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Molecular characterization of mitochondrial apoptosis-inducing factor

DOI: 10.1038/17135

Nature, 1999, 397, 441-6.

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2302	Caspase-3 is the primary activator of apoptotic DNA fragmentation via DNA fragmentation factor-45/inhibitor of caspase-activated DNase inactivation. 1999 , 274, 30651-6		372
2301	The pro-apoptotic proteins, Bid and Bax, cause a limited permeabilization of the mitochondrial outer membrane that is enhanced by cytosol. 1999 , 147, 809-22		297
2300	Adenine nucleotide translocase-1, a component of the permeability transition pore, can dominantly induce apoptosis. 1999 , 147, 1493-502		231
2299	Arsenic trioxide, a novel mitochondriotoxic anticancer agent?. 1999 , 91, 743-5		82
2298	Postmitochondrial regulation of apoptosis during heart failure. 1999 , 96, 7614-6		98
2297	TID1, a human homolog of the Drosophila tumor suppressor l(2)tid, encodes two mitochondrial modulators of apoptosis with opposing functions. 1999 , 96, 8499-504		119
2296	Apoptogenic ganglioside GD3 directly induces the mitochondrial permeability transition. 1999 , 274, 23169-75		112

2295	Mitochondrial phospholipid hydroperoxide glutathione peroxidase suppresses apoptosis mediated by a mitochondrial death pathway. 1999 , 274, 29294-302	223
2294	Chloromethyltetramethylrosamine (Mitotracker Orange) induces the mitochondrial permeability transition and inhibits respiratory complex I. Implications for the mechanism of cytochrome c release. 1999 , 274, 24657-63	82
2293	Lymphocyte survival--the struggle against death. 1999 , 15, 113-40	40
2292	Apaf-1, the CED-4 human homologue, an activator of caspase 3. 1999 , 9, 1139-1142	
2291	Commitment to apoptosis by GD3 ganglioside depends on opening of the mitochondrial permeability transition pore. 1999 , 274, 22581-5	130
2290	CTL granules: evolution of vesicles essential for combating virus infections. 1999 , 20, 351-6	82
2289	Cyclosporin A and its nonimmunosuppressive analogue N-Me-Val-4-cyclosporin A mitigate glucose/oxygen deprivation-induced damage to rat cultured hippocampal neurons. 1999 , 11, 3194-8	91
2288	Mitochondria and cell death. Mechanistic aspects and methodological issues. 1999 , 264, 687-701	563
2287	Hidden powers of the mitochondria. 1999 , 1, E40-2	23
2286	Asymmetry across species. 1999 , 1, E42-4	9
2285	CD47 ligation induces caspase-independent cell death in chronic lymphocytic leukemia. 1999 , 5, 1277-84	191
2284	Apoptosis. A cellular poison cupboard. <i>Nature</i> , 1999 , 397, 387, 389	50.4 87
2283	Bioenergetics in Huntington's disease. 1999 , 893, 203-13	89
2282	Interactions of chloromethyltetramethylrosamine (Mitotracker Orange) with isolated mitochondria and intact cells. 1999 , 893, 391-5	8
2281	Activation of apoptosis and its inhibition. 1999 , 886, 132-57	7
2280	Condensed matter in cell death. <i>Nature</i> , 1999 , 401, 127-8	50.4 103
2279	Weed insulation. <i>Nature</i> , 1999 , 401, 128-128	50.4 1
2278	Acinus is a caspase-3-activated protein required for apoptotic chromatin condensation. <i>Nature</i> , 1999 , 401, 168-73	50.4 364

2277	Bcl-2 proteins: regulators of apoptosis or of mitochondrial homeostasis?. 1999 , 1, E209-16	544
2276	Apoptosis without caspases: an inefficient molecular guillotine?. 1999 , 6, 497-507	221
2275	Apoptosis inducing factor (AIF): a phylogenetically old, caspase-independent effector of cell death. 1999 , 6, 516-24	406
2274	Ceramide-induced apoptosis occurs independently of caspases and is decreased by leupeptin. 1999 , 6, 788-95	37
2273	Serial killers: ordering caspase activation events in apoptosis. 1999 , 6, 1067-74	364
2272	Mitochondrial targeting of the p13II protein coded by the x-II ORF of human T-cell leukemia/lymphotropic virus type I (HTLV-I). 1999 , 18, 4505-14	83
2271	The cellular response to p53: the decision between life and death. 1999 , 18, 6145-57	488
2270	More than one way to die: apoptosis, necrosis and reactive oxygen damage. 1999 , 18, 7719-30	718
2269	Blockade of the mitochondrial permeability transition pore diminishes infarct size in the rat after transient middle cerebral artery occlusion. 1999 , 19, 736-41	192
2268	Mitochondria in muscle cell death. 1999 , 20, 395-400	32
2267	Sequential occurrence of mitochondrial and plasma membrane alterations, fluctuations in cellular Ca ²⁺ and pH during initial and later phases of cell death. 1999 , 4, 455-60	10
2266	Mitochondria and apoptosis: HQ or high-security prison?. 1999 , 19, 378-87	41
2265	Mitochondrial dysfunction in the pathogenesis of necrotic and apoptotic cell death. 1999 , 31, 305-19	287
2264	Mitochondria at the crossroad of apoptotic cell death. 1999 , 31, 321-6	36
2263	Apoptosis driven by IP(3)-linked mitochondrial calcium signals. 1999 , 18, 6349-61	414
2262	Pathophysiology of mitochondrial cell death control. 1999 , 56, 971-6	33
2261	Apoptose au cours de la spermatogenèse et dans le sperme jécule. 1999 , 9, 449-458	1
2260	[Apoptosis--what is it? Significance in coronary heart disease and myocardial infarct]. 1999 , 24, 196-210	3

2259	BCL-2 and glutathione: alterations in cellular redox state that regulate apoptosis sensitivity. 1999 , 27, 945-50	180
2258	Apoptotic nuclear morphological change without DNA fragmentation. 1999 , 9, 543-6	136
2257	Interdigital cell death can occur through a necrotic and caspase-independent pathway. 1999 , 9, 967-70	278
2256	Protein translocation in apoptosis. 1999 , 9, 394-401	86
2255	Die and let live - programmed cell death in plants. 1999 , 2, 502-7	139
2254	p53 and Bax: putative death factors in taste cell turnover. 1999 , 413, 168-80	34
2253	Regulation of tumor necrosis factor-induced, mitochondria- and reactive oxygen species-dependent cell death by the electron flux through the electron transport chain complex I. 1999 , 1, 285-95	71
2252	Mitochondrial diseases in man and mouse. 1999 , 283, 1482-8	2588
2251	Differential modulation of apoptosis sensitivity in CD95 type I and type II cells. 1999 , 274, 22532-8	461
2250	Nigral neurons are likely to die of a mechanism other than classical apoptosis in Parkinson's disease. 1999 , 5, 187-92	14
2249	Mitochondrial permeability in neuronal death: possible relevance to the pathogenesis of Parkinson's disease. 1999 , 5, 221-9	6
2248	The role of caspases in development, immunity, and apoptotic signal transduction: lessons from knockout mice. 1999 , 10, 629-39	358
2247	Reactive oxygen species regulate activation-induced T cell apoptosis. 1999 , 10, 735-44	404
2246	Pharmacological manipulation of granulocyte apoptosis: potential therapeutic targets. 1999 , 20, 503-9	148
2245	Recent advances on neuronal caspases in development and neurodegeneration. 1999 , 35, 195-220	97
2244	Withdrawal of life support, altruistic suicide, fratricidal killing and euthanasia by lymphocytes: different forms of drug-induced hepatic apoptosis. 1999 , 31, 760-70	39
2243	Spermine triggers the activation of caspase-3 in a cell-free model of apoptosis. 1999 , 451, 95-8	44
2242	Over-expression of Bcl-2 does not protect cells from hypericin photo-induced mitochondrial membrane depolarization, but delays subsequent events in the apoptotic pathway. 1999 , 462, 295-301	35

2241	Mitochondrial physiology and pathology; concepts of programmed death of organelles, cells and organisms. 1999 , 20, 139-84	215
2240	Bile acids and hepatocyte apoptosis: living/leaving life in the Fas lane. 1999 , 117, 732-6	19
2239	Implication of calpain in caspase activation during B cell clonal deletion. 1999 , 18, 4988-98	139
2238	Tributyltin-induced apoptosis requires glycolytic adenosine trisphosphate production. 1999 , 12, 874-82	55
2237	Arsenite induces apoptosis via a direct effect on the mitochondrial permeability transition pore. 1999 , 249, 413-21	267
2236	Collapse of the inner mitochondrial transmembrane potential is not required for apoptosis of HL60 cells. 1999 , 251, 166-74	132
2235	Mitochondria: ignition chamber for apoptosis. 1999 , 68, 227-31	13
2234	Glucose protection from MPP ⁺ -induced apoptosis depends on mitochondrial membrane potential and ATP synthase. 1999 , 257, 440-7	52
2233	Cytochrome c is dispensable for fas-induced caspase activation and apoptosis. 1999 , 261, 71-8	19
2232	Reduced mitochondrial membrane potential and altered responsiveness of a mitochondrial membrane megachannel in p53-induced senescence. 1999 , 261, 123-30	28
2231	15-Deoxy-Delta(12,14)-prostaglandin J(2), a ligand for peroxisome proliferator-activated receptor-gamma, induces apoptosis in JEG3 choriocarcinoma cells. 1999 , 262, 579-85	107
2230	Regulation of energy metabolism in human cells in aging and diabetes: FoF(1), mtDNA, UCP, and ROS. 1999 , 266, 662-76	38
2229	The mitochondrial permeability transition pore and its role in cell death. 1999 , 341, 233	720
2228	The mitochondrial permeability transition pore and its role in cell death. 1999 , 341, 233-249	1902
2227	BCL-2 family members and the mitochondria in apoptosis. 1999 , 13, 1899-911	2845
2226	Cytochrome c release from isolated rat liver mitochondria can occur independently of outer-membrane rupture: possible role of contact sites. 2000 , 348, 343	35
2225	Mitochondrial phospholipid hydroperoxide glutathione peroxidase inhibits the release of cytochrome c from mitochondria by suppressing the peroxidation of cardiolipin in hypoglycaemia-induced apoptosis. 2000 , 351, 183-93	177
2224	Cytochrome c release from isolated rat liver mitochondria can occur independently of outer-membrane rupture: possible role of contact sites. 2000 , 348, 343-350	112

2223	Mitochondrial phospholipid hydroperoxide glutathione peroxidase inhibits the release of cytochrome c from mitochondria by suppressing the peroxidation of cardiolipin in hypoglycaemia-induced apoptosis. 2000 , 351, 183-193	292
2222	Cytochrome c release and caspase activation in traumatic axonal injury. 2000 , 20, 2825-34	258
2221	Single injections of a DNA plasmid that contains the human Bcl-2 gene prevent loss and atrophy of distinct neuronal populations after spinal cord injury in adult rats. 2000 , 14, 319-30	30
2220	Heterogeneous apoptotic responses of prostate cancer cell lines identify an association between sensitivity to staurosporine-induced apoptosis, expression of Bcl-2 family members, and caspase activation. 2000 , 42, 260-73	49
2219	Caspases that are activated during generation of nuclear polyglutamine aggregates are necessary for DNA fragmentation but not sufficient for cell death. 2000 , 62, 547-56	14
2218	High-throughput profiling of the mitochondrial proteome using affinity fractionation and automation. 2000 , 21, 3427-40	200
2217	Critical role for mitochondria in B cell receptor-mediated apoptosis. 2000 , 30, 69-77	56
2216	MHC class II and CD40 play opposing roles in dendritic cell survival. 2000 , 30, 2612-9	54
2215	Opening of the mitochondrial permeability transition pore causes matrix expansion and outer membrane rupture in Fas-mediated hepatic apoptosis in mice. 2000 , 31, 674-83	118
2214	Caspase-3 is activated following axotomy of neonatal facial motoneurons and caspase-3 gene deletion delays axotomy-induced cell death in rodents. 2000 , 12, 3469-80	44
2213	Induction of mitochondrial manganese superoxide dismutase confers resistance to apoptosis in acute myeloblastic leukaemia cells exposed to etoposide. 2000 , 108, 574-81	45
2212	Mitochondrial membrane potential differentiates cells resistant to apoptosis in hybridoma cultures. 2000 , 267, 6534-40	36
2211	Apoptosis in the intestinal epithelium: its relevance in normal and pathophysiological conditions. 2000 , 15, 109-20	146
2210	JNK1 is inactivated during thiamine deficiency-induced apoptosis in human neuroblastoma cells. 2000 , 11, 208-15	16
2209	Cell death in maize. 2000 , 108, 231-239	39
2208	Mitochondrial control of cell death. 2000 , 6, 513-9	2704
2207	Subcellular localization and CARD-dependent oligomerization of the death adaptor RAIDD. 2000 , 7, 155-65	48
2206	The BH3 domain is required for caspase-independent cell death induced by Bax and oligomycin. 2000 , 7, 338-49	19

2205	Properties of DNA fragmentation activity generated by ATP depletion. 2000 , 7, 477-84	27
2204	Cleavage of BID during cytotoxic drug and UV radiation-induced apoptosis occurs downstream of the point of Bcl-2 action and is catalysed by caspase-3: a potential feedback loop for amplification of apoptosis-associated mitochondrial cytochrome c release. 2000 , 7, 556-65	243
2203	Regulation of both apoptosis and cell survival by the v-Src oncoprotein. 2000 , 7, 685-96	70
2202	Bcl-2 and Bax mammalian regulators of apoptosis are functional in Drosophila. 2000 , 7, 804-14	73
2201	Bcl-2 down-regulation causes autophagy in a caspase-independent manner in human leukemic HL60 cells. 2000 , 7, 1263-9	166
2200	VDAC regulation by the Bcl-2 family of proteins. 2000 , 7, 1174-81	255
2199	The role of the Bcl-2 family in the regulation of outer mitochondrial membrane permeability. 2000 , 7, 1182-91	404
2198	Nuclear apoptosis induced by isolated mitochondria. 2000 , 10, 221-32	6
2197	Executionary pathway for apoptosis: lessons from mutant mice. 2000 , 10, 267-78	35
2196	Adeno-associated virus vector-mediated bcl-2 gene transfer into post-ischemic gerbil brain in vivo: prospects for gene therapy of ischemia-induced neuronal death. 2000 , 7, 1244-9	76
2195	Induction of apoptosis in human hematopoietic U937 cells by granulocyte-macrophage colony-stimulating factor: possible existence of caspase 3-like pathway. 2000 , 14, 612-9	18
2194	Heat shock proteins--modulators of apoptosis in tumour cells. 2000 , 14, 1161-73	182
2193	The most unkindest cut of all: on the multiple roles of mammalian caspases. 2000 , 14, 1514-25	86
2192	Positive and negative regulation of apoptotic pathways by cytotoxic agents in hematological malignancies. 2000 , 14, 1833-49	123
2191	Bcl-2 and Bax regulate the channel activity of the mitochondrial adenine nucleotide translocator. 2000 , 19, 329-36	295
2190	Oxidation of a critical thiol residue of the adenine nucleotide translocator enforces Bcl-2-independent permeability transition pore opening and apoptosis. 2000 , 19, 307-14	263
2189	Bax and Bcl-xL independently regulate apoptotic changes of yeast mitochondria that require VDAC but not adenine nucleotide translocator. 2000 , 19, 4309-18	135
2188	Human gelsolin prevents apoptosis by inhibiting apoptotic mitochondrial changes via closing VDAC. 2000 , 19, 4807-14	148

2187	v-Jun sensitizes cells to apoptosis by a mechanism involving mitochondrial cytochrome C release. 2000 , 19, 5906-18	8
2186	Polyomavirus large T-antigen protects mouse cells from Fas-, TNF-alpha- and taxol-induced apoptosis. 2000 , 19, 6261-70	8
2185	The coordinate release of cytochrome c during apoptosis is rapid, complete and kinetically invariant. 2000 , 2, 156-62	875
2184	Hsp27 negatively regulates cell death by interacting with cytochrome c. 2000 , 2, 645-52	798
2183	A novel mitochondrial septin-like protein, ARTS, mediates apoptosis dependent on its P-loop motif. 2000 , 2, 915-21	204
2182	Intracellular mediators of programmed cell death initiated at the cell surface receptor Fas. 2000 , 13, S3-S6	4
2181	Mitochondrial intermembrane junctional complexes and their role in cell death. 2000 , 529 Pt 1, 11-21	246
2180	The machinery of local Ca ²⁺ signalling between sarco-endoplasmic reticulum and mitochondria. 2000 , 529 Pt 1, 69-81	162
2179	Oxidative damage and protection of the RPE. 2000 , 19, 205-21	487
2178	Impairment with various antioxidants of the loss of mitochondrial transmembrane potential and of the cytosolic release of cytochrome c occurring during 7-ketocholesterol-induced apoptosis. 2000 , 28, 743-53	111
2177	Mitochondrially targeted antioxidants and thiol reagents. 2000 , 28, 1547-54	71
2176	Death in the snow: report on Keystone Conference on 'Apoptosis and Programmed Cell Death' at Breckenridge, CO, April 6-11th 1999. 2000 , 1470, R1-R11	1
2175	Bax, Bid and the permeabilization of the mitochondrial outer membrane in apoptosis. 2000 , 12, 414-9	184
2174	Rapid induction of apoptosis mediated by peptides that bind initiation factor eIF4E. 2000 , 10, 793-6	84
2173	DNA topoisomerase IIalpha interacts with CAD nuclease and is involved in chromatin condensation during apoptotic execution. 2000 , 10, 923-6	127
2172	Mitochondria as the central control point of apoptosis. 2000 , 10, 369-77	1591
2171	Mitochondrial calcium transport: mechanisms and functions. 2000 , 28, 285-96	314
2170	Control of apoptosis by IP(3) and ryanodine receptor driven calcium signals. 2000 , 28, 349-63	127

2169	Drug delivery to mitochondria: the key to mitochondrial medicine. 2000 , 41, 235-50	356
2168	Differential cellular regulation of the mitochondrial permeability transition in an in vitro model of 1,3-dinitrobenzene-induced encephalopathy. 2000 , 874, 165-77	19
2167	Mitochondria in Ca ²⁺ signaling and apoptosis. 2000 , 32, 35-46	122
2166	Regulation of T cell apoptosis. 2000 , 5, 459-71	23
2165	Rapid induction of apoptosis in human gastric cancer cell lines by sorbitol. 2000 , 5, 181-7	10
2164	Cytochrome P450-generated reactive metabolites cause mitochondrial permeability transition, caspase activation, and apoptosis in rat hepatocytes. 2000 , 32, 303-11	99
2163	Induction of apoptosis and activation of the caspase cascade by anti-EGF receptor monoclonal antibodies in DiFi human colon cancer cells do not involve the c-jun N-terminal kinase activity. 2000 , 82, 1991-9	87
2162	Suppression of manganese superoxide dismutase augments sensitivity to radiation, hyperthermia and doxorubicin in colon cancer cell lines by inducing apoptosis. 2000 , 83, 928-34	46
2161	Mitochondria in the programmed death phenomena; a principle of biology: "it is better to die than to be wrong". 2000 , 49, 365-73	91
2160	Mitochondrial oxidative stress plays a key role in aging and apoptosis. 2000 , 49, 427-35	285
2159	Targeting of the pro-apoptotic VDAC-like porin (PorB) of <i>Neisseria gonorrhoeae</i> to mitochondria of infected cells. 2000 , 19, 5332-43	100
2158	Caspase-like protease involvement in the control of plant cell death. 2000 , 44, 417-28	163
2157	Programmed cell death in plant reproduction. 2000 , 44, 267-81	203
2156	Comparative genomics of the eukaryotes. 2000 , 287, 2204-15	1364
2155	Mitochondrion as a novel target of anticancer chemotherapy. 2000 , 92, 1042-53	408
2154	Protein identification with a single accurate mass of a cysteine-containing peptide and constrained database searching. 2000 , 72, 1112-8	128
2153	Initiation of DNA fragmentation during apoptosis induces phosphorylation of H2AX histone at serine 139. 2000 , 275, 9390-5	535
2152	Intracellular mediators of programmed cell death initiated at the cell surface receptor Fas. 2000 , 13 Suppl 1, S3-6	6

2151	Mitochondrial role in life and death of the cell. 2000 , 7, 2-15	223
2150	Myelodysplasia and apoptosis: new insights into ineffective erythropoiesis. 2000 , 17, 16-21	11
2149	The morphology of apoptosis. 2000 , 301, 5-17	547
2148	HMBA induces activation of a caspase-independent cell death pathway to overcome P-glycoprotein-mediated multidrug resistance. 2000 , 95, 2378-2385	75
2147	Deoxyadenosine analogs induce programmed cell death in chronic lymphocytic leukemia cells by damaging the DNA and by directly affecting the mitochondria. 2000 , 96, 3537-3543	253
2146	Caspase-independent commitment phase to apoptosis in activated blood T lymphocytes: reversibility at low apoptotic insult. 2000 , 96, 1030-1038	82
2145	Mitochondria and neuronal survival. 2000 , 80, 315-60	994
2144	Alternative mitochondrial functions in cell physiopathology: beyond ATP production. 2000 , 33, 241-50	43
2143	Tissue-specific Bcl-2 protein partners in apoptosis: An ovarian paradigm. 2000 , 80, 593-614	135
2142	UVC-induced apoptosis in human epithelial tumor A431 cells: sequence of apoptotic changes and involvement of caspase (-8 and -3) cascade. 2000 , 41, 243-58	11
2141	Mitochondrio-nuclear translocation of AIF in apoptosis and necrosis. 2000 , 14, 729-739	657
2140	Caspase-dependent Cdk activity is a requisite effector of apoptotic death events. 2000 , 148, 59-72	85
2139	Direct interaction of GD3 ganglioside with mitochondria generates reactive oxygen species followed by mitochondrial permeability transition, cytochrome c release, and caspase activation. 2000 , 14, 847-58	171
2138	Two distinct mechanisms of nitric oxide-mediated neuronal cell death show thiol dependency. 2000 , 278, C1099-107	30
2137	Lack of oxidative phosphorylation and low mitochondrial membrane potential decrease susceptibility to apoptosis and do not modulate the protective effect of Bcl-x(L) in osteosarcoma cells. 2000 , 275, 7087-94	165
2136	Bcl-2 independence of flavopiridol-induced apoptosis. Mitochondrial depolarization in the absence of cytochrome c release. 2000 , 275, 32089-97	48
2135	Proapoptotic BH3-only Bcl-2 family members induce cytochrome c release, but not mitochondrial membrane potential loss, and do not directly modulate voltage-dependent anion channel activity. 2000 , 97, 577-82	248
2134	Three classes of ubiquinone analogs regulate the mitochondrial permeability transition pore through a common site. 2000 , 275, 29521-7	114

2133	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. 2000 , 275, 39625-30	242
2132	<i>Neisseria meningitidis</i> porin PorB interacts with mitochondria and protects cells from apoptosis. 2000 , 97, 9070-5	133
2131	Regulation of the Fas death pathway by FLICE-inhibitory protein in primary human B cells. 2000 , 165, 3023-30	65
2130	Caspase enzyme activity is not essential for apoptosis during thymocyte development. 2000 , 164, 4071-9	74
2129	HLA-DR-mediated apoptosis susceptibility discriminates differentiation stages of dendritic/monocytic APC. 2000 , 164, 2379-85	45
2128	Toward antiapoptosis as a new treatment modality. 2000 , 86, 371-6	69
2127	Apoptosis in Cardiac Biology. 2000 ,	1
2126	TAJ, a novel member of the tumor necrosis factor receptor family, activates the c-Jun N-terminal kinase pathway and mediates caspase-independent cell death. 2000 , 275, 15336-42	92
2125	NF-kappa B inhibition causes spontaneous apoptosis in Epstein-Barr virus-transformed lymphoblastoid cells. 2000 , 97, 6055-60	231
2124	BH4 domain of antiapoptotic Bcl-2 family members closes voltage-dependent anion channel and inhibits apoptotic mitochondrial changes and cell death. 2000 , 97, 3100-5	364
2123	Biochemical and genetic analysis of the mitochondrial response of yeast to BAX and BCL-X(L). 2000 , 20, 3125-36	153
2122	Immunosuppressant FTY720 induces apoptosis by direct induction of permeability transition and release of cytochrome c from mitochondria. 2000 , 165, 3250-9	76
2121	Activation of calpain I converts excitotoxic neuron death into a caspase-independent cell death. 2000 , 275, 17064-71	223
2120	Cleavage preferences of the apoptotic endonuclease DFF40 (caspase-activated DNase or nuclease) on naked DNA and chromatin substrates. 2000 , 275, 8226-32	133
2119	Two distinct pathways leading to nuclear apoptosis. 2000 , 192, 571-80	606
2118	Excessive apoptosis in low risk myelodysplastic syndromes (MDS). 2000 , 40, 1-24	35
2117	Possible involvement of cyclophilin B and caspase-activated deoxyribonuclease in the induction of chromosomal DNA degradation in TCR-stimulated thymocytes. 2000 , 165, 4281-9	14
2116	Bax overexpression enhances cytochrome c release from mitochondria and sensitizes KATOIII gastric cancer cells to chemotherapeutic agent-induced apoptosis. 2000 , 16, 745-9	10

2115	Biochemical characterization of the mitochondrial permeability transition in isolated forebrain mitochondria. 2000 , 22, 376-83	29
2114	Dexamethasone suppresses tumor necrosis factor-alpha-induced apoptosis in osteoblasts: possible role for ceramide. 2000 , 141, 2904-13	50
2113	In vivo neuroprotection of injured CNS neurons by a single injection of a DNA plasmid encoding the Bcl-2 gene. 2000 , 128, 365-72	14
2112	Selective depletion of heat shock protein 70 (Hsp70) activates a tumor-specific death program that is independent of caspases and bypasses Bcl-2. 2000 , 97, 7871-6	347
2111	Alternatively spliced products CC3 and TC3 have opposing effects on apoptosis. 2000 , 20, 583-93	31
2110	Bcl-2 blocks a caspase-dependent pathway of apoptosis activated by herpes simplex virus 1 infection in HEp-2 cells. 2000 , 74, 1931-8	56
2109	Proteases for cell suicide: functions and regulation of caspases. 2000 , 64, 821-46	491
2108	Assessment of caspase activities in intact apoptotic thymocytes using cell-permeable fluorogenic caspase substrates. 2000 , 191, 1819-28	152
2107	Mitochondria localization and dimerization are required for CIDE-B to induce apoptosis. 2000 , 275, 22619-22	54
2106	Gentamicin-induced apoptosis in renal cell lines and embryonic rat fibroblasts. 2000 , 56, 229-39	85
2105	Programmed cell death during pollination-induced petal senescence in petunia. 2000 , 122, 1323-33	148
2104	Determinants of cytochrome c pro-apoptotic activity. The role of lysine 72 trimethylation. 2000 , 275, 16127-33	105
2103	Glyceraldehyde-3-phosphate dehydrogenase in neurodegeneration and apoptosis signaling. 2000 , 77-100	34
2102	The HIV-1 viral protein R induces apoptosis via a direct effect on the mitochondrial permeability transition pore. 2000 , 191, 33-46	390
2101	Cell death regulation in Drosophila: conservation of mechanism and unique insights. 2000 , 150, F69-76	87
2100	Apoptosis control in syncytia induced by the HIV type 1-envelope glycoprotein complex: role of mitochondria and caspases. 2000 , 192, 1081-92	203
2099	Oligodeoxynucleotide 5mers containing a 5'-CpG induce apoptosis through a mitochondrial mechanism in T lymphocytic leukaemia cells. 2000 , 28, 2242-50	14
2098	Adenovirus E4 open reading frame 4-induced apoptosis involves dysregulation of Src family kinases. 2000 , 150, 1037-56	69

2097	BNIP3 and genetic control of necrosis-like cell death through the mitochondrial permeability transition pore. 2000 , 20, 5454-68	533
2096	Granzyme B short-circuits the need for caspase 8 activity during granule-mediated cytotoxic T-lymphocyte killing by directly cleaving Bid. 2000 , 20, 3781-94	274
2095	Overexpression of bcl-2 enhances LIGHT- and interferon-gamma -mediated apoptosis in Hep3BT2 cells. 2000 , 275, 38794-801	38
2094	Execution of apoptosis signal-regulating kinase 1 (ASK1)-induced apoptosis by the mitochondria-dependent caspase activation. 2000 , 275, 26576-81	274
2093	Nerve growth factor protects oligodendrocytes from tumor necrosis factor-alpha-induced injury through Akt-mediated signaling mechanisms. 2000 , 275, 16360-5	37
2092	Involvement of mitochondria in oxidative stress-induced cell death in mouse zygotes. 2000 , 62, 1745-53	185
2091	Intracellular thiol depletion causes mitochondrial permeability transition in ebselen-induced apoptosis. 2000 , 380, 319-30	61
2090	Mechanistic aspects of the induction of apoptosis by lauryl gallate in the murine B-cell lymphoma line Wehi 231. 2000 , 383, 206-14	34
2089	Genistein induces apoptosis of RPE-J cells by opening mitochondrial PTP. 2000 , 276, 151-6	82
2088	Differential localization of ICAD-L and ICAD-S in cells due to removal of a C-terminal NLS from ICAD-L by alternative splicing. 2000 , 255, 314-20	47
2087	The mitochondrion in cell death control: certainties and incognita. 2000 , 256, 19-26	327
2086	Apoptotic DNA fragmentation. 2000 , 256, 12-8	696
2085	Protein complexes activate distinct caspase cascades in death receptor and stress-induced apoptosis. 2000 , 256, 27-33	272
2084	Induction of apoptosis by cancer chemotherapy. 2000 , 256, 42-9	979
2083	Heat shock protein 70 inhibits caspase-dependent and -independent apoptosis in Jurkat T cells. 2000 , 257, 58-66	176
2082	Doxorubicin treatment activates a Z-VAD-sensitive caspase, which causes deltapسيم loss, caspase-9 activity, and apoptosis in Jurkat cells. 2000 , 258, 223-35	119
2081	Apoptosis of syncytia induced by the HIV-1-envelope glycoprotein complex: influence of cell shape and size. 2000 , 261, 119-26	22
2080	Crystal structure of NADH-dependent ferredoxin reductase component in biphenyl dioxygenase. 2000 , 304, 397-410	83

2079	Review: nuclear events in apoptosis. 2000 , 129, 346-58	233
2078	Adaptive responses of the endothelium to stress. 2000 , 89, 85-119	72
2077	Perturbation of mitochondrial structure and function plays a central role in <i>Actinobacillus actinomycetemcomitans</i> leukotoxin-induced apoptosis. 2000 , 29, 267-78	41
2076	Apoptosis signaling. 2000 , 69, 217-45	1277
2075	Wild-type herpes simplex virus 1 blocks programmed cell death and release of cytochrome c but not the translocation of mitochondrial apoptosis-inducing factor to the nuclei of human embryonic lung fibroblasts. 2000 , 74, 9048-53	35
2074	Osteoprotegerin ligand modulates murine osteoclast survival in vitro and in vivo. 2000 , 157, 435-48	333
2073	Mechanisms of apoptosis. 2000 , 157, 1415-30	944
2072	Serum-free induced neuronal apoptosis-like cell death is independent of caspase activity. 2000 , 78, 186-91	21
2071	Neuroprotective strategies for basal ganglia degeneration: Parkinson's and Huntington's diseases. 2000 , 60, 409-70	234
2070	Mitochondrial defects in cardiomyopathy and neuromuscular disease. 2000 , 139, S70-85	154
2069	Aven, a Novel Inhibitor of Caspase Activation, Binds Bcl-xL and Apaf-1. 2000 , 6, 31-40	171
2068	The combined functions of proapoptotic Bcl-2 family members bak and bax are essential for normal development of multiple tissues. 2000 , 6, 1389-99	1176
2067	Cytochrome c deficiency causes embryonic lethality and attenuates stress-induced apoptosis. 2000 , 101, 389-99	421
2066	Failure of Bcl-2 to block cytochrome c redistribution during TRAIL-induced apoptosis. 2000 , 471, 93-8	87
2065	A cytochrome c-GFP fusion is not released from mitochondria into the cytoplasm upon expression of Bax in yeast cells. 2000 , 471, 235-9	35
2064	Changes in mitochondrial membrane potential during staurosporine-induced apoptosis in Jurkat cells. 2000 , 475, 267-72	183
2063	Apoptosis-inducing factor (AIF): a ubiquitous mitochondrial oxidoreductase involved in apoptosis. 2000 , 476, 118-23	338
2062	Aspirin induces apoptosis through mitochondrial cytochrome c release. 2000 , 480, 193-6	96

2061	Involvement of apoptosis-inducing factor during dolichyl monophosphate-induced apoptosis in U937 cells. 2000 , 480, 197-200	17
2060	Phosphatidyl serine exposure during apoptosis precedes release of cytochrome c and decrease in mitochondrial transmembrane potential. 2000 , 465, 47-52	76
2059	Bcl-2 family: life-or-death switch. 2000 , 466, 6-10	515
2058	Mass spectrometric identification of proteins released from mitochondria undergoing permeability transition. 2000 , 7, 137-44	160
2057	Bid acts on the permeability transition pore complex to induce apoptosis. 2000 , 19, 6342-50	174
2056	Role of mitochondria in neuronal apoptosis. 2000 , 22, 348-58	65
2055	[Apoptosis: to be or not to be, that is the question]. 2000 , 114, 144-56	1
2054	Molecular mechanisms of apoptosis induced by cytotoxic chemicals. 2000 , 30, 609-27	287
2053	The chicken anemia virus-derived protein apoptin requires activation of caspases for induction of apoptosis in human tumor cells. 2000 , 74, 7072-8	81
2052	GD3 ganglioside directly targets mitochondria in a bcl-2-controlled fashion. 2000 , 14, 2047-54	156
2051	Functional characterization of DNase X, a novel endonuclease expressed in muscle cells. 2000 , 39, 7365-73	39
2050	Apoptose et pathologies du système nerveux. 2000 , 11, 57-64	
2049	Apoptose et mitochondries. 2000 , 11, 19-36	
2048	Cell death at the millennium. Implications for liver diseases. 2000 , 4, 1-23, v	36
2047	Clostridium difficile toxin A causes early damage to mitochondria in cultured cells. 2000 , 119, 139-50	98
2046	Mitochondrial membrane perturbations in cholestasis. 2000 , 32, 135-41	50
2045	Mechanisms of liver cell injury. 2000 , 32, 39-47	212
2044	Programmed cell death in plant reproduction. 2000 , 23-37	4

2043	Cell-free systems to study apoptosis. 2001 , 66, 167-85	11
2042	Involvement of JNK-mediated pathway in EGF-mediated protection against paclitaxel-induced apoptosis in SiHa human cervical cancer cells. 2001 , 85, 303-11	55
2041	Leukocyte mitochondria depolarization and apoptosis in advanced heart failure: clinical correlations and effect of therapy. 2001 , 38, 1693-700	14
2040	Apoptosis in diseases of the liver. 2001 , 38, 109-66	93
2039	Granulysin: a novel antimicrobial. 2001 , 10, 321-9	31
2038	Gene therapy and pharmaceutical modulation of apoptosis. 2001 , 19, 173-90, x	2
2037	Involvement of mitochondria in apoptosis. 2001 , 19, 45-55	32
2036	Mitochondrial Ca^{2+} signaling and cardiac apoptosis. 2001 , 10, 200-23	31
2035	Mass spectrometry in proteomics. 2001 , 101, 269-95	1057
2034	Amyloid beta-peptide disrupts mitochondrial membrane lipid and protein structure: protective role of tauroursodeoxycholate. 2001 , 281, 468-74	72
2033	Mitochondrial protein p32 can accumulate in the nucleus. 2001 , 281, 1161-9	52
2032	Heat shock proteins: endogenous modulators of apoptotic cell death. 2001 , 286, 433-42	620
2031	Mitochondrial lipid alterations during Fas- and radiation-induced apoptosis. 2001 , 287, 1112-20	63
2030	Role of caspases and mitochondria in the steroid-induced programmed cell death of a motoneuron during metamorphosis. 2001 , 229, 517-36	31
2029	A century of mitochondrial research: achievements and perspectives. 2001 , 1, 3-31	182
2028	Selective degradation of the PKC-epsilon isoform during cell death in AKR-2B fibroblasts. 2001 , 266, 64-73	14
2027	Ethanol-induced apoptosis in hepatoma cells proceeds via intracellular Ca^{2+} elevation, activation of TLCK-sensitive proteases, and cytochrome c release. 2001 , 269, 202-13	34
2026	Endothelial cell apoptosis: biochemical characteristics and potential implications for atherosclerosis. 2001 , 33, 1673-90	371

