	16
150	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, 373-88	4.3	35
149	The use of biomarkers of toxicity for integrating in vitro hazard estimates into risk assessment for humans. *ALTEX: Alternatives To Animal Experimentation*, **2012**, 29, 411-25	4.3	66
148	Combined anti-inflammatory effects of □-adrenergic agonists and PDE4 inhibitors on astrocytes by upregulation of intracellular cAMP. *Neurochemistry International*, **2011**, 59, 837-46	4.4	20
147	Rapid, complete and large-scale generation of post-mitotic neurons from the human LUHMES cell line. *Journal of Neurochemistry*, **2011**, 119, 957-71	6	186
146	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, 383-95	12.7	69
145	Autoproteolytic fragments are intermediates in the oligomerization/aggregation of the Parkinson's disease protein alpha-synuclein as revealed by ion mobility mass spectrometry. *ChemBioChem*, **2011** , 12, 2740-4	3.8	29

144	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). *ChemBioChem*, **2011**, 12, 2706-2706	3.8	
143	Sensitivity of dopaminergic neuron differentiation from stem cells to chronic low-dose methylmercury exposure. *Toxicological Sciences*, **2011**, 121, 357-67	4.4	57
142	Assessment of chemical-induced impairment of human neurite outgrowth by multiparametric live cell imaging in high-density cultures. *Toxicological Sciences*, **2011**, 121, 73-87	4.4	87
141	Neuroprotection by minocycline caused by direct and specific scavenging of peroxynitrite. *Journal of Biological Chemistry*, **2011**, 286, 4991-5002	5.4	74
140	TLR2 hypersensitivity of astrocytes as functional consequence of previous inflammatory episodes. *Journal of Immunology*, **2011**, 186, 3237-47	5.3	44
139	Critical evaluation of the use of dogs in biomedical research and testing in Europe. *ALTEX: Alternatives To Animal Experimentation*, **2011**, 28, 326-40	4.3	44
138	A framework program for the teaching of alternative methods (replacement, reduction, refinement) to animal experimentation. *ALTEX: Alternatives To Animal Experimentation*, **2011**, 28, 341-52	4.3	17
137	Reduced immunoproteasome formation and accumulation of immunoproteasomal precursors in the brains of lymphocytic choriomeningitis virus-infected mice. *Journal of Immunology*, **2010**, 185, 5549-60	5.3	51
136	Erythropoietin: not just about erythropoiesis. *Lancet, The*, **2010**, 375, 2142	40	41
135	The network formation assay: a spatially standardized neurite outgrowth analytical display for neurotoxicity screening. *Lab on A Chip*, **2010**, 10, 701-9	7.2	92
134	The Center for Alternatives to Animal Testing - Europe (CAAT-EU): a transatlantic bridge for the paradigm shift in toxicology. *ALTEX: Alternatives To Animal Experimentation*, **2010**, 27, 63-9	4.3	6
133	Food for thought ... considerations and guidelines for basic test method descriptions in toxicology. *ALTEX: Alternatives To Animal Experimentation*, **2010**, 27, 309-17	4.3	34
132	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	4.3	76
131	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	4.6	72
130	Measurement of cellular beta-site of APP cleaving enzyme 1 activity and its modulation in neuronal assay systems. *Analytical Biochemistry*, **2009**, 387, 208-20	3.1	6
129	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	4.3	438
128	Food for thought ... on education in alternative methods in toxicology. *ALTEX: Alternatives To Animal Experimentation*, **2009**, 26, 255-63	4.3	4
127	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, 720-8	7	48

126	Molecular basis for detection of invading pathogens in the brain. *Journal of Neuroscience Research*, **2008**, 86, 1434-47	4.4	43