2025	A population of PC12 cells that is initiating apoptosis can be rescued by nerve growth factor. 2001 , 18, 347-62	12
2024	Mitochondrial release of apoptosis-inducing factor and cytochrome c during smooth muscle cell apoptosis. 2001 , 159, 305-11	70
2023	New insights into the role of nuclear factor-kappaB in cell growth regulation. 2001 , 159, 387-97	392
2022	Relocalization of apoptosis-inducing factor in photoreceptor apoptosis induced by retinal detachment in vivo. 2001 , 158, 1271-8	144
2021	Mitochondria: a target for myocardial protection. 2001 , 89, 29-46	196
2020	Apoptosis and caspases. 2001 , 19, 13-29	39
2019	Animal mitochondrial biogenesis and function: a regulatory cross-talk between two genomes. 2001 , 263, 1-16	235
2018	Molecular pathways involved in the neurotoxicity of 6-OHDA, dopamine and MPTP: contribution to the apoptotic theory in Parkinson's disease. 2001 , 65, 135-72	933
2017	Complement and apoptosis. 2001 , 38, 207-19	163
2016	Involvement of mitochondrial permeability transition and caspase-9 activation in dimethyl sulfoxide-induced apoptosis of EL-4 lymphoma cells. 2001 , 1, 63-74	52
2015	The regulatory role of nitric oxide in apoptosis. 2001 , 1, 1421-41	291
2014	Differential processing of cytosolic and mitochondrial caspases. 2001 , 1, 61-9	12
2013	Hypoxia death stimulus induces translocation of p53 protein to mitochondria. Detection by immunofluorescence on whole cells. 2001 , 488, 110-5	136
2012	Hydroxyl radical-induced apoptosis in human tumor cells is associated with telomere shortening but not telomerase inhibition and caspase activation. 2001 , 488, 123-32	74
2011	Nuclear and mitochondrial apoptotic pathways of p53. 2001 , 493, 65-9	162
2010	Overexpression of Bcl-2 suppresses the calcium activation of a mitochondrial megachannel. 2001 , 497, 73-6	43
2009	Coenzyme Q blocks biochemical but not receptor-mediated apoptosis by increasing mitochondrial antioxidant protection. 2001 , 503, 46-50	67
2008	Phosphatidylserine induces apoptosis in CHO cells without mitochondrial dysfunction in a manner dependent on caspases other than caspases-1, -3, -8 and -9. 2001 , 504, 73-7	6

2007	Oligomeric C-terminal truncated Bax preferentially releases cytochrome c but not adenylate kinase from mitochondria, outer membrane vesicles and proteoliposomes. 2001 , 505, 453-9	18
2006	Regulation of apoptosis by respiration: cytochrome c release by respiratory substrates. 2001 , 505, 399-404	34
2005	Bcl-2 phosphorylation is required for inhibition of oxidative stress-induced lysosomal leak and ensuing apoptosis. 2001 , 509, 405-12	54
2004	Szygium aromaticum (L.) Merr. Et Perry (Myrtaceae) flower bud induces apoptosis of p815 mastocytoma cell line. 2001 , 69, 553-66	9
2003	Maintaining mitochondrial membrane impermeability. an opportunity for new therapy in glaucoma?. 2001 , 45 Suppl 3, S277-83; discussuin S295-6	38
2002	TRAIL/Apo-2L: mechanisms and clinical applications in cancer. 2001 , 3, 535-46	226
2001	Antiapoptotic proteins. The bcl-2 and inhibitor of apoptosis protein families. 2001 , 19, 57-74	60
2000	Synthetic bile acid derivatives induce nonapoptotic death of human retinal pigment epithelial cells. 2001 , 22, 367-74	10
1999	Molecular mechanisms for apoptosis induced by signaling through the B cell antigen receptor. 2001 , 20, 791-803	9
1998	Conformation of the C-terminal domain of the pro-apoptotic protein Bax and mutants and its interaction with membranes. 2001 , 40, 9983-92	34
1997	The complete sequence of the zebrafish (Danio rerio) mitochondrial genome and evolutionary patterns in vertebrate mitochondrial DNA. 2001 , 11, 1958-67	263
1996	The proteasomal substrate Stm1 participates in apoptosis-like cell death in yeast. 2001 , 12, 2422-32	67
1995	Laser flash induced electron transfer in P450cam monooxygenase: putidaredoxin reductase-putidaredoxin interaction. 2001 , 40, 10592-600	36
1994	. 2001 ,	
1993	Heat shock protein 70 neutralizes apoptosis-inducing factor. 2001 , 1, 590-2	21
1992	Caspase-activated DNase/DNA fragmentation factor 40 mediates apoptotic DNA fragmentation in transient cerebral ischemia and in neuronal cultures. 2001 , 21, 4678-90	85
1991	Mitochondrial Gene Mutations in the tRNA ^{Leu} (UUR) Region and Diabetes: Prevalence and Clinical Phenotypes in Japan. 2001 , 47, 1641-1648	65
1990	Apoptosis by pan-caspase inhibitors in lipopolysaccharide-activated macrophages. 2001 , 281, L1095-105	43

1989	B709 Mitochondrial Control of Cell Death. 2001 , 1, 48	4
1988	Activation of K ⁺ channels induces apoptosis in vascular smooth muscle cells. 2001 , 280, C970-9	127
1987	Apoptosis in Caspase-inhibited Neurons. 2001 , 7, 36-48	92
1986	Apoptosis. 2001 , 927-947	
1985	Macrophages are eliminated from the injured peripheral nerve via local apoptosis and circulation to regional lymph nodes and the spleen. 2001 , 21, 3401-8	52
1984	Contrôle mitochondrial de l'apoptose. 2001 , 185, 1135-1143	1
1983	Apoptosis in liver disease. 2001 , 13, 785-90	53
1982	Bone morphogenetic protein-6 reduces ischemia-induced brain damage in rats. 2001 , 32, 2170-8	70
1981	The (Holey) study of mitochondria in apoptosis. 2001 , 66, 365-91	37
1980	Adenine nucleotide translocator isoforms 1 and 2 are differently distributed in the mitochondrial inner membrane and have distinct affinities to cyclophilin D. 2001 , 358, 349-58	53
1979	Oxidation of pyridine nucleotides during Fas- and ceramide-induced apoptosis in Jurkat cells: correlation with changes in mitochondria, glutathione depletion, intracellular acidification and caspase 3 activation. 2001 , 353, 357-367	92
1978	Cladribine induces apoptosis in human leukaemia cells by caspase-dependent and -independent pathways acting on mitochondria. 2001 , 359, 537-546	78
1977	Involvement of caspase-2 long isoform in Fas-mediated cell death of human leukemic cells. 2001 , 97, 1835-44	54
1976	Interleukin-5 inhibits translocation of Bax to the mitochondria, cytochrome c release, and activation of caspases in human eosinophils. 2001 , 98, 2239-47	77
1975	Mitochondria-targeting drugs arsenic trioxide and lonidamine bypass the resistance of TPA-differentiated leukemic cells to apoptosis. 2001 , 97, 3931-40	78
1974	Roles of caspases in the programmed cell death of motoneurons in vivo. 2001 , 64, 461-74	13
1973	Action of recombinant human apoptotic endonuclease G on naked DNA and chromatin substrates: cooperation with exonuclease and DNase I. 2001 , 276, 48404-9	134
1972	Apaf1 in developmental apoptosis and cancer: how many ways to die?. 2001 , 58, 1688-97	36

1971	Apoptotic and necrotic cell death induced by death domain receptors. 2001 , 58, 356-70	199
1970	Hydrogen peroxide and hydroxyl radical involvement in the activation of caspase-3 in chemically induced apoptosis of HL-60 cells. 2001 , 58, 485-91	27
1969	Distinct apoptotic phenotypes induced by radiation and ceramide in both p53-wild-type and p53-mutated lymphoblastoid cells. 2001 , 40, 301-8	13
1968	The role of apoptosis in the pathogenesis of the myelodysplastic syndromes. 2001 , 73, 416-428	38
1967	Differentiation, apoptosis, and function of human immature and mature myeloid cells: intracellular signaling mechanism. 2001 , 73, 438-452	18
1966	Apoptotic morphology does not always require caspase activity in rat cerebellar granule neurons. 2001 , 3, 501-14	34
1965	Is Bax a mitochondrial mediator in apoptotic death of dopaminergic neurons in Parkinson's disease?. 2001 , 76, 1785-93	115
1964	Ca(2+)-induced inhibition of apoptosis in human SH-SY5Y neuroblastoma cells: degradation of apoptotic protease activating factor-1 (APAF-1). 2001 , 78, 1256-66	46
1963	Apoptosis and its relevance to urologists. 2000 , 86, 598-606	1
1962	Signaling pathways and effector mechanisms pre-programmed cell death. 2001 , 9, 1371-84	104
1961	Bax and caspases are inhibited by endogenous nitric oxide in dorsal root ganglion neurons in vitro. 2001 , 14, 1229-36	41
1960	Mitochondrial defects in neurodegenerative disease. 2001 , 7, 158-66	54
1959	Dissecting the apoptotic mechanisms of chemotherapeutic drugs and lymphocytes to design effective anticancer therapies. 2001 , 52, 549-557	3
1958	Molecular machinery and signaling events in apoptosis. 2001 , 52, 558-570	18
1957	Acrolein induces activation of the epidermal growth factor receptor of human keratinocytes for cell death. 2001 , 81, 679-88	35
1956	Serum suppresses myeloid progenitor apoptosis by regulating iron homeostasis. 2001 , 82, 171-86	8
1955	Cepharanthine activates caspases and induces apoptosis in Jurkat and K562 human leukemia cell lines. 2001 , 82, 200-14	47
1954	Apoptosis and its clinical impact. 2001 , 23, 409-25	53

1953	Mouse models for mitochondrial disease. 2001 , 106, 71-93	137
1952	The emerging role of caspases in signal transduction as revealed by knock-out studies that only apoptosis. 2001 , 1, 51-65	1
1951	Mitochondria--the suicide organelles. 2001 , 23, 111-5	149
1950	Cell apoptosis induced by carcinogenic metals. 2001 , 222, 183-188	87
1949	The role of apoptosis in regulating hematopoietic stem cell numbers. 2001 , 6, 239-52	26
1948	Caspase-independent apoptotic pathways in T lymphocytes: a minireview. 2001 , 6, 371-5	45
1947	Molecular mechanisms of bacteria induced apoptosis. 2001 , 6, 441-5	107
1946	Mechanism of apoptosis induced by zinc deficiency in peripheral blood T lymphocytes. 2001 , 6, 419-29	41
1945	Apoptosis in cardiac disease--what is it--how does it occur. 2001 , 15, 507-23	26
1944	Germ Plasm and Germ-line Cell Determination: The Role of Mitochondria. 2001 , 27, 8-14	10
1943	Caspase activity in newt spermatogonial apoptosis induced by prolactin and cycloheximide. 2001 , 59, 209-14	9
1942	Prolonged, but not acute, glutathione depletion promotes Fas-mediated mitochondrial permeability transition and apoptosis in mice. 2001 , 33, 1181-8	49
1941	Dissociation of mitochondrial depolarization from cytochrome c release during apoptosis induced by photodynamic therapy. 2001 , 84, 1099-106	85
1940	Radiation induced CNS toxicity--molecular and cellular mechanisms. 2001 , 85, 1233-9	220
1939	Anti-Her-2/neu antibody induces apoptosis in Her-2/neu overexpressing breast cancer cells independently from p53 status. 2001 , 85, 1764-70	16
1938	BCL-2 proteins: regulators of the mitochondrial apoptotic program. 2001 , 52, 231-6	63
1937	The Ca ²⁺ concentration of the endoplasmic reticulum is a key determinant of ceramide-induced apoptosis: significance for the molecular mechanism of Bcl-2 action. 2001 , 20, 2690-701	477
1936	Vibrio parahaemolyticus thermostable direct hemolysin can induce an apoptotic cell death in Rat-1 cells from inside and outside of the cells. 2001 , 195, 237-44	42

1935	Mouse models of cell death. 2001 , 28, 113-8	229
1934	Programmed cell death in cerebral ischemia. 2001 , 21, 99-109	411
1933	Protective effect of a prosaposin-derived, 18-mer peptide on slowly progressive neuronal degeneration after brief ischemia. 2001 , 21, 1295-302	18
1932	Effects and mechanisms of emodin on cell death in human lung squamous cell carcinoma. 2001 , 134, 11-20	75
1931	Heat-shock protein 70 antagonizes apoptosis-inducing factor. 2001 , 3, 839-43	707
1930	Zinc-mediated regulation of caspases activity: dose-dependent inhibition or activation of caspase-3 in the human Burkitt lymphoma B cells (Ramos). 2001 , 8, 152-61	45
1929	Host defense, viruses and apoptosis. 2001 , 8, 113-26	415
1928	Caspases mediate nucleoporin cleavage, but not early redistribution of nuclear transport factors and modulation of nuclear permeability in apoptosis. 2001 , 8, 495-505	89
1927	C2-ceramide signaling in glioma cells: synergistic enhancement of CD95-mediated, caspase-dependent apoptosis. 2001 , 8, 595-602	25
1926	An apoptosis signaling pathway induced by the death domain of FADD selectively kills normal but not cancerous prostate epithelial cells. 2001 , 8, 696-705	31
1925	Bax translocation to mitochondria subsequent to a rapid loss of mitochondrial membrane potential. 2001 , 8, 909-20	158
1924	Retinoic acid receptor-independent mechanism of apoptosis of melanoma cells by the retinoid CD437 (AHPN). 2001 , 8, 878-86	47
1923	Endonuclease G: a mitochondrial protein released in apoptosis and involved in caspase-independent DNA degradation. 2001 , 8, 1136-42	260
1922	Another genotoxic agent released by mitochondrial meltdown. 2001 , 8, 1134-5	3
1921	The kiss of death: promises and failures of death receptors and ligands in cancer therapy. 2001 , 15, 1022-32	169
1920	Early increase in DcR2 expression and late activation of caspases in the platelet storage lesion. 2001 , 15, 1572-81	50
1919	Modulation of apoptosis by procaspase-2 short isoform: selective inhibition of chromatin condensation, apoptotic body formation and phosphatidylserine externalization. 2001 , 20, 260-9	32
1918	Cell type specific involvement of death receptor and mitochondrial pathways in drug-induced apoptosis. 2001 , 20, 1063-75	206

1917	Mitochondrial cytochrome c release is caspase-dependent and does not involve mitochondrial permeability transition in didemnin B-induced apoptosis. 2001 , 20, 4085-94	36
1916	The adenine nucleotide translocator: a target of nitric oxide, peroxynitrite, and 4-hydroxynonenal. 2001 , 20, 4305-16	232
1915	Constitutively active Akt is an important regulator of TRAIL sensitivity in prostate cancer. 2001 , 20, 6073-83	247
1914	Sensitization for death receptor- or drug-induced apoptosis by re-expression of caspase-8 through demethylation or gene transfer. 2001 , 20, 5865-77	375
1913	Adenine nucleotide translocator mediates the mitochondrial membrane permeabilization induced by lonidamine, arsenite and CD437. 2001 , 20, 7579-87	174
1912	Cell death in HIV pathogenesis and its modulation by retinoids. 2001 , 946, 95-107	3
1911	Breaking the mitochondrial barrier. 2001 , 2, 63-7	797
1910	Antimycin A mimics a cell-death-inducing Bcl-2 homology domain 3. 2001 , 3, 183-91	391
1909	Essential role of the mitochondrial apoptosis-inducing factor in programmed cell death. <i>Nature</i> , 2001 , 410, 549-54	50.4 1102
1908	Toronto's science jewel. <i>Nature</i> , 2001 , 411, 519-20	50.4 0
1907	Programmed cell death, mitochondria and the plant hypersensitive response. <i>Nature</i> , 2001 , 411, 848-53	50.4 712
1906	Mitochondrial endonuclease G is important for apoptosis in <i>C. elegans</i> . <i>Nature</i> , 2001 , 412, 90-4	50.4 359
1905	Endonuclease G is an apoptotic DNase when released from mitochondria. <i>Nature</i> , 2001 , 412, 95-9	50.4 1370
1904	Four deaths and a funeral: from caspases to alternative mechanisms. 2001 , 2, 589-98	1553
1903	In Utero Ethanol Exposure Causes Mitochondrial Dysfunction, Which Can Result in Apoptotic Cell Death in Fetal Brain: A Potential Role for 4-Hydroxynonenal. 2001 , 25, 862-871	131
1902	Mitochondria make a come back. 2001 , 49, 3-26	108
1901	Differential regulation of phosphatidylserine externalization and DNA fragmentation by caspases in anticancer drug-induced apoptosis of rat mammary adenocarcinoma MTLn3 cells. 2001 , 62, 1087-97	33
1900	Inhibition of caspase-3-like activity reduces glutamate induced cell death in adult rat retina. 2001 , 904, 177-88	52

1899	Programmed cell death: alive and well in the new millennium. 2001 , 11, 526-34	540
1898	Mitochondrial filaments and clusters as intracellular power-transmitting cables. 2001 , 26, 23-9	351
1897	Life-or-death decisions by the Bcl-2 protein family. 2001 , 26, 61-6	774
1896	The mitochondrial apoptosome: a killer unleashed by the cytochrome seas. 2001 , 26, 390-7	440
1895	The programmed death phenomena, aging, and the Samurai law of biology. 2001 , 36, 995-1024	110
1894	Methylmercury and H ₂ O ₂ provoke lysosomal damage in human astrocytoma D384 cells followed by apoptosis. 2001 , 30, 1347-56	64
1893	Apoptosis regulators and their role in tumorigenesis. 2001 , 1551, F1-37	73
1892	Cell differentiation and apoptosis of monocytic and promyelocytic leukemia cells (U-937 and HL-60) by tryptanthrin, an active ingredient of Polygonum tinctorium Lour. 2001 , 51, 315-25	63
1891	Angiogenic potential of prostate carcinoma cells overexpressing bcl-2. 2001 , 93, 208-13	85
1890	Dominant cell death induction by extramitochondrially targeted apoptosis-inducing factor. 2001 , 15, 758-67	210
1889	Resveratrol, a tumor-suppressive compound from grapes, induces apoptosis via a novel mitochondrial pathway controlled by Bcl-2. 2001 , 15, 1613-5	161
1888	The dependence receptor DCC (deleted in colorectal cancer) defines an alternative mechanism for caspase activation. 2001 , 98, 3416-21	165
1887	Apoptosis-resistant mitochondria in T cells selected for resistance to Fas signaling. 2001 , 276, 3610-9	25
1886	Photodynamic therapy-induced apoptosis in epidermoid carcinoma cells. Reactive oxygen species and mitochondrial inner membrane permeabilization. 2001 , 276, 47379-86	213
1885	Requirement for transforming growth factor beta1 in controlling T cell apoptosis. 2001 , 194, 439-53	107
1884	The mitochondrial permeability transition, release of cytochrome c and cell death. Correlation with the duration of pore openings in situ. 2001 , 276, 12030-4	373
1883	Involvement of p38 in apoptosis-associated membrane blebbing and nuclear condensation. 2001 , 12, 1569-82	97
1882	Neuronal Death by Accident or by Design. 2001 ,	

1881	Apoptosis-inducing factor mediates microglial and neuronal apoptosis caused by pneumococcus. 2001 , 184, 1300-9	119
1880	Pan-caspase inhibitor zVAD enhances cell death in RAW246.7 macrophages. 2001 , 7, 292-296	
1879	Caspase cleavage enhances the apoptosis-inducing effects of BAD. 2001 , 21, 3025-36	101
1878	Curcumin inhibits activation of Vgamma9Vdelta2 T cells by phosphoantigens and induces apoptosis involving apoptosis-inducing factor and large scale DNA fragmentation. 2001 , 167, 3454-62	38
1877	The deprivation syndrome is the driving force of phylogeny, ontogeny and oncogeny. 2001 , 12, 217-87	10
1876	Increased in vivo apoptosis in cells lacking mitochondrial DNA gene expression. 2001 , 98, 4038-43	216
1875	Mitochondria and apoptosis. 2001 , 10, 147-61	74
1874	Neuronal cell death in nervous system development, disease, and injury (Review). 2001 , 7, 455	15
1873	NADH oxidase activity of mitochondrial apoptosis-inducing factor. 2001 , 276, 16391-8	300
1872	Activation of the PPAR pathway induces apoptosis and COX-2 inhibition in HT-29 human colon cancer cells. 2001 , 22, 1379-83	160
1871	Prion protein fragment PrP-(106-126) induces apoptosis via mitochondrial disruption in human neuronal SH-SY5Y cells. 2001 , 276, 43516-23	119
1870	Resistance to tumor necrosis factor-induced cell death mediated by PMCA4 deficiency. 2001 , 21, 8276-88	64
1869	Rotenone inhibits the mitochondrial permeability transition-induced cell death in U937 and KB cells. 2001 , 276, 41394-8	106
1868	Bid is cleaved by calpain to an active fragment in vitro and during myocardial ischemia/reperfusion. 2001 , 276, 30724-8	286
1867	A role of the mitochondrial apoptosis-inducing factor in granulysin-induced apoptosis. 2001 , 167, 1222-9	98
1866	Synergistic induction of apoptosis in primary CD4(+) T cells by macrophage-tropic HIV-1 and TGF-beta1. 2001 , 167, 3360-6	26
1865	CD99 signals caspase-independent T cell death. 2001 , 166, 4931-42	84
1864	Xenopus Bcl-X(L) selectively protects Rohon-Beard neurons from metamorphic degeneration. 2001 , 98, 7869-74	47

1863	Rate-limiting step preceding cytochrome c release in cells primed for Fas-mediated apoptosis revealed by analysis of cellular mosaicism of respiratory changes. 2001 , 276, 606-15	27
1862	Involvement of the acid sphingomyelinase pathway in uva-induced apoptosis. 2001 , 276, 11775-82	120
1861	Control of mitochondrial redox balance and cellular defense against oxidative damage by mitochondrial NADP+-dependent isocitrate dehydrogenase. 2001 , 276, 16168-76	407
1860	The ectodermal dysplasia receptor activates the nuclear factor-kappaB, JNK, and cell death pathways and binds to ectodysplasin A. 2001 , 276, 2668-77	132
1859	Pro-caspase-8 is predominantly localized in mitochondria and released into cytoplasm upon apoptotic stimulation. 2001 , 276, 8079-86	89
1858	Involvement of mitochondrial phospholipid hydroperoxide glutathione peroxidase as an antiapoptotic factor. 2001 , 10, 81-92	28
1857	Apoptosis, Part I: Biochemical assessment. 2001 , 36, 63-107	
1856	VDAC-dependent permeabilization of the outer mitochondrial membrane by superoxide induces rapid and massive cytochrome c release. 2001 , 155, 1003-15	419
1855	On the evolutionary conservation of the cell death pathway: mitochondrial release of an apoptosis-inducing factor during Dictyostelium discoideum cell death. 2001 , 12, 3016-30	140
1854	Calcium is a key signaling molecule in beta-lapachone-mediated cell death. 2001 , 276, 19150-9	123
1853	A role for mitochondrial Bak in apoptotic response to anticancer drugs. 2001 , 276, 34307-17	100
1852	Hyaluronidase induction of a WW domain-containing oxidoreductase that enhances tumor necrosis factor cytotoxicity. 2001 , 276, 3361-70	175
1851	Pro-survival function of Akt/protein kinase B in prostate cancer cells. Relationship with TRAIL resistance. 2001 , 276, 38361-9	88
1850	FLICE-inhibitory protein is a key regulator of germinal center B cell apoptosis. 2001 , 193, 447-58	112
1849	S-Nitrosylation of mitochondrial caspases. 2001 , 154, 1111-6	319
1848	Apoptosis: live or die--hard work either way!. 2001 , 33, 511-9	31
1847	Mitochondria in apoptosis and human disease. 2001 , 1, 91-122	90
1846	HIV induces lymphocyte apoptosis by a p53-initiated, mitochondrial-mediated mechanism. 2001 , 15, 5-6	94

1845	Different pathways mediate cytochrome c release after photodynamic therapy with hypericin. 2001 , 74, 133-42	48
1844	Hsp27 as a negative regulator of cytochrome C release. 2002 , 22, 816-34	366
1843	Relief of extrinsic pathway inhibition by the Bid-dependent mitochondrial release of Smac in Fas-mediated hepatocyte apoptosis. 2002 , 277, 26912-20	108
1842	Bcl-XL protects BimEL-induced Bax conformational change and cytochrome C release independent of interacting with Bax or BimEL. 2002 , 277, 41604-12	77
1841	The Bax subfamily of Bcl2-related proteins is essential for apoptotic signal transduction by c-Jun NH(2)-terminal kinase. 2002 , 22, 4929-42	433
1840	Mitochondrial Dysfunction in Oxidative Stress, Excitotoxicity, and Apoptosis. 2002 , 341-359	
1839	15-Deoxy-Delta(12,14)-prostaglandin J(2): the endogenous electrophile that induces neuronal apoptosis. 2002 , 99, 7367-72	157
1838	Bcl-2 and Bcl-xL inhibit CD95-mediated apoptosis by preventing mitochondrial release of Smac/DIABLO and subsequent inactivation of X-linked inhibitor-of-apoptosis protein. 2002 , 277, 11345-51	188
1837	Mechanisms of AIF-mediated apoptotic DNA degradation in Caenorhabditis elegans. 2002 , 298, 1587-92	333
1836	Mitochondria-dependent caspase-9 activation is necessary for antigen receptor-mediated effector caspase activation and apoptosis in WEHI 231 lymphoma cells. 2002 , 168, 3902-9	45
1835	A novel adenine nucleotide translocase inhibitor, MT-21, induces cytochrome c release by a mitochondrial permeability transition-independent mechanism. 2002 , 277, 31243-8	39
1834	Cytochrome c oxidase subunit III: a molecular marker for N-(4-hydroxyphenyl)retinamisse-induced oxidative stress in hepatoma cells. 2002 , 277, 3870-7	39
1833	Direct activation of mitochondrial apoptosis machinery by c-Jun N-terminal kinase in adult cardiac myocytes. 2002 , 277, 10244-50	275
1832	Rapid kinetics of tBid-induced cytochrome c and Smac/DIABLO release and mitochondrial depolarization. 2002 , 277, 5651-9	147
1831	Modeling apoptotic chromatin condensation in normal cell nuclei. Requirement for intranuclear mobility and actin involvement. 2002 , 277, 21683-90	33
1830	Cellular mechanisms for the repression of apoptosis. 2002 , 42, 259-81	98
1829	Bax oligomerization in mitochondrial membranes requires tBid (caspase-8-cleaved Bid) and a mitochondrial protein. 2002 , 368, 915-21	159
1828	Kaposi's sarcoma-associated herpesvirus mitochondrial K7 protein targets a cellular calcium-modulating cyclophilin ligand to modulate intracellular calcium concentration and inhibit apoptosis. 2002 , 76, 11491-504	85

1827	On the release of cytochrome c from mitochondria during cell death signaling. 2002 , 9, 488-506	33
1826	Ceramide channels increase the permeability of the mitochondrial outer membrane to small proteins. 2002 , 277, 26796-803	281
1825	Role of Bcl-2 family members in caspase-independent apoptosis during Chlamydia infection. 2002 , 70, 55-61	86
1824	Productive HIV-1 infection of primary CD4+ T cells induces mitochondrial membrane permeabilization leading to a caspase-independent cell death. 2002 , 277, 1477-87	55
1823	Bupivacaine myotoxicity is mediated by mitochondria. 2002 , 277, 12221-7	129
1822	Differential regulation of doxorubicin-induced mitochondrial dysfunction and apoptosis by Bcl-2 in mammary adenocarcinoma (MTLn3) cells. 2002 , 277, 35869-79	75
1821	Nitric oxide and cell signaling pathways in mitochondrial-dependent apoptosis. 2002 , 383, 411-23	127
1820	Mitochondria in Pathogenesis. 2002 ,	4
1819	Superoxide in the vascular system. 2002 , 39, 191-207	106
1818	Reovirus-induced apoptosis requires mitochondrial release of Smac/DIABLO and involves reduction of cellular inhibitor of apoptosis protein levels. 2002 , 76, 11414-24	62
1817	BMAP-28, an antibiotic peptide of innate immunity, induces cell death through opening of the mitochondrial permeability transition pore. 2002 , 22, 1926-35	123
1816	Bax-induction alone is sufficient to activate apoptosis cascade in wild-type Bax-bearing K562 cells, and the initiation of apoptosis requires simultaneous caspase activation. 2002 , 20, 723	1
1815	The elicitor cryptogin blocks glucose transport in tobacco cells. 2002 , 130, 2177-87	32
1814	Diversity of the apoptotic response to chemotherapy in childhood leukemia. 2002 , 16, 223-32	28
1813	Bcl-2 family member Bfl-1/A1 sequesters truncated bid to inhibit its collaboration with pro-apoptotic Bak or Bax. 2002 , 277, 22781-8	128
1812	Caspase-8-mediated BID cleavage and release of mitochondrial cytochrome c during Nomega-hydroxy-L-arginine-induced apoptosis in MDA-MB-468 cells. Antagonistic effects of L-ornithine. 2002 , 277, 37630-6	28
1811	Induction of apoptosis by protein kinase C delta is independent of its kinase activity. 2002 , 277, 32054-62	42
1810	Selective inhibition of dipeptidyl peptidase I, not caspases, prevents the partial processing of procaspase-3 in CD3-activated human CD8(+) T lymphocytes. 2002 , 277, 32339-47	22

1809	Critical role of mitochondria, but not caspases, during glucocorticosteroid-induced human eosinophil apoptosis. 2002 , 26, 565-71	32
1808	Mitochondrial release of apoptosis-inducing factor occurs downstream of cytochrome c release in response to several proapoptotic stimuli. 2002 , 159, 923-9	266
1807	Genistein-induced apoptosis of p815 mastocytoma cells is mediated by Bax and augmented by a proteasome inhibitor, lactacystin. 2002 , 42, 248-55	13
1806	Biochemical and cellular mechanisms of toxic liver injury. 2002 , 22, 137-44	190
1805	Early mitochondrial dysfunction, superoxide anion production, and DNA degradation are associated with non-apoptotic death of human airway epithelial cells induced by <i>Pseudomonas aeruginosa</i> exotoxin A. 2002 , 26, 617-26	22
1804	TRAIL-induced apoptosis requires Bax-dependent mitochondrial release of Smac/DIABLO. 2002 , 16, 33-45	369
1803	Progression of atheroma: a struggle between death and procreation. 2002 , 22, 1370-80	227
1802	Mitochondrial energy dissipation by fatty acids. Mechanisms and implications for cell death. 2002 , 65, 97-126	63
1801	Trafficking of ganglioside GD3 to mitochondria by tumor necrosis factor-alpha. 2002 , 277, 36443-8	119
1800	Cyclosporin A inhibits caspase-independent death of NGF-deprived sympathetic neurons: a potential role for mitochondrial permeability transition. 2002 , 157, 771-81	44
1799	Generation and characterization of Smac/DIABLO-deficient mice. 2002 , 22, 3509-17	153
1798	ZEN1 is a key enzyme in the degradation of nuclear DNA during programmed cell death of tracheary elements. 2002 , 14, 3201-11	180
1797	CELL DEATH PATHWAYS AS TARGETS FOR ANTICANCER DRUGS. 2002 , 55-76	2
1796	Apoptosis-inducing factor (AIF): key to the conserved caspase-independent pathways of cell death?. 2002 , 115, 4727-34	406
1795	An NF-kappa B-dependent survival pathway protects against cell death induced by TVB receptors for avian leukosis viruses. 2002 , 76, 5581-7	9
1794	Involvement of the mitochondrial death pathway in chemopreventive benzyl isothiocyanate-induced apoptosis. 2002 , 277, 8492-9	133
1793	AMID, an apoptosis-inducing factor-homologous mitochondrion-associated protein, induces caspase-independent apoptosis. 2002 , 277, 25617-23	130
1792	Early mitochondrial activation and cytochrome c up-regulation during apoptosis. 2002 , 277, 50842-54	155

1791	Mechanism of Clostridium difficile toxin A-induced apoptosis in T84 cells. 2002 , 186, 1438-47	92
1790	Amyloid beta peptide induces cytochrome C release from isolated mitochondria. 2002 , 13, 1989-93	108
1789	Mitochondrial Implication in Cell Death. 2002 , 215-246	1
1788	Breakdown of chromosomal DNA. 2002 , 21, S2-6	8
1787	Differential sensitivity of naive and memory CD8+ T cells to apoptosis in vivo. 2002 , 169, 3760-70	174
1786	Caspase-independent phosphatidylserine exposure during apoptosis of primary T lymphocytes. 2002 , 169, 4805-10	77
1785	Multifunctional role of Fas-associated death domain protein in apoptosis. 2002 , 35, 1-6	9
1784	Parkinson's disease. 2002 , 53, 283-314	6
1783	Signaling to gene activation and cell death by tumor necrosis factor receptors and Fas. 2002 , 214, 225-72	38
1782	Leukocyte mitochondria alterations after aerobic exercise in trained human subjects. 2002 , 34, 438-42	42
1781	Ectopic overexpression of second mitochondria-derived activator of caspases (Smac/DIABLO) or cotreatment with N-terminus of Smac/DIABLO peptide potentiates epothilone B derivative-(BMS 247550) and Apo-2L/TRAIL-induced apoptosis. 2002 , 99, 3419-26	164
1780	Bid induces cytochrome c-impermeable Bax channels in liposomes. 2002 , 363, 547-52	42
1779	Bid induces cytochrome c-impermeable Bax channels in liposomes. 2002 , 363, 547-552	63
1778	On the origin, evolution, and nature of programmed cell death: a timeline of four billion years. 2002 , 9, 367-93	417
1777	Expression Proteomics. 11-160	4
1776	Chapter 6 Pathophysiology of Mitochondrial Disease as Illuminated by Animal Models. 2002 , 26, 175-212	
1775	The role of mitochondria in ischemia/reperfusion injury. 2002 , 73, 493-9	169
1774	Sequencing of argentinated peptides by means of matrix-assisted laser desorption/ionization tandem mass spectrometry. 2002 , 74, 2072-82	23

1773	Redox properties of vanillyl-alcohol oxidase. 2002 , 353, 177-86	9
1772	Apoptosis-inducing factor is involved in the regulation of caspase-independent neuronal cell death. 2002 , 158, 507-17	405
1771	Potentialiation of tumor necrosis factor-alpha-induced cell death by rottlerin through a cytochrome-C-independent pathway. 2002 , 278, 209-14	12
1770	The carboxy terminal C-tail of BNip3 is crucial in induction of mitochondrial permeability transition in isolated mitochondria. 2002 , 398, 147-52	60
1769	Inhibition of nuclear transport of caspase-7 by its prodomain. 2002 , 291, 79-84	18
1768	Apoptotic pathway activation from mitochondria and death receptors without caspase-3 cleavage in failing human myocardium: fragile balance of myocyte survival?. 2002 , 39, 481-8	77
1767	Animal models for mitochondrial disease. 2002 , 197, 3-54	71
1766	Redox control of cell death. 2002 , 4, 405-14	446
1765	Influence of the nitric oxide donor glyceryl trinitrate on apoptotic pathways in human colon cancer cells. 2002 , 123, 235-46	64
1764	Ventricular remodeling in heart failure. 2002 , 8, S476-85	52
1763	Applied proteomics: mitochondrial proteins and effect on function. 2002 , 90, 380-9	72
1762	Mitochondrial defects in cancer. 2002 , 1, 9	421
1761	Mediation of poly(ADP-ribose) polymerase-1-dependent cell death by apoptosis-inducing factor. 2002 , 297, 259-63	1508
1760	Characterization of the cell death modes and the associated changes in cellular energy supply in response to AlPcS4-PDT. 2002 , 1, 172-7	68
1759	Single-cell fluorescence resonance energy transfer analysis demonstrates that caspase activation during apoptosis is a rapid process. Role of caspase-3. 2002 , 277, 24506-14	247
1758	Critical role of photoreceptor apoptosis in functional damage after retinal detachment. 2002 , 24, 161-72	120
1757	[Mechanisms of radio-induced apoptosis]. 2002 , 80, 629-37	3
1756	Programmed cell death: many ways for cells to die decently. 2002 , 34, 480-8	100

1755	Modulation of endothelial cell apoptosis by heme oxygenase-1-derived carbon monoxide. 2002 , 4, 321-9	110
1754	Dueling activities of AIF in cell death versus survival: DNA binding and redox activity. 2002 , 111, 147-50	158
1753	Bcl-2 protects against apoptosis induced by antimycin A and bongkreikic acid without restoring cellular ATP levels. 2002 , 1554, 57-65	24
1752	Dysfunction of rat liver mitochondria by selenite: induction of mitochondrial permeability transition through thiol-oxidation. 2002 , 294, 1130-7	44
1751	Bcl-2 blocks apoptosis caused by pierisin-1, a guanine-specific ADP-ribosylating toxin from the cabbage butterfly. 2002 , 296, 20-5	21
1750	High-throughput measurement of mitochondrial membrane potential in a neural cell line using a fluorescence plate reader. 2002 , 298, 750-4	29
1749	A study on permeability transition pore opening and cytochrome c release from mitochondria, induced by caspase-3 in vitro. 2002 , 510, 62-6	48
1748	A novel p53-inducible apoptogenic gene, PRG3, encodes a homologue of the apoptosis-inducing factor (AIF). 2002 , 524, 163-71	67
1747	Programmed death in yeast as adaptation?. 2002 , 528, 23-6	49
1746	Role of mitochondrial inner membrane permeabilization in necrotic cell death, apoptosis, and autophagy. 2002 , 4, 769-81	299
1745	Animal response to drastic changes in oxygen availability and physiological oxidative stress. 2002 , 133, 537-56	218
1744	A matter of life and death. 2002 , 1, 19-30	887
1743	GD3 ganglioside and apoptosis. 2002 , 1585, 179-87	95
1742	Serum deprivation increases ceramide levels and induces apoptosis in undifferentiated HN9.10e cells. 2002 , 40, 327-36	40
1741	Baicalin induces apoptosis via mitochondrial pathway as prooxidant. 2002 , 38, 781-91	89
1740	Piracetam and vinpocetine exert cytoprotective activity and prevent apoptosis of astrocytes in vitro in hypoxia and reoxygenation. 2002 , 23, 19-31	48
1739	Aniracetam attenuates apoptosis of astrocytes subjected to simulated ischemia in vitro. 2002 , 23, 385-95	23
1738	The voltage-dependent anion channel: an essential player in apoptosis. 2002 , 84, 187-93	227

1737	Apoptosis-inducing factor (AIF): a novel caspase-independent death effector released from mitochondria. 2002 , 84, 215-22	418
1736	Mitochondria: regulating the inevitable. 2002 , 84, 105-11	92
1735	Aging confers different sensitivity to the neurotoxic properties of unconjugated bilirubin. 2002 , 51, 112-8	29
1734	Caspase-2 induces apoptosis by releasing proapoptotic proteins from mitochondria. 2002 , 277, 13430-7	373
1733	A Bax-induced pro-oxidant state is critical for cytochrome c release during programmed neuronal death. 2002 , 22, 6480-90	150
1732	AIF, le facteur inducteur de l'apoptose, est tenu en échec par la protéine de stress Hsp70. 2002 , 18, 147-149	
1731	. 2002 ,	
1730	Genistein-Induced Apoptosis of p815 Mastocytoma Cell. 2002 , 14, 88	
1729	Mitochondrial Dysfunction in the Pathogenesis of Acute Neural Cell Death. 2002 , 317-331	
1728	Complement and Apoptosis. 57-78	
1727	mda-7 (IL-24): Signaling and Functional Roles. 2002 , 33, S30-S39	52
1726	Polyamine depletion prevents camptothecin-induced apoptosis by inhibiting the release of cytochrome c. 2002 , 282, C1290-7	52
1725	MEK-1/2 inhibition reduces branching morphogenesis and causes mesenchymal cell apoptosis in fetal rat lungs. 2002 , 282, L370-8	57
1724	Heat stress prevents mitochondrial injury in ATP-depleted renal epithelial cells. 2002 , 283, C917-26	81
1723	L'Élimination des cellules apoptotiques : une phagocytose particulière. 2002 , 18, 853-860	1
1722	Tumor suppressor p53 mediates apoptotic cell death triggered by cyclosporin A. 2002 , 277, 14102-8	37
1721	BAX and BH3-domain-only proteins in p53-mediated apoptosis. 2002 , 7, d151	22
1720	In Vivo Delivery of a Bcl-xL Fusion Protein Containing the TAT Protein Transduction Domain Protects against Ischemic Brain Injury and Neuronal Apoptosis. 2002 , 22, 5423-31	376

1719	R�gulation de la mort cellulaire programm�e : vers une conception plus dynamique. 2002 , 18, 841-852	1
1718	Overview on the mechanisms of drug-induced liver cell death. 2002 , 1, 162-168	23
1717	Formation of caspase-3 complexes and fragmentation of caspase-12 during anisomycin-induced apoptosis in AKR-2B cells without aggregation of Apaf-1. 2002 , 81, 567-76	14
1716	Mitochondria and ceramide: intertwined roles in regulation of apoptosis. 2002 , 42, 113-29	133
1715	Death to flies: Drosophila as a model system to study programmed cell death. 2002 , 265, 21-38	87
1714	Quantitation of mitochondrial alterations associated with apoptosis. 2002 , 265, 39-47	227
1713	Regulation and measurement of oxidative stress in apoptosis. 2002 , 265, 49-72	450
1712	Evaluation of caspase activity in apoptotic cells. 2002 , 265, 97-110	150
1711	Genetic analysis of the mammalian cell death machinery. 2002 , 18, 142-9	114
1710	Monoamine neurotoxins-induced apoptosis in lymphocytes by a common oxidative stress mechanism: involvement of hydrogen peroxide (H ₂ O ₂), caspase-3, and nuclear factor kappa-B (NF-kappaB), p53, c-Jun transcription factors. 2002 , 63, 677-88	48
1709	Induction of cytochrome c-mediated apoptosis by amyloid beta 25-35 requires functional mitochondria. 2002 , 931, 117-25	92
1708	Release of cytochrome c into the extracellular space contributes to neuronal apoptosis induced by staurosporine. 2002 , 934, 107-16	46
1707	Megamitochondria formation - physiology and pathology. 2002 , 6, 497-538	129
1706	Overexpression of Helicard, a CARD-containing helicase cleaved during apoptosis, accelerates DNA degradation. 2002 , 12, 838-43	110
1705	Apoptotic DNA fragmentation and tissue homeostasis. 2002 , 12, 84-9	114
1704	Age-associated increases in the activity of multiple caspases in Fisher 344 rat organs. 2002 , 37, 777-89	61
1703	Modulation of caspase activation and p27(Kip1) degradation in the p53-induced apoptosis in IW32 erythroleukemia cells. 2002 , 14, 961-8	10
1702	Mass spectrometric identification of mitochondrial oxidative phosphorylation subunits separated by two-dimensional blue-native polyacrylamide gel electrophoresis. 2002 , 23, 2525-33	61

1701	Catecholamine-induced oligodendrocyte cell death in culture is developmentally regulated and involves free radical generation and differential activation of caspase-3. 2002 , 40, 283-99	50
1700	Upregulation of Bcl-2 is involved in the mediation of chemotherapy resistance in human small cell lung cancer cell lines. 2002 , 97, 584-92	175
1699	Effects of caspase inhibition on camptothecin-induced apoptosis of HL-60 cells. 2002 , 49, 28-35	16
1698	Antimycin A-induced apoptosis of HL-60 cells. 2002 , 49, 106-12	29
1697	Mitochondria, the killer organelles and their weapons. 2002 , 192, 131-7	402
1696	On the release of cytochrome c from mitochondria during cell death signaling. 2002 , 9, 488-506	63
1695	Dynamic coupling of 99mTc-MIBI efflux and apoptotic pathway activation in untreated breast cancer patients. 2002 , 29, 809-14	15
1694	Proteomics without polyacrylamide: qualitative and quantitative uses of tandem mass spectrometry in proteome analysis. 2002 , 2, 138-53	30
1693	Involvement of apoptotic cell death in autoimmune diseases. 2002 , 35, 1-8	20
1692	Increased incidence of mitochondrial cytochrome c-oxidase gene mutations in patients with myelodysplastic syndromes. 2002 , 116, 564-75	53
1691	Intracellular signal transduction of cells in response to carcinogenic metals. 2002 , 42, 105-21	92
1690	Microglial apoptosis induced by chromogranin A is mediated by mitochondrial depolarisation and the permeability transition but not by cytochrome c release. 2000 , 74, 1452-62	57
1689	Nitric-oxide-induced necrosis and apoptosis in PC12 cells mediated by mitochondria. 2000 , 75, 1455-64	138
1688	Two caspase-2 transcripts are expressed in rat hippocampus after global cerebral ischemia. 2002 , 81, 25-35	17
1687	Intranuclear localization of apoptosis-inducing factor (AIF) and large scale DNA fragmentation after traumatic brain injury in rats and in neuronal cultures exposed to peroxynitrite. 2002 , 82, 181-91	223
1686	Ceramide-induced apoptosis of D283 medulloblastoma cells requires mitochondrial respiratory chain activity but occurs independently of caspases and is not sensitive to Bcl-xL overexpression. 2002 , 82, 482-94	29
1685	Dissociation of DNA damage and mitochondrial injury caused by hydrogen peroxide in SV-40 transformed lung epithelial cells. 2002 , 2, 16	7
1684	The molecular mechanism in activation-induced cell death of an Ag-reactive B cell clone. 2002 , 128, 436-43	1

1683	Translocation of apoptosis-inducing factor in cerebellar granule cells exposed to neurotoxic agents inducing oxidative stress. 2002 , 16, 2013-6	56
1682	Interaction among mitochondria, mitogen-activated protein kinases, and nuclear factor-kappaB in cellular models of Parkinson's disease. 2000 , 74, 1384-92	98
1681	Suppression of postmitochondrial signaling and delayed response to UV-induced nuclear apoptosis in HeLa cells. 2002 , 93, 275-83	11
1680	Pre-processed caspase-9 contained in mitochondria participates in apoptosis. 2002 , 9, 82-8	64
1679	Macrophages are involved in DNA degradation of apoptotic cells in murine thymus after administration of hydrocortisone. 2002 , 9, 104-12	23
1678	A matrix-assisted laser desorption ionization post-source decay (MALDI-PSD) analysis of proteins released from isolated liver mitochondria treated with recombinant truncated Bid. 2002 , 9, 301-8	76
1677	Formation of noncanonical high molecular weight caspase-3 and -6 complexes and activation of caspase-12 during serum starvation induced apoptosis in AKR-2B mouse fibroblasts. 2002 , 9, 125-37	38
1676	The serine protease Omi/HtrA2 is released from mitochondria during apoptosis. Omi interacts with caspase-inhibitor XIAP and induces enhanced caspase activity. 2002 , 9, 20-6	270
1675	The role of mitochondrial factors in apoptosis: a Russian roulette with more than one bullet. 2002 , 9, 1031-42	498
1674	The C-terminal moiety of HIV-1 Vpr induces cell death via a caspase-independent mitochondrial pathway. 2002 , 9, 1212-9	72
1673	Differential requirement for Apaf1 and Bcl-X(L) in the regulation of programmed cell death during development. 2002 , 9, 1273-6	10
1672	Wild-type p53 induced sensitization of mutant p53 TNF-resistant cells: role of caspase-8 and mitochondria. 2002 , 9, 219-27	18
1671	Role of caspases and apoptosis-inducing factor (AIF) in cladribine-induced apoptosis of B cell chronic lymphocytic leukemia. 2002 , 16, 2106-14	35
1670	Mitochondrial dysfunction is an essential step for killing of non-small cell lung carcinomas resistant to conventional treatment. 2002 , 21, 65-77	105
1669	Mechanisms of Interferon-alpha induced apoptosis in malignant cells. 2002 , 21, 1251-62	183
1668	IFNgamma sensitizes for apoptosis by upregulating caspase-8 expression through the Stat1 pathway. 2002 , 21, 2295-308	220
1667	Inhibition of TRAIL-induced apoptosis by Bcl-2 overexpression. 2002 , 21, 2283-94	329
1666	Cell permeable BH3-peptides overcome the cytoprotective effect of Bcl-2 and Bcl-X(L). 2002 , 21, 1963-77	83

1665	Dysregulation of apoptosis genes in hematopoietic malignancies. 2002 , 21, 3459-74	134
1664	Manganese superoxide dismutase deficiency enhances cell turnover via tumor promoter-induced alterations in AP-1 and p53-mediated pathways in a skin cancer model. 2002 , 21, 3836-46	81
1663	Chemotherapy: targeting the mitochondrial cell death pathway. 2002 , 21, 8786-803	350
1662	Cloning and characterization of rat caspase-9: implications for a role in mediating caspase-3 activation and hippocampal cell death after transient cerebral ischemia. 2002 , 22, 534-46	83
1661	The harlequin mouse mutation downregulates apoptosis-inducing factor. <i>Nature</i> , 2002 , 419, 367-74	50.4 508
1660	Response to 'Interaction of DAP3 and FADD only after cellular disruption'. 2002 , 3, 4-5	5
1659	Homeostatic control of lymphocyte survival: potential origins and implications. 2002 , 3, 515-21	133
1658	Yeast and apoptosis. 2002 , 3, 453-9	260
1657	The crystal structure of the mouse apoptosis-inducing factor AIF. 2002 , 9, 442-6	136
1656	DNA binding is required for the apoptogenic action of apoptosis inducing factor. 2002 , 9, 680-4	279
1655	Molecular mechanisms of sulfasalazine-induced T-cell apoptosis. 2002 , 137, 608-20	32
1654	Programmed death phenomena: from organelle to organism. 2002 , 959, 214-37	119
1653	Murine coronavirus-induced apoptosis in 17Cl-1 cells involves a mitochondria-mediated pathway and its downstream caspase-8 activation and bid cleavage. 2002 , 302, 321-32	35
1652	Time sequence analysis of caspase-3-independent programmed cell death and apoptosis in X-irradiated human leukemic MOLT-4 cells. 2002 , 310, 305-11	8
1651	Yeast as a model to study apoptosis?. 2002 , 22, 59-79	27
1650	Bcl-2 family of proteins: life-or-death switch in mitochondria. 2002 , 22, 47-58	96
1649	Initiator caspases in apoptosis signaling pathways. 2002 , 7, 313-9	339
1648	Mitochondrial permeability transition as a novel principle of hepatorenal toxicity in vivo. 2002 , 7, 395-405	46

1647	New insights in the role of Bcl-2 Bcl-2 and the endoplasmic reticulum. 2002 , 7, 441-7	49
1646	Intracellular superoxide induces apoptosis in VSMCs: role of mitochondrial membrane potential, cytochrome C and caspases. 2002 , 7, 511-7	24
1645	Oxygen deprivation induced cell death: an update. 2002 , 7, 475-82	136
1644	Cerebellar granule cells as a model to study mechanisms of neuronal apoptosis or survival in vivo and in vitro. 2002 , 1, 41-55	166
1643	tcBid promotes Ca(2+) signal propagation to the mitochondria: control of Ca(2+) permeation through the outer mitochondrial membrane. 2002 , 21, 2198-206	71
1642	Aging and the programmed death phenomena. 2003 , 191-238	11
1641	Antiapoptotic effect of heat adaptation in cultured cells. 2003 , 135, 123-6	
1640	Glucocorticoid-induced apoptosis in human eosinophils: mechanisms of action. 2003 , 8, 481-95	121
1639	Mitochondrial dysfunction and reactive oxygen species in excitotoxicity and apoptosis: implications for the pathogenesis of neurodegenerative diseases. 2003 , 28, 1563-74	333
1638	Teratogen-induced activation of caspase-6 and caspase-7 in early postimplantation mouse embryos. 2003 , 19, 215-26	17
1637	Inductive effects of dexamethasone on the gene expression of Cbfa1, Osterix and bone matrix proteins during differentiation of cultured primary rat osteoblasts. 2004 , 35, 3-10	77
1636	Translocation of Bax and Bid to mitochondria, endoplasmic reticulum and nuclear envelope: possible control points in apoptosis. 2004 , 35, 11-9	21
1635	Mechanisms of apoptosis in the heart. 2003 , 23, 447-59	104
1634	The mitochondrial apoptosis-inducing factor plays a role in E2F-1-induced apoptosis in human colon cancer cells. 2003 , 10, 314-22	15
1633	An introduction to the molecular mechanisms of apoptosis. 2003 , 1010, 1-8	54
1632	Apoptosis inversely correlates with rabies virus neurotropism. 2003 , 1010, 598-603	19
1631	The mitochondrial membrane potential ($\Delta\psi(m)$) in apoptosis; an update. 2003 , 8, 115-28	1174
1630	Apoptosis induction by the recombinant fusion apoptosis inducing factor on hela cells. 2003 , 15, 241-246	

1629	Mitochondrial control of neuron death and its role in neurodegenerative disorders. 2003 , 59, 129-41	86
1628	Mechanisms of sodium nitroprusside-induced death in human chondrocytes. 2003 , 23, 241-7	17
1627	A novel, alternative pathway of apoptosis triggered through class II major histocompatibility complex molecules. 2003 , 81, 757-65	29
1626	Beta-irradiation used for systemic radioimmunotherapy induces apoptosis and activates apoptosis pathways in leukaemia cells. 2003 , 30, 1251-61	59
1625	Neurodegeneration: A non-apoptotic role for AIF in the brain. 2003 , 13, R19-21	11
1624	Combined addition of glutathione and iron chelators for decrease of intracellular level of reactive oxygen species and death of chinese hamster ovary cells. 2003 , 95, 124-127	10
1623	Repeated addition of insulin for dynamic control of apoptosis in serum-free culture of Chinese hamster ovary cells. 2003 , 96, 59-64	10
1622	Equine estrogens differentially inhibit DNA fragmentation induced by glutamate in neuronal cells by modulation of regulatory proteins involved in programmed cell death. 2003 , 4, 32	34
1621	Arachidonic acid peroxides induce apoptotic Neuro-2A cell death in association with intracellular Ca(2+) rise and mitochondrial damage independently of caspase-3 activation. 2003 , 991, 187-94	11
1620	Bcl-2-family proteins and the role of mitochondria in apoptosis. 2003 , 15, 691-9	522
1619	Pyridoxal isonicotinoyl hydrazone analogs induce apoptosis in hematopoietic cells due to their iron-chelating properties. 2003 , 65, 161-72	32
1618	Chromosomal DNA fragmentation in apoptosis and necrosis induced by oxidative stress. 2003 , 66, 1527-35	215
1617	Permanent cerebral ischemia induces sustained procaspase 9L increase not controlled by Bcl-2. 2003 , 966, 26-39	8
1616	Emodin induces apoptosis of human cervical cancer cells through poly(ADP-ribose) polymerase cleavage and activation of caspase-9. 2003 , 473, 117-25	149
1615	Bcl-2 and Bcl-xL overexpression inhibits cytochrome c release, activation of multiple caspases, and virus release following coxsackievirus B3 infection. 2003 , 313, 147-57	91
1614	High level of Bcl-2 counteracts apoptosis mediated by a live rabies virus vaccine strain and induces long-term infection. 2003 , 314, 549-61	26
1613	Molecular determinants of epothilone B derivative (BMS 247550) and Apo-2L/TRAIL-induced apoptosis of human ovarian cancer cells. 2003 , 89, 37-47	32
1612	Cell death induced by down-regulation of heat shock protein 70 in lung cancer cell lines is p53-independent and does not require DNA cleavage. 2003 , 126, 748-54	20

1611	Physiological and pathological roles of Apaf1 and the apoptosome. 2003 , 7, 21-34	49
1610	Apoptosis and lung cancer: a review. 2003 , 88, 885-98	169
1609	Mitochondria-mediated caspase-independent apoptosis induced by cadmium in normal human lung cells. 2003 , 89, 335-47	99
1608	Cell death regulation by the Bcl-2 protein family in the mitochondria. 2003 , 195, 158-67	425
1607	Staurosporine-induced apoptosis in human cornea epithelial cells in vitro. 2003 , 55, 15-23	18
1606	Perforin-dependent activation-induced cell death acts through caspase 3 but not through caspases 8 or 9. 2003 , 33, 769-78	18
1605	Dopamine induces autophagic cell death and alpha-synuclein increase in human neuroblastoma SH-SY5Y cells. 2003 , 73, 341-50	156
1604	Apoptosis in Parkinson's disease: signals for neuronal degradation. 2003 , 53 Suppl 3, S61-70; discussion S70-2	288
1603	Rationale for the use of dopamine agonists as neuroprotective agents in Parkinson's disease. 2003 , 53 Suppl 3, S149-57; discussion S157-9	41
1602	Quantitation of cytochrome c release from rat liver mitochondria. 2003 , 317, 67-75	68
1601	In vitro measurement of nuclear permeability changes in apoptosis. 2003 , 318, 244-53	18
1600	Granzyme B: a natural born killer. 2003 , 193, 31-8	200
1599	The intermembrane space of plant mitochondria contains a DNase activity that may be involved in programmed cell death. 2003 , 34, 573-83	87
1598	Death receptors and their role in dermatology, with particular focus on tumor necrosis factor-related apoptosis-inducing ligand receptors. 2003 , 42, 3-17	26
1597	Apoptosis induction by interleukin-2-activated cytotoxic lymphocytes in a squamous cell carcinoma cell line and Daudi cells - involvement of reactive oxygen species-dependent cytochrome c and reactive oxygen species-independent apoptosis-inducing factors. 2003 , 110, 217-24	8
1596	Ceramide increases mitochondrial free calcium levels via caspase 8 and Bid: role in initiation of cell death. 2003 , 84, 643-54	55
1595	Chromaffin cell death induced by 6-hydroxydopamine is independent of mitochondrial swelling and caspase activation. 2003 , 84, 1066-73	43
1594	Cyclosporin A prevents calpain activation despite increased intracellular calcium concentrations, as well as translocation of apoptosis-inducing factor, cytochrome c and caspase-3 activation in neurons exposed to transient hypoglycemia. 2003 , 85, 1431-42	78

1593	Sequential activation of individual caspases, and of alterations in Bcl-2 proapoptotic signals in a mouse model of Huntington's disease. 2003 , 87, 1184-92	55
1592	Generation of retinal ganglion cells is modulated by caspase-dependent programmed cell death. 2003 , 18, 1744-50	46
1591	Shotgun collision-induced dissociation of peptides using a time of flight mass analyzer. 2003 , 3, 847-50	132
1590	Bisphenol A diglycidyl ether-induced apoptosis involves Bax/Bid-dependent mitochondrial release of apoptosis-inducing factor (AIF), cytochrome c and Smac/DIABLO. 2003 , 139, 495-500	25
1589	Reactive oxygen species induce swelling and cytochrome c release but not transmembrane depolarization in isolated rat brain mitochondria. 2003 , 139, 797-804	58
1588	Loss of Omi mitochondrial protease activity causes the neuromuscular disorder of mnd2 mutant mice. <i>Nature</i> , 2003 , 425, 721-7	50.4 314
1587	Degradation of chromosomal DNA during apoptosis. 2003 , 10, 108-16	352
1586	Mitochondrial functions during cell death, a complex (I-V) dilemma. 2003 , 10, 488-92	88
1585	Caspase inhibition prevents the mitochondrial release of apoptosis-inducing factor. 2003 , 10, 845-9	30
1584	Methioninase gene therapy with selenomethionine induces apoptosis in bcl-2-overproducing lung cancer cells. 2003 , 10, 445-50	27
1583	Mitochondria control of cell death induced by anti-HLA-DR antibodies. 2003 , 17, 1357-65	27
1582	The proteasome inhibitor bortezomib promotes mitochondrial injury and apoptosis induced by the small molecule Bcl-2 inhibitor HA14-1 in multiple myeloma cells. 2003 , 17, 2036-45	122
1581	The tyrosine kinase Lck is involved in regulation of mitochondrial apoptosis pathways. 2003 , 22, 176-85	31
1580	Role of Smac in human leukaemic cell apoptosis and proliferation. 2003 , 22, 1589-99	47
1579	N-terminal deletion augments the cell-death-inducing activity of BAX in adenoviral gene delivery to nonsmall cell lung cancers. 2003 , 22, 2655-63	9
1578	Heat shock protein 70 binding inhibits the nuclear import of apoptosis-inducing factor. 2003 , 22, 6669-78	234
1577	Translocation of apoptosis-inducing factor in vulnerable neurons after transient cerebral ischemia and in neuronal cultures after oxygen-glucose deprivation. 2003 , 23, 1137-50	142
1576	Role of mitochondria in apoptosis. 2003 , 88, 85-90	112

1575	Mitochondria, AIF and caspases--rivaling for cell death execution. 2003 , 5, 97-9	174
1574	Apoptosis in the development and maintenance of the immune system. 2003 , 4, 410-5	397
1573	Caspase-independent cell death in T lymphocytes. 2003 , 4, 416-23	323
1572	Impaired thymic development in mouse embryos deficient in apoptotic DNA degradation. 2003 , 4, 138-44	203
1571	Uncoupling protein-2 prevents neuronal death and diminishes brain dysfunction after stroke and brain trauma. 2003 , 9, 1062-8	433
1570	Targeting programmed cell death in neurodegenerative diseases. 2003 , 4, 365-75	432
1569	Mechanisms, challenges and opportunities in stroke. 2003 , 4, 399-415	1363
1568	The association of vitamins C and K3 kills cancer cells mainly by autophagy, a novel form of cell death. Basis for their potential use as adjuvants in anticancer therapy. 2003 , 38, 451-7	65
1567	A comparison of the properties of a Bcl-xL variant to the wild-type anti-apoptosis inhibitor in mammalian cell cultures. 2003 , 5, 230-45	45
1566	Ectopic expression of Hsp70 confers resistance and silencing its expression sensitizes human colon cancer cells to curcumin-induced apoptosis. 2004 , 25, 179-87	50
1565	Role of caspases in renal tubular epithelial cell injury. 2003 , 23, 425-31	17
1564	Oxidant-induced cell death in retinal pigment epithelium cells mediated through the release of apoptosis-inducing factor. 2003 , 116, 1915-23	37
1563	Bcl-2 as a target for overcoming chemoresistance in small-cell lung cancer. 2003 , 4, 307-13	30
1562	Control of apoptosis in the immune system: Bcl-2, BH3-only proteins and more. 2003 , 21, 71-105	307
1561	An endogenous electrophile that modulates the regulatory mechanism of protein turnover: inhibitory effects of 15-deoxy-Delta 12,14-prostaglandin J2 on proteasome. 2003 , 42, 13960-8	55
1560	Importance of nuclear localization of apoptin for tumor-specific induction of apoptosis. 2003 , 278, 27729-36	110
1559	Poly(ADP-ribose) polymerase-1 and apoptosis inducing factor in neurotoxicity. 2003 , 14, 303-17	165
1558	Death mechanisms in status epilepticus-generated neurons and effects of additional seizures on their survival. 2003 , 14, 513-23	50

1557	Clearance of apoptotic photoreceptors: elimination of apoptotic debris into the subretinal space and macrophage-mediated phagocytosis via phosphatidylserine receptor and integrin alphavbeta3. 2003 , 162, 1869-79	85
1556	Mitochondrial release of AIF and EndoG requires caspase activation downstream of Bax/Bak-mediated permeabilization. 2003 , 22, 4385-99	336
1555	Intrinsic and extrinsic pathways signaling during HIV-1 mediated cell death. 2003 , 85, 795-811	22
1554	The importance of p53 location: nuclear or cytoplasmic zip code?. 2003 , 6, 313-22	153
1553	Identification of a Bcl-XL binding region within the ATPase domain of Apaf-1. 2003 , 309, 520-7	10
1552	Role of apoptosis-inducing factor in myocardial cell death by ischemia-reperfusion. 2003 , 309, 619-24	65
1551	Mitochondrial gene history and mRNA localization: is there a correlation?. 2003 , 4, 391-7	24
1550	Cyclooxygenase (COX) inhibitors induce apoptosis in non-small cell lung cancer through cyclooxygenase independent pathways. 2003 , 40, 33-44	58
1549	Human colon cancer cells differ in their sensitivity to curcumin-induced apoptosis and heat shock protects them by inhibiting the release of apoptosis-inducing factor and caspases. 2003 , 538, 19-24	83
1548	ROS-dependent caspase-9 activation in hypoxic cell death. 2003 , 549, 94-8	48
1547	tBid forms a pore in the liposome membrane. 2003 , 555, 545-50	18
1546	Mitochondria: releasing power for life and unleashing the machineries of death. 2003 , 112, 481-90	1046
1545	A JNK-dependent pathway is required for TNFalpha-induced apoptosis. 2003 , 115, 61-70	514
1544	Identification of apoptosis-inducing factor in human coronary artery endothelial cells. 2003 , 301, 147-51	17
1543	Mitochondrial permeability transition: a common pathway to necrosis and apoptosis. 2003 , 304, 463-70	607
1542	Redox regulation and signaling lipids in mitochondrial apoptosis. 2003 , 304, 471-9	107
1541	Mitochondrial intermembrane proteins in cell death. 2003 , 304, 487-97	319
1540	Heat shock proteins, cellular chaperones that modulate mitochondrial cell death pathways. 2003 , 304, 505-12	287

1539	Mitochondria at the heart of the cytotoxic attack. 2003 , 304, 513-8	15
1538	Mitochondria and ischemic reperfusion damage in the adult and in the developing brain. 2003 , 304, 551-9	120
1537	Mitochondria in HIV-1-induced apoptosis. 2003 , 304, 561-74	34
1536	Postmitochondrial regulation of apoptosis by bicarbonate. 2003 , 288, 301-12	20
1535	Retroactive pathway involving mitochondria in electroloaded cytochrome c-induced apoptosis. Protective properties of Bcl-2 and Bcl-XL. 2003 , 289, 195-210	43
1534	Hypothesis for a common basis for neuroprotection in glaucoma and Alzheimer's disease: anti-apoptosis by alpha-2-adrenergic receptor activation. 2003 , 48 Suppl 1, S25-37	57
1533	Apoptotic signaling cascades. 2003 , 27, 199-214	124
1532	Apoptosis and brain ischaemia. 2003 , 27, 267-82	219
1531	Mitochondrial dysfunction in CD47-mediated caspase-independent cell death: ROS production in the absence of cytochrome c and AIF release. 2003 , 85, 741-6	43
1530	To die or not to die for neurons in ischemia, traumatic brain injury and epilepsy: a review on the stress-activated signaling pathways and apoptotic pathways. 2003 , 69, 103-42	250
1529	In vivo cellular and molecular mechanisms of neuronal apoptosis in the mammalian CNS. 2003 , 69, 287-312	125
1528	Roles of cathepsins in reperfusion-induced apoptosis in cultured astrocytes. 2003 , 42, 153-9	31
1527	[HIV1-associated CD4 T lymphocyte apoptosis]. 2003 , 24, 522-9	2
1526	Calpain in the pathophysiology of spinal cord injury: neuroprotection with calpain inhibitors. 2003 , 42, 169-85	150
1525	A whole-genome screen of a quantitative trait of age-related maculopathy in sibships from the Beaver Dam Eye Study. 2003 , 72, 1412-24	97
1524	A molecular biological study of anti-tumor mechanisms of an anti-cancer agent Oxaliplatin against established human gastric cancer cell lines. 2003 , 57, 412-5	33
1523	The CD95 type I/type II model. 2003 , 15, 185-93	349
1522	Ceramide-induced neuronal apoptosis is associated with dephosphorylation of Akt, BAD, FKHR, GSK-3beta, and induction of the mitochondrial-dependent intrinsic caspase pathway. 2003 , 22, 365-82	136

1521	Granzyme B-induced apoptosis requires both direct caspase activation and relief of caspase inhibition. 2003 , 18, 355-65	144
1520	Caspase activation by granzyme B is indirect, and caspase autoprocessing requires the release of proapoptotic mitochondrial factors. 2003 , 18, 319-29	137
1519	Functional genomic analysis of apoptotic DNA degradation in <i>C. elegans</i> . 2003 , 11, 987-96	115
1518	Diversity in the mechanisms of neuronal cell death. 2003 , 40, 401-13	387
1517	Hydroxylamine potentiates the effect of low dose hydrogen peroxide in glioma cells independent of p53. 2003 , 35, 1639-44	1
1516	Identifying type III effectors of plant pathogens and analyzing their interaction with plant cells. 2003 , 6, 20-8	157
1515	The evolution of cell death programs as prerequisites of multicellularity. 2003 , 543, 235-49	55
1514	Apoptosis: the complex scenario for a silent cell death. 2003 , 5, 2-14	72
1513	PLA2 activity is required for nuclear shrinkage in caspase-independent cell death. 2003 , 163, 1219-30	82
1512	Mitochondria play a central role in apoptosis induced by alpha-tocopheryl succinate, an agent with antineoplastic activity: comparison with receptor-mediated pro-apoptotic signaling. 2003 , 42, 4277-91	140
1511	Acute and chronic arsenic toxicity. 2003 , 79, 391-6	634
1510	Mechanisms of neuronal cell death in Huntington's disease. 2003 , 100, 287-95	33
1509	Induction of apoptosis by sphingoid long-chain bases in <i>Aspergillus nidulans</i> . 2003 , 23, 163-77	124
1508	Essentials of Apoptosis. 2003 ,	3
1507	The <i>Caenorhabditis elegans</i> dopaminergic system: opportunities for insights into dopamine transport and neurodegeneration. 2003 , 43, 521-44	89
1506	Mitochondrial theory of aging: importance to explain why females live longer than males. 2003 , 5, 549-56	105
1505	Bax, reactive oxygen, and cytochrome c release in neuronal apoptosis. 2003 , 5, 589-96	86
1504	Caspase-mediated cell death in hematological malignancies: theoretical considerations, methods of assessment, and clinical implications. 2003 , 44, 1089-104	22

1503	A novel method to determine specificity and sensitivity of the TUNEL reaction in the quantitation of apoptosis. 2003 , 284, C1309-18	166
1502	Mitochondrial complex I inhibitor rotenone induces apoptosis through enhancing mitochondrial reactive oxygen species production. 2003 , 278, 8516-25	887
1501	Oxidative stress, cell cycle, and neurodegeneration. 2003 , 111, 785-793	343
1500	Caspase-mediated loss of mitochondrial function and generation of reactive oxygen species during apoptosis. 2003 , 160, 65-75	404
1499	A Ca ²⁺ -induced mitochondrial permeability transition causes complete release of rat liver endonuclease G activity from its exclusive location within the mitochondrial intermembrane space. Identification of a novel endo-exonuclease activity residing within the mitochondrial matrix. 2003 , 31, 1364-73	23
1498	Cholesterol impairs the adenine nucleotide translocator-mediated mitochondrial permeability transition through altered membrane fluidity. 2003 , 278, 33928-35	110
1497	Mitochondrial potential and reactive oxygen intermediates in antigen-specific CD8 ⁺ T cells during viral infection. 2003 , 170, 4745-51	37
1496	Calcium influx through receptor-operated channel induces mitochondria-triggered paraptotic cell death. 2003 , 278, 14134-45	81
1495	Comparative analysis of apoptosis and inflammation genes of mice and humans. 2003 , 13, 1376-88	88
1494	Butyrate induced Caco-2 cell apoptosis is mediated via the mitochondrial pathway. 2003 , 52, 94-100	106
1493	Pediatric acute lymphoblastic leukemia. 2003 , 2003, 102-31	92
1492	Apoptosis induced by (E)-5-(2-bromovinyl)-2'-deoxyuridine in varicella zoster virus thymidine kinase-expressing cells is driven by activation of c-Jun/activator protein-1 and Fas ligand/caspase-8. 2003 , 63, 439-49	15
1491	Mitochondrial dysfunction is involved in apoptosis induced by serum withdrawal and fatty acids in the beta-cell line INS-1. 2003 , 144, 335-45	161
1490	Caspase- and serine protease-dependent apoptosis by the death domain of FADD in normal epithelial cells. 2003 , 14, 67-77	31
1489	Elimination of Mcl-1 is required for the initiation of apoptosis following ultraviolet irradiation. 2003 , 17, 1475-86	477
1488	Mouse uterine epithelial apoptosis is associated with expression of mitochondrial voltage-dependent anion channels, release of cytochrome C from mitochondria, and the ratio of Bax to Bcl-2 or Bcl-X. 2003 , 68, 1178-84	39
1487	Alternating metabolic pathways in NGF-deprived sympathetic neurons affect caspase-independent death. 2003 , 162, 245-56	31
1486	HSP72 inhibits apoptosis-inducing factor release in ATP-depleted renal epithelial cells. 2003 , 285, C1483-93	75