125	Food for thought... on the real success of 3R approaches. *ALTEX: Alternatives To Animal Experimentation*, **2008**, 25, 17-32	4.3	11
124	The dawning of a new age of toxicology. *ALTEX: Alternatives To Animal Experimentation*, **2008**, 103-114	4.3	60
123	Food for thought ... on the evolution of toxicology and the phasing out of animal testing. *ALTEX: Alternatives To Animal Experimentation*, **2008**, 25, 91-102	4.3	48
122	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	4.3	36
121	The dawning of a new age of toxicology. *ALTEX: Alternatives To Animal Experimentation*, **2008**, 25, 103-14	4.3	31
120	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**, 25, 163-90	4.3	26
119	Functional and immunochemical characterisation of different antibodies against the erythropoietin receptor. *Journal of Neuroscience Methods*, **2007**, 164, 50-8	3	56
118	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, 552-63	7.3	120
117	Efficacy of small-molecule glycogen synthase kinase-3 inhibitors in the postnatal rat model of tau hyperphosphorylation. *British Journal of Pharmacology*, **2007**, 152, 959-79	8.6	92
116	Vesicular monoamine transporter 2 regulates the sensitivity of rat dopaminergic neurons to disturbed cytosolic dopamine levels. *Brain Research*, **2007**, 1185, 18-32	3.7	69
115	Pathological apoptosis in the developing brain. *Apoptosis: an International Journal on Programmed Cell Death*, **2007**, 12, 993-1010	5.4	152
114	The Sonic hedgehog pathway mediates carbamylated erythropoietin-enhanced proliferation and differentiation of adult neural progenitor cells. *Journal of Biological Chemistry*, **2007**, 282, 32462-70	5.4	93
113	Wide spectrum modulation by KP-544 in models relevant for neuronal survival. *NeuroReport*, **2007**, 18, 571-5	1.7	2
112	Attenuated amyloid-beta aggregation and neurotoxicity owing to methionine oxidation. *NeuroReport*, **2007**, 18, 559-63	1.7	45
111	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. *Experimental Neurology*, **2007**, 204, 106-17	5.7	67
110	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	3.5	149
109	Nonhematopoietic erythropoietin derivatives prevent motoneuron degeneration in vitro and in vivo. *Molecular Medicine*, **2006**, 12, 153-60	6.2	77

108	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, 279-84	3.5	102
107	Neuroprotective properties of memantine in different in vitro and in vivo models of excitotoxicity. *European Journal of Neuroscience*, **2006**, 23, 2611-22	3.5	138
106	A role for mixed lineage kinases in granule cell apoptosis induced by cytoskeletal disruption. *Journal of Neurochemistry*, **2006**, 96, 1242-52	6	28
105	The inflammatory transcriptome of reactive murine astrocytes and implications for their innate immune function. *Journal of Neurochemistry*, **2006**, 96, 893-907	6	73
104	Increased erythropoietin production after myocardial infarction in mice. *Heart*, **2006**, 92, 838-9	5.1	9
103	Development of Non-Erythropoietic Erythropoietin Variants for Neuroprotection **2006**, 211-219		2
102	Botulinum neurotoxin C initiates two different programs for neurite degeneration and neuronal apoptosis. *Journal of Cell Biology*, **2005**, 168, 607-18	7.3	67
101	Inhibition of microglial inflammation by the MLK inhibitor CEP-1347. *Journal of Neurochemistry*, **2005**, 92, 1439-51	6	54
100	CEP-11004, an inhibitor of the SAPK/JNK pathway, reduces TNF-alpha release from lipopolysaccharide-treated cells and mice. *European Journal of Pharmacology*, **2005**, 515, 179-87	5.3	31