1485	The major apoptotic pathway activated and suppressed by poliovirus. 2003 , 77, 45-56	73
1484	The Permeability Transition Pore as Source and Target of Oxidative Stress. 2003 , 393-419	
1483	Possible contribution of apoptosis-inducing factor (AIF) and reactive oxygen species (ROS) to UVB-induced caspase-independent cell death in the T cell line Jurkat. 2003 , 73, 399-406	51
1482	Intra-mitochondrial poly(ADP-ribosylation) contributes to NAD ⁺ depletion and cell death induced by oxidative stress. 2003 , 278, 18426-33	241
1481	Mitochondrial outer membrane permeability change and hypersensitivity to digitonin early in staurosporine-induced apoptosis. 2003 , 278, 1346-53	49
1480	Unique behavior and function of the mitochondrial ribosomal protein S4 (RPS4) in early Dictyostelium development. 2003 , 20, 1455-65	8
1479	Apoptosis and necrosis in health and disease: role of mitochondria. 2003 , 224, 29-55	97
1478	Tumor Suppressor Genes. 2003 ,	
1477	Execution of macrophage apoptosis by Mycobacterium avium through apoptosis signal-regulating kinase 1/p38 mitogen-activated protein kinase signaling and caspase 8 activation. 2003 , 278, 26517-25	47
1476	Spike, a novel BH3-only protein, regulates apoptosis at the endoplasmic reticulum. 2003 , 17, 696-8	67
1475	Alternative programs of cell death in developing retinal tissue. 2003 , 278, 41938-46	58
1474	Regional loss of the mitochondrial membrane potential in the hepatocyte is rapidly followed by externalization of phosphatidylserines at that specific site during apoptosis. 2003 , 278, 12467-74	31
1473	Endonuclease G is required for early embryogenesis and normal apoptosis in mice. 2003 , 100, 15782-7	77
1472	Early mitochondrial hyperpolarization and intracellular alkalinization in lactacystin-induced apoptosis of retinal pigment epithelial cells. 2003 , 305, 474-81	27
1471	Mitochondrial membrane permeabilization and superoxide production during apoptosis. A single-cell analysis. 2003 , 278, 12645-9	54
1470	Cathepsin D triggers Bax activation, resulting in selective apoptosis-inducing factor (AIF) relocation in T lymphocytes entering the early commitment phase to apoptosis. 2003 , 278, 31401-11	331
1469	Subunit structures and stoichiometries of human DNA fragmentation factor proteins before and after induction of apoptosis. 2003 , 278, 26915-22	32
1468	Bax ablation protects against myocardial ischemia-reperfusion injury in transgenic mice. 2003 , 284, H2351-9	161

1467	Minocycline inhibits caspase-independent and -dependent mitochondrial cell death pathways in models of Huntington's disease. 2003 , 100, 10483-7	364
1466	Necrotic cell death in response to oxidant stress involves the activation of the apoptogenic caspase-8/bid pathway. 2003 , 278, 29184-91	107
1465	Apoptotic response of Chang cells to infection with <i>Pseudomonas aeruginosa</i> strains PAK and PAO-I: molecular ordering of the apoptosis signaling cascade and role of type IV pili. 2003 , 71, 2665-73	39
1464	Hyperphosphorylation of a mitochondrial protein, prohibitin, is induced by calyculin A in a rice lesion-mimic mutant <i>cdr1</i> . 2003 , 132, 1861-9	52
1463	All-trans retinoic acid (atRA) differentially induces apoptosis in matched primary and metastatic melanoma cells -- a speculation on damage effect of atRA via mitochondrial dysfunction and cell cycle redistribution. 2003 , 24, 185-91	38
1462	Proteinases and their inhibitors in the immune system. 2003 , 222, 197-236	12
1461	HSP27 and HSP70: Potentially Oncogenic Apoptosis Inhibitors. 2003 , 2, 578-583	169
1460	Flavopiridol Induces Mitochondrial-Mediated Apoptosis in Murine Glioma GL261 Cells via Release of Cytochrome c and Apoptosis Inducing Factor. 2003 , 2, 242-249	26
1459	Arsenic Trioxide Selectively Induces Early and Extensive Apoptosis via the APO2/Caspase-8 Pathway Engaging the Mitochondrial Pathway in Myeloma Cells with Mutant p53. 2003 , 2, 355-365	3
1458	Resistance to apoptosis: mechanism for the development of HIV reservoirs. 2003 , 1, 261-74	23
1457	Targets in apoptosis signaling: promise of selective anticancer therapy. 2003 , 223, 465-83	7
1456	Neurogenesis and apoptotic cell death. 2003 , 34, 324-6	48
1455	Cell death induced by acute renal injury: a perspective on the contributions of apoptosis and necrosis. 2003 , 284, F608-27	275
1454	Uncoupling protein 2 prevents neuronal death including that occurring during seizures: a mechanism for preconditioning. 2003 , 144, 5014-21	156
1453	Synthetic chenodeoxycholic acid derivative HS-1200-induced apoptosis of p815 mastocytoma cells is augmented by co-treatment with lactacystin. 2003 , 14, 219-25	5
1452	Chapter 11 Mitochondrial Dysfunction in Amyotrophic Lateral Sclerosis. 2003 , 28, 285-313	1
1451	Caspase-dependent and -independent panc-1 cell death due to actinomycin D and MK 886 are additive but increase clonogenic survival. 2003 , 228, 915-25	5
1450	AIF: a multifunctional cog in the life and death machine. 2003 , 2003, PE31	12

1449	A Risky Job: In Search of Noncanonical Pathways. 2003 , 42, 319-410	2
1448	Outer mitochondrial membrane permeabilization during apoptosis triggers caspase-independent mitochondrial and caspase-dependent plasma membrane potential depolarization: a single-cell analysis. 2003 , 116, 525-36	92
1447	Uropathogenic Escherichia coli toxins induce caspase-independent apoptosis in renal proximal tubular cells via ERK signaling. 2003 , 23, 140-51	21
1446	Cathepsin-B-dependent apoptosis triggered by antithymocyte globulins: a novel mechanism of T-cell depletion. 2003 , 102, 3719-26	61
1445	Caspase-independent cell death in AML: caspase inhibition in vitro with pan-caspase inhibitors or in vivo by XIAP or Survivin does not affect cell survival or prognosis. 2003 , 102, 4179-86	129
1444	Apoptosis and Cell Senescence. 153-192	2
1443	Squamous metaplasia induced by transfection of human papillomavirus DNA into cultured adenocarcinoma cells. 2003 , 56, 97-108	24
1442	Molecular interactions hold the key to relieving bone loss. 2003 , 56, 108-108	1
1441	Alcohol-induced liver disease: when fat and oxidative stress meet. 2003 , 2, 69-75	26
1440	. 2003 ,	3
1439	Mechanisms of caspase-independent neuronal death: energy depletion and free radical generation. 2003 , 23, 11015-25	85
1438	The role of Apaf-1 in programmed cell death: from worm to tumor. 2003 , 28, 3-9	17
1437	Caspase-independent photoreceptor apoptosis in mouse models of retinal degeneration. 2003 , 23, 5723-31	139
1436	. 2003 ,	7
1435	Role of AIF in human coronary artery endothelial cell apoptosis. 2004 , 286, H354-8	20
1434	Synthetic CDCA derivatives-induced apoptosis of stomach cancer cell line SNU-1 cells. 2004 , 36, 132-9	2
1433	Cell death signaling in malignancy. 2003 , 115, 319-43	11
1432	. 2004 ,	2

1431	Caspase-independent component of retinal ganglion cell death, in vitro. 2004 , 45, 4049-59	155
1430	Lipid signaling in CD95-mediated apoptosis. 2002 , 36, 285-308	1
1429	Induction of apoptosis by maackiain and trifolirhizin (maackiain glycoside) isolated from sanzukon (Sophora Subprostrate Chen et T. Chen) in human promyelotic leukemia HL-60 cells. 2004 , 12, 1183	4
1428	Progressive apoptotic cell death triggered by transient oxidative insult in H9c2 rat ventricular cells: a novel pattern of apoptosis and the mechanisms. 2004 , 286, H2169-82	52
1427	Apoptosis: a potential therapeutic target for retinal degenerations. 2004 , 1, 41-53	56
1426	Enhancement of C2-ceramide antitumor activity by small interfering RNA on X chromosome-linked inhibitor of apoptosis protein in resistant human glioma cells. 2004 , 101, 119-27	9
1425	Identification of differentially expressed genes in mouse kidney after irradiation using microarray analysis. 2004 , 161, 28-38	41
1424	Promoting effects of polyunsaturated fatty acids on chromosomal giant DNA fragmentation associated with cell death induced by glutathione depletion. 2004 , 38, 649-58	5
1423	Apoptotic adaptations from exercise training in skeletal and cardiac muscles. 2004 , 18, 1150-2	192
1422	The duration of nuclear extracellular signal-regulated kinase 1 and 2 signaling during cell cycle reentry distinguishes proliferation from apoptosis in response to asbestos. 2004 , 64, 6530-6	32
1421	Preapoptotic chromatin condensation upstream of the mitochondrial checkpoint. 2004 , 279, 55937-45	27
1420	Hypoxia inhibits tumor necrosis factor-related apoptosis-inducing ligand-induced apoptosis by blocking Bax translocation. 2004 , 64, 4078-81	60
1419	Divide and die: cell cycle events as triggers of nerve cell death. 2004 , 24, 9232-9	238
1418	BRCC2, a novel BH3-like domain-containing protein, induces apoptosis in a caspase-dependent manner. 2004 , 279, 26780-8	31
1417	TRAIL death receptors, Bcl-2 protein family, and endoplasmic reticulum calcium pool. 2004 , 67, 169-88	7
1416	Regulation of cytoplasmic stress granules by apoptosis-inducing factor. 2004 , 117, 4461-8	75
1415	The domains of apoptosis: a genomics perspective. 2004 , 2004, re9	140
1414	Induced inhibition of ischemic/hypoxic injury by APIP, a novel Apaf-1-interacting protein. 2004 , 279, 39942-50	46

1413	The synthetic triterpenoid 2-cyano-3,12-dioxooleana-1,9-dien-28-oic acid induces caspase-dependent and -independent apoptosis in acute myelogenous leukemia. 2004 , 64, 7927-35	123
1412	FAS-mediated apoptosis and its relation to intrinsic pathway activation in an experimental model of retinal detachment. 2004 , 45, 4563-9	76
1411	Role of apoptotic processes in platelet biogenesis. 2004 , 111, 67-77	35
1410	Bcl-2 family members as sentinels of cellular integrity and role of mitochondrial intermembrane space proteins in apoptotic cell death. 2004 , 111, 7-27	87
1409	Granzyme B-induced cell death. 2004 , 111, 28-41	36
1408	Cyclophilin D, a component of the permeability transition-pore, is an apoptosis repressor. 2004 , 64, 85-93	101
1407	Cellular dynamics visualized in live cells in vitro and in vivo by differential dual-color nuclear-cytoplasmic fluorescent-protein expression. 2004 , 64, 4251-6	128
1406	The myelodysplastic syndromes: a matter of life or death. 2004 , 111, 78-99	29
1405	The mitochondrial death pathway and cardiac myocyte apoptosis. 2004 , 95, 957-70	467
1404	The NRIF3 family of transcriptional coregulators induces rapid and profound apoptosis in breast cancer cells. 2004 , 24, 3838-48	28
1403	Selective induction of apoptosis by the pyrrolo-1,5-benzoxazepine 7-[[dimethylcarbamoyl]oxy]-6-(2-naphthyl)pyrrolo-[2,1-d] (1,5)-benzoxazepine (PBOX-6) in Leukemia cells occurs via the c-Jun NH2-terminal kinase-dependent phosphorylation and inactivation of Bcl-2 and Bcl-XL. 2004 , 310, 1084-95	28
1402	Supplementation of endothelial cells with mitochondria-targeted antioxidants inhibit peroxide-induced mitochondrial iron uptake, oxidative damage, and apoptosis. 2004 , 279, 37575-87	187
1401	Recruitment of NF-kappaB into mitochondria is involved in adenine nucleotide translocase 1 (ANT1)-induced apoptosis. 2004 , 279, 38415-23	73
1400	Somatic cell apoptosis markers and pathways in human ejaculated sperm: potential utility as indicators of sperm quality. 2004 , 10, 825-34	94
1399	Cathepsin-dependent apoptosis triggered by supraoptimal activation of T lymphocytes: a possible mechanism of high dose tolerance. 2004 , 172, 5405-14	59
1398	NAD ⁺ -linked 15-hydroxyprostaglandin dehydrogenase (15-PGDH) behaves as a tumor suppressor in lung cancer. 2005 , 26, 65-72	120
1397	Mechanisms of apoptosis induced by cisplatin in marginal cells in mouse stria vascularis. 2004 , 66, 111-8	43
1396	Induction of apoptosis by three types of procyanidin isolated from apple (Rosaceae Malus pumila) in human stomach cancer KATO III cells. 2004 , 13, 795	2

1395	Arsenic Trioxide and Paclitaxel Induce Apoptosis by Different Mechanism. 2004 , 3, 322-332	29
1394	Vitamin E analogues: a new class of inducers of apoptosis with selective anti-cancer effects. 2004 , 4, 355-72	84
1393	Getting back on track, or what to do when apoptosis is de-railed: recoupling oncogenes to the apoptotic machinery. 2004 , 3, 21-8	9
1392	SMAC/Diablo-dependent apoptosis induced by nonsteroidal antiinflammatory drugs (NSAIDs) in colon cancer cells. 2004 , 101, 16897-902	62
1391	Identification of the hypoxia-inducible factor 1 alpha-responsive HGTD-P gene as a mediator in the mitochondrial apoptotic pathway. 2004 , 24, 3918-27	73
1390	Innate gender-based proclivity in response to cytotoxicity and programmed cell death pathway. 2004 , 279, 38563-70	272
1389	A dual role of IFN-alpha in the balance between proliferation and death of human CD4+ T lymphocytes during primary response. 2004 , 173, 3740-7	49
1388	Molecular components of a cell death pathway activated by endoplasmic reticulum stress. 2004 , 279, 177-87	124
1387	In vivo effects of arsenite on meiosis, preimplantation development, and apoptosis in the mouse. 2004 , 70, 980-5	60
1386	Vulnerability of central neurons to secondary insults after in vitro mechanical stretch. 2004 , 24, 8106-23	99
1385	Nucling recruits Apaf-1/pro-caspase-9 complex for the induction of stress-induced apoptosis. 2004 , 279, 41131-40	46
1384	TCR-independent and caspase-independent apoptosis of murine thymocytes by CD24 cross-linking. 2004 , 172, 795-802	23
1383	Transgenic expression of Bcl-2 modulates energy metabolism, prevents cytosolic acidification during ischemia, and reduces ischemia/reperfusion injury. 2004 , 95, 734-41	170
1382	Involvement of Sox-4 in the cytochrome c-dependent AIF-independent apoptotic pathway in HeLa cells induced by Delta12-prostaglandin J2. 2004 , 36, 444-53	8
1381	Poly(ADP-ribose) polymerase-1-mediated cell death in astrocytes requires NAD+ depletion and mitochondrial permeability transition. 2004 , 279, 18895-902	287
1380	An AIF orthologue regulates apoptosis in yeast. 2004 , 166, 969-74	328
1379	Selective efficacy of depsipeptide in a xenograft model of Epstein-Barr virus-positive lymphoproliferative disorder. 2004 , 96, 1447-57	28
1378	Signaling pathway for apoptosis of vestibular hair cells of mice due to aminoglycosides. 2004 , 69-74	31

1377	Calorie-related rapid onset of alveolar loss, regeneration, and changes in mouse lung gene expression. 2004 , 286, L896-906	86
1376	PPAR-alpha ligand ameliorates acute renal failure by reducing cisplatin-induced increased expression of renal endonuclease G. 2004 , 287, F990-8	77
1375	p53-dependent apoptosis and NAD(P)H:quinone oxidoreductase 1. 2004 , 382, 278-93	17
1374	Tim50, a component of the mitochondrial translocator, regulates mitochondrial integrity and cell death. 2004 , 279, 24813-25	72
1373	The genetics of hiding the corpse: engulfment and degradation of apoptotic cells in <i>C. elegans</i> and <i>D. melanogaster</i> . 2004 , 63, 91-143	24
1372	Lipid Metabolism and Release of Cytochrome c from Mitochondria. 2004 , 1-17	1
1371	7-Ketocholesterol induces reversible cytochrome c release in smooth muscle cells in absence of mitochondrial swelling. 2004 , 64, 144-53	22
1370	Emerging role for ERK as a key regulator of neuronal apoptosis. 2004 , 2004, PE45	105
1369	Programmed cell deaths. Apoptosis and alternative deathstyles. 2004 , 271, 1638-50	222
1368	Dynamic movement of cytochrome c from mitochondria into cytosol and peripheral circulation in massive hepatic cell injury. 2004 , 46, 685-92	8
1367	Proteins of the bcl-2 family in apoptosis signalling: from mechanistic insights to therapeutic opportunities. 2004 , 31, 119-28	125
1366	Infrared radiation affects the mitochondrial pathway of apoptosis in human fibroblasts. 2004 , 123, 823-31	81
1365	Controlled cell death, plant survival and development. 2004 , 5, 305-15	436
1364	Retinoid-related molecules require caspase 9 for the effective release of Smac and the rapid induction of apoptosis. 2004 , 11, 154-64	19
1363	Lysosomes and mitochondria in the commitment to apoptosis: a potential role for cathepsin D and AIF. 2004 , 11, 135-6	65
1362	Reactive oxygen species regulate quiescent T-cell apoptosis via the BH3-only proapoptotic protein BIM. 2004 , 11, 416-23	43
1361	p53 can promote mitochondria- and caspase-independent apoptosis. 2004 , 11, 785-7	27
1360	Apoptosis-inducing factor (AIF): caspase-independent after all. 2004 , 11, 591-5	188

1359	A critical role of glutathione in determining apoptosis sensitivity and resistance in leukemia cells. 2004 , 11 Suppl 1, S73-85	146
1358	Early work on the role of mitochondria in apoptosis, an interview with Guido Kroemer. 2004 , 11 Suppl 1, S33-6	2
1357	Irradiation-induced progenitor cell death in the developing brain is resistant to erythropoietin treatment and caspase inhibition. 2004 , 11, 1166-78	97
1356	Apoptosome inactivation rescues proneural and neural cells from neurodegeneration. 2004 , 11, 1179-91	39
1355	Induction of antiproliferative effect by diosgenin through activation of p53, release of apoptosis-inducing factor (AIF) and modulation of caspase-3 activity in different human cancer cells. 2004 , 14, 188-96	136
1354	AIF deficiency compromises oxidative phosphorylation. 2004 , 23, 4679-89	522
1353	Processed caspase-2 can induce mitochondria-mediated apoptosis independently of its enzymatic activity. 2004 , 5, 643-8	113
1352	Potent antileukemic interactions between flavopiridol and TRAIL/Apo2L involve flavopiridol-mediated XIAP downregulation. 2004 , 18, 1780-8	60
1351	Rapid induction of mitochondrial events and caspase-independent apoptosis in Survivin-targeted melanoma cells. 2004 , 23, 39-48	151
1350	AIF and cyclophilin A cooperate in apoptosis-associated chromatinolysis. 2004 , 23, 1514-21	220
1349	Mitochondrial ceramide increases in UV-irradiated HeLa cells and is mainly derived from hydrolysis of sphingomyelin. 2004 , 23, 3650-8	74
1348	Interleukin-7 induces apoptosis of 697 pre-B cells expressing dominant-negative forms of STAT5: evidence for caspase-dependent and -independent mechanisms. 2004 , 23, 3040-7	19
1347	Multiple cell death pathways as regulators of tumour initiation and progression. 2004 , 23, 2746-56	263
1346	Role of AIF in caspase-dependent and caspase-independent cell death. 2004 , 23, 2785-96	441
1345	Toxic proteins released from mitochondria in cell death. 2004 , 23, 2861-74	700
1344	Cell death by mitotic catastrophe: a molecular definition. 2004 , 23, 2825-37	945
1343	DNA damage-induced apoptosis. 2004 , 23, 2797-808	514
1342	Bcl-xES, a BH4- and BH2-containing antiapoptotic protein, delays Bax oligomer formation and binds Apaf-1, blocking procaspase-9 activation. 2004 , 23, 3915-31	25

1341	Apoptosis-inducing factor determines the chemoresistance of non-small-cell lung carcinomas. 2004 , 23, 6282-91	86
1340	AMID is a p53-inducible gene downregulated in tumors. 2004 , 23, 6815-9	33
1339	Adult neuron survival strategies--slamming on the brakes. 2004 , 5, 686-700	183
1338	Nuclear translocation of apoptosis-inducing factor after focal cerebral ischemia. 2004 , 24, 458-66	154
1337	Induction of caspase-mediated cell death by matrix metalloproteinases in cerebral endothelial cells after hypoxia-reoxygenation. 2004 , 24, 720-7	104
1336	Bcl-2 transfection via herpes simplex virus blocks apoptosis-inducing factor translocation after focal ischemia in the rat. 2004 , 24, 681-92	86
1335	Nitric oxide-induced cell death in developing oligodendrocytes is associated with mitochondrial dysfunction and apoptosis-inducing factor translocation. 2004 , 20, 1713-26	98
1334	MGLuR5 activation reduces beta-amyloid-induced cell death in primary neuronal cultures and attenuates translocation of cytochrome c and apoptosis-inducing factor. 2004 , 89, 1528-36	62
1333	Glutathione depletion-induced chromosomal DNA fragmentation associated with apoptosis and necrosis. 2004 , 8, 455-64	162
1332	Death without caspases, caspases without death. 2004 , 14, 184-93	247
1331	Increased mutation in mice genetically predisposed to oxidative damage in the brain. 2004 , 556, 127-34	9
1330	Cell death in cartilage. 2004 , 12, 1-16	222
1329	Human MUC1 carcinoma-associated protein confers resistance to genotoxic anticancer agents. 2004 , 5, 163-75	273
1328	Apoptosis in cancer--implications for therapy. 2004 , 31, 90-119	120
1327	Hemocyte Apoptosis Induced by Entomopathogenic Bacteria, <i>Xenorhabdus</i> and <i>Photorhabdus</i> , in <i>Bombyx mori</i> . 2004 , 7, 195-200	35
1326	Molecular pathways executing the "trophic sentinel" response in HPV-16 E7-expressing normal human diploid fibroblasts upon growth factor deprivation. 2004 , 319, 81-93	30
1325	Transition metal-induced apoptosis in lymphocytes via hydroxyl radical generation, mitochondria dysfunction, and caspase-3 activation: an in vitro model for neurodegeneration. 2004 , 35, 185-93	43
1324	Control of mitochondrial integrity by Bcl-2 family members and caspase-independent cell death. 2004 , 1644, 133-47	175

1323	Role of Bcl-2 family members in invertebrates. 2004 , 1644, 73-81	42
1322	Mitochondrial thioredoxin reductase inhibition by gold(II) compounds and concurrent stimulation of permeability transition and release of cytochrome c. 2004 , 67, 689-96	127
1321	Adenosine induces apoptosis in the human gastric cancer cells via an intrinsic pathway relevant to activation of AMP-activated protein kinase. 2004 , 67, 2005-11	134
1320	Role of the permeability transition pore in cytochrome C release from mitochondria during ischemia-reperfusion in rat liver. 2004 , 68, 2065-73	59
1319	Post-ischemic hypothermia-induced tissue protection and diminished apoptosis after neonatal cerebral hypoxia-ischemia. 2004 , 996, 67-75	78
1318	Life's smile, death's grin: vital functions of apoptosis-executing proteins. 2004 , 16, 639-46	152
1317	Regulation of mitochondrial membrane permeabilization by BCL-2 family proteins and caspases. 2004 , 16, 647-52	218
1316	Cellular neuroprotective mechanisms in cerebral ischemia: Bcl-2 family proteins and protection of mitochondrial function. 2004 , 36, 303-11	65
1315	Death receptor-induced cell killing. 2004 , 16, 139-44	636
1314	Mitochondria as targets of apoptosis regulation by nitric oxide. 2003 , 55, 613-6	42
1313	Induction of apoptosis by tumor cell-targeted toxins. 2004 , 9, 19-25	25
1312	Characterization of 4-O-methyl-ascochlorin-induced apoptosis in comparison with typical apoptotic inducers in human leukemia cell lines. 2004 , 9, 429-35	15
1311	Mechanisms of B cell receptor induced apoptosis. 2004 , 9, 525-31	30
1310	Apoptosome dysfunction in human cancer. 2004 , 9, 691-704	207
1309	Abstracts: LVII Annual Meeting of the Italian Society for Veterinary Sciences (SISVET), Ischia 2003. 2004 , 28, 1-391	1
1308	Occurrence of two different mechanisms of apoptosis in cerebellar granule cells in relation to the specificity of poly(ADP-ribose) polymerase-1 (PARP) activation. 2004 , 28 Suppl 1, 197-200	1
1307	Role of heat shock proteins during polyglutamine neurodegeneration: mechanisms and hypothesis. 2004 , 23, 69-96	54
1306	Caspase-independent cell death by arsenic trioxide in human cervical cancer cells: reactive oxygen species-mediated poly(ADP-ribose) polymerase-1 activation signals apoptosis-inducing factor release from mitochondria. 2004 , 64, 8960-7	164

1305	Deadly conversations: nuclear-mitochondrial cross-talk. 2004 , 36, 287-94	146
1304	Mitochondrial impairment in the developing brain after hypoxia-ischemia. 2004 , 36, 369-73	58
1303	Mitochondria and the Bcl-2 family proteins in apoptosis signaling pathways. 2004 , 256-257, 141-55	183
1302	Thread-grain transition of mitochondrial reticulum as a step of mitoptosis and apoptosis. 2004 , 256-257, 341-58	122
1301	Mitochondrial function in apoptotic neuronal cell death. 2004 , 29, 521-30	47
1300	Mitochondrial heterogeneity within and between different cell types. 2004 , 29, 651-8	17
1299	Apoptosis: Genetically Programmed Cell Death. 2004 , 40, 99-113	1
1298	Apoptosis as a novel target for cancer chemoprevention. 2004 , 96, 662-72	429
1297	Hypoxia-ischemia in the immature brain. 2004 , 207, 3149-54	345
1296	Mitochondrial Swelling and Generation of Reactive Oxygen Species Induced by Photoirradiation Are Heterogeneously Distributed. 2004 , 1011, 112-122	50
1295	Oxygen free radicals and redox biology of organelles. 2004 , 122, 395-412	126
1294	AZT inhibits Visna/maedi virus-induced apoptosis. 2004 , 149, 583-601	4
1293	Visna/maedi virus-induced apoptosis involves the intrinsic mitochondrial pathway. 2004 , 149, 1293-307	8
1292	Minute kinetics of proapoptotic proteins: BAX and Smac/DIABLO in living tumor cells revealed by homeostatic confocal microscopy. 2004 , 45, 141-53	3
1291	Hyperthermia induces translocation of apoptosis-inducing factor (AIF) and apoptosis in human glioma cell lines. 2004 , 70, 319-31	24
1290	Cytochrome c release and caspase-3 activation in retinal ganglion cells following different distance of axotomy of the optic nerve in adult hamsters. 2004 , 29, 2153-61	8
1289	[Apoptosis as a pathomechanism in sepsis]. 2004 , 53, 59-65	4
1288	Prostate apoptosis response gene-4 sensitizes neoplastic lymphocytes to CD95-induced apoptosis. 2004 , 83, 646-53	14

1287	Cytochrome c release and endoplasmic reticulum stress are involved in caspase-dependent apoptosis induced by G418. 2004 , 61, 1816-25	29
1286	Terpinen-4-ol, the main component of <i>Melaleuca alternifolia</i> (tea tree) oil inhibits the in vitro growth of human melanoma cells. 2004 , 122, 349-60	124
1285	Comparison of the morphological and biochemical changes in normal human lung fibroblasts and fibroblasts derived from lungs of patients with idiopathic pulmonary fibrosis during FasL-induced apoptosis. 2004 , 202, 486-95	75
1284	Involvement of apoptosis-inducing factor in neuronal death after hypoxia-ischemia in the neonatal rat brain. 2003 , 86, 306-17	219
1283	Mitochondrial calcium, oxidative stress and apoptosis in a neurodegenerative disease model induced by 3-nitropropionic acid. 2004 , 88, 1220-8	86
1282	Morphology of mitochondrial permeability transition: morphometric volumetry in apoptotic cells. 2004 , 281, 1337-51	25
1281	Implication of mitochondrial involvement in apoptotic activity of fragile histidine triad gene: application of synchronous luminescence spectroscopy. 2004 , 73, 510-23	17
1280	Anti-apoptotic mechanism and reduced expression of phospholipase D in spontaneous and Fas-stimulated apoptosis of human neutrophils. 2004 , 34, 2760-70	13
1279	Nitric oxide protects rat hepatocytes against reperfusion injury mediated by the mitochondrial permeability transition. 2004 , 39, 1533-43	99
1278	Analysis of mitochondrial generation and release of reactive oxygen species. 2004 , 62, 89-96	29
1277	Targeting and amplification of immune killing of tumor cells by pro-Smac. 2004 , 109, 85-94	7
1276	Role of reactive oxygen species in the induction of apoptosis by alpha-tocopheryl succinate. 2004 , 112, 385-92	82
1275	Death receptor-induced cell death in prostate cancer. 2004 , 91, 70-99	38
1274	Mediating of caspase-independent apoptosis by cadmium through the mitochondria-ROS pathway in MRC-5 fibroblasts. 2004 , 91, 384-97	134
1273	Mechanism of taxol-induced apoptosis in human SKOV3 ovarian carcinoma cells. 2004 , 91, 1043-52	57
1272	Oxidative stress induces p53-mediated apoptosis in glia: p53 transcription-independent way to die. 2004 , 75, 83-95	77
1271	Oxidative stress-induced death in the nervous system: cell cycle dependent or independent?. 2004 , 77, 621-9	61
1270	Proteome analysis of apoptotic cells. 2004 , 23, 333-49	50

1269	Antisense blocking of BRCA1 enhances sensitivity to plumbagin but not tamoxifen in BG-1 ovarian cancer cells. 2004 , 39, 15-25	36
1268	Plumbagin induces reactive oxygen species, which mediate apoptosis in human cervical cancer cells. 2004 , 40, 201-11	139
1267	In vivo analysis reveals different apoptotic pathways in pre- and postmigratory cerebellar granule cells of rabbit. 2004 , 60, 437-52	13
1266	Detection of apoptosis-inducing factor in involuting mammary tissue by immunoelectron microscopy. 2004 , 35, 307-10	8
1265	Effects of new ubiquinone-imidazo[2,1-b]thiazoles on mitochondrial complex I (NADH-ubiquinone reductase) and on mitochondrial permeability transition pore. 2004 , 12, 5525-32	16
1264	Mitochondria as a target of cadmium nephrotoxicity: induction of swelling and cytochrome C release. 2004 , 14, 67-71	12
1263	Apoptotic and inflammatory effects induced by different particles in human alveolar macrophages. 2004 , 16, 863-78	37
1262	Bench-to-bedside review: Apoptosis/programmed cell death triggered by traumatic brain injury. 2005 , 9, 66-75	157
1261	Direct interaction of Smac with NADE promotes TRAIL-induced apoptosis. 2004 , 319, 649-649	
1260	Mechanisms of apoptosis. 2004 , 30, 441-54, vii	42
1259	Involvement of HSP90 in Anti-Fas-induced Apoptosis Signaling in the Human Salivary Gland Adenocarcinoma Cell Line HSG. 2004 , 46, 229-242	
1258	Viral proteins targeting mitochondria: controlling cell death. 2004 , 1659, 178-89	134
1257	Mechanisms of neural cell death: implications for development of neuroprotective treatment strategies. 2004 , 1, 5-16	108
1256	Flirting in little space: the ER/mitochondria Ca ²⁺ liaison. 2004 , 2004, re1	193
1255	"The stress of dying": the role of heat shock proteins in the regulation of apoptosis. 2004 , 117, 2641-51	510
1254	Apoptosis-inducing factor substitutes for caspase executioners in NMDA-triggered excitotoxic neuronal death. 2004 , 24, 10963-73	240
1253	The GRIMs: a new interface between cell death regulation and interferon/retinoid induced growth suppression. 2004 , 15, 169-94	54
1252	Characterization of splice variants of human caspase-activated DNase with CIDE-N structure and function. 2004 , 566, 234-40	9

1251	Coordinate involvement of cysteine protease and nuclease in the executive phase of plant apoptosis. 2004 , 578, 363-7	22
1250	Enhancement of therapeutic potential of TRAIL by cancer chemotherapy and irradiation: mechanisms and clinical implications. 2004 , 7, 139-56	206
1249	Modification of glycolysis affects cell sensitivity to apoptosis induced by oxidative stress and mediated by mitochondria. 2004 , 313, 984-91	35
1248	HuBMSC-MCP, a novel member of mitochondrial carrier superfamily, enhances dendritic cell endocytosis. 2004 , 314, 292-300	8
1247	Down-regulation of apoptosis-inducing factor protein by RNA interference inhibits UVA-induced cell death. 2004 , 317, 1108-13	21
1246	Direct interaction of Smac with NADE promotes TRAIL-induced apoptosis. 2004 , 319, 649-54	21
1245	Activation of intrinsic and extrinsic pathways in apoptotic signaling during UV-C-induced death of Jurkat cells: the role of caspase inhibition. 2004 , 297, 212-23	54
1244	Nuclear and mitochondrial conversations in cell death: PARP-1 and AIF signaling. 2004 , 25, 259-64	386
1243	Cell cycle regulation of neuronal apoptosis in development and disease. 2004 , 72, 1-25	245
1242	Laser micro-irradiation of mitochondria: is there an amplified mitochondrial death signal in neural cells?. 2004 , 3, 217-27	28
1241	Impact of mitochondrial regulation of apoptosis on the pathogenesis and treatment of HIV-1-induced immunodeficiency. 2004 , 4, 235-54	8
1240	Modulation of the Omi/HtrA2 signaling pathway after transient focal cerebral ischemia in mouse brains that overexpress SOD1. 2004 , 127, 89-95	25
1239	Death of cortical and striatal neurons induced by mitochondrial defect involves differential molecular mechanisms. 2004 , 15, 152-9	49
1238	Pathway of apoptosis induced in Jurkat T lymphoblasts by anti-HLA class I antibodies. 2004 , 65, 189-99	6
1237	Crystal structure of putidaredoxin reductase from <i>Pseudomonas putida</i> , the final structural component of the cytochrome P450cam monooxygenase. 2004 , 336, 889-902	66
1236	Apoptotic and autophagic cell death induced by histone deacetylase inhibitors. 2004 , 101, 18030-5	515
1235	Activated protein C prevents neuronal apoptosis via protease activated receptors 1 and 3. 2004 , 41, 563-72	212
1234	Cell death: critical control points. 2004 , 116, 205-19	3911

1233	Mitochondrial effectors in caspase-independent cell death. 2004 , 557, 14-20	130
1232	Induction of p53-independent apoptosis by the BH3-only protein ITM2Bs. 2004 , 557, 283-7	24
1231	New insights into type II NAD(P)H:quinone oxidoreductases. 2004 , 68, 603-16	192
1230	Galectin-1 induces nuclear translocation of endonuclease G in caspase- and cytochrome c-independent T cell death. 2004 , 11, 1277-86	113
1229	Bioenergetics shapes cellular death pathways in Leber's hereditary optic neuropathy: a model of mitochondrial neurodegeneration. 2004 , 1658, 172-9	82
1228	Immune response against dying tumor cells. 2004 , 84, 131-79	94
1227	Cytochrome C-mediated apoptosis. 2004 , 73, 87-106	1070
1226	Apoptotic signaling pathways induced by nitric oxide in human lymphoblastoid cells expressing wild-type or mutant p53. 2004 , 64, 3022-9	62
1225	Antiretroviral nucleoside and nucleotide analogues and mitochondria. 2004 , 18, 137-51	99
1224	Apoptosis in cerebral ischemia: executional and regulatory signaling mechanisms. 2004 , 26, 835-45	81
1223	A novel mechanism for imatinib mesylate-induced cell death of BCR-ABL-positive human leukemic cells: caspase-independent, necrosis-like programmed cell death mediated by serine protease activity. 2004 , 103, 2299-307	92
1222	Cross-linking of P-selectin glycoprotein ligand-1 induces death of activated T cells. 2004 , 104, 3233-42	19
1221	Bcl-(xL) antagonism of BCR-coupled mitochondrial phospholipase A(2) signaling correlates with protection from apoptosis in WEHI-231 B cells. 2004 , 103, 168-76	16
1220	Senescence-associated changes in respiration and oxidative phosphorylation in primary human fibroblasts. 2004 , 380, 919-28	189
1219	Defying death: the hepatocyte's survival kit. 2004 , 107, 13-25	31
1218	La catastrophe mitotique : un cas particulier d'apoptose. 2004 , 198, 97-103	26
1217	p53-mediated cell cycle arrest and apoptosis induced by shikonin via a caspase-9-dependent mechanism in human malignant melanoma A375-S2 cells. 2004 , 94, 166-76	97
1216	Cell death mode switch from necrosis to apoptosis in brain. 2004 , 27, 950-5	40

1215	Mechanisms of Anticancer Drug Action. 2005 , 31-55	3
1214	Apoptosis by Zinc Deficiency. 2005 , 265-271	2
1213	Focal Cerebral Ischemia: Mechanisms. 2005 , 25-41	1
1212	Mutations in apoptosis-related gene, PDCD10, cause cerebral cavernous malformation 3. 2005 , 57, 1008-13	78
1211	Apoptotic Pathways and Their Regulation. 2005 , 1-29	1
1210	Evaluation of Brain Ischemia in Mice. 2005 , 38, 99-106	11
1209	Pathways of myocyte death: implications for development of clinical laboratory biomarkers. 2005 , 40, 37-98	23
1208	The calpain inhibitor VI prevents apoptosis of adult motor neurons. 2005 , 16, 1065-8	12
1207	Oxidative Stress and Mitochondrial Dysfunction in Neurodegeneration of Transmissible Spongiform Encephalopathies (TSEs). 2005 , 195-216	1
1206	Phytosphingosine in combination with ionizing radiation enhances apoptotic cell death in radiation-resistant cancer cells through ROS-dependent and -independent AIF release. 2005 , 105, 1724-33	104
1205	A role of mitogen and stress-activated protein kinase 1/2 in survival of lipopolysaccharide-stimulated RAW 264.7 macrophages. 2005 , 43, 277-86	4
1204	Pathways to caspase activation. 2005 , 29, 489-96	149
1203	Rotenone-induced caspase 9/3-independent and -dependent cell death in undifferentiated and differentiated human neural stem cells. 2005 , 92, 462-76	53
1202	The critical role of calpain versus caspase activation in excitotoxic injury induced by nitric oxide. 2005 , 93, 1280-92	49
1201	Progenitor cell injury after irradiation to the developing brain can be modulated by mild hypothermia or hyperthermia. 2005 , 94, 1604-19	22
1200	Decreases in phosphoinositide-3-kinase/Akt and extracellular signal-regulated kinase 1/2 signaling activate components of spinal motoneuron death. 2005 , 94, 1652-65	15
1199	Apoptosis inducing factor mediates caspase-independent 1-methyl-4-phenylpyridinium toxicity in dopaminergic cells. 2005 , 94, 1685-95	74
1198	Mitochondrial impairment induced by poly(ADP-ribose) polymerase-1 activation in cortical neurons after oxygen and glucose deprivation. 2005 , 95, 179-90	38

1197	Inhibition of apoptosis-inducing factor translocation is involved in protective effects of hepatocyte growth factor against excitotoxic cell death in cultured hippocampal neurons. 2005 , 95, 1277-86	22
1196	Caspase-independent retinal ganglion cell death after target ablation in the neonatal rat. 2005 , 21, 33-45	19
1195	Outer membrane protein 38 of <i>Acinetobacter baumannii</i> localizes to the mitochondria and induces apoptosis of epithelial cells. 2005 , 7, 1127-38	209
1194	Apoptosis: a basic biological phenomenon with wide-ranging implications in human disease. 2005 , 258, 479-517	463
1193	Phytosphingosine induced mitochondria-involved apoptosis. 2005 , 96, 83-92	39
1192	Cytometric assessment of DNA damage in relation to cell cycle phase and apoptosis. 2005 , 38, 223-43	160
1191	Mahanine, a carbazole alkaloid from <i>Micromelum minutum</i> , inhibits cell growth and induces apoptosis in U937 cells through a mitochondrial dependent pathway. 2005 , 145, 145-55	40
1190	Do inducers of apoptosis trigger caspase-independent cell death?. 2005 , 6, 268-75	260
1189	Trashing the genome: the role of nucleases during apoptosis. 2005 , 6, 677-88	225
1188	A novel mitochondrial protein DIP mediates E2F1-induced apoptosis independently of p53. 2005 , 12, 347-57	22
1187	The influence of age on apoptotic and other mechanisms of cell death after cerebral hypoxia-ischemia. 2005 , 12, 162-76	356
1186	Cytochrome c is released in a single step during apoptosis. 2005 , 12, 453-62	184
1185	Role of poly(ADP-ribose) polymerase activity in imatinib mesylate-induced cell death. 2005 , 12, 627-36	11
1184	The thioredoxin system in retroviral infection and apoptosis. 2005 , 12 Suppl 1, 991-8	102
1183	Nucleocytoplasmic transport in apoptosis. 2005 , 12, 1263-76	52
1182	Cysteine protease inhibition prevents mitochondrial apoptosis-inducing factor (AIF) release. 2005 , 12, 1445-8	103
1181	Export of mitochondrial AIF in response to proapoptotic stimuli depends on processing at the intermembrane space. 2005 , 24, 1375-86	286
1180	AIF suppresses chemical stress-induced apoptosis and maintains the transformed state of tumor cells. 2005 , 24, 2815-26	110

1179	Cerebral endothelial cell apoptosis after ischemia-reperfusion: role of PARP activation and AIF translocation. 2005 , 25, 868-77	66
1178	Abeta25-35 alters Akt activity, resulting in Bad translocation and mitochondrial dysfunction in cerebrovascular endothelial cells. 2005 , 25, 1445-55	23
1177	HSP25 inhibits radiation-induced apoptosis through reduction of PKCdelta-mediated ROS production. 2005 , 24, 3715-25	48
1176	Mitochondria-associated apoptotic signalling in denervated rat skeletal muscle. 2005 , 565, 309-23	162
1175	The mechanism of pneumolysin-induced cochlear hair cell death in the rat. 2005 , 568, 211-27	21
1174	Mitochondrial calcium signalling in cell death. 2005 , 272, 4013-22	23
1173	A possible role of mitochondria in the apoptotic-like programmed nuclear death of Tetrahymena thermophila. 2005 , 272, 5378-87	33
1172	Role of apoptosis controlled by cytochrome c released from mitochondria for luteal function in human granulosa cells. 2005 , 53, 144-52	10
1171	Apoptosis in normal and diseased oral tissues. 2005 , 11, 274-87	30
1170	Novel cyclophilin D inhibitors derived from quinoxaline exhibit highly inhibitory activity against rat mitochondrial swelling and Ca ²⁺ uptake/ release. 2005 , 26, 1201-11	38
1169	Activated caspase expression and apoptosis increase in keloids: cytochrome c release and caspase-9 activation during the apoptosis of keloid fibroblast lines. 2005 , 13, 373-82	18
1168	The mitochondrial death squad: hardened killers or innocent bystanders?. 2005 , 17, 626-30	104
1167	Effects of vitamin restriction and supplementation on rat intestinal epithelial cell apoptosis. 2005 , 38, 1614-24	11
1166	Role of Smac/DIABLO in hydrogen peroxide-induced apoptosis in C2C12 myogenic cells. 2005 , 39, 658-67	24
1165	Role of caspase-3 in ethanol-induced developmental neurodegeneration. 2005 , 20, 608-14	107
1164	Molecular mechanisms of light-induced photoreceptor apoptosis and neuroprotection for retinal degeneration. 2005 , 24, 275-306	516
1163	Discovery, regulation, and action of the major apoptotic nucleases DFF40/CAD and endonuclease G. 2005 , 94, 1078-87	185
1162	Inhibition of extracellular signal regulated kinase (ERK) leads to apoptosis inducing factor (AIF) mediated apoptosis in epithelial breast cancer cells: the lack of effect of ERK in p53 mediated copper induced apoptosis. 2005 , 95, 1120-34	57

1161	Ischemia-induced programmed cell death in astrocytes. 2005 , 50, 299-306	133
1160	Ursolic acid induces apoptosis through mitochondrial intrinsic pathway and caspase-3 activation in M4Beu melanoma cells. 2005 , 114, 1-11	126
1159	Alpha6 integrin subunit mediates laminin enhancement of cisplatin-induced apoptosis in testicular tumor germ cells. 2005 , 117, 68-81	9
1158	Antimycin A-induced killing of HL-60 cells: apoptosis initiated from within mitochondria does not necessarily proceed via caspase 9. 2005 , 63, 69-76	21
1157	Oligonucleotide-based microarray analysis of retinoic acid target genes in the protochordate, <i>Ciona intestinalis</i> . 2005 , 233, 1571-8	31
1156	NAD ⁺ as a metabolic link between DNA damage and cell death. 2005 , 79, 216-23	168
1155	Apoptosis induced by oxalate in human renal tubular epithelial HK-2 cells. 2005 , 33, 87-92	25
1154	Differential gene expression during stationary phase between amiconucleates and micronucleates of the ciliated protist, <i>Pseudourostyla cristata</i> . 2005 , 48, 401-11	2
1153	Compensatory caspase activation in MPP ⁺ -induced cell death in dopaminergic neurons. 2005 , 62, 227-38	23
1152	Poly(ADP-ribosyl)ation regulation of life and death in the nervous system. 2005 , 62, 760-8	57
1151	Regulation of the human apoptotic DNase/RNase endonuclease G: involvement of Hsp70 and ATP. 2005 , 10, 821-30	71
1150	Caspase-independent death of Leber's hereditary optic neuropathy cybrids is driven by energetic failure and mediated by AIF and Endonuclease G. 2005 , 10, 997-1007	105
1149	Mitochondria: A novel target for the chemoprevention of cancer. 2005 , 10, 687-705	93
1148	Upstream control of apoptosis by caspase-2 in serum-deprived primary neurons. 2005 , 10, 1243-59	34
1147	Cell death induced by ent-11alpha-hydroxy-15-oxo-kaur-16-en-19-oic-acid in anaplastic thyroid carcinoma cells is via a mitochondrial-mediated pathway. 2005 , 10, 1345-56	22
1146	Flavone initiates a hierarchical activation of the caspase-cascade in colon cancer cells. 2005 , 10, 611-7	17
1145	Reactive oxygen species induce signals that lead to apoptotic DNA degradation in primary CD4 ⁺ T cells. 2005 , 10, 1433-43	6
1144	Caspase-independent apoptosis is activated by diazepam-induced mitotic failure in HeLa cells, but not in human primary fibroblasts. 2005 , 10, 909-20	12

1143	Evidence in favour of a role for peripheral-type benzodiazepine receptor ligands in amplification of neuronal apoptosis. 2005 , 10, 91-104	51
1142	Role of p53 and reactive oxygen species in apoptotic response to copper and zinc in epithelial breast cancer cells. 2005 , 10, 111-21	89
1141	Apoptosis by gemcitabine in non-small cell lung cancer cell line KNS62 is induced downstream of caspase 8 and is profoundly blocked by Bcl-xL over-expression. 2005 , 390, 243-8	10
1140	Bcl-2 over-expression reduced the serum dependency and improved the nutrient metabolism in a NS0 cells culture. 2005 , 10, 254-261	12
1139	Mitochondrial response and calcium ion change in apoptotic insect cells induced by SfaMNPV. 2005 , 50, 1191-1198	1
1138	Tankyrase-1 overexpression reduces genotoxin-induced cell death by inhibiting PARP1. 2005 , 276, 183-92	17
1137	Apoptosis and oncosis in acute coronary syndromes: assessment and implications. 2005 , 270, 177-200	45
1136	Programmed cell death via mitochondria: different modes of dying. 2005 , 70, 231-9	239
1135	Developmental apoptosis in health and disease. 2005 , 49-74	1
1134	Neuronal cell death in human neurodegenerative diseases and their animal/cell models. 2005 , 96-155	1
1133	Apoptosis in the cardiovascular system: incidence, regulation, and therapeutic options. 2005 , 156-187	
1132	Mammalian Cell Death Pathways. 2005 , 1-41	1
1131	Apoptosis and lung injury. 2005 , 54, 184-9	40
1130	Apoptosis and Necrosis. 2005 , 151-172	
1129	Brain chemotherapy from the bench to the clinic: targeting neuronal survival with small molecule inhibitors of apoptosis. 2005 , 10, 552-68	2
1128	IL-1beta acts in synergy with endogenous IL-1beta in A375-S2 human melanoma cell apoptosis through mitochondrial pathway. 2005 , 20, 555-61	8
1127	Mutations of mitochondrial 12S rRNA in gastric carcinoma and their significance. 2005 , 11, 31-5	15
1126	The role of nitric oxide and PARP in neuronal cell death. 2005 , 146-156	

1125	Characterization of Cigarette Smoke Extract (CSE)-induced Cell Death in Lung Epithelial Cells. 2005 , 58, 43	
1124	The Intrinsic (Mitochondrial) Death Pathway and New Cancer Therapeutics: Bcl-2 Family in Focus. 2005 , 107-135	1
1123	Molecular pathways involved in apoptotic cell death in the injured cochlea: cues to novel therapeutic strategies. 2005 , 11, 2257-75	9
1122	TNF, Cell Death and Inflammation. 2005 , 4, 557-567	4
1121	Apoptotic responses to hindlimb suspension in gastrocnemius muscles from young adult and aged rats. 2005 , 289, R1015-26	123
1120	Differential susceptibility of subsarcolemmal and intermyofibrillar mitochondria to apoptotic stimuli. 2005 , 289, C994-C1001	127
1119	Cd(2+)-induced cytochrome c release in apoptotic proximal tubule cells: role of mitochondrial permeability transition pore and Ca(2+) uniporter. 2005 , 288, F27-39	74
1118	Mitochondrial response and calcium ion change in apoptotic insect cells induced by SfaMNPV. 2005 , 50, 1191	2
1117	Hypoxia as an Initiator of Neuroinflammation: Microglial Connections. 2005 , 3, 183-191	3
1116	Cd2+-induced swelling-contraction dynamics in isolated kidney cortex mitochondria: role of Ca2+ uniporter, K+ cycling, and protonmotive force. 2005 , 289, C656-64	38
1115	An old drug with a new purpose: cardiovascular actions of acetaminophen (paracetamol). 2005 , 5, 419-29	6
1114	Select forms of tumor cell apoptosis induce dendritic cell maturation. 2005 , 77, 361-8	50
1113	Mature DIABLO/Smac is produced by the IMP protease complex on the mitochondrial inner membrane. 2005 , 16, 2926-33	82
1112	Poly(ADP-ribosyl)ation by PARP-1: 'PAR-laying' NAD+ into a nuclear signal. 2005 , 19, 1951-67	612
1111	Maspin mediates increased tumor cell apoptosis upon induction of the mitochondrial permeability transition. 2005 , 25, 1737-48	70
1110	Role of caspases in death and survival of the plaque macrophage. 2005 , 25, 895-903	22
1109	Involvement of cathepsin D in chemotherapy-induced cytochrome c release, caspase activation, and cell death. 2005 , 4, 733-42	84
1108	Dexamethasone prevents podocyte apoptosis induced by puromycin aminonucleoside: role of p53 and Bcl-2-related family proteins. 2005 , 16, 2615-25	148

1107	Calpain mediates excitotoxic DNA fragmentation via mitochondrial pathways in adult brains: evidence from calpastatin mutant mice. 2005 , 280, 16175-84	159
1106	The lysosome-associated apoptosis-inducing protein containing the pleckstrin homology (PH) and FYVE domains (LAPF), representative of a novel family of PH and FYVE domain-containing proteins, induces caspase-independent apoptosis via the lysosomal-mitochondrial pathway. 2005 , 280, 40985-95	69
1105	Caspase regulation in non-small cell lung cancer and its potential for therapeutic exploitation. 2005 , 11, 2097-105	43
1104	Molecular mechanism of hepatic injury in coinfection with hepatitis C virus and HIV. 2005 , 41 Suppl 1, S32-7	24
1103	Tirapazamine cytotoxicity for neuroblastoma is p53 dependent. 2005 , 11, 2774-80	30
1102	Bax and Bak are required for apoptosis induction by sulforaphane, a cruciferous vegetable-derived cancer chemopreventive agent. 2005 , 65, 2035-43	116
1101	Sendai virus trailer RNA simultaneously blocks two apoptosis-inducing mechanisms in a cell type-dependent manner. 2005 , 86, 2305-2314	7
1100	Induction of apoptosis by curcumin and its implications for cancer therapy. 2005 , 5, 117-29	203
1099	Metalloporphyrin-based superoxide dismutase mimic attenuates the nuclear translocation of apoptosis-inducing factor and the subsequent DNA fragmentation after permanent focal cerebral ischemia in mice. 2005 , 36, 2712-7	41
1098	Induction of reactive oxygen intermediates-dependent programmed cell death in human malignant ex vivo glioma cells and inhibition of the vascular endothelial growth factor production by taurolidine. 2005 , 102, 1055-68	25
1097	Impacting Neuronal and Vascular Cellular Signal Transduction through the Metabotropic Glutamate Receptor System. 2005 , 2, 27-38	
1096	Death Signaling and Therapeutic Applications of TRAIL. 2005 , 133-148	
1095	Gonadotropin-releasing hormone I analog acts as an antiapoptotic factor in mouse blastocysts. 2005 , 146, 4105-16	32
1094	The Role of Apoptosis in Myocardial Infarction and Heart Failure. 2005 , 483-519	1
1093	Application of Apoptosis to Cancer Treatment. 2005 ,	
1092	Loss of splicing factor ASF/SF2 induces G2 cell cycle arrest and apoptosis, but inhibits internucleosomal DNA fragmentation. 2005 , 19, 2705-14	106
1091	Human colon cancer cells lacking Bax resist curcumin-induced apoptosis and Bax requirement is dispensable with ectopic expression of Smac or downregulation of Bcl-XL. 2005 , 26, 713-23	75
1090	GoldIII porphyrin 1a induced apoptosis by mitochondrial death pathways related to reactive oxygen species. 2005 , 65, 11553-64	166

1089	Bcl-2 expression predicts radiotherapy failure in laryngeal cancer. 2005 , 92, 2185-9	81
1088	Apoptotic Pathways as Targets for Novel Therapies in Cancer and Other Diseases. 2005 ,	5
1087	"Simple but not simpler": toward a unified picture of energy requirements in cell death. 2005 , 19, 1783-8	50
1086	Molecular cloning and characterization of a human AIF-like gene with ability to induce apoptosis. 2005 , 280, 19673-81	46
1085	The secreted peptidyl prolyl cis,trans-isomerase HP0175 of <i>Helicobacter pylori</i> induces apoptosis of gastric epithelial cells in a TLR4- and apoptosis signal-regulating kinase 1-dependent manner. 2005 , 174, 5672-80	75
1084	Human immunodeficiency virus type 1 Vpr interacts with antiapoptotic mitochondrial protein HAX-1. 2005 , 79, 13735-46	65
1083	DNA oxidation injury in bone early after steroid administration is involved in the pathogenesis of steroid-induced osteonecrosis. 2005 , 44, 456-60	68
1082	Mitochondrial release of pro-apoptotic proteins: electrostatic interactions can hold cytochrome c but not Smac/DIABLO to mitochondrial membranes. 2005 , 280, 2266-74	136
1081	Nucleoplasmin regulates chromatin condensation during apoptosis. 2005 , 102, 2778-83	39
1080	Regulation of growth and differentiation in <i>Dictyostelium</i> . 2005 , 244, 287-332	31
1079	Targeting Cell-Death Pathways in Multiple Myeloma: Therapeutic Implications. 2005 , 189-208	
1078	Caspase-dependent apoptosis induction by phenethyl isothiocyanate, a cruciferous vegetable-derived cancer chemopreventive agent, is mediated by Bak and Bax. 2005 , 11, 2670-9	69
1077	Apoptosis-inducing factor is a key factor in neuronal cell death propagated by BAX-dependent and BAX-independent mechanisms. 2005 , 25, 1324-34	158
1076	p53-dependent caspase-2 activation in mitochondrial release of apoptosis-inducing factor and its role in renal tubular epithelial cell injury. 2005 , 280, 31230-9	144
1075	Muscle-specific loss of apoptosis-inducing factor leads to mitochondrial dysfunction, skeletal muscle atrophy, and dilated cardiomyopathy. 2005 , 25, 10261-72	174
1074	p53CSV, a novel p53-inducible gene involved in the p53-dependent cell-survival pathway. 2005 , 65, 1197-206	57
1073	Driving cellular plasticity and survival through the signal transduction pathways of metabotropic glutamate receptors. 2005 , 2, 425-46	49
1072	The contribution of apoptosis-inducing factor, caspase-activated DNase, and inhibitor of caspase-activated DNase to the nuclear phenotype and DNA degradation during apoptosis. 2005 , 280, 35670-83	73

1071	Calpain I induces cleavage and release of apoptosis-inducing factor from isolated mitochondria. 2005 , 280, 6447-54	326
1070	Full-length p73alpha represses drug-induced apoptosis in small cell lung carcinoma cells. 2005 , 280, 34159-69	26
1069	Tumour necrosis factor-induced death of adult human oligodendrocytes is mediated by apoptosis inducing factor. 2005 , 128, 2675-88	90
1068	Arsenic trioxide: an anti cancer missile with multiple warheads. 2005 , 10, 205-13	40
1067	Doxorubicin induces apoptosis with profile of large-scale DNA fragmentation and without DNA ladder in anaplastic thyroid carcinoma cells via histone hyperacetylation. 2005 , 27, 465	2
1066	Inhibition of proteasome activity in Gleditsia sinensis fruit extract-mediated apoptosis on human carcinoma cells. 2005 , 16, 925	
1065	Chapter 11 Cell death: Investigation and application in fish toxicology. 2005 , 303-328	3
1064	Quantification of mitochondrial DNA using real-time polymerase chain reaction in patients with premature ovarian failure. 2005 , 84, 1712-8	8
1063	Caspase-3 is required in the apoptotic disintegration of the nuclear matrix. 2005 , 311, 62-73	51
1062	The role of apoptosis in the development and function of T lymphocytes. 2005 , 15, 749-69	101
1061	Interactive effects of HDAC inhibitors and TRAIL on apoptosis are associated with changes in mitochondrial functions and expressions of cell cycle regulatory genes in multiple myeloma. 2005 , 7, 646-57	128
1060	Role of mitochondria in the pheromone- and amiodarone-induced programmed death of yeast. 2005 , 168, 257-69	218
1059	The Use of Proteomics to Identify and Characterize Cell Death Proteins. 2005 , 403-434	
1058	Mitochondria and Oxidation in the Regulation of Cell Death. 2005 , 381-401	
1057	Primary hepatocyte apoptosis is unlikely to relate to caspase-3 activity under sustained endogenous oxidative stress. 2005 , 39, 163-73	24
1056	Targeting PBR by hexaminolevulinate-mediated photodynamic therapy induces apoptosis through translocation of apoptosis-inducing factor in human leukemia cells. 2005 , 65, 11051-60	67
1055	Programmed Cell Death. 2005 , 317-328	1
1054	Role of mitochondria in neuronal cell death induced by oxidative stress; neuroprotection by Coenzyme Q10. 2005 , 18, 618-27	130

1053	Granzyme A induces caspase-independent mitochondrial damage, a required first step for apoptosis. 2005 , 22, 355-70	257
1052	Biphasic changes in the levels of poly(ADP-ribose) polymerase-1 and caspase 3 in the immature brain following hypoxia-ischemia. 2005 , 23, 673-86	24
1051	Sulindac activates nuclear translocation of AIF, DFF40 and endonuclease G but not induces oligonucleosomal DNA fragmentation in HT-29 cells. 2005 , 77, 2059-70	17
1050	Ceramide induces neuronal apoptosis through mitogen-activated protein kinases and causes release of multiple mitochondrial proteins. 2005 , 29, 355-71	86
1049	Calcium-mediated aponecrosis plays a central role in the pathogenesis of estrogenic chemical-induced neurotoxicity. 2005 , 65, 893-904	20
1048	p53-A pro-apoptotic signal transducer involved in AIDS. 2005 , 331, 701-6	25
1047	Unknotting the roles of Bcl-2 and Bcl-xL in cell death. 2005 , 333, 336-43	150
1046	Putative tumor suppressor RASSF1 interactive protein and cell death inducer C19ORF5 is a DNA binding protein. 2005 , 332, 670-6	25
1045	Mechanism of Siglec-8-induced human eosinophil apoptosis: role of caspases and mitochondrial injury. 2005 , 336, 918-24	84
1044	[Apoptosis: basic knowledge and applications]. 2005 , 33, 632-41	1
1043	LDOC1, a novel MZF-1-interacting protein, induces apoptosis. 2005 , 579, 604-8	36
1042	Oxidative stress in the brain: novel cellular targets that govern survival during neurodegenerative disease. 2005 , 75, 207-46	438
1041	Prolonged seizures and cellular injury: understanding the connection. 2005 , 7 Suppl 3, S3-11	199
1040	Apoptosis of ventricular myocytes: a means to an end. 2005 , 38, 3-13	102
1039	Molecular basis of programmed cell death involved in neurodegeneration. 2005 , 28, 670-6	131
1038	Apoptosis-inducing factor triggered by poly(ADP-ribose) polymerase and Bid mediates neuronal cell death after oxygen-glucose deprivation and focal cerebral ischemia. 2005 , 25, 10262-72	282
1037	Myenteric plexus injury and apoptosis in experimental colitis. 2005 , 117, 41-53	78
1036	Mechanisms of selenium inhibition of cell apoptosis induced by oxysterols in rat vascular smooth muscle cells. 2005 , 441, 16-24	56

1035	Beyond apoptosis: nonapoptotic cell death in physiology and disease. 2005 , 83, 579-88	53
1034	Cell death independent of caspases: a review. 2005 , 11, 3155-62	719
1033	Cas IIgly induces apoptosis in glioma C6 cells in vitro and in vivo through caspase-dependent and caspase-independent mechanisms. 2005 , 7, 563-74	97
1032	Apoptotic pathways and therapy resistance in human malignancies. 2005 , 94, 143-96	73
1031	Molecular mechanism of apoptosis induced by mechanical forces. 2005 , 245, 45-90	65
1030	Stress-activated MAP kinases regulate rubratoxin B-caused cytotoxicity and cytokine secretion in hepatocyte-derived HepG2 cells. 2005 , 155, 259-67	9
1029	Mediation of cell death by poly(ADP-ribose) polymerase-1. 2005 , 52, 5-14	199
1028	Poly(ADP-ribose) polymerase-mediated cell injury in acute renal failure. 2005 , 52, 44-59	45
1027	Intrinsic pathway of hydroquinone induced apoptosis occurs via both caspase-dependent and caspase-independent mechanisms. 2005 , 18, 420-7	21
1026	Death Receptors in Cancer Therapy. 2005 ,	3
1025	Incorporation of branched-chain fatty acid into cellular lipids and caspase-independent apoptosis in human breast cancer cell line, SKBR-3. 2005 , 4, 29	21
1024	Molecular Chaperones in Health and Disease. 2006 ,	2
1023	Caspases 3 and 7: key mediators of mitochondrial events of apoptosis. 2006 , 311, 847-51	863
1022	Apoptotic interactions of cytochrome c: redox flirting with anionic phospholipids within and outside of mitochondria. 2006 , 1757, 648-59	141
1021	Cell death in Porifera: molecular players in the game of apoptotic cell death in living fossils. 2006 , 84, 307-321	27
1020	The emerging functions of UCP2 in health, disease, and therapeutics. 2006 , 8, 1-38	140
1019	Caspase-dependent and caspase-independent apoptosis induced by evodiamine in human leukemic U937 cells. 2006 , 5, 2398-407	86
1018	The nuclear pore complex, nuclear transport, and apoptosis. 2006 , 84, 279-86	25

1017	Overexpression of SOD1 in transgenic rats attenuates nuclear translocation of endonuclease G and apoptosis after spinal cord injury. 2006 , 23, 595-603	21
1016	Characterization of galectin-9-induced death of Jurkat T cells. 2007 , 141, 157-72	57
1015	Photoreceptor cell apoptosis in the retinal degeneration of Uchl3-deficient mice. 2006 , 169, 132-41	48
1014	Physiological functions of caspases beyond cell death. 2006 , 169, 729-37	62
1013	Specific cleavage of ribosomal RNA and mRNA during victorin-induced apoptotic cell death in oat. 2006 , 46, 922-33	16
1012	The role of caspases in photoreceptor cell death of the retinoschisin-deficient mouse. 2006 , 115, 35-44	15
1011	Identification of single-domain, Bax-specific intrabodies that confer resistance to mammalian cells against oxidative-stress-induced apoptosis. 2006 , 20, 2636-8	41
1010	Heat shock proteins: endogenous modulators of apoptotic cell death. 2006 , 171-98	105
1009	Yeast AMID homologue Ndi1p displays respiration-restricted apoptotic activity and is involved in chronological aging. 2006 , 17, 1802-11	111
1008	HPMA copolymer-bound doxorubicin induces apoptosis in ovarian carcinoma cells by the disruption of mitochondrial function. 2006 , 3, 351-61	41
1007	The p53-inducible E3 ubiquitin ligase p53RFP induces p53-dependent apoptosis. 2006 , 580, 940-7	27
1006	Apoptosis-inducing factor (AIF) inhibits protein synthesis by interacting with the eukaryotic translation initiation factor 3 subunit p44 (eIF3g). 2006 , 580, 6375-83	25
1005	Simvastatin induces caspase-independent apoptosis in LPS-activated RAW264.7 macrophage cells. 2006 , 339, 1007-14	21
1004	Overexpression of adenine nucleotide translocase reduces Ca ²⁺ signal transmission between the ER and mitochondria. 2006 , 348, 393-9	23
1003	Hydrogen peroxide-induced oxidative stress in MC3T3-E1 cells: The effects of glutamate and protection by purines. 2006 , 39, 542-51	110
1002	Switch from caspase-dependent to caspase-independent death during heart development: essential role of endonuclease G in ischemia-induced DNA processing of differentiated cardiomyocytes. 2006 , 281, 22943-52	71
1001	Neuroprotective effects of NU1025, a PARP inhibitor in cerebral ischemia are mediated through reduction in NAD depletion and DNA fragmentation. 2006 , 79, 2293-302	45
1000	Hydroxycamptothecin-induced apoptosis in hepatoma SMMC-7721 cells and the role of mitochondrial pathway. 2006 , 6, 211-7	31

999	Divergence from a dedicated cellular suicide mechanism: exploring the evolution of cell death. 2006 , 23, 1-12	62
998	Arsenic-induced gene expression changes in the neural tube of folate transport defective mouse embryos. 2006 , 27, 547-57	38
997	AIF and endoG translocation in noise exposure induced hair cell death. 2006 , 211, 85-95	49
996	Rabies virus-induced apoptosis involves caspase-dependent and caspase-independent pathways. 2006 , 121, 144-51	38
995	The genomic underpinnings of apoptosis in <i>Strongylocentrotus purpuratus</i> . 2006 , 300, 321-34	97
994	Mitochondrial trafficking and morphology in healthy and injured neurons. 2006 , 80, 241-68	180
993	Cadmium-induced apoptosis in rat hepatocytes does not necessarily involve caspase-dependent pathways. 2006 , 20, 1331-42	34
992	Ki-energy (life-energy) protects isolated rat liver mitochondria from oxidative injury. 2006 , 3, 475-82	10
991	Mitochondrial Ca ²⁺ transport, permeability transition and oxidative stress in cell death: implications in cardiotoxicity, neurodegeneration and dyslipidemias. 2006 , 11, 2554-64	58
990	Rituximab enhances radiation-triggered apoptosis in non-Hodgkin's lymphoma cells via caspase-dependent and - independent mechanisms. 2006 , 47, 183-96	48
989	Apoptosis and chemoresistance. 339-361	
988	Life and Death Decisions in Response to Stress. 757-776	
987	Role of Mitochondrial Proteins in Apoptosis. 185-221	
986	Apoptosis-inducing Factor. 233-255	
985	[Mitochondrial dysfunction and apoptosis in neurodegenerative diseases]. 2006 , 127, 349-54	
984	MCI-186 (3-methyl-1-phenyl-2-pyrazolin-5-one) attenuated simulated ischemia/reperfusion injury in cultured rat hippocampal cells. 2006 , 29, 1613-7	21
983	Nuclear localization of the serine/threonine kinase DRK2 is involved in UV-induced apoptosis. 2006 , 29, 225-33	28
982	Targeting Bid to prevent programmed cell death in neurons. 2006 , 34, 1334-40	33

981	Mitochondrial pathways of neuronal necrosis. 2006 , 34, 1347-51	20
980	Mitochondriopathy in Parkinson disease and amyotrophic lateral sclerosis. 2006 , 65, 1103-10	56
979	Inhibition of poly(adp-ribose) polymerase reduces cardiomyocytic apoptosis after global cardiac arrest under cardiopulmonary bypass. 2006 , 25, 168-75	13
978	Activation of mitochondrial pathway is crucial for tumor selective induction of apoptosis by LAQ824. 2006 , 5, 1662-8	39
977	Hypophosphorylation of the architectural chromatin protein DEK in death-receptor-induced apoptosis revealed by the isotope coded protein label proteomic platform. 2006 , 6, 5758-72	20
976	Chromatin condensation of ovarian nurse and follicle cells is regulated independently from DNA fragmentation during Drosophila late oogenesis. 2006 , 74, 293-304	19
975	5-FdUrd-araC heterodinucleoside re-establishes sensitivity in 5-FdUrd- and AraC-resistant MCF-7 breast cancer cells overexpressing ErbB2. 2006 , 74, 488-98	14
974	Modulation of isolated N-methyl-d-aspartate receptor response under hyperbaric conditions. 2006 , 24, 3453-62	15
973	From castration-induced apoptosis of prostatic epithelium to the use of apoptotic genes in the treatment of prostate cancer. 2002 , 963, 191-203	5
972	Apoptosis inducing factor and PARP-mediated injury in the MPTP mouse model of Parkinson's disease. 2003 , 991, 132-9	101
971	Expression of cell death-associated proteins in neuronal apoptosis associated with pontosubicular neuron necrosis. 2001 , 11, 273-81	28
970	TRAIL triggers apoptosis in human malignant glioma cells through extrinsic and intrinsic pathways. 2003 , 13, 539-53	62
969	Different apoptotic mechanisms are activated in male and female brains after neonatal hypoxia-ischaemia. 2006 , 96, 1016-27	227
968	Neuronal cell death caused by inhibition of intracellular cholesterol trafficking is caspase dependent and associated with activation of the mitochondrial apoptosis pathway. 2006 , 97, 280-91	26
967	Attenuation of MPTP-induced neurotoxicity and locomotor dysfunction in Nucling-deficient mice via suppression of the apoptosome pathway. 2006 , 97, 1126-35	15
966	Phosphorylation of rat brain mitochondrial voltage-dependent anion as a potential tool to control leakage of cytochrome c. 2006 , 98, 670-6	34
965	Euonymus alatus (Thunb.) Sieb induces apoptosis via mitochondrial pathway as prooxidant in human uterine leiomyoma smooth muscle cells. 2006 , 16, 843-8	13
964	Immunohistochemical and mutational analysis of apoptosis-inducing factor (AIF) in colorectal carcinomas. 2006 , 114, 867-73	20

963	Differing molecular mechanisms appear to underlie early toxicity of prefibrillar HypF-N aggregates to different cell types. 2006 , 273, 2206-22	13
962	Chlamydia (<i>Chlamydomonas</i>) pneumoniae-induced cell death in human coronary artery endothelial cells is caspase-independent and accompanied by subcellular translocations of Bax and apoptosis-inducing factor. 2006 , 47, 207-16	15
961	Mitochondrial control of cell death induced by HIV-1-encoded proteins. 2000 , 926, 149-64	61
960	A caspase-independent cell clearance program. The LEI/L-DNase II pathway. 2000 , 926, 192-203	24
959	CD 95 mediated apoptosis in embryogenesis: implication in tooth development. 2006 , 9, 123-8	1
958	Defects in N-glycosylation induce apoptosis in yeast. 2006 , 59, 765-78	93
957	Molecular mechanisms of apoptosis induced by ajoene in 3T3-L1 adipocytes. 2006 , 14, 388-97	61
956	Mitochondria: a target for cancer therapy. 2006 , 147, 239-48	186
955	Cell death in the nervous system. <i>Nature</i> , 2006 , 443, 796-802	50.4 477
954	Loss of apoptosis-inducing factor leads to an increase in reactive oxygen species, and an impairment of respiration that can be reversed by antioxidants. 2006 , 13, 354-7	54
953	Smac/DIABLO is not released from mitochondria during apoptotic signalling in cells deficient in cytochrome c. 2006 , 13, 1181-90	23
952	Mechanisms of cytochrome c release from mitochondria. 2006 , 13, 1423-33	770
951	Regulation of AIF expression by p53. 2006 , 13, 2140-9	145
950	A novel cellular survival factor--the B2 subunit of vacuolar H ⁺ -ATPase inhibits apoptosis. 2006 , 13, 2109-17	13
949	Nitric oxide-induced mitochondrial fission is regulated by dynamin-related GTPases in neurons. 2006 , 25, 3900-11	552
948	Dissociating the dual roles of apoptosis-inducing factor in maintaining mitochondrial structure and apoptosis. 2006 , 25, 4061-73	155
947	Selective proapoptotic activity of a secreted recombinant antibody/AIF fusion protein in carcinomas overexpressing HER2. 2006 , 13, 313-20	31
946	Caspase-3 cleavage and nuclear localization of caspase-activated DNase in human temporal lobe epilepsy. 2006 , 26, 583-9	38