99	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, 6329-42	6.6	184
98	Specific modulation of astrocyte inflammation by inhibition of mixed lineage kinases with CEP-1347. *Journal of Immunology*, **2004**, 173, 2762-70	5.3	54
97	Sensitization to the lysosomal cell death pathway upon immortalization and transformation. *Cancer Research*, **2004**, 64, 5301-10	10.1	123
96	The nonerythropoietic asialoerythropoietin protects against neonatal hypoxia-ischemia as potently as erythropoietin. *Journal of Neurochemistry*, **2004**, 91, 900-10	6	100
95	Irradiation-induced progenitor cell death in the developing brain is resistant to erythropoietin treatment and caspase inhibition. *Cell Death and Differentiation*, **2004**, 11, 1166-78	12.7	97
94	Lysosomes in cell death. *Oncogene*, **2004**, 23, 2881-90	9.2	578
93	Asialoerythropoietin is not effective in the R6/2 line of Huntington's disease mice. *BMC Neuroscience*, **2004**, 5, 17	3.2	58
92	Poly(ADP-ribose) glycohydrolase as a target for neuroprotective intervention: assessment of currently available pharmacological tools. *European Journal of Pharmacology*, **2004**, 497, 7-16	5.3	38
91	Modification of apoptosis-related genes and CD95 signaling in cytokine-treated astrocytes. *Signal Transduction*, **2004**, 4, 17-28		2

90	Improvement of embryonic dopaminergic neurone survival in culture and after grafting into the striatum of hemiparkinsonian rats by CEP-1347. *Journal of Neurochemistry*, **2004**, 88, 698-707	6	12
89	Defined inflammatory states in astrocyte cultures: correlation with susceptibility towards CD95-driven apoptosis. *Journal of Neurochemistry*, **2004**, 88, 181-93	6	72
88	Derivatives of erythropoietin that are tissue protective but not erythropoietic. *Science*, **2004**, 305, 239-42	33.3	668
87	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, 6741-6	11.5	380
86	Overexpression of heat shock protein 70 in R6/2 Huntington's disease mice has only modest effects on disease progression. *Brain Research*, **2003**, 970, 47-57	3.7	106
85	Rapid, noninflammatory and PS-dependent phagocytic clearance of necrotic cells. *Cell Death and Differentiation*, **2003**, 10, 1156-64	12.7	119
84	From Caspases to Alternative Cell-Death Mechanisms **2003**, 101-122		
83	Mitogen-activated protein kinase-activated protein kinase 2-deficient mice show increased susceptibility to Listeria monocytogenes infection. *Journal of Immunology*, **2002**, 168, 4667-73	5.3	64
82	Disialoganglioside GD3 is released by microglia and induces oligodendrocyte apoptosis. *Cell Death and Differentiation*, **2002**, 9, 758-67	12.7	46
81	Eradication of glioblastoma, and breast and colon carcinoma xenografts by Hsp70 depletion. *Cancer Research*, **2002**, 62, 7139-42	10.1	103
80	Excitotoxins, nitric oxide and programmed neuronal death. *Advances in Cell Aging and Gerontology*, **2001**, 323-347		
79	Synthesis of ganglioside GD3 and its comparison with bovine GD3 with regard to oligodendrocyte apoptosis mitochondrial damage. *Chemistry - A European Journal*, **2001**, 7, 2178-84	4.8	34
78	Four deaths and a funeral: from caspases to alternative mechanisms. *Nature Reviews Molecular Cell Biology*, **2001**, 2, 589-98	48.7	1553
77	Caspase-3 activity is present in cerebrospinal fluid from patients with traumatic brain injury. *Journal of Neuroimmunology*, **2001**, 121, 76-8	3.5	41
76	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	7.3	544
75	In vivo and in vitro evidence for extracellular caspase activity released from apoptotic cells. *Biochemical and Biophysical Research Communications*, **2001**, 283, 1111-7	3.4	46