945	The carboxyl-terminal domain of inducible Hsp70 protects from ischemic injury in vivo and in vitro. 2006 , 26, 937-50	59
944	Prevention of apoptosis-inducing factor translocation is a possible mechanism for protective effects of hepatocyte growth factor against neuronal cell death in the hippocampus after transient forebrain ischemia. 2006 , 26, 1354-65	57
943	Activation of dual apoptotic pathways in human melanocytes and protection by survivin. 2006 , 126, 2247-56	33
942	The p53-inducible apoptotic protein AMID is not required for normal development and tumor suppression. 2006 , 25, 849-56	19
941	Physical interaction of apoptosis-inducing factor with DNA and RNA. 2006 , 25, 1763-74	44
940	CD44 ligation induces caspase-independent cell death via a novel calpain/AIF pathway in human erythroleukemia cells. 2006 , 25, 5741-51	40
939	p53-dependent inhibition of mammalian cell survival by a genetically selected peptide aptamer that targets the regulatory subunit of protein kinase CK2. 2006 , 25, 7343-53	21
938	Tumor necrosis factor alpha signaling in skeletal muscle: effects of age and caloric restriction. 2006 , 17, 501-8	64
937	Immunohistochemical analysis of apoptosis-inducing factor (AIF) expression in gastric carcinomas. 2006 , 202, 497-501	22
936	On the mechanism of palmitic acid-induced apoptosis: the role of a pore induced by palmitic acid and Ca ²⁺ in mitochondria. 2006 , 38, 113-20	29
935	LVMH Recherche Symposium on mitochondria October 6th, 2005 Paris. 2006 , 26, 183-201	1
934	Mitochondrial-nuclear cross-talk in the aging and failing heart. 2006 , 20, 477-91	30
933	15-deoxy-(Delta ^{12,14})-prostaglandin J ₂ (15d-PGJ ₂) induces cell death through caspase-independent mechanism in A172 human glioma cells. 2006 , 31, 1247-54	26
932	All roads lead to disconnection?--Traumatic axonal injury revisited. 2006 , 148, 181-93; discussion 193-4	389
931	Protection of human and murine hepatocytes against Fas-induced death by transferrin and iron. 2006 , 11, 79-87	12
930	Role of the unfolded protein response in cell death. 2006 , 11, 5-13	378
929	Induction of endonuclease G-mediated apoptosis in human oral squamous cell carcinoma cells by protein kinase C inhibitor safinol. 2006 , 11, 47-56	29
928	Diverse pathways mediate chemotherapy-induced cell death in acute lymphoblastic leukemia cell lines. 2006 , 11, 1977-86	8

927	Involvement of both caspase-dependent and -independent pathways in apoptotic induction by hexaminolevulinate-mediated photodynamic therapy in human lymphoma cells. 2006 , 11, 2031-42	43
926	Suppressive effect of elongation factor 2 on apoptosis induced by HIV-1 viral protein R. 2006 , 11, 377-88	30
925	Regulation of survivin by retinoic acid and its role in paclitaxel-mediated cytotoxicity in MCF-7 breast cancer cells. 2006 , 11, 589-605	27
924	Translocation of AIF in the human and rat striatum following protracted haloperidol, but not clozapine treatment. 2006 , 11, 663-72	15
923	Cell death regulation by B-cell lymphoma protein. 2006 , 11, 459-71	24
922	Regulation of apoptosis/necrosis execution in cadmium-treated human promonocytic cells under different forms of oxidative stress. 2006 , 11, 673-86	51
921	Deficiency of the Bax gene attenuates denervation-induced apoptosis. 2006 , 11, 967-81	42
920	Apoptosis effector mechanisms: a requiem performed in different keys. 2006 , 11, 889-904	122
919	The extrinsic and intrinsic apoptotic pathways are differentially affected by temperature upstream of mitochondrial damage. 2006 , 11, 1339-47	15
918	Caspase-activated DNase (CAD)-independent oligonucleosomal DNA fragmentation in chronic myeloid leukaemia cells; a requirement for serine protease and Mn ²⁺ -dependent acidic endonuclease activity. 2006 , 11, 1473-87	11
917	Cross-talk between two apoptotic pathways activated by endoplasmic reticulum stress: differential contribution of caspase-12 and AIF. 2006 , 11, 1629-41	75
916	Mechanisms of fenretinide-induced apoptosis. 2006 , 11, 1677-94	163
915	Activation of mitogen-activated protein kinases is essential for hydrogen peroxide -induced apoptosis in retinal pigment epithelial cells. 2006 , 11, 1899-908	53
914	Cuts can kill: the roles of apoptotic nucleases in cell death and animal development. 2006 , 115, 89-97	39
913	Role of mitochondria and mitochondrial cytochrome c in tubeimoside I-mediated apoptosis of human cervical carcinoma HeLa cell line. 2006 , 57, 389-99	34
912	Role of mitochondria as the gardens of cell death. 2006 , 57, 545-53	246
911	Hypoxia-mediated fenretinide (4-HPR) resistance in childhood acute lymphoblastic leukemia cells. 2006 , 58, 540-6	8
910	Helicobacter pylori induces apoptosis of T- and B-cell lines and translocates mitochondrial apoptosis-inducing factor to nucleus. 2006 , 52, 254-60	11

909	Glucocorticoids in T cell apoptosis and function. 2006 , 63, 60-72	277
908	Improved islet yields from pancreas preserved in perfluorocarbon is via inhibition of apoptosis mediated by mitochondrial pathway. 2006 , 6, 1696-703	32
907	Inhibition of K ⁺ efflux prevents mitochondrial dysfunction, and suppresses caspase-3-, apoptosis-inducing factor-, and endonuclease G-mediated constitutive apoptosis in human neutrophils. 2006 , 18, 2302-13	27
906	Aging alters the reduction of pro-apoptotic signaling in response to loading-induced hypertrophy. 2006 , 41, 175-88	21
905	Dexamethasone induces cell death which may be blocked by NMDA receptor antagonists but is insensitive to Mg ²⁺ in cerebellar granule neurons. 2006 , 1070, 116-23	31
904	Death of a trypanosome: a selfish altruism. 2006 , 22, 536-42	98
903	Apoptosis-inducing factor: vital and lethal. 2006 , 16, 264-72	263
902	TAT-mediated delivery of Bcl-xL protein is neuroprotective against neonatal hypoxic-ischemic brain injury via inhibition of caspases and AIF. 2006 , 21, 358-71	91
901	A Drosophila ortholog of the human MRJ modulates polyglutamine toxicity and aggregation. 2006 , 24, 226-44	35
900	The neurotoxic effects of prenatal cardiac glycoside exposure: a hypothesis. 2006 , 28, 135-43	11
899	Glutamate-induced apoptosis in neuronal cells is mediated via caspase-dependent and independent mechanisms involving calpain and caspase-3 proteases as well as apoptosis inducing factor (AIF) and this process is inhibited by equine estrogens. 2006 , 7, 49	141
898	Mitochondrial membrane permeabilization: the sine qua non for cell death. 2006 , 28, 253-60	173
897	Does apoptosis-inducing factor (AIF) have both life and death functions in cells?. 2006 , 28, 834-43	55
896	Activation-induced cell death of human melanoma specific cytotoxic T lymphocytes is mediated by apoptosis-inducing factor. 2006 , 36, 3167-74	21
895	Caspase-dependent and -independent cell death induced by 3-nitropropionic acid in rat cortical neurons. 2006 , 98, 93-101	21
894	2-(4-Methylphenyl)-1,3-selenazol-4-one induces apoptosis by different mechanisms in SKOV3 and HL 60 cells. 2006 , 99, 807-15	13
893	Increased expression of LGI1 gene triggers growth inhibition and apoptosis of neuroblastoma cells. 2006 , 207, 711-21	21
892	Human fibroblasts undergo oxidative stress-induced apoptosis without internucleosomal DNA fragmentation. 2006 , 208, 289-97	26

891	Lipopolysaccharide accelerates caspase-independent but cathepsin B-dependent death of human lung epithelial cells. 2006 , 209, 457-67	32
890	Selective amino acid restriction targets mitochondria to induce apoptosis of androgen-independent prostate cancer cells. 2006 , 209, 522-34	21
889	Paradoxical effects of short- and long-term interleukin-6 exposure on liver injury and repair. 2006 , 43, 474-84	130
888	Tetracycline analogues (doxycycline and COL-3) induce caspase-dependent and -independent apoptosis in human colon cancer cells. 2006 , 118, 1309-15	72
887	Vitamin E analogues as anticancer agents: lessons from studies with alpha-tocopheryl succinate. 2006 , 50, 675-85	58
886	Glycyrrhetic acid (a metabolic substance and aglycon of glycyrrhizin) induces apoptosis in human hepatoma, promyelotic leukemia and stomach cancer cells. 2006 , 17, 215	11
885	The role of apoptosis in cancer cell survival and therapeutic outcome. 2006 , 5, 1429-42	42
884	ER stress-induced apoptosis and caspase-12 activation occurs downstream of mitochondrial apoptosis involving Apaf-1. 2006 , 119, 3958-66	129
883	The Raf inhibitor BAY 43-9006 (Sorafenib) induces caspase-independent apoptosis in melanoma cells. 2006 , 66, 1611-9	151
882	Roles of apoptosis in airway epithelia. 2006 , 34, 537-47	67
881	Binding of multivalent CD147 phage induces apoptosis of U937 cells. 2006 , 18, 1159-69	11
880	Apoptosis in retinal degeneration involves cross-talk between apoptosis-inducing factor (AIF) and caspase-12 and is blocked by calpain inhibitors. 2006 , 103, 17366-71	171
879	Oxidative stress, mitochondrial dysfunction, and stress signaling in Alzheimer's disease. 2006 , 3, 339-49	101
878	Nuclear translocation of EndoG at the initiation of disuse muscle atrophy and apoptosis is specific to myonuclei. 2006 , 291, R1730-40	94
877	A role for mitochondrial aquaporins in cellular life-and-death decisions?. 2006 , 291, C195-202	83
876	Grape seed extract induces anoikis and caspase-mediated apoptosis in human prostate carcinoma LNCaP cells: possible role of ataxia telangiectasia mutated-p53 activation. 2006 , 5, 1265-74	65
875	Modeling oxidative stress in the central nervous system. 2006 , 6, 871-81	32
874	Lithium treatment induces a marked proliferation of primarily principal cells in rat kidney inner medullary collecting duct. 2006 , 291, F39-48	108

873	Modulation of the cell cycle and induction of apoptosis in human cancer cells by synthetic bile acids. 2006 , 6, 681-9	30
872	Heat shock proteins 27 and 70: anti-apoptotic proteins with tumorigenic properties. 2006 , 5, 2592-601	535
871	CpG-B oligodeoxynucleotide promotes cell survival via up-regulation of Hsp70 to increase Bcl-xL and to decrease apoptosis-inducing factor translocation. 2006 , 281, 38200-7	30
870	Distinct hsp70 domains mediate apoptosis-inducing factor release and nuclear accumulation. 2006 , 281, 7873-80	93
869	BMS-345541 targets inhibitor of kappaB kinase and induces apoptosis in melanoma: involvement of nuclear factor kappaB and mitochondria pathways. 2006 , 12, 950-60	149
868	Poly(ADP-Ribosyl)ation. 2006 ,	6
867	Loss of Acinus inhibits oligonucleosomal DNA fragmentation but not chromatin condensation during apoptosis. 2006 , 281, 12475-84	40
866	Involvement of the ATR- and ATM-dependent checkpoint responses in cell cycle arrest evoked by pierisin-1. 2006 , 4, 125-33	18
865	Coadministration of sorafenib with rottlerin potently inhibits cell proliferation and migration in human malignant glioma cells. 2006 , 319, 1070-80	89
864	Death of CD4+ T cells from lymph nodes during primary SIVmac251 infection predicts the rate of AIDS progression. 2006 , 177, 6685-94	32
863	Nuclear translocation of endonuclease G and apoptosis-inducing factor during acetaminophen-induced liver cell injury. 2006 , 94, 217-25	186
862	Systematic characterization of nuclear proteome during apoptosis: a quantitative proteomic study by differential extraction and stable isotope labeling. 2006 , 5, 1131-45	54
861	Berberine inhibits growth, induces G1 arrest and apoptosis in human epidermoid carcinoma A431 cells by regulating Cdk1-Cdk-cyclin cascade, disruption of mitochondrial membrane potential and cleavage of caspase 3 and PARP. 2006 , 27, 2018-27	150
860	Electron transport complex I is required for CD8+ T cell function. 2006 , 177, 852-62	51
859	Intrinsic fluorescence and redox changes associated with apoptosis of primary human epithelial cells. 2006 , 11, 064012	46
858	Indices of apoptosis activation after blood cardioplegia and cardiopulmonary bypass. 2006 , 114, 1257-63	37
857	Identification of {alpha}-tubulin as a granzyme B substrate during CTL-mediated apoptosis. 2006 , 119, 858-65	48
856	Granzyme B-mediated death of pancreatic beta-cells requires the proapoptotic BH3-only molecule bid. 2006 , 55, 2212-9	47

855	The mitochondrial protein Bak is pivotal for gliotoxin-induced apoptosis and a critical host factor of <i>Aspergillus fumigatus</i> virulence in mice. 2006 , 174, 509-19	87
854	Poly(ADP-ribose) polymerase-1 signaling to mitochondria in necrotic cell death requires RIP1/TRAF2-mediated JNK1 activation. 2006 , 281, 8788-95	188
853	AIFsh, a novel apoptosis-inducing factor (AIF) pro-apoptotic isoform with potential pathological relevance in human cancer. 2006 , 281, 6413-27	63
852	Small Molecule De-Repression of BAX and BAK Oligomerization as a Strategy for Treating Cancer. 2006 , 3, 534-540	2
851	Therapeutic advantage of combining calcium channel blockers and TRAIL in prostate cancer. 2006 , 5, 1958-66	23
850	Apoptosis-inducing factor mediates poly(ADP-ribose) (PAR) polymer-induced cell death. 2006 , 103, 18314-9	571
849	Molecular iodine induces caspase-independent apoptosis in human breast carcinoma cells involving the mitochondria-mediated pathway. 2006 , 281, 19762-71	91
848	Nuclear ADP-ribosylation reactions in mammalian cells: where are we today and where are we going?. 2006 , 70, 789-829	522
847	Berberine, a natural product, induces G1-phase cell cycle arrest and caspase-3-dependent apoptosis in human prostate carcinoma cells. 2006 , 5, 296-308	277
846	Mass Spectrometry in Pharmaceutical Analysis. 2006 ,	
845	Programmed Cell Death in Fungi. 2006 , 167-187	18
844	Activation of Bak and Bax through c-abl-protein kinase Cdelta-p38 MAPK signaling in response to ionizing radiation in human non-small cell lung cancer cells. 2006 , 281, 7049-59	69
843	Identification and characterization of AIFsh2, a mitochondrial apoptosis-inducing factor (AIF) isoform with NADH oxidase activity. 2006 , 281, 18507-18	43
842	Oxygen radicals induce poly(ADP-ribose) polymerase-dependent cell death in cytotoxic lymphocytes. 2006 , 176, 7301-7	46
841	The endoplasmic reticulum is a key component of the plasma cell death pathway. 2006 , 176, 1340-7	51
840	Calcium-independent phospholipase A2 localizes in and protects mitochondria during apoptotic induction by staurosporine. 2006 , 281, 22275-22288	105
839	Heat shock protein 70 neutralization exerts potent antitumor effects in animal models of colon cancer and melanoma. 2006 , 66, 4191-7	126
838	Apoptosis and necrosis: a review for surgeons. 2006 , 7, 53-68	15

837	Different mitochondrial intermembrane space proteins are released during apoptosis in a manner that is coordinately initiated but can vary in duration. 2006 , 103, 11573-8	183
836	Control of mitochondrial outer membrane permeabilization and Bcl-xL levels by thioredoxin 2 in DT40 cells. 2006 , 281, 7384-91	40
835	MNNG-induced cell death is controlled by interactions between PARP-1, poly(ADP-ribose) glycohydrolase, and XRCC1. 2006 , 281, 34394-405	39
834	Involvement of endonuclease G in nucleosomal DNA fragmentation under sustained endogenous oxidative stress. 2006 , 281, 6726-33	57
833	Mitoenergetic failure in Alzheimer disease. 2007 , 292, C8-23	103
832	Rapid activation of antioxidant defenses by nerve growth factor suppresses reactive oxygen species during neuronal apoptosis: evidence for a role in cytochrome c redistribution. 2007 , 27, 11315-26	66
831	Retinal Degenerations. 2007 ,	6
830	BCL2 is a downstream effector of MIZ-1 essential for blocking c-MYC-induced apoptosis. 2007 , 282, 5-13	44
829	Apoptosis-inducing factor regulates death in peripheral T cells. 2007 , 179, 797-803	16
828	Nitric oxide and peroxynitrite in health and disease. 2007 , 87, 315-424	4407
827	AIF-mediated programmed necrosis: a highly regulated way to die. 2007 , 6, 2612-9	136
826	Conserved actin cysteine residues are oxidative stress sensors that can regulate cell death in yeast. 2007 , 18, 1359-65	62
825	Pathogenesis of hypoxic-ischemic brain injury. 2007 , 27, S39-S46	23
824	Bax and Bak genes are essential for maximum apoptotic response by curcumin, a polyphenolic compound and cancer chemopreventive agent derived from turmeric, <i>Curcuma longa</i> . 2007 , 28, 1277-86	74
823	DNA binding suppresses human AIF-M2 activity and provides a connection between redox chemistry, reactive oxygen species, and apoptosis. 2007 , 282, 30331-40	24
822	A novel inhibitory mechanism of mitochondrion-dependent apoptosis by a herpesviral protein. 2007 , 3, e174	30
821	Key note lecture: toward a mechanistic taxonomy for cell death programs. 2007 , 38, 652-60	37
820	Programs for cell death: apoptosis is only one way to go. 2007 , 6, 686-95	88

819	BUB1 mediation of caspase-independent mitotic death determines cell fate. 2007 , 178, 283-96	88
818	Rescuing neurons and glia: is inhibition of apoptosis useful?. 2007 , 161, 81-95	14
817	Porphyromonas gingivalis dihydroceramides induce apoptosis in endothelial cells. 2007 , 86, 635-40	20
816	Programmed cell death in retinal degeneration: targeting apoptosis in photoreceptors as potential therapy for retinal degeneration. 2007 , 6, 652-5	83
815	Kinetics of occurrence of some features of apoptosis during the cryopreservation process of bovine spermatozoa. 2007 , 22, 380-8	96
814	Apoptotic gene expression in Alzheimer's disease hippocampal tissue. 2007 , 22, 319-28	39
813	Copper and manganese induce yeast apoptosis via different pathways. 2007 , 18, 4741-9	103
812	MOAP-1 Mediates Fas-Induced Apoptosis in Liver by Facilitating tBid Recruitment to Mitochondria. 2016 , 16, 174-185	14
811	Apoptosis-Inducing-Factor-Dependent Mitochondrial Function Is Required for T Cell but Not B Cell Function. 2016 , 44, 88-102	55
810	A polysaccharide from pumpkin induces apoptosis of HepG2 cells by activation of mitochondrial pathway. 2016 , 37, 5239-45	15
809	Caspase-independent cell death mediated by apoptosis-inducing factor (AIF) nuclear translocation is involved in ionizing radiation induced HepG2 cell death. 2016 , 472, 137-43	22
808	Murine breast carcinoma 4T1 cells are more sensitive to atranorin than normal epithelial NMuMG cells in vitro: Anticancer and hepatoprotective effects of atranorin in vivo. 2016 , 250, 27-37	10
807	Acetylation of p53 Protein at Lysine 120 Up-regulates Apaf-1 Protein and Sensitizes the Mitochondrial Apoptotic Pathway. 2016 , 291, 7386-95	25
806	Mitochondrial involvement in myocyte death and heart failure. 2016 , 21, 137-55	51
805	Deficiency in Apoptosis-Inducing Factor Recapitulates Chronic Kidney Disease via Aberrant Mitochondrial Homeostasis. 2016 , 65, 1085-98	34
804	Involvement of Aif1 in apoptosis triggered by lack of Hxk2 in the yeast Saccharomyces cerevisiae. 2016 , 16,	14
803	Infertility and recurrent miscarriage with complex II deficiency-dependent mitochondrial oxidative stress in animal models. 2016 , 155, 22-35	9
802	Novel role of 4-hydroxy-2-nonenal in AIFm2-mediated mitochondrial stress signaling. 2016 , 91, 68-80	26

801	Pre-administration of BAX-inhibiting peptides decrease the loss of the nigral dopaminergic neurons in rats. 2016 , 144, 113-20	8
800	Carnosic acid attenuates acute ethanol-induced liver injury via a SIRT1/p66Shc-mediated mitochondrial pathway. 2016 , 94, 416-25	8
799	In vitro antimetastatic activity of Agarwood (<i>Aquilaria crassna</i>) essential oils against pancreatic cancer cellsPeer review under responsibility of Alexandria University Faculty of Medicine.View all notesAvailable online 29 July 2015View all notes. 2016 , 52, 141-150	18
798	miR-711 upregulation induces neuronal cell death after traumatic brain injury. 2016 , 23, 654-68	57
797	A potential role of X-linked inhibitor of apoptosis protein in mitochondrial membrane permeabilization and its implication in cancer therapy. 2016 , 21, 38-47	35
796	Parkin loss-of-function pathology: Premature neuronal senescence induced by high levels of reactive oxygen species?. 2017 , 161, 112-120	9
795	Mitochondrial Mechanisms of Neuronal Cell Death: Potential Therapeutics. 2017 , 57, 437-454	88
794	TRIM14 is a Putative Tumor Suppressor and Regulator of Innate Immune Response in Non-Small Cell Lung Cancer. 2017 , 7, 39692	27
793	Two birds, one stone: dual targeting of the cancer cell surface and subcellular mitochondria by the galectin-3-binding peptide G3-C12. 2017 , 38, 806-822	23
792	Ferroptosis and cell death mechanisms in Parkinson's disease. 2017 , 104, 34-48	165
791	Selectively Inducing Cancer Cell Death by Intracellular Enzyme-Instructed Self-Assembly (EISA) of Dipeptide Derivatives. 2017 , 6, 1601400	41
790	TNF α Induced downregulation of microRNA-186 contributes to apoptosis in rat primary cardiomyocytes. 2017 , 222, 778-784	13
789	Induction of mitochondrial-dependent apoptosis in T24 cells by a selenium (Se)-containing polysaccharide from Ginkgo biloba L. leaves. 2017 , 101, 126-130	27
788	The UCP2-related mitochondrial pathway participates in rhin-induced apoptosis in HK-2 cells. 2017 , 6, 297-304	8
787	The role of mitochondria in metabolism and cell death. 2017 , 482, 426-431	294
786	Multiple Myeloma Tumor Cells are Selectively Killed by Pharmacologically-dosed Ascorbic Acid. 2017 , 18, 41-49	25
785	Glyceraldehyde-3-phosphate Dehydrogenase (GAPDH) Aggregation Causes Mitochondrial Dysfunction during Oxidative Stress-induced Cell Death. 2017 , 292, 4727-4742	36
784	Postmortem studies on mitochondria in schizophrenia. 2017 , 187, 17-25	46

783	Role of insulin-like growth factor 1 on cross-bred Bos indicus cattle germinal vesicle oocytes exposed to heat shock. 2017 , 29, 1405-1414	7
782	The PARP inhibitor olaparib enhances the cytotoxicity of combined gemcitabine, busulfan and melphalan in lymphoma cells. 2017 , 58, 2705-2716	5
781	Moderate therapeutic hypothermia induces multimodal protective effects in oxygen-glucose deprivation/reperfusion injured cardiomyocytes. 2017 , 35, 1-10	14
780	Flavonoids of Rosa roxburghii Tratt Exhibit Anti-Apoptosis Properties by Regulating PARP-1/AIF. 2017 , 118, 3943-3952	14
779	Neuroprotectin D1 upregulates Iduna expression and provides protection in cellular uncompensated oxidative stress and in experimental ischemic stroke. 2017 , 24, 1091-1099	33
778	How Studies of the Serotonin System in Macaque Models of Menopause Relate to Alzheimer's Disease1. 2017 , 57, 1001-1015	12
777	Induction of mitochondrial apoptotic pathway in triple negative breast carcinoma cells by methylglyoxal via generation of reactive oxygen species. 2017 , 56, 2086-2103	14
776	USP7 inhibition alters homologous recombination repair and targets CLL cells independently of ATM/p53 functional status. 2017 , 130, 156-166	41
775	Cyclin-dependent kinase 7 is a therapeutic target in high-grade glioma. 2017 , 6, e336	39
774	Haploinsufficiency in the mitochondrial protein CHCHD4 reduces brain injury in a mouse model of neonatal hypoxia-ischemia. 2017 , 8, e2781	14
773	Augmentation of the cytotoxic effects of zinc oxide nanoparticles by MTCP conjugation: Non-canonical apoptosis and autophagy induction in human adenocarcinoma breast cancer cell lines. 2017 , 78, 949-959	15
772	Contribution of caspase-independent pathway to apoptosis in malignant glioma induced by carbon ion beams. 2017 , 37, 2994-3000	5
771	Mitochondria-Associated Apoptosis in Human Melanoma Cells Induced by Cardanol Monoene from Cashew Nut Shell Liquid. 2017 , 65, 5620-5631	13
770	Anti-leukemia activity of a Hsp70 inhibitor and its hybrid molecules. 2017 , 7, 3537	8
769	A novel Ediminato manganeseIII complex as the promising anticancer agent induces G0/G1 cell cycle arrest and triggers apoptosis via mitochondrial-dependent pathways in MCF-7 and MDA-MB-231 human breast cancer cells. 2017 , 7, 24387-24398	17
768	A Lentinus edodes polysaccharide induces mitochondrial-mediated apoptosis in human cervical carcinoma HeLa cells. 2017 , 103, 676-682	25
767	Visualization and Inhibition of Mitochondria-Nuclear Translocation of Apoptosis Inducing Factor by a Graphene Oxide-DNA Nanosensor. 2017 , 89, 4642-4647	12
766	Paclitaxel induces apoptosis of esophageal squamous cell carcinoma cells by downregulating STAT3 phosphorylation at Ser727. 2017 , 37, 2237-2244	12

765	Mitochondrion: A Common Organelle for Distinct Cell Deaths?. 2017 , 331, 245-287	18
764	Addition of insulin-like growth factor I to the maturation medium of bovine oocytes subjected to heat shock: effects on the production of reactive oxygen species, mitochondrial activity and oocyte competence. 2017 , 60, 50-60	21
763	Regulation of mitochondrial structure and function by protein import: A current review. 2017 , 24, 107-122	15
762	The unfolded protein response in relation to mitochondrial biogenesis in skeletal muscle cells. 2017 , 312, C583-C594	13
761	mutation presenting with fatal encephalomyopathy and mitochondrial disease in an infant. 2017 , 3, a001560	22
760	Apoptosis-inducing factor (Aif1) mediates anacardic acid-induced apoptosis in <i>Saccharomyces cerevisiae</i> . 2017 , 22, 463-474	10
759	Ischemic Stroke Pathophysiology and Cell Therapy. 2017 , 1-36	
758	Role of Peroxynitrite-Induced Activation of Poly(ADP-Ribose) Polymerase (PARP) in Circulatory Shock and Related Pathological Conditions. 2017 , 17, 373-383	14
757	Potential mechanisms facilitating herpesvirus-induced nuclear remodeling: how are herpesvirus capsids able to leave the nucleus?. 2017 , 12, 583-592	
756	Mitochondrial Respiration Is Reduced in Atherosclerosis, Promoting Necrotic Core Formation and Reducing Relative Fibrous Cap Thickness. 2017 , 37, 2322-2332	73
755	A newly distal hereditary motor neuropathy caused by a rare AIFM1 mutation. 2017 , 18, 245-250	17
754	Concentration-Dependent Inner Retina Layer Damage and Optic Nerve Degeneration in a NMDA Model. 2017 , 63, 283-299	29
753	Identification of potential inhibitors of PARP-1, a regulator of caspase-independent cell death pathway, from <i>Withania somnifera</i> phytochemicals for combating neurotoxicity: A structure-based in-silico study. 2017 , 16, 1750062	7
752	Nutrient deprivation induces apoptosis of nucleus pulposus cells via activation of the BNIP3/AIF signalling pathway. 2017 , 16, 7253-7260	11
751	Arsenic trioxide exposure impairs testicular morphology in adult male mice and consequent fetus viability. 2017 , 80, 1166-1179	27
750	Peroxynitrite induces apoptosis of mouse cochlear hair cells via a Caspase-independent pathway in vitro. 2017 , 22, 1419-1430	9
749	Neuropathic pain attenuates ischemia reperfusion injury through α -adrenergic pathway. 2017 , 187, 9-16	1
748	The FAD synthetase from the human pathogen <i>Streptococcus pneumoniae</i> : a bifunctional enzyme exhibiting activity-dependent redox requirements. 2017 , 7, 7609	12

747	The inhibitory effect of MEG3/miR-214/AIFM2 axis on the growth of T-cell lymphoblastic lymphoma. 2017 , 51, 316-326	26
746	Structural bases of the altered catalytic properties of a pathogenic variant of apoptosis inducing factor. 2017 , 490, 1011-1017	6
745	The neuroprotective effect of hesperidin in NMDA-induced retinal injury acts by suppressing oxidative stress and excessive calpain activation. 2017 , 7, 6885	34
744	Photolyase: Dynamics and electron-transfer mechanisms of DNA repair. 2017 , 632, 158-174	39
743	Neurotoxicity of cGMP in the vertebrate retina: from the initial research on rd mutant mice to zebrafish genetic approaches. 2017 , 31, 88-101	16
742	Phenylarsine oxide (PAO) induces apoptosis in HepG2 cells via ROS-mediated mitochondria and ER-stress dependent signaling pathways. 2017 , 9, 1756-1764	27
741	Effect of Src Kinase inhibition on Cytochrome c, Smac/DIABLO and Apoptosis Inducing Factor (AIF) Following Cerebral Hypoxia-Ischemia in Newborn Piglets. 2017 , 7, 16664	10
740	6-Hydroxydopamine induces nuclear translocation of apoptosis inducing factor in nigral dopaminergic neurons in rat. 2017 , 13, 305-315	2
739	NADPH oxidase contributes to streptozotocin-induced neurodegeneration. 2017 , 358, 227-237	6
738	Cell Death Mechanisms of Neurodegeneration. 2017 , 15, 403-425	68
737	Influenza virus infection induces translocation of apoptosis-inducing factor (AIF) in A549 cells: role of AIF in apoptosis and viral propagation. 2017 , 162, 669-675	8
736	A Selenium-Modified Ginseng Polysaccharide Promotes the Apoptosis in Human Promyelocytic Leukemia (HL-60) Cells via a Mitochondrial-Mediated Pathway. 2017 , 177, 64-71	17
735	Apoptosis-inducing factor (AIF) nuclear translocation mediated caspase-independent mechanism involves in X-ray-induced MCF-7 cell death. 2017 , 93, 270-278	9
734	The hidden side of SERPINB1/Leukocyte Elastase Inhibitor. 2017 , 62, 178-186	24
733	Cell-cycle involvement in autophagy and apoptosis in yeast. 2017 , 161, 211-224	29
732	Potential role of Apoptosis Inducing Factor in evolutionarily significant eukaryote, Dictyostelium discoideum survival. 2017 , 1861, 2942-2955	12
731	The role of osteocytes during experimental orthodontic tooth movement: A review. 2017 , 73, 25-33	12
730	Apoptosis Inducing Factor Is Involved in Stretch-Induced Apoptosis of Myoblast via a Caspase-9 Independent Pathway. 2017 , 118, 829-838	11

729	Plasmon-enhanced Raman spectroscopic metrics for quantitative and dynamic assays of cell apoptosis and necrosis. 2017 , 8, 1243-1250	13
728	Protective effect of nicotinamide adenine dinucleotide (NAD) against spinal cord ischemia-reperfusion injury via reducing oxidative stress-induced neuronal apoptosis. 2017 , 36, 114-119	21
727	Stimulation of Anterior Thalamic Nucleus Protects Hippocampus Neural Injury in Kainic Acid-Induced Epileptic Rats. 2017 , 7,	
726	Molecular signature of anastasis for reversal of apoptosis. 2017 , 6, 43	19
725	Effects of exercise on obesity-induced mitochondrial dysfunction in skeletal muscle. 2017 , 21, 567-577	35
724	Cancer's Achilles' Heel: Apoptosis and Necroptosis to the Rescue. 2016 , 18,	53
723	AKT2 Blocks Nucleus Translocation of Apoptosis-Inducing Factor (AIF) and Endonuclease G (EndoG) While Promoting Caspase Activation during Cardiac Ischemia. 2017 , 18,	18
722	The Role of MicroRNAs in Myocardial Infarction: From Molecular Mechanism to Clinical Application. 2017 , 18,	108
721	Montelukast Induces Apoptosis-Inducing Factor-Mediated Cell Death of Lung Cancer Cells. 2017 , 18,	21
720	Mitochondria, Bioenergetics and Excitotoxicity: New Therapeutic Targets in Perinatal Brain Injury. 2017 , 11, 199	31
719	Calcium Phosphate Nanoparticles Cytocompatibility Versus Cytotoxicity: A Serendipitous Paradox. 2017 , 23, 2930-2951	7
718	Analysis of differentially expressed proteins in Muscovy duck embryo fibroblasts infected with virulent and attenuated Muscovy duck reovirus by two-dimensional polyacrylamide gel electrophoresis. 2017 , 79, 2063-2069	4
717	Alteration of mitochondrial biogenesis promotes disease progression in multiple myeloma. 2017 , 8, 111213-111224	24
716	Nanosecond-Pulsed DBD Plasma-Generated Reactive Oxygen Species Trigger Immunogenic Cell Death in A549 Lung Carcinoma Cells through Intracellular Oxidative Stress. 2017 , 18,	120
715	Discovery of a novel Nrf2 inhibitor that induces apoptosis of human acute myeloid leukemia cells. 2017 , 8, 7625-7636	23
714	Overexpression of apoptosis-inducing factor mitochondrion-associated 1 (AIFM1) induces apoptosis by promoting the transcription of caspase3 and DRAM in hepatoma cells. 2018 , 498, 453-457	18
713	The genomic tool-kit of the truffle programmed cell death. 2018 , 4, 32	1
712	Reactive cold plasma particles generate oxidative stress in yeast but do not trigger apoptosis. 2018 , 64, 367-375	3

711	WAH-1/AIF regulates mitochondrial oxidative phosphorylation in the nematode. 2018 , 4, 2	15
710	Melilotus indicus extract induces apoptosis in hepatocellular carcinoma cells via a mechanism involving mitochondria-mediated pathways. 2018 , 70, 831-842	4
709	Encyclopedia of Signaling Molecules. 2018 , 238-238	
708	Encyclopedia of Signaling Molecules. 2018 , 312-312	
707	Encyclopedia of Signaling Molecules. 2018 , 476-476	
706	Encyclopedia of Signaling Molecules. 2018 , 75-82	
705	Encyclopedia of Signaling Molecules. 2018 , 374-390	1
704	Co-administration of iRGD with peptide HPRP-A1 to improve anticancer activity and membrane penetrability. 2018 , 8, 2274	26
703	Inhibition of p53 prevents diabetic cardiomyopathy by preventing early-stage apoptosis and cell senescence, reduced glycolysis, and impaired angiogenesis. 2018 , 9, 82	40
702	Encyclopedia of Signaling Molecules. 2018 , 186-186	
701	Oxeiptosis, a ROS-induced caspase-independent apoptosis-like cell-death pathway. 2018 , 19, 130-140	110
700	Pharmacological targeting of HSP90 with 17-AAG induces apoptosis of myogenic cells through activation of the intrinsic pathway. 2018 , 445, 45-58	8
699	Discovery of antimicrobial compounds targeting bacterial type FAD synthetases. 2018 , 33, 241-254	14
698	Pneumolysin induced mitochondrial dysfunction leads to release of mitochondrial DNA. 2018 , 8, 182	32
697	AIF loss deregulates hematopoiesis and reveals different adaptive metabolic responses in bone marrow cells and thymocytes. 2018 , 25, 983-1001	31
696	Calpain and JNK pathways participate in isoflurane - induced nucleus translocation of apoptosis-inducing factor in the brain of neonatal rats. 2018 , 285, 60-73	10
695	Zoledronic acid overcomes chemoresistance by sensitizing cancer stem cells to apoptosis. 2018 , 93, 77-88	10
694	The role of suboptimal mitochondrial function in vulnerability to post-traumatic stress disorder. 2018 , 41, 585-596	19