74	Differential effects of bcl-2 on cell death triggered under ATP-depleting conditions. *Experimental Cell Research*, **2001**, 262, 8-16	4.2	30
73	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, 717-31	4.8	73

72	Apoptosis in Caspase-inhibited Neurons. *Molecular Medicine*, **2001**, 7, 36-48	6.2	92
71	Calpain inhibitors prevent nitric oxide-triggered excitotoxic apoptosis. *NeuroReport*, **2001**, 12, 3645-8	1.7	39
70	Apoptosis in caspase-inhibited neurons. *Molecular Medicine*, **2001**, 7, 36-48	6.2	25
69	A2E Inhibits Mitochondrial Function, Causes the Release of Pro-Apoptotic Proteins and Induces Apoptosis in Mammalian Cells **2001**, 223-233		1
68	Energy requirement for caspase activation and neuronal cell death. *Brain Pathology*, **2000**, 10, 276-82	6	105
67	Phagocytosis of nonapoptotic cells dying by caspase-independent mechanisms. *Journal of Immunology*, **2000**, 164, 6520-9	5.3	86
66	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. *Journal of Biological Chemistry*, **2000**, 275, 39625-30	5.4	242
65	Metabolic depletion of ATP by fructose inversely controls CD95- and tumor necrosis factor receptor 1-mediated hepatic apoptosis. *Journal of Experimental Medicine*, **2000**, 191, 1975-85	16.6	70
64	Apoptosis in the dorsal lateral geniculate nucleus after monocular deprivation involves glutamate signaling, NO production, and PARP activation. *Biochemical and Biophysical Research Communications*, **2000**, 278, 360-7	3.4	17
63	Additive effects of caspase inhibitor and lazaroid on the survival of transplanted rat and human embryonic dopamine neurons. *Experimental Neurology*, **2000**, 164, 102-11	5.7	69
62	ATP Controls Neuronal Apoptosis Triggered by Microtubule Breakdown or Potassium Deprivation. *Molecular Medicine*, **1999**, 5, 477-489	6.2	78
61	Apoptosis and necrosis: different execution of the same death. *Biochemical Society Symposia*, **1999**, 66, 69-73		117
60	Execution of apoptosis: converging or diverging pathways?. *Biological Chemistry*, **1999**, 380, 1035-40	4.5	28
59	The expression of plasma membrane Ca2+ pump isoforms in cerebellar granule neurons is modulated by Ca2+. *Journal of Biological Chemistry*, **1999**, 274, 1667-76	5.4	87
58	Differential effects of Bcl-2 overexpression on fibre outgrowth and survival of embryonic dopaminergic neurons in intracerebral transplants. *European Journal of Neuroscience*, **1999**, 11, 3073-81	3.5	34
57	Caspase inhibition reduces apoptosis and increases survival of nigral transplants. *Nature Medicine*, **1999**, 5, 97-100	50.5	258
56	Cytoprotection against lipid hydroperoxides correlates with increased glutathione peroxidase activities, but not selenium uptake from different selenocompounds. *Biological Trace Element Research*, **1999**, 68, 159-74	4.5	10
55	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, 8727-32	11.5	200

54	Neuronal cell death: a demise with different shapes. *Trends in Pharmacological Sciences*, **1999**, 20, 46-51	13.2	221
53	Tributyltin-induced apoptosis requires glycolytic adenosine trisphosphate production. *Chemical Research in Toxicology*, **1999**, 12, 874-82	4	55
52	Selective nitration of prostacyclin synthase and defective vasorelaxation in atherosclerotic bovine coronary arteries. *American Journal of Pathology*, **1999**, 154, 1359-65	5.8	142
51	Inhibition of mitochondrial ATP generation by nitric oxide switches apoptosis to necrosis. *Experimental Cell Research*, **1999**, 249, 396-403	4.2	237
50	Nitric oxide inhibits execution of apoptosis at two distinct ATP-dependent steps upstream and downstream of mitochondrial cytochrome c release. *Biochemical and Biophysical Research Communications*, **1999**, 258, 215-21	3.4	54