693	Mitofusin-2 Triggers Cervical Carcinoma Cell Hela Apoptosis via Mitochondrial Pathway in Mouse Model. 2018 , 46, 69-81	18
692	Apoptosis-Inducing Factor (AIF) in Physiology and Disease: The Tale of a Repented Natural Born Killer. 2018 , 30, 29-37	90
691	Programmed Cell Death, from a Cancer Perspective: An Overview. 2018 , 22, 281-295	58
690	Reduced oxygen tension culturing conditionally alters toxicogenic response of differentiated H9c2 cardiomyoblasts to acrolein. 2018 , 28, 488-498	0
689	New therapeutic activity of metabolic enhancer piracetam in treatment of neurodegenerative disease: Participation of caspase independent death factors, oxidative stress, inflammatory responses and apoptosis. 2018 , 1864, 2078-2096	17
688	Metabolic Enhancer Piracetam Attenuates the Translocation of Mitochondrion-Specific Proteins of Caspase-Independent Pathway, Poly [ADP-Ribose] Polymerase 1 Up-regulation and Oxidative DNA Fragmentation. 2018 , 34, 198-219	3
687	Diverse roles of mitochondria in ischemic stroke. 2018 , 16, 263-275	165
686	Caspase-Dependent Apoptosis Induction via Viral Protein ORF4 of Porcine Circovirus 2 Binding to Mitochondrial Adenine Nucleotide Translocase 3. 2018 , 92,	19
685	Cell death in pure-neuronal and neuron-astrocyte mixed primary culture subjected to oxygen-glucose deprivation: The contribution of poly(ADP-ribose) polymerases and caspases. 2018 , 136, 215-222	4
684	Mutations in AIFM1 cause an X-linked childhood cerebellar ataxia partially responsive to riboflavin. 2018 , 22, 93-101	27
683	Suppressor of TCR signaling-2 (STS-2) suppresses arthritis development in mice. 2018 , 28, 626-636	1
682	The hypoxia-tolerant vertebrate brain: Arresting synaptic activity. 2018 , 224, 61-70	32
681	ERK regulates mitochondrial membrane potential in fission deficient Drosophila follicle cells during differentiation. 2018 , 434, 48-62	9
680	New metallo-therapeutics of NSAIDs against human breast cancer cells. 2018 , 143, 1687-1701	31
679	Three Types of Mixed Alkali-Metal-, Transition-Metal-, or Rare-Earth-Substituted Sandwich-Type Arsenotungstates with Supporting Rare-Earth Pendants. 2018 , 2018, 143-152	6
678	Anastasis: recovery from the brink of cell death. 2018 , 5, 180442	30
677	Biosynthesis of AgNPs in Plumbagin (5-hydroxy-2-methyl-1,4-naphthoquinone) (P-AgNPs) Using the Endophytic Fungus Fusarium solani Isolated from an Endangered Medicinal Plant Plumbago rosea and Their Anti Bacterial and Anticancer Activity on Human Breast Cancer Cells (MCF-7). 2018 , 63, 751-762	
676	Crystal structure and mutation analysis revealed that DREP2 CIDE forms a filament-like structure with features differing from those of DREP4 CIDE. 2018 , 8, 17810	4

675	The Anti-fibrotic Effect of Nilotinib on Tenon's Capsule Fibroblasts in Vitro. 2018 , 59, 549	1
674	Hypothermia and brain inflammation after cardiac arrest. 2018 , 4, 1-13	21
673	Control of Programmed Cell Death During Zebrafish Embryonic Development. 2018 ,	2
672	The Mitochondrion and Plant Programmed Cell Death. 2018 , 308-334	
671	TAK-733, a Selective MEK Inhibitor, Enhances Voreloxin-induced Apoptosis in Myeloid Leukemia Cells. 2018 , 38, 6147-6156	4
670	Parthanatos: Poly ADP Ribose Polymerase (PARP)-Mediated Cell Death. 2018 , 535-558	1
669	Mitochondria-targeted antioxidant therapy for an animal model of PCOS-IR. 2019 , 43, 316-324	28
668	Mitochondrial targeting as a novel therapy for stroke. 2018 , 4, 84-94	35
667	Depletion of the Receptor-Interacting Protein Kinase 3 (RIP3) Decreases Photoreceptor Cell Death During the Early Stages of Ocular Murine Cytomegalovirus Infection. 2018 , 59, 2445-2458	5
666	Apoptosis. 2018 , 362-403	1
665	p53- and ROS-mediated AIF pathway involved in TGEV-induced apoptosis. 2018 , 80, 1775-1781	10
664	Actinidia chinensis planch polysaccharide protects against hypoxia-induced apoptosis of cardiomyocytes in vitro. 2018 , 18, 193-201	1
663	Damage to dopaminergic neurons by oxidative stress in Parkinson's disease (Review). 2018 , 41, 1817-1825	102
662	Mitochondrien als potenzielle Zielstruktur in der Krebstherapie. 2018 , 50, 124-130	4
661	Induction of ER Stress-Mediated Apoptosis by the Major Component 5,7,4'-Trimethoxyflavone Isolated from Kaempferia parviflora Tea Infusion. 2018 , 70, 984-996	3
660	Mild Impairment of Mitochondrial OXPHOS Promotes Fatty Acid Utilization in POMC Neurons and Improves Glucose Homeostasis in Obesity. 2018 , 25, 383-397.e10	19
659	Modes of Chemically Induced Cell Death. 2018 , 229-253	0
658	Seminal plasma cell-free mitochondrial DNA copy number is associated with human semen quality. 2018 , 231, 164-168	8

657	Molecular Mechanisms Underlying Oxytosis. 2018 , 289-316	
656	Regulated Necrosis Orchestrates Microglial Cell Death in Manganese-Induced Toxicity. 2018 , 393, 206-225	22
655	General View of the Cytoplasmic and Nuclear Features of Apoptosis. 2018 , 1-12	
654	Resveratrol protects photoreceptors by blocking caspase- and PARP-dependent cell death pathways. 2018 , 129, 569-581	26
653	Molecular mechanisms of the action of Arctigenin in cancer. 2018 , 108, 403-407	32
652	Inhibition of liver mitochondrial membrane permeability transition pore opening by quercetin and vitamin E in streptozotocin-induced diabetic rats. 2018 , 504, 460-469	22
651	Methotrexate induced cell death mechanisms in MCF-7 adenocarcinoma breast cancer cells: Enhanced cytotoxicity following dff45-siRNA pre-treatment. 2018 , 7, 10-16	
650	Reinventing an Organelle: The Reduced Mitochondrion in Parasitic Protists. 2018 , 34, 1038-1055	33
649	Isx9 Regulates Calbindin D28K Expression in Pancreatic β Cells and Promotes β Cell Survival and Function. 2018 , 19,	4
648	Anti-breast-Cancer Activity Exerted by β Sitosterol-d-glucoside from Sweet Potato via Upregulation of MicroRNA-10a and via the PI3K-Akt Signaling Pathway. 2018 , 66, 9704-9718	21
647	Oxeiptosis-a cell death pathway to mitigate damage caused by radicals. 2018 , 25, 1191-1193	7
646	Hereditary sensory neuropathy type 1-associated deoxysphingolipids cause neurotoxicity, acute calcium handling abnormalities and mitochondrial dysfunction in vitro. 2018 , 117, 1-14	23
645	A disease-associated Aifm1 variant induces severe myopathy in knockin mice. 2018 , 13, 10-23	16
644	Ancestral State Reconstruction of the Apoptosis Machinery in the Common Ancestor of Eukaryotes. 2018 , 8, 2121-2134	16
643	A potential antiapoptotic regulation: The interaction of heat shock protein 70 and apoptosis-inducing factor mitochondrial 1 during heat stress and aestivation in sea cucumber. 2018 , 329, 103	3
642	AT 101 induces early mitochondrial dysfunction and HMOX1 (heme oxygenase 1) to trigger mitophagic cell death in glioma cells. 2018 , 14, 1693-1709	45
641	Alterations in the nucleocytoplasmic transport in apoptosis: Caspases lead the way. 2018 , 51, e12467	33
640	Salinity Responses and Tolerance in Plants, Volume 2. 2018 ,	1

639	Manipulating Programmed Cell Death Pathways for Enhancing Salinity Tolerance in Crops. 2018 , 93-118	2
638	Porcine deltacoronavirus induces caspase-dependent apoptosis through activation of the cytochrome c-mediated intrinsic mitochondrial pathway. 2018 , 253, 112-123	38
637	Polymeric micelles as a versatile tool in oral chemotherapy. 2018 , 293-329	4
636	Mitochondrial inner membrane protein (mitofilin) knockdown induces cell death by apoptosis via an AIF-PARP-dependent mechanism and cell cycle arrest. 2018 , 315, C28-C43	32
635	effects of arsenic trioxide, interferon γ and zidovudine in adult T cell leukemia/lymphoma cells. 2018 , 16, 1305-1311	4
634	Understanding the Role of Dysfunctional and Healthy Mitochondria in Stroke Pathology and Its Treatment. 2018 , 19,	15
633	Bufalin and 5-fluorouracil synergistically induce apoptosis in colorectal cancer cells. 2018 , 15, 8019-8026	7
632	Thiabendazole-based Rh(III) and Ir(III) biscyclometallated complexes with mitochondria-targeted anticancer activity and metal-sensitive photodynamic activity. 2018 , 157, 279-293	30
631	Selective basal ganglia vulnerability to energy deprivation: Experimental and clinical evidences. 2018 , 169, 55-75	13
630	Oxytosis/Ferroptosis-(Re-) Emerging Roles for Oxidative Stress-Dependent Non-apoptotic Cell Death in Diseases of the Central Nervous System. 2018 , 12, 214	131
629	Inhibition of Proliferation in U937 Cells Treated by Blue Light Irradiation and Combined Blue Light Irradiation/Drug. 2018 , 19,	3
628	Luteoloside Inhibits Proliferation and Promotes Intrinsic and Extrinsic Pathway-Mediated Apoptosis Involving MAPK and mTOR Signaling Pathways in Human Cervical Cancer Cells. 2018 , 19,	17
627	Deciphering the Molecular Mechanism Underlying the Inhibitory Efficacy of Taiwanese Local Pomegranate Peels against Urinary Bladder Urothelial Carcinoma. 2018 , 10,	7
626	ROS signalling in the biology of cancer. 2018 , 80, 50-64	703
625	Excitotoxic Programmed Cell Death Involves Caspase-Independent Mechanisms. 2018 , 3-17	2
624	Cyanidin Protects SH-SY5Y Human Neuroblastoma Cells from 1-Methyl-4-Phenylpyridinium-Induced Neurotoxicity. 2018 , 102, 126-132	13
623	Study on the apoptosis mediated by apoptosis-inducing-factor and influencing factors of bovine muscle during postmortem aging. 2018 , 266, 359-367	16
622	PM2.5 impairs neurobehavior by oxidative stress and myelin sheaths injury of brain in the rat. 2018 , 242, 994-1001	32

621	Involvement of Apoptosis-Inducing Factor (AIF) in Neuronal Cell Death Following Cerebral Ischemia. 2018 , 103-114	1
620	Role of Environmental Toxicants in Sperm Autophagy, Mitophagy, and Apoptosis. 2018 , 323-333	
619	DRP-1-mediated apoptosis induces muscle degeneration in dystrophin mutants. 2018 , 8, 7354	9
618	AIF promotes a JNK1-mediated cadherin switch independently of respiratory chain stabilization. 2018 , 293, 14707-14722	9
617	Nuclear apoptotic volume decrease in individual cells: Confocal microscopy imaging and kinetic modeling. 2018 , 454, 60-69	1
616	Homoeriodictyol protects human endothelial cells against oxidative insults through activation of Nrf2 and inhibition of mitochondrial dysfunction. 2018 , 109, 72-82	8
615	Role of Cell Death in Toxicology: Does It Matter How Cells Die?. 2019 , 59, 1-14	14
614	Annonaceous acetogenin mimic AA005 suppresses human colon cancer cell growth in vivo through downregulation of Mcl-1. 2019 , 40, 231-242	4
613	Fundamental Mechanisms of Regulated Cell Death and Implications for Heart Disease. 2019 , 99, 1765-1817	221
612	Harnessing ionic mechanisms to achieve disease modification in neurodegenerative disorders. 2019 , 147, 104343	4
611	Ex situ and in situ surface-enhanced Raman spectroscopy for macromolecular profiles of cell nucleus. 2019 , 411, 6021-6029	7
610	Identification of Chaetocin as a Potent non-ROS-mediated Anticancer Drug Candidate for Gastric Cancer. 2019 , 10, 3678-3690	8
609	FSH1 overexpression triggers apoptosis in <i>Saccharomyces cerevisiae</i> . 2019 , 112, 1775-1784	2
608	AIF: an acquired metabolic liability in lung cancer. 2019 , 29, 607-608	
607	Genes That Can Cause Cancer. 2019 ,	0
606	Glucose starvation-induced oxidative stress causes mitochondrial dysfunction and apoptosis via Prohibitin 1 upregulation in human breast cancer cells. 2019 , 145, 428-441	20
605	AEBP1 down regulation induced cell death pathway depends on PTEN status of glioma cells. 2019 , 9, 14577	8
604	Sweet taste receptor agonists alter ovarian functions and ovarian cycles in aged mice. 2019 , 19, 230-236	3

603	Coadministration of kla peptide with HPRP-A1 to enhance anticancer activity. 2019 , 14, e0223738	13
602	Clinical spectrum of AIFM1-associated disease in an Irish family, from mild neuropathy to severe cerebellar ataxia with colour blindness. 2019 , 24, 348-353	7
601	Decreased expression of apoptosis-inducing factor in renal cell carcinoma is associated with poor prognosis and reduced postoperative survival. 2019 , 18, 2805-2812	4
600	TRPM2 channel regulates cytokines production in astrocytes and aggravates brain disorder during lipopolysaccharide-induced endotoxin sepsis. 2019 , 75, 105836	12
599	Helienalin from <i>Centipeda minima</i> ameliorates acute hepatic injury by protecting mitochondria function, activating Nrf2 pathway and inhibiting NF- κ B activation. 2019 , 119, 109435	18
598	Targeting Reactive Oxygen Species in Cancer via Chinese Herbal Medicine. 2019 , 2019, 9240426	27
597	Resveratrol Protects against Restraint Stress Effects on Stomach and Spleen in Adult Male Mice. 2019 , 9,	4
596	Effects of Fludioxonil on the Cell Growth and Apoptosis in T and B Lymphocytes. 2019 , 9,	5
595	Apoptosis and apoptotic body: disease message and therapeutic target potentials. 2019 , 39,	177
594	The combination of ascorbate and menadione causes cancer cell death by oxidative stress and replicative stress. 2019 , 134, 350-358	26
593	Ran1 is essential for parental macronuclear import of apoptosis-inducing factor and programmed nuclear death in <i>Tetrahymena thermophila</i> . 2019 , 286, 913-929	1
592	LZ-101, a novel derivative of danofloxacin, induces mitochondrial apoptosis by stabilizing FOXO3a via blocking autophagy flux in NSCLC cells. 2019 , 10, 484	8
591	Caspase/AIF/apoptosis pathway: a new target of puerarin for diabetes mellitus therapy. 2019 , 46, 4787-4797	13
590	Characterization and Inception of a Triterpenoid Astrakurkurool, as a Cytotoxic Molecule on Human Hepatocellular Carcinoma Cells, Hep3B. 2019 , 67, 7660-7673	5
589	CHTM1 regulates cancer cell sensitivity to metabolic stress via p38-AIF1 pathway. 2019 , 38, 271	
588	Enrichment of novel quinazoline derivatives with high antitumor activity in mitochondria tracked by its self-fluorescence. 2019 , 178, 417-432	9
587	AIF-regulated oxidative phosphorylation supports lung cancer development. 2019 , 29, 579-591	31
586	Alternative splicing in human cancer cells is modulated by the amiloride derivative 3,5-diamino-6-chloro-N-(N-(2,6-dichlorobenzoyl)carbamimidoyl)pyrazine-2-carboxide. 2019 , 13, 1744-1762	3

585	Both GSK-3 β /CRMP2 and CDK5/CRMP2 pathways participate in the protection of dexmedetomidine against propofol-induced learning and memory impairment in neonatal rats. 2019 ,	15
584	Mitochondrial Entry of Cytotoxic Proteases: A New Insight into the Granzyme B Cell Death Pathway. 2019 , 2019, 9165214	18
583	Diagnostic Yields of Trio-WES Accompanied by CNVseq for Rare Neurodevelopmental Disorders. 2019 , 10, 485	13
582	Human sperm motility: a molecular study of mitochondrial DNA, mitochondrial transcription factor A gene and DNA fragmentation. 2019 , 46, 4113-4121	9
581	An -Specific Mitosomal Membrane Protein with Potential Association to the Golgi Apparatus. 2019 , 10,	6
580	Cytotoxic Acetogenins from the Roots of. 2019 , 20,	9
579	Ziyuglycoside II induces caspases-dependent and caspases-independent apoptosis in human colon cancer cells. 2019 , 59, 255-262	12
578	Downregulation of microRNA-425-5p suppresses cervical cancer tumorigenesis by targeting AIFM1. 2019 , 17, 4032-4038	7
577	Expression, purification, and mitochondrial interaction analysis of full-length and truncated human tumor suppressor p53. 2019 , 83, 1220-1226	2
576	Cell Death: Many Causes and Many Effects. 2019 , 105-149	
575	Histone H1 quantity determines the efficiency of chromatin condensation in both apoptotic and live cells. 2019 , 512, 202-207	2
574	MicroRNA-124 improves functional recovery and suppresses Bax-dependent apoptosis in rats following spinal cord injury. 2019 , 19, 2551-2560	14
573	Neuroprotective mechanisms of dieckol against glutamate toxicity through reactive oxygen species scavenging and nuclear factor-like 2/heme oxygenase-1 pathway. 2019 , 23, 121-130	14
572	Mitophagy regulates mitochondrial network signaling, oxidative stress, and apoptosis during myoblast differentiation. 2019 , 15, 1606-1619	69
571	Comprehensive Analysis of the Global Protein Changes That Occur During Salivary Gland Degeneration in Female Ixodid Ticks. 2018 , 9, 1943	14
570	Ginsenoside Rb2 suppresses the glutamate-mediated oxidative stress and neuronal cell death in HT22 cells. 2019 , 43, 326-334	38
569	The graviola impact on human astrogloma cells: functional significance of MUDENG.. 2019 , 9, 8935-8942	4
568	Natural Resource Management: Ecological Perspectives. 2019 ,	2

567	An Approach to Cancer Risk Assessment and Carcinogenic Potential for Three Classes of Agricultural Pesticides. 2019 , 109-132	3
566	Resveratrol inhibits aflatoxin B1-induced oxidative stress and apoptosis in bovine mammary epithelial cells and is involved the Nrf2 signaling pathway. 2019 , 164, 10-15	24
565	The molecular machinery of regulated cell death. 2019 , 29, 347-364	583
564	Mechanical insights into the regulation of programmed cell death by p53 via mitochondria. 2019 , 1866, 839-848	21
563	Diclofenac conjugates with biocides through silver(I) ions (CoMeD's); Development of a reliable model for the prediction of anti-proliferation of NSAID's-silver formulations. 2019 , 194, 7-18	16
562	FSH3 mediated cell death is dependent on NUC1 in <i>Saccharomyces cerevisiae</i> . 2019 , 19,	6
561	Unravelling the first key steps in equine herpesvirus type 5 (EHV5) pathogenesis using ex vivo and in vitro equine models. 2019 , 50, 13	8
560	Parkin Interacts with Apoptosis-Inducing Factor and Interferes with Its Translocation to the Nucleus in Neuronal Cells. 2019 , 20,	3
559	Non steroidal anti-inflammatory drug (NSAIDs) in breast cancer chemotherapy; antimony(V) salicylate a DNA binder. 2019 , 489, 39-47	13
558	The LIV-1-GRPEL1 axis adjusts cell fate during anti-mitotic agent-damaged mitosis. 2019 , 49, 26-39	1
557	Raman observation of a molecular signaling pathway of apoptotic cells induced by photothermal therapy. 2019 , 10, 10900-10910	12
556	Metabolomics and Age-Related Macular Degeneration. 2018 , 9,	21
555	Nucleus-localized adiponectin is survival gatekeeper through miR-214-mediated AIFM2 regulation. 2019 , 24, 126-138	6
554	Redox- and Ligand Binding-Dependent Conformational Ensembles in the Human Apoptosis-Inducing Factor Regulate Its Pro-Life and Cell Death Functions. 2019 , 30, 2013-2029	9
553	Cell Death Mechanisms in a Mouse Model of Retinal Degeneration in Spinocerebellar Ataxia 7. 2019 , 400, 72-84	4
552	<i>Spodoptera litura</i> cyclophilin A is required for <i>Microplitis bicoloratus</i> bracovirus-induced apoptosis during insect cellular immune response. 2019 , 100, e21534	3
551	Lack of the brain-specific isoform of apoptosis-inducing factor aggravates cerebral damage in a model of neonatal hypoxia-ischemia. 2018 , 10, 3	12
550	Oxeiptosis: a discreet way to respond to radicals. 2019 , 56, 37-43	10

549	Proteins' Knotty Problems. 2019 , 431, 244-257	17
548	Ceramide Induces the Death of Retina Photoreceptors Through Activation of Parthanatos. 2019 , 56, 4760-4777	19
547	Apoptosis, reactive oxygen species and DNA damage in Familial Mediterranean Fever patients. 2019 , 14, 76-80	1
546	Mitochondrion-Targeting Identification of a Fluorescent Apoptosis-Triggering Molecule by Mass Spectrometry Elucidates Drug Tracking. 2019 , 20, 778-784	1
545	Apoptosis inducing factor deficiency causes retinal photoreceptor degeneration. The protective role of the redox compound methylene blue. 2019 , 20, 107-117	13
544	The development of the concept of ferroptosis. 2019 , 133, 130-143	284
543	Evidence for altered excitatory and inhibitory tone in the post-mortem substantia nigra in schizophrenia. 2020 , 21, 339-356	7
542	Impact of the redox state of flavin chromophores on the UV-Vis spectra, redox and acidity constants and electron affinities. 2020 , 387, 112164	10
541	The NADH Dehydrogenase Nde1 Executes Cell Death after Integrating Signals from Metabolism and Proteostasis on the Mitochondrial Surface. 2020 , 77, 189-202.e6	24
540	Gene networks and toxicity/detoxification pathways in juvenile largemouth bass (<i>Micropterus salmoides</i>) liver induced by acute lead stress. 2020 , 112, 20-31	5
539	Mitochondria as a therapeutic target for ischemic stroke. 2020 , 146, 45-58	59
538	Age-related macular degeneration: A two-level model hypothesis. 2020 , 76, 100825	58
537	Apoptotic Markers in the Midbrain of the Human Neonate After Perinatal Hypoxic/Ischemic Injury. 2020 , 79, 86-101	1
536	Oxyresveratrol drives caspase-independent apoptosis-like cell death in MDA-MB-231 breast cancer cells through the induction of ROS. 2020 , 173, 113724	14
535	Mechanisms of Cell Death. 2020 , 135-153	
534	TRPM2 ion channel is involved in the aggravation of cognitive impairment and down regulation of epilepsy threshold in pentylenetetrazole-induced kindling mice. 2020 , 155, 48-60	8
533	Insights into mechanisms of pranoprofen-induced apoptosis and necroptosis in human corneal stromal cells. 2020 , 320, 9-18	4
532	Pattern of Neuronal and Axonal Damage, Glial Response, and Synaptic Changes in Rat Cerebellum within the First Week following Traumatic Brain Injury. 2020 , 79, 1163-1182	2

531	Anticancer Effects of Honokiol via Mitochondrial Dysfunction Are Strongly Enhanced by the Mitochondria-Targeting Carrier Berberine. 2020 , 63, 11786-11800	11
530	De Novo Development of a Quantitative Adverse Outcome Pathway (qAOP) Network for Ultraviolet B (UVB) Radiation Using Targeted Laboratory Tests and Automated Data Mining. 2020 , 54, 13147-13156	11
529	Synthesis and biological evaluation of chalcone derivatives as neuroprotective agents against glutamate-induced HT22 mouse hippocampal neuronal cell death. 2020 , 30, 127597	1
528	Carotenoid metabolism in mitochondrial function. 2020 , 4, 115-122	1
527	High Frequency of Variants and Phenotype Progression of Auditory Neuropathy in a Chinese Population. 2020 , 2020, 5625768	2
526	Skeletal Phenotypes Due to Abnormalities in Mitochondrial Protein Homeostasis and Import. 2020 , 21,	1
525	The expanding genetic landscape of hereditary motor neuropathies. 2020 , 143, 3540-3563	1
524	Cell Death Mechanisms Induced by CLyTA-DAAO Chimeric Enzyme in Human Tumor Cell Lines. 2020 , 21,	6
523	An Model of Human Retinal Detachment Reveals Successive Death Pathway Activations. 2020 , 14, 571293	2
522	Combined the SMAC mimetic and BCL2 inhibitor sensitizes neoadjuvant chemotherapy by targeting necrosome complexes in tyrosine aminoacyl-tRNA synthase-positive breast cancer. 2020 , 22, 130	2
521	Making Connections: p53 and the Cathepsin Proteases as Co-Regulators of Cancer and Apoptosis. 2020 , 12,	8
520	Symbiotic Origin of Apoptosis. 2020 , 69, 253-280	1
519	Expression pattern of apoptosis-inducing factor in the kidneys of streptozotocin-induced diabetic rats. 2020 , 122, 151655	3
518	Voluntary exercise training attenuated the middle-aged maturity-induced cardiac apoptosis. 2020 , 259, 118187	2
517	Irradiation-Induced Upregulation of miR-711 Inhibits DNA Repair and Promotes Neurodegeneration Pathways. 2020 , 21,	3
516	Oxidation of apoptosis-inducing factor (AIF) to disulfide-linked conjugates. 2020 , 692, 108515	0
515	Extracellular Vesicles Derived From Apoptotic Cells: An Essential Link Between Death and Regeneration. 2020 , 8, 573511	11
514	Physiological Ca Transients Versus Pathological Steady-State Ca Elevation, Who Flips the ROS Coin in Skeletal Muscle Mitochondria. 2020 , 11, 595800	7

513	Fiber-Specific Changes in White Matter Microstructure in Individuals With X-Linked Auditory Neuropathy. 2020 , 41, 1703-1714	2
512	SAM50, a side door to the mitochondria: The case of cytotoxic proteases. 2020 , 160, 105196	5
511	The human papillomavirus E6 protein targets apoptosis-inducing factor (AIF) for degradation. 2020 , 10, 14195	4
510	Heat Shock Protein 70 (HSP70) Induction: Chaperonotherapy for Neuroprotection after Brain Injury. 2020 , 9,	16
509	Next-Generation Sequencing Reveals Downregulation of the Wnt Signaling Pathway in Human Dysmature Cumulus Cells as a Hallmark for Evaluating Oocyte Quality. 2020 , 1, 205-215	1
508	Cerebellar ataxia, neuropathy, hearing loss, and intellectual disability due to AIFM1 mutation. 2020 , 6, e420	4
507	Mitochondria-mediated Caspase-dependent and Caspase-independent apoptosis induced by aqueous extract from Moringa oleifera leaves in human melanoma cells. 2020 , 47, 3675-3689	9
506	Redox modulation of muscle mass and function. 2020 , 35, 101531	10
505	The Phenomenon of Compensatory Cell Proliferation in Olfactory Epithelium in Fish Caused by Prolonged Exposure to Natural Odorants. 2020 , 10, 8908	2
504	Organelle-targeting metal anticancer agents. 2020 , 75, 287-337	7
503	Poly (ADP-ribose) (PAR)-dependent cell death in neurodegenerative diseases. 2020 , 353, 1-29	26
502	Exosome-mediated apoptosis pathway during WSSV infection in crustacean mud crab. 2020 , 16, e1008366	13
501	Mitochondria: A Galaxy in the Hematopoietic and Leukemic Stem Cell Universe. 2020 , 21,	11
500	Elimination of a Retinal Riboflavin Binding Protein Exacerbates Degeneration in a Model of Cone-Rod Dystrophy. 2020 , 61, 17	3
499	Estrogen receptors participate in silibinin-caused nuclear translocation of apoptosis-inducing factor in human breast cancer MCF-7 cells. 2020 , 689, 108458	4
498	DMSO supplementation during in vitro maturation of bovine oocytes improves blastocyst rate and quality. 2020 , 148, 140-148	4
497	B-Cell Lymphoma 2 (Bcl-2) and Regulation of Apoptosis after Traumatic Brain Injury: A Clinical Perspective. 2020 , 56,	4
496	Miclxin, a Novel MIC60 Inhibitor, Induces Apoptosis via Mitochondrial Stress in E-Catenin Mutant Tumor Cells. 2020 , 15, 2195-2204	0

495	Shotgun proteomics analysis reveals sub-lethal effects in <i>Daphnia magna</i> exposed to cell-bound microcystins produced by <i>Microcystis aeruginosa</i> . 2020 , 33, 100656	9
494	Attenuated <i>Salmonella</i> engineered with an apoptosis-inducing factor (AIF) eukaryotic expressing system enhances its anti-tumor effect in melanoma in vitro and in vivo. 2020 , 104, 3517-3528	4
493	AIF meets the CHCHD4/Mia40-dependent mitochondrial import pathway. 2020 , 1866, 165746	19
492	Synthesis and biological evaluation of isoliquiritigenin derivatives as a neuroprotective agent against glutamate mediated neurotoxicity in HT22 cells. 2020 , 30, 127058	4
491	Activatable selenium-containing fluorescent apoptotic agent for biosensing and tracing cancer cell apoptosis. 2020 , 311, 127915	5
490	Effect and mechanism of YB-1 knockdown on glioma cell growth, migration, and apoptosis. 2020 , 52, 168-179	5
489	In situ and ex situ surface-enhanced Raman spectroscopy (SERS) analysis of cell mitochondria. 2020 , 51, 602-610	4
488	Arylquin 1, a potent Par-4 secretagogue, induces lysosomal membrane permeabilization-mediated non-apoptotic cell death in cancer cells. 2020 , 36, 167-173	10
487	Benzylideneacetone and other phenylethylamide bacterial metabolites induce apoptosis to kill insects. 2020 , 23, 449-457	5
486	Sensitizing activities of nitric oxide donors for cancer resistance to anticancer therapeutic drugs. 2020 , 176, 113913	13
485	Proteomic Level Changes on Treatment in MCF-7/DDP Breast Cancer Drug- Resistant Cells. 2020 , 20, 687-699	1
484	Mitophagy: An Emerging Role in Aging and Age-Associated Diseases. 2020 , 8, 200	84
483	Phenolic Extraction of Leaves Induces Caspase-Dependent and Caspase-Independent Apoptosis through the Generation of Reactive Oxygen Species and the Activation of Intrinsic Mitochondrial Pathway in Human Melanoma Cells. 2021 , 73, 869-888	6
482	Chemotherapeutic and prophylactic antimalarial drugs induce cell death through mitochondrial-mediated apoptosis in murine models. 2021 , 44, 47-57	6
481	Exploring the contribution of mitochondrial dynamics to multiple acyl-CoA dehydrogenase deficiency-related phenotype. 2021 , 127, 210-216	1
480	Apoptosis-inducing factor deficient mice fail to develop hepatic steatosis under high fat high fructose diet or bile duct ligation. 2021 , 39, 296-307	
479	ESCRT-III-mediated membrane repair in cell death and tumor resistance. 2021 , 28, 1-4	24
478	The apoptosis-inducing factor family: Moonlighting proteins in the crosstalk between mitochondria and nuclei. 2021 , 73, 568-581	3

477	Hexavalent chromium-induced apoptosis in Hep3B cells is accompanied by calcium overload, mitochondrial damage, and AIF translocation. 2021 , 208, 111391	8
476	Mitochondrial dysfunction in schizophrenia: With a focus on postmortem studies. 2021 , 56, 91-101	9
475	Severe congenital neutropenia-associated JAGN1 mutations unleash a calpain-dependent cell death programme in myeloid cells. 2021 , 192, 200-211	3
474	Mitochondrial protein import dysfunction: mitochondrial disease, neurodegenerative disease and cancer. 2021 , 595, 1107-1131	13
473	Dihydrolipoamide dehydrogenase moonlighting activity as a DNA chelating agent. 2020 ,	3
472	Ginger extract activates caspase independent paraptosis in cancer cells via ER stress, mitochondrial dysfunction, AIF translocation and DNA damage. 2021 , 73, 147-159	12
471	Mir-573 regulates cell proliferation and apoptosis by targeting Bax in human degenerative disc cells following hyperbaric oxygen treatment. 2021 , 16, 16	2
470	Role of apoptosis-inducing factor in perinatal hypoxic-ischemic brain injury. 2021 , 16, 205-213	3
469	Ferroptosis: mechanisms, biology and role in disease. 2021 , 22, 266-282	371
468	Development of the phenylpyrazolo[3,4-]pyrimidine-based, insulin-like growth factor receptor/Src/AXL-targeting small molecule kinase inhibitor. 2021 , 11, 1918-1936	4
467	Analysis of Proapoptotic Protein Trafficking to and from Mitochondria. 2021 , 2310, 161-178	0
466	Mitochondrial contribution to cell death. 2021 , 49-60	
465	Mitochondrial Translation Deficiencies. 2021 , 95-117	
464	Ferroptosis-Related Flavoproteins: Their Function and Stability. 2021 , 22,	1
463	FRA-1 suppresses apoptosis of Helicobacter pylori infected MGC-803 cells. 2021 , 48, 611-621	1
462	Investigating the pre-lethal cytotoxic effects of bis(2,4-di-tert-butylphenyl)phosphate on Chinese hamster ovary cells using high content analysis. 2021 , 328, 59-71	
461	Exercise triggers CAPN1-mediated AIF truncation, inducing myocyte cell death in arrhythmogenic cardiomyopathy. 2021 , 13,	15
460	Long non-coding RNA MALAT1 plays a protective role in bronchopulmonary dysplasia via the inhibition of apoptosis and interaction with the Keap1/Nrf2 signal pathway. 2021 , 10, 265-275	2

459	Scaling concepts in 6mics: nuclear lamin-B scales with tumor growth and predicts poor prognosis, whereas fibrosis can be pro-survival.	0
458	Molecular characterization and functional analysis of apoptosis-inducing factor (AIF) in palmitic acid-induced apoptosis in <i>Ctenopharyngodon idellus</i> kidney (CIK) cells. 2021 , 47, 213-224	2
457	Mitochondrial Dysfunction and Oxidative Stress Caused by Cryopreservation in Reproductive Cells. 2021 , 10,	18
456	OTUD1 Activates Caspase-Independent and Caspase-Dependent Apoptosis by Promoting AIF Nuclear Translocation and MCL1 Degradation. 2021 , 8, 2002874	9
455	Nitrogen, Amino Acids, and Carbon as Control Factors of Riboflavin Production by <i>Novosphingobium panipatense</i> -SR3 (MT002778). 2021 , 78, 1577-1589	1
454	Protective effect of fermented <i>Diospyros lotus</i> L. extracts against the high glucose-induced apoptosis of MIN6 cells. 2021 , 45, e13685	1
453	Supramolecular Self-Assembly-Facilitated Aggregation of Tumor-Specific Transmembrane Receptors for Signaling Activation and Converting Immunologically Cold to Hot Tumors. 2021 , 33, e2008518	18
452	Molecular characterization of a complex of Apoptosis Inducing Factor 1 (AIFM1) with cytochrome c oxidase of the mitochondrial respiratory chain.	
451	The mitochondrial intermembrane space: the most constricted mitochondrial sub-compartment with the largest variety of protein import pathways. 2021 , 11, 210002	7
450	Human OVCA2 and its homolog FSH3-induced apoptosis in <i>Saccharomyces cerevisiae</i> . 2021 , 67, 631-640	0
449	OSU-03012 Disrupts Akt Signaling and Prevents Endometrial Carcinoma Progression in vitro and in vivo. 2021 , 15, 1797-1810	1
448	Exercise-induced sudden cardiac death is caused by mitochondrio-nuclear translocation of AIF. 2021 , 12, 383	
447	AIF3 splicing switch triggers neurodegeneration. 2021 , 16, 25	0
446	Liposomal doxorubicin targeting mitochondria: A novel formulation to enhance anti-tumor effects of Doxil® in vitro and in vivo. 2021 , 62, 102351	2
445	Ferroptosis and its potential as a therapeutic target. 2021 , 186, 114486	18
444	The Mia40/CHCHD4 Oxidative Folding System: Redox Regulation and Signaling in the Mitochondrial Intermembrane Space. 2021 , 10,	5
443	The role of cGMP-signalling and calcium-signalling in photoreceptor cell death: perspectives for therapy development. 2021 , 473, 1411-1421	6
442	Riboflavin in Neurological Diseases: A Narrative Review. 2021 , 41, 513-527	8