49	Prevention of endotoxin-induced lethality, but not of liver apoptosis in poly(ADP-ribose) polymerase-deficient mice. *Biochemical and Biophysical Research Communications*, **1999**, 263, 433-8	3.4	48
48	Neuronal death in nigral grafts in the absence of poly (ADP-ribose) polymerase activation. *NeuroReport*, **1999**, 10, 3347-51	1.7	10
47	ATP controls neuronal apoptosis triggered by microtubule breakdown or potassium deprivation. *Molecular Medicine*, **1999**, 5, 477-89	6.2	26
46	Calcium and Cell Death **1999**, 69-90		4
45	Hypersensitivity to seizures in beta-amyloid precursor protein deficient mice. *Cell Death and Differentiation*, **1998**, 5, 858-66	12.7	92
44	Simultaneous release of adenylate kinase and cytochrome c in cell death. *Cell Death and Differentiation*, **1998**, 5, 1001-3	12.7	92
43	Cytokine-mediated hepatic apoptosis. *Reviews of Physiology, Biochemistry and Pharmacology*, **1998**, 133, 109-55	2.9	9
42	Calcium and neuronal death. *Reviews of Physiology, Biochemistry and Pharmacology*, **1998**, 132, 79-125	2.9	81
41	Selective proteolysis of the nuclear replication factor MCM3 in apoptosis. *Experimental Cell Research*, **1998**, 238, 415-21	4.2	38
40	Apoptosis, excitotoxicity, and neuropathology. *Experimental Cell Research*, **1998**, 239, 183-201	4.2	240
39	Intracellular ATP, a switch in the decision between apoptosis and necrosis. *Toxicology Letters*, **1998**, 102-103, 139-42	4.4	250
38	1-Methyl-4-phenylpyridinium induces autocrine excitotoxicity, protease activation, and neuronal apoptosis. *Molecular Pharmacology*, **1998**, 54, 789-801	4.3	141
37	Apoptosis versus necrosis: the shape of neuronal cell death. *Results and Problems in Cell Differentiation*, **1998**, 24, 105-35	1.4	20

36	Intracellular adenosine triphosphate (ATP) concentration: a switch in the decision between apoptosis and necrosis. *Journal of Experimental Medicine*, **1997**, 185, 1481-6	16.6	1623
35	Tumor necrosis factor-induced apoptosis during the poisoning of mice with hepatotoxins. *Gastroenterology*, **1997**, 112, 923-34	13.3	167
34	Apoptosis in the absence of poly-(ADP-ribose) polymerase. *Biochemical and Biophysical Research Communications*, **1997**, 233, 518-22	3.4	134
33	The shape of cell death. *Biochemical and Biophysical Research Communications*, **1997**, 236, 1-9	3.4	280
32	Detectable concentrations of Fas ligand in cerebrospinal fluid after severe head injury. *Journal of Neuroimmunology*, **1997**, 80, 93-6	3.5	51
31	Caspase-Mediated Apoptosis in Neuronal Excitotoxicity Triggered by Nitric Oxide. *Molecular Medicine*, **1997**, 3, 750-764	6.2	161
30	Peroxynitrite and nitric oxide donors induce neuronal apoptosis by eliciting autocrine excitotoxicity. *European Journal of Neuroscience*, **1997**, 9, 1488-98	3.5	115
29	Energy supply and the shape of death in neurons and lymphoid cells. *Cell Death and Differentiation*, **1997**, 4, 435-42	12.7	103
28	Excitotoxicity. *Cell Death and Differentiation*, **1997**, 4, 517-8	12.7	1
27	Mitochondrial signals and energy requirement in cell death. *Cell Death and Differentiation*, **1997**, 4, 516	12.7	10
26	The novel SAR-binding domain of scaffold attachment factor A (SAF-A) is a target in apoptotic nuclear breakdown. *EMBO Journal*, **1997**, 16, 7361-71	13	110
25	ICE-protease inhibitors block murine liver injury and apoptosis caused by CD95 or by TNF-alpha. *Immunology Letters*, **1997**, 55, 5-10	4.1	124
24	Caspase-mediated apoptosis in neuronal excitotoxicity triggered by nitric oxide. *Molecular Medicine* , **1997**, 3, 750-64	6.2	38
23	Cytoskeletal breakdown and apoptosis elicited by NO donors in cerebellar granule cells require NMDA receptor activation. *Journal of Neurochemistry*, **1996**, 67, 2484-93	6	112
22	T cell stimulus-induced crosstalk between lymphocytes and liver macrophages results in augmented cytokine release. *Experimental Cell Research*, **1996**, 229, 137-46	4.2	63
21	A novel mechanism of murine hepatocyte death inducible by concanavalin A. *Journal of Hepatology*, **1996**, 25, 948-59	13.4	49
20	The 55-kD Tumor Necrosis Factor Receptor and CD95 Independently Signal Murine Hepatocyte Apoptosis and Subsequent Liver Failure. *Molecular Medicine*, **1996**, 2, 109-124	6.2	109
19	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	7.8	126

18	DNA fragmentation in mouse organs during endotoxic shock. *American Journal of Pathology*, **1996**, 149, 1381-93	5.8	82
17	The 55-kD tumor necrosis factor receptor and CD95 independently signal murine hepatocyte apoptosis and subsequent liver failure. *Molecular Medicine*, **1996**, 2, 109-24	6.2	31
16	Enhanced release of interleukin-10 and soluble tumor necrosis factor receptors as novel principles of methylxanthine action in murine models of endotoxic shock. *Journal of Pharmacology and Experimental Therapeutics*, **1996**, 278, 421-31	4.7	29
15	Tumor necrosis factor production in the perfused mouse liver and its pharmacological modulation by methylxanthines. *Journal of Pharmacology and Experimental Therapeutics*, **1996**, 276, 968-76	4.7	8
14	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?. *American Journal of Clinical Nutrition*, **1995**, 62, 1527S-1534S	7	195
13	Tumor necrosis factor-induced hepatic DNA fragmentation as an early marker of T cell-dependent liver injury in mice. *Gastroenterology*, **1995**, 109, 166-76	13.3	88
12	Tolerance against tumor necrosis factor alpha (TNF)-induced hepatotoxicity in mice: the role of nitric oxide. *Toxicology Letters*, **1995**, 82-83, 227-31	4.4	5
11	Concanavalin A-induced T-cell-mediated hepatic injury in mice: the role of tumor necrosis factor. *Hepatology*, **1995**, 21, 190-8	11.2	372
10	Tunicamycin potently inhibits tumor necrosis factor-induced hepatocyte apoptosis. *European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section*, **1995**, 292, 201-4		
9	Concanavalin A□induced T-cell□mediated hepatic injury in mice: The role of tumor necrosis factor. *Hepatology*, **1995**, 21, 190-198	11.2	370
8	Interleukin-1 and nitric oxide protect against tumor necrosis factor □nduced liver injury through distinct pathways. *Hepatology*, **1995**, 22, 1829-1837	11.2	78
7	Interleukin-1 and nitric oxide protect against tumor necrosis factor alpha-induced liver injury through distinct pathways. *Hepatology*, **1995**, 22, 1829-37	11.2	62
6	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	5.3	244
5	Tumor necrosis factor-induced hepatocyte apoptosis precedes liver failure in experimental murine shock models. *American Journal of Pathology*, **1995**, 146, 1220-34	5.8	361
4	Murine hepatocyte apoptosis induced in vitro and in vivo by TNF-alpha requires transcriptional arrest. *Journal of Immunology*, **1994**, 153, 1778-88	5.3	370
3	A cytosolic oxygenase activity involved in the bioactivation of 2-aminofluorene. *Toxicology*, **1992**, 71, 7-20	4.4	13
2	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	5.3	155
1	Using Pluripotent Stem Cells and Their Progeny as an In Vitro Model to Assess (Developmental) Neurotoxicity. *Methods and Principles in Medicinal Chemistry*,279-320	0.4	1