441	Research progress on transient receptor potential melastatin 2 channel in nervous system diseases. 2021 , 50, 267-276	1
440	Dual Regeneration of Muscle and Nerve by Intramuscular Infusion of Mitochondria in a Nerve Crush Injury Model. 2021 , 89, E49-E59	0
439	Mitochondrial CHCHD2: Disease-Associated Mutations, Physiological Functions, and Current Animal Models. 2021 , 13, 660843	2
438	Nutrire. 2021 , 46,	
437	Xanthohumol-Induced Rat Glioma C6 Cells Death by Triggering Mitochondrial Stress. 2021 , 22,	1
436	Identifying Genes Devoted to the Cell Death Process in the Gene Regulatory Network of. 2021 , 12, 680290	2
435	Perfluoroalkyl substance pollutants activate the innate immune system through the AIM2 inflammasome. 2021 , 12, 2915	8
434	Mechanisms of Regulated Cell Death: Current Perspectives. 2021 , 58, 596-623	7
433	Mechanistic connections between mitochondrial biology and regulated cell death. 2021 , 56, 1221-1233	6
432	Transcriptional Profiling of Porcine Blastocysts Produced In Vitro in a Chemically Defined Culture Medium. 2021 , 11,	0
431	Caspase-14-From Biomolecular Basics to Clinical Approach. A Review of Available Data. 2021 , 22,	3
430	Excessively Enlarged Mitochondria in the Kidneys of Diabetic Nephropathy. 2021 , 10,	2
429	Phosphorylation-Dependent Interactome of Ryanodine Receptor Type 2 in the Heart. 2021 , 9,	1
428	Mitophagy in Cerebral Ischemia and Ischemia/Reperfusion Injury. 2021 , 13, 687246	10
427	Repurposing of Clinically Approved Poly-(ADP-Ribose) Polymerase Inhibitors for the Therapy of Sepsis. 2021 , 56, 901-909	3
426	Regulation of Cell Death Induced by Acetic Acid in Yeasts. 2021 , 9, 642375	6
425	Ferroptosis in Different Pathological Contexts Seen through the Eyes of Mitochondria. 2021 , 2021, 5537330	10
424	Role of Cell Death in Cellular Processes During Odontogenesis. 2021 , 9, 671475	1

423	Triphenylphosphonium-functionalized nanocomposites as carriers of a platinum diimine complex for photodynamic therapy. 2021 , 34, 102223	2
422	Severe multisystem pathology, metabolic acidosis, mitochondrial dysfunction, and early death associated with an X-linked variant. 2021 , 7,	0
421	Induction of mitochondrial apoptosis pathway mediated through caspase-8 and c-Jun N-terminal kinase by cadmium-activated Fas in rat cortical neurons. 2021 , 13,	2
420	Puerarin Attenuates Cadmium-Induced Neuronal Injury via Stimulating Cadmium Excretion, Inhibiting Oxidative Stress and Apoptosis. 2021 , 11,	1
419	Molecular Insights into Mitochondrial Protein Translocation and Human Disease. 2021 , 12,	0
418	The Role of Caspase-12 in Retinal Bystander Cell Death and Innate Immune Responses against MCMV Retinitis. 2021 , 22,	1
417	Protective effect of lipoic acid modification on brain dysfunctions of mice induced by mesoporous silica nanoparticles. 2021 , 415, 128957	2
416	Novel Post-Translational Modifications and Molecular Substrates in Glioma Identified by Bioinformatics. 2021 , 25, 463-473	2
415	Nuclear HKII-P-p53 (Ser15) Interaction is a Prognostic Biomarker for Chemoresponsiveness and Glycolytic Regulation in Epithelial Ovarian Cancer. 2021 , 13,	0
414	Cell death in pancreatic cancer: from pathogenesis to therapy. 2021 , 18, 804-823	27
413	NLRP3 inflammasome activation and cell death. 2021 , 18, 2114-2127	43
412	Design, Optimization, and Structural Characterization of an Apoptosis-Inducing Factor Peptide Targeting Human Cyclophilin A to Inhibit Apoptosis Inducing Factor-Mediated Cell Death. 2021 , 64, 11445-11459	3
411	Targeting of eIF6-driven translation induces a metabolic rewiring that reduces NAFLD and the consequent evolution to hepatocellular carcinoma. 2021 , 12, 4878	5
410	Evaluation of cytotoxicity and potential toxicity of the extract from cultivated Lindl. 2021 , 84, 987-1003	1
409	Organelle-specific regulation of ferroptosis. 2021 , 28, 2843-2856	14
408	Cell death modulation by transient receptor potential melastatin channels TRPM2 and TRPM7 and their underlying molecular mechanisms. 2021 , 190, 114664	4
407	Mitochondrial Dynamics: A Potential Therapeutic Target for Ischemic Stroke. 2021 , 13, 721428	7
406	Molecular characterization of a complex of apoptosis-inducing factor 1 with cytochrome c oxidase of the mitochondrial respiratory chain. 2021 , 118,	5

405	Inhibition of extracellular regulated kinase (ERK)-1/2 signaling pathway in the prevention of ALS: Target inhibitors and influences on neurological dysfunctions. 2021 , 100, 151179	2
404	New therapeutic strategy: Personalization of pancreatic cancer treatment-irreversible electroporation (IRE), electrochemotherapy (ECT) and calcium electroporation (CaEP) - A pilot preclinical study. 2021 , 38, 101634	2
403	Cell death mechanisms involved in cell injury caused by SARS-CoV-2. 2021 , e2292	5
402	Redox-Mediated Regulation of Mitochondrial Biogenesis, Dynamics, and Respiratory Chain Assembly in Yeast and Human Cells. 2021 , 9, 720656	4
401	Human mitochondrial protein complexes revealed by large-scale coevolution analysis and deep learning-based structure modeling.	0
400	Mitochondrial DNA Haplogroup Related to the Prevalence of. 2021 , 10,	
399	Selective prototropism of lumichrome in the liposome/graphene oxide interface: A detailed spectroscopic study. 2021 , 339, 116738	
398	Staurosporine-induced cleavage of apoptosis-inducing factor in human fibrosarcoma cells is independent of matrix metalloproteinase-2. 2021 ,	
397	W196 and the -Hairpin Motif Modulate the Redox Switch of Conformation and the Biomolecular Interaction Network of the Apoptosis-Inducing Factor. 2021 , 2021, 6673661	0
396	A large-scale study of ionic liquids employed in chemistry and energy research to reveal cytotoxicity mechanisms and to develop a safe design guide. 2021 , 23, 6414-6430	6
395	PARP and the Release of Apoptosis-Inducing Factor from Mitochondria. 2006 , 103-117	3
394	Cell Clearance and Cancer. 2005 , 51-84	2
393	Cell survival signaling during apoptosis: implications in drug resistance and anti-cancer therapeutic development. 2005 , 63, 115-45	1
392	The Biology of Caspases in Central Nervous System Trauma. 2007 , 515-550	1
391	Programmed Neuronal Cell Death Mechanisms in CNS Injury. 2010 , 169-200	4
390	Significant Role of Apoptosis-Inducing Factor (AIF) for Brain Damage Following Focal Cerebral Ischemia. 2010 , 91-101	1
389	BCL-2 family members and mitochondria. 2000 , 71-90	1
388	Modeling Mitochondrial Dysfunction in Neurodegenerative Disease. 2012 , 193-212	1

387	Hsp70 and Hsp27 as pharmacological targets in apoptosis modulation for cancer therapy. 2007 , 209-230	2
386	Rational design of therapeutics targeting the BCL-2 family: are some cancer cells primed for death but waiting for a final push?. 2008 , 615, 159-75	18
385	9-O-Acetyl GD3 in lymphoid and erythroid cells. 2011 , 705, 317-34	1
384	ER Calcium and ER Chaperones: New Players in Apoptosis?. 2003 , 133-141	3
383	Signaling in the Aging Heart. 2011 , 221-243	1
382	Stress Induced Mutagenesis, Genetic Diversification, and Cell Survival via Anastasis, the Reversal of Late Stage Apoptosis. 2013 , 223-241	1
381	Mitochondrial Calpains: Who, What, Where, When and Why?. 2013 , 21-32	1
380	Mitochondrial Regulation of Cell-Death. 2013 , 33-60	1
379	Neuronal survival and cell death signaling pathways. 2002 , 513, 41-86	40
378	Biological reactive intermediates and mechanisms of cell death. 2001 , 500, 1-10	7
377	Caspase cascades in chemically-induced apoptosis. 2001 , 500, 407-20	19
376	A2E Inhibits Mitochondrial Function, Causes the Release of Pro-Apoptotic Proteins and Induces Apoptosis in Mammalian Cells. 2001 , 223-233	1
375	Apoptosis. 2001 , 199-230	2
374	Neuronal cell death: an overview of its different forms in central and peripheral neurons. 2015 , 1254, 1-18	13
373	In Vivo and In Vitro Immunohistochemical Visualization of Neural Cell Apoptosis and Autophagy. 2015 , 153-178	1
372	On The Suppression of Photoreceptor Cell Death in Retinitis Pigmentosa. 2007 , 293-317	1
371	Parthanatos as a Cell Death Pathway Underlying Retinal Disease. 2019 , 1185, 323-327	11
370	Encyclopedia of Signaling Molecules. 2018 , 361-366	2

369	Manipulation of apoptosis by herpes viruses (Kaposi's sarcoma pathogenesis). 2004 , 36, 191-205	3
368	Apoptosis and Mitochondria. 2010 , 439-453	2
367	Reactive Oxygen Species and Apoptosis. 2014 , 113-135	5
366	Small stress proteins: novel negative modulators of apoptosis induced independently of reactive oxygen species. 2002 , 28, 185-204	52
365	Hepatocyte Apoptosis Triggered by Natural Substances (Cytokines, Other Endogenous Molecules and Foreign Toxins). 2000 , 59-108	5
364	Apoptotic Cell Phagocytosis. 2000 , 151-177	1
363	Strategies and Methods for Proteome Analysis. 2000 , 3-14	1
362	Mechanisms of E3 modulation of immune and inflammatory responses. 2004 , 273, 113-35	27
361	Mitochondrial swelling and generation of reactive oxygen species induced by photoirradiation are heterogeneously distributed. 2004 , 1011, 112-22	17
360	Role of mitochondrial proteins for neuronal cell death after focal cerebral ischemia. 2004 , 89, 15-9	23
359	Apoptosis. 2011 , 63-80	1
358	Helicobacter pylori Peptidyl Prolyl cis, trans Isomerase: A Modulator of the Host Immune Response. 2013 , 81-91	3
357	Caspase-like protease involvement in the control of plant cell death. 2000 , 173-184	5
356	Mitochondrial Dysfunction in Ischemic Stroke. 2017 , 201-221	6
355	Apoptosis in Cerebral Ischemia. 2004 , 855-866	2
354	Drug-Induced Liver Injury. 2018 , 844-890.e17	1
353	Drug-Induced Liver Injury. 2006 , 503-550	3
352	Cell Survival and Death in Rheumatic Diseases. 2009 , 379-395	1

351	Cerebral Blood Flow and Metabolism and Cerebral Ischemia. 2011 , 3537-3562	2
350	DCMQA, a caffeoylquinic acid derivative alleviates NMDA-induced neurotoxicity via modulating GluN2A and GluN2B-containing NMDA receptors in vitro. 2020 , 67, 104888	3
349	Diclofenac Sodium Triggers p53-Dependent Apoptosis in Human Corneal Epithelial Cells via ROS-Mediated Crosstalk. 2021 , 34, 70-79	6
348	The multikinase inhibitor sorafenib induces caspase-dependent apoptosis in PC-3 prostate cancer cells. 2010 , 12, 527-34	12
347	Ferroptosis: past, present and future. 2020 , 11, 88	508
346	Pre-processed caspase-9 contained in mitochondria participates in apoptosis.	1
345	Macrophages are involved in DNA degradation of apoptotic cells in murine thymus after administration of hydrocortisone.	5
344	Formation of noncanonical high molecular weight caspase-3 and -6 complexes and activation of caspase-12 during serum starvation induced apoptosis in AKR-2B mouse fibroblasts.	5
343	Diversity of the apoptotic response to chemotherapy in childhood leukemia.	1
342	Cladribine induces apoptosis in human leukaemia cells by caspase-dependent and -independent pathways acting on mitochondria. 2001 , 359, 537-46	40
341	An antibody toolbox to track complex I assembly defines AIF's mitochondrial function. 2020 , 219,	9
340	Mitochondrial Markers in Aging and Primary Open-Angle Glaucoma. 2020 , 29, 295-303	5
339	Virus uncoating is required for apoptosis induction in cultured mammalian cells infected with African horse sickness virus. 2015 , 96, 1811-20	5
338	c-Myc-induced sensitization to apoptosis is mediated through cytochrome c release. 1999 , 13, 1367-81	261
337	Apoptosis. Death of a monopoly?. 2001 , 292, 865-6	49
336	A chicken-or-egg conundrum in apoptosis: which comes first? Ceramide or PKC α . 2002 , 109, 717-719	5
335	Bcl-2-dependent oxidation of pyruvate dehydrogenase-E2, a primary biliary cirrhosis autoantigen, during apoptosis. 2001 , 108, 223-32	70
334	Pneumococcal pneumolysin and H(2)O(2) mediate brain cell apoptosis during meningitis. 2002 , 109, 19-27	235

333	Defective TNF-alpha-mediated hepatocellular apoptosis and liver damage in acidic sphingomyelinase knockout mice. 2003 , 111, 197-208	176
332	Oxidative stress, cell cycle, and neurodegeneration. 2003 , 111, 785-93	157
331	Bcl-2-dependent oxidation of pyruvate dehydrogenase-E2, a primary biliary cirrhosis autoantigen, during apoptosis. 2001 , 108, 223-232	155
330	Dynamic changes in Mcl-1 expression regulate macrophage viability or commitment to apoptosis during bacterial clearance. 2005 , 115, 359-368	80
329	Glycyrrhizic acid alters Kaposi sarcoma-associated herpesvirus latency, triggering p53-mediated apoptosis in transformed B lymphocytes. 2005 , 115, 642-652	81
328	Bacterial programmed cell death of cerebral endothelial cells involves dual death pathways. 2005 , 115, 1607-15	75
327	Glycyrrhizic acid alters Kaposi sarcoma-associated herpesvirus latency, triggering p53-mediated apoptosis in transformed B lymphocytes. 2005 , 115, 642-52	52
326	Death begets failure in the heart. 2005 , 115, 565-71	228
325	Pharmacological manipulation of Bcl-2 family members to control cell death. 2005 , 115, 2648-55	96
324	Pharmacological manipulation of cell death: clinical applications in sight?. 2005 , 115, 2610-7	183
323	Death versus survival: functional interaction between the apoptotic and stress-inducible heat shock protein pathways. 2005 , 115, 2633-9	322
322	HIV protease inhibitors provide neuroprotection through inhibition of mitochondrial apoptosis in mice. 2008 , 118, 2025-38	47
321	Genomic DNA damage and ATR-Chk1 signaling determine oncolytic adenoviral efficacy in human ovarian cancer cells. 2011 , 121, 1283-97	22
320	HMBA induces activation of a caspase-independent cell death pathway to overcome P-glycoprotein-mediated multidrug resistance. 2000 , 95, 2378-2385	2
319	Deoxyadenosine analogs induce programmed cell death in chronic lymphocytic leukemia cells by damaging the DNA and by directly affecting the mitochondria. 2000 , 96, 3537-3543	18
318	Caspase-independent commitment phase to apoptosis in activated blood T lymphocytes: reversibility at low apoptotic insult. 2000 , 96, 1030-1038	7
317	Redox Regulation of Gene Expression and Transcription Factors in Response to Environmental Oxidants. 2001 ,	1
316	Antiproliferative and Apoptotic Effects of Tocotrienols on Normal and Neoplastic Mammary Epithelial Cells. 2008 , 119-139	1

315	Taube nuss is a novel gene essential for the survival of pluripotent cells of early mouse embryos. 2000 , 127, 5449-5461	49
314	Effector caspases are dispensable for the early nuclear morphological changes during chemical-induced apoptosis. 2000 , 113, 2941-2953	103
313	The apoptosis mediator mDAP-3 is a novel member of a conserved family of mitochondrial proteins. 2000 , 113, 3603-3612	46
312	Hydrogen peroxide induces apoptosis-like death in Leishmania donovani promastigotes. 2001 , 114, 2461-2469	184
311	Temporal relationship between cytochrome c release and mitochondrial swelling during UV-induced apoptosis in living HeLa cells. 2001 , 114, 2855-2862	96
310	Menadione-induced apoptosis: roles of cytosolic Ca ²⁺ elevations and the mitochondrial permeability transition pore. 2002 , 115, 485-497	117
309	Molecular signature of anastasis for reversal of apoptosis. 2017 , 6, 43	26
308	Deletion of the mitochondrial flavoprotein apoptosis inducing factor (AIF) induces beta-cell apoptosis and impairs beta-cell mass. 2009 , 4, e4394	15
307	Involvement of VDAC, Bax and ceramides in the efflux of AIF from mitochondria during curcumin-induced apoptosis. 2009 , 4, e6688	55
306	Cytosolic Hsp60 is involved in the NF-kappaB-dependent survival of cancer cells via IKK regulation. 2010 , 5, e9422	84
305	Clioquinol inhibits zinc-triggered caspase activation in the hippocampal CA1 region of a global ischemic gerbil model. 2010 , 5, e11888	19
304	PARP1 gene knock-out increases resistance to retinal degeneration without affecting retinal function. 2010 , 5, e15495	62
303	Next-generation sequencing of apoptotic DNA breakpoints reveals association with actively transcribed genes and gene translocations. 2011 , 6, e26054	9
302	Apoptosis-inducing factor regulates skeletal muscle progenitor cell number and muscle phenotype. 2011 , 6, e27283	24
301	Characterization of apoptosis-related oxidoreductases from Neurospora crassa. 2012 , 7, e34270	11
300	Berberine induces caspase-independent cell death in colon tumor cells through activation of apoptosis-inducing factor. 2012 , 7, e36418	86
299	Atad3 function is essential for early post-implantation development in the mouse. 2013 , 8, e54799	32
298	Betulinic acid selectively increases protein degradation and enhances prostate cancer-specific apoptosis: possible role for inhibition of deubiquitinase activity. 2013 , 8, e56234	52

297	Inhibitory peptide of mitochondrial β -calpain protects against photoreceptor degeneration in rhodopsin transgenic S334ter and P23H rats. 2013 , 8, e71650	20
296	miRNAs-19b, -29b-2* and -339-5p show an early and sustained up-regulation in ischemic models of stroke. 2013 , 8, e83717	30
295	Alf downregulation and its interaction with STK3 in renal cell carcinoma. 2014 , 9, e100824	6
294	hesperidin induces paraptosis like cell death in hepatoblastoma, HepG2 Cells: involvement of ERK1/2 MAPK [corrected]. 2014 , 9, e101321	44
293	Anthraquinone G503 induces apoptosis in gastric cancer cells through the mitochondrial pathway. 2014 , 9, e108286	15
292	Interaction between Nbp35 and Cfd1 proteins of cytosolic Fe-S cluster assembly reveals a stable complex formation in <i>Entamoeba histolytica</i> . 2014 , 9, e108971	11
291	Fever-range hyperthermia vs. hypothermia effect on cancer cell viability, proliferation and HSP90 expression. 2015 , 10, e0116021	30
290	Comparative proteome analysis of brown adipose tissue in obese C57BL/6J mice using iTRAQ-coupled 2D LC-MS/MS. 2015 , 10, e0119350	10
289	Design, Synthesis and In Vitro Activity of Anticancer Styrylquinolines. The p53 Independent Mechanism of Action. 2015 , 10, e0142678	32
288	Caspase-Dependent and Caspase-Independent Pathways Are Involved in Cadmium-Induced Apoptosis in Primary Rat Proximal Tubular Cell Culture. 2016 , 11, e0166823	29
287	Eutopic/ectopic endometrial apoptosis initiated by bilateral uterine artery occlusion: A new therapeutic mechanism for uterus-sparing surgery in adenomyosis. 2017 , 12, e0175511	5
286	Comparative Proteomics Reveals Strain-Specific TrCP Degradation via Rotavirus NSP1 Hijacking a Host Cullin-3-Rbx1 Complex. 2016 , 12, e1005929	38
285	The hallmarks of COVID-19 disease. 2020 , 16, e1008536	200
284	Heat shock pretreatment inhibited the release of Smac/DIABLO from mitochondria and apoptosis induced by hydrogen peroxide in cardiomyocytes and C2C12 myogenic cells. 2005 , 10, 252-62	89
283	Overexpression of inducible heat shock protein 70 and its mutants in astrocytes is associated with maintenance of mitochondrial physiology during glucose deprivation stress. 2006 , 11, 180-6	59
282	Apoptosis and Cell Death (Mechanisms, Pharmacology and Promise for the Future). 2000 , 43, 63-68	4
281	Apoptosis inducing factor and mitochondrial NADH dehydrogenases: redox-controlled gear boxes to switch between mitochondrial biogenesis and cell death. 2021 , 402, 289-297	2
280	Apoptosis regulation in adrenocortical carcinoma. 2019 , 8, R91-R104	4

279	Glucose is required to maintain high ATP-levels for the energy-utilizing steps during PDT-induced apoptosis. 2002 , 76, 695-703	23
278	Mcl-1 protects prostate cancer cells from cell death mediated by chemotherapy-induced DNA damage. 2015 , 2, 703-15	21
277	5-FU targets rpl3 to induce mitochondrial apoptosis via cystathionine- β -synthase in colon cancer cells lacking p53. 2016 , 7, 50333-50348	58
276	Zoledronic acid is an effective radiosensitizer in the treatment of osteosarcoma. 2016 , 7, 70869-70880	28
275	Poly(adenosine diphosphate-ribose) polymerase as therapeutic target: lessons learned from its inhibitors. 2017 , 8, 50221-50239	14
274	Potential genotoxic and cytotoxicity of emamectin benzoate in human normal liver cells. 2017 , 8, 82185-82195	17
273	Autophagy-dependent apoptosis is triggered by a semi-synthetic [6]-gingerol analogue in triple negative breast cancer cells. 2018 , 9, 30787-30804	23
272	RIP kinase-mediated necrosis as an alternative mechanisms of photoreceptor death. 2011 , 2, 497-509	40
271	Single enantiomer of YK-4-279 demonstrates specificity in targeting the oncogene EWS-FLI1. 2012 , 3, 172-82	67
270	Caspase activation in high-pressure--induced apoptosis of murine erythroleukemia cells. 2001 , 51, 193-9	7
269	Therapeutic Hypothermia and Neuroprotection in Acute Neurological Disease. 2019 , 26, 5430-5455	8
268	Parthanatos, a messenger of death. 2009 , 14, 1116-28	259
267	Molecular mechanisms of cardiac myocyte death. 2005 , 33-58	1
266	The Link Between Inflammaging and Degenerative Joint Diseases. 2019 , 20,	36
265	[Hepatic stellate cell apoptosis and mitochondrion]. 2005 , 3, 144-8	2
264	Galangin induces apoptosis of hepatocellular carcinoma cells via the mitochondrial pathway. 2010 , 16, 3377-84	61
263	15-PGDH is reduced and induces apoptosis and cell cycle arrest in gastric carcinoma. 2012 , 18, 1028-37	13
262	15d-PGJ2 inhibits cell growth and induces apoptosis of MCG-803 human gastric cancer cell line. 2003 , 9, 2149-53	34

261	Variations of mitochondrial D-loop region plus downstream gene 1 2S rRNA-tRNA(phe) and gastric carcinomas. 2003 , 9, 1925-9	22
260	AIF knockdown induce apoptosis and mitochondrial dysfunction in cochlear spiral ganglion neurons in vitro. 2020 , 21, 1910-1920	2
259	Gambogic acid induces mitochondria-dependent apoptosis by modulation of Bcl-2 and Bax in mantle cell lymphoma JeKo-1 cells. 2013 , 25, 183-91	25
258	Role of HGF/MET axis in resistance of lung cancer to contemporary management. 2012 , 1, 179-93	24
257	Serum Deprivation Enhances Apoptotic Cell Death by Increasing Mitochondrial Enzyme Activity. 2008 , 16, 1-8	7
256	Asiatic Acid Protects Dopaminergic Neurons from Neuroinflammation by Suppressing Mitochondrial Ros Production. 2019 , 27, 442-449	17
255	Neuronal cell death and regeneration in diseases associated with advanced glycation end-products accumulation. 2014 , 9, 701-2	4
254	Bax promoter G(-248)A polymorphism in a Turkish clinical breast cancer patients: A case-control study. 2013 , 03, 10-16	4
253	Irreversible electroporation: a novel image-guided cancer therapy. 2010 , 4 Suppl 1, S99-S104	117
252	Apoptotic signaling pathways: caspases and stress-activated protein kinases. 2002 , 35, 24-7	134
251	Nitric oxide as a pro-apoptotic as well as anti-apoptotic modulator. 2002 , 35, 116-26	156
250	Synthetic bile acids: novel mediators of apoptosis. 2002 , 35, 134-41	10
249	Role of apoptotic and necrotic cell death under physiologic conditions. 2008 , 41, 1-10	71
248	The role of mitochondria in apoptosis. 2008 , 41, 11-22	342
247	Interplay between autophagy and programmed cell death in mammalian neural stem cells. 2013 , 46, 383-90	25
246	Spatiotemporal Protein Atlas of Cell Death-Related Molecules in the Rat MCAO Stroke Model. 2018 , 27, 287-298	11
245	The postgenomic era: implications for the clinical laboratory. 2002 , 126, 255-62	9
244	Expression of AIF and HtrA2/Omi in small lymphocytic lymphoma and diffuse large B-cell lymphoma. 2011 , 135, 903-8	7

- 243 Signaling pathways involved in apoptosis induced by novel angucycline antibiotic landomycin E in Jurkat T leukemia cells. **2011**, 27, 124-131 2
- 242 Herbal remedies for combating irradiation: a green anti-irradiation approach. **2013**, 14, 5553-65 17
- 241 Extensive cargo identification reveals distinct biological roles of the 12 importin pathways. **2017**, 6, 46
- 240 ABT-737, a small molecule Bcl-2/Bcl-xL antagonist, increases antimitotic-mediated apoptosis in human prostate cancer cells. **2013**, 1, e144 37
- 239 Hif-1/Hsf1/Hsp70 signaling pathway regulates redox homeostasis and apoptosis in large yellow croaker () under environmental hypoxia. **2021**, 42, 746-760 0
- 238 Cyclophilin D Regulates the Nuclear Translocation of AIF, Cardiac Endothelial Cell Necroptosis and Murine Cardiac Transplant Injury. **2021**, 22, 2
- 237 Connexin Expression Is Altered in Liver Development of () Mice. **2021**, 22, 2
- 236 Identification and characterization of an apoptosis-inducing factor 1 involved in apoptosis and immune defense of oyster, *Crassostrea gigas*. **2021**, 119, 173-181 0
- 235 Strategies to prevent apoptosis. **2000**, 232-246
- 234 Immune Cell Functions. **2000**, 97-123
- 233 Mechanisms and relevance of apoptosis. **2000**, 197-231
- 232 bcl-2 Protects SK-N-SH Cells From 6-Hydroxydopamine Induced Apoptosis by Inhibition of Cytochrome c Redistribution. **2000**, 219-231
- 231 Functional Analysis of the Bcl2 Gene Family in Transgenic Mice. **2001**, 115-145
- 230 Mitochondrial Membrane Permeabilization in Physiological and Pathological Cell Death. **2001**, 15-26
- 229 Bcl-2 Family Members and Permeabilization of the Outer Mitochondrial Membrane. **2001**, 27-32
- 228 Cell Apoptosis Induced by Carcinogenic Metals. **2001**, 183-188
- 227 Apoptosis. Till death us do part. **2001**, 293, 1784-5 12
- 226 Developing Gene-Based Neuroprotection Strategies Using Herpes Amplicon Vectors. **2002**, 335-357

- 225 Cerebrovascular disease and hypothermia Part II: an experimental approach for ischemic neuronal death. **2002**, 195-201
- 224 Strategies, Techniques, and Applications in Cancer Biochemistry and Biology. **2002**, 361-544
- 223 The Mitochondrial Apoptosis Pathway. **2003**, 85-99
- 222 G-Protein Mediated Metabotropic Receptors Offer Novel Avenues in Neuronal and Vascular Cells for Cytoprotective Strategies. **2003**, 257-298
- 221 Zellzyklus und Apoptose. **2003**, 130-184 1
- 220 Androgen Signaling in Prostatic Neoplasia and Hyperplasia. **2003**, 157-189
- 219 Cell Death in Mammalian Development. **2003**, 163-175
- 218 From Caspases to Alternative Cell-Death Mechanisms. **2003**, 101-122
- 217 Akt and Bcl-xL Are Independent Regulators of the Mitochondrial Cell Death Pathways. **2003**, 1-8
- 216 Programmed Death Phenomena at Various Levels of Development of the Living Systems. **2003**, 61-86
- 215 DNA Fragmentation in Mammalian Apoptosis and Tissue Homeostasis. **2003**, 171-183
- 214 Apoptose. **2003**, 181-212
- 213 Triggering Events in Ischemic Brain Damage. **2003**, 45-59
- 212 Retinitis Pigmentosa. **2003**,
- 211 The Self-Destruction of Neurons Physiological and Pathophysiological Decisions for the Functional Integrity. **2004**, 79-93
- 210 Tumor Resistance to Apoptosis. **2004**, 215-234
- 209 Monitoring Cell Death. **2005**, 369-379
- 208 Aif.

- 207 Mitochondria as Novel Targets for Proapoptotic Synthetic Retinoids. **2005**,
- 206 The Role of Lipid Peroxidation in Chromosomal DNA Associated with Cell Death Induced by Glutathione Depletion. **2005**, 287-302
- 205 Skeletal Muscle Apoptosis in Cachexia and Aging. **2005**, 49-69
- 204 Intracellular Pathways of Neuronal Death. **2006**, 91-103
- 203 Myelodysplasia-Related AML. **2007**, 43-70
- 202 Molecular Mechanisms of DNA Damage and Repair in Ischemic Neuronal Injury. **2007**, 65-87
- 201 The Apoptotic Mitochondrial Pathway [Modulators, Interventions and Clinical Implications. **2007**, 271-290
- 200 Programmed Cell Death and Its Role in Neurological Disease. **2007**, 125-143
- 199 Molecular Analysis of Heart Failure and Remodeling. **2007**, 441-469
- 198 Neurobiology of AIF and PARP in Cerebral Ischemia. **2007**, 19-31
- 197 Molecular Pathways of Mitochondrial Dysfunction in Neurodegeneration: the Paradigms of Parkinson's and Huntington's Diseases. **2007**, 193-219
- 196 Lipid-Induced Death of Macrophages. **2007**, 251-260
- 195 Inhibitors of the Bcl-2 Protein Family as Sensitizers to Anticancer Agents. **2008**, 243-261
- 194 Molecular Chaperones and Protection in Animal and Cellular Models of Ischemic Stroke. **2008**, 179-201
- 193 Induction of apoptosis by the kinase inhibitor flavopiridol in human ovarian cancer cell lines. **2008**, 19, 26
- 192 Cellular Mechanisms of Drug Nephrotoxicity. **2008**, 2507-2535
- 191 Role of Poly(ADP-Ribose) Polymerase in Acute Kidney Injury. **2008**, 559-567
- 190 Toward a Mechanistic Taxonomy for Programmed Cell Death Pathways. **2008**, 73-91

189 Molecular Biology of Brain Injury. **2009**, 1-12

188 Apoptosis-Inducing Factor Translocation to Nuclei After Transient Global Ischemia. **2010**, 131-144

187 Excitotoxic Programmed Cell Death Involves Caspase-Independent Mechanisms. **2010**, 79-88

o

186 Activation of Caspase-Independent Programmed Pathways in Seizure-Induced Neuronal Necrosis. **2010**, 277-293

185 The Role of Poly(ADP-Ribose) Polymerase-1 (PARP-1) Activation in Focal Cerebral Ischemia. **2010**, 103-118

184 Caspase-Independent Cell Death Mechanisms in Simple Animal Models. **2010**, 9-33

183 Age-Dependence of Neuronal Apoptosis and of Caspase Activation. **2010**, 67-77

182 Cardiac Remodeling and Cell Death in Heart Failure. **2010**, 213-231

181 The Multidimensional Role of Mitochondria in Heart Failure. **2010**, 73-106

180 Irreversible Electroporation (IRE) on Liver Tumor Ablation: A Summary of Preclinical Translational Research. **2011**, 219-230

179 Selenoproteins and Atherosclerosis. **2011**, 141-160

1

178 Biochemical, Cellular, and Molecular Mechanisms of Neuronal Death and Secondary Brain Injury in Critical Care. **2011**, 125-133

177 Analysis of the input of polymorphism of several candidate genes in the development of hypertension and myocardial remodeling: in the sample of sibling pairs. **2011**, 17, 488-492

176 Neurodegeneration in the Neonatal Brain. **2012**, 13-28

175 Caspase-Independent Stroke Targets. **2012**, 145-174

174 Targeting Cellular Signaling for Cancer Prevention and Therapy by Phytochemicals. **2013**, 219-243

173 Cell Survival and Death in Rheumatic Diseases. **2013**, 382-399.e4

1

172 Induction of Selective Cell Death of Oral Squamous Carcinoma Cells by Integrin α Antibody and EGFR Antibody. **2013**, 35, 143-154

171 Cellular Organelle-based Renal Toxicity. **2013**, 3-17

170 Apoptotic Effect of co-treatment with HS-1200 and Cisplatin on SCC25 Human Tongue Squamous Cell Carcinoma Cell Line. **2013**, 38, 221-233

169 Apoptotic Effect of CGM co-treatment with Cisplatin on G361 Human Melanoma Cell Line. **2013**, 34, 29-49

168 Molecular Biology of Brain Injury: 2012. **2014**, 535-553

167 Neuroprotection for Retinal Detachment. **2014**, 275-291

166 Photoreceptor Degeneration: Molecular Mechanisms of Photoreceptor Degeneration. **2014**, 275-308

165 Apoptotic Effect of Co-treatment with Curcumin and Cisplatin on SCC25 Human Tongue Squamous Cell Carcinoma Cell Line. **2014**, 39, 159-167

164 The Mechanisms and Modalities of Cell Death. **2015**, 253-277

163 Mitosomes in Entamoeba histolytica. **2015**, 305-327

1

162 Loss of Residual Hearing Initiated by Cochlear Implantation: Role of Inflammation-Initiated Cell Death Pathways, Wound Healing and Fibrosis Pathways, and Potential Otoprotective Therapies. **2015**, 395-421

161 Neuroprotective Interactions Between Delta-Opioid Receptors and Glutamatergic Signaling Mediate Hypoxia-Tolerance in Brain. **2015**, 363-388

160 PARP and Carcinogenesis. **2015**, 99-124

O

159 Encyclopedia of Signaling Molecules. **2016**, 1-7

158 Encyclopedia of Signaling Molecules. **2016**, 1-10

157 Mislocalization of Mitochondrial Intermembrane Space Proteins. **2016**, 45-67

156 Chapter 11: Influence of Purity and Surface Oxidation on Cytotoxicity of Multiwalled Carbon Nanotubes with Human Neuroblastoma Cells. **2017**, 297-316

155 Mechanism underlying Chios gum mastic-induced cell cycle arrest and apoptosis of the G361 human melanoma cell line. **2017**, 38, 13-30

154 Apoptosis-Inducing Factor Translocation to Nuclei After Transient Global Ischemia. **2018**, 117-132

153 Encyclopedia of Signaling Molecules. **2018**, 245-255

152 Activation of Caspase-Independent Programmed Pathways in Seizure-Induced Neuronal Necrosis. **2018**, 191-211 1

151 Insights from the Molecular Modelling and Docking Analysis of AIF-NLS complex to infer Nuclear Translocation of the Protein. **2018**, 14, 132-139 0

150 Fatty Acid Mixtures from Nigella sativa Protects PC12 Cells from Oxidative Stress and Apoptosis Induced by Doxorubicin. **2018**, 24, 15-22

149 Postnatal Fare Testis Gelişiminde Caspase-Bağımlı ve Caspase-Bağımsız Apoptozun Değerlendirilmesi. **2018**, 44, 103-109

148 The Yeast AIF Homolog Nde1 Integrates Signals from Metabolism and Proteostasis on the Mitochondrial Surface and Executes Cell Death.

147 The Effects of Intraoperative Hypothermia Review of the Molecular Mechanisms of Action in Therapeutic Hypothermia. **2019**, 4,

146 Anti-inflammatory role of curcumin in Lipopolysaccharide treated A549 cells at global proteome level and on mycobacterial infection.

145 Non-thermal plasma with metformin synergistically induces cell death via upregulating AMPK to suppress energy metabolism. **2020**, 53, 385203

144 RNA Biological Characteristics at the Peak of Cell Death in Different Hereditary Retinal Degeneration Mutants. **2021**, 12, 728791 0

143 New Mechanisms and Targets of Subarachnoid Hemorrhage: A Focus on Mitochondria. **2021**,

142 Alopecia in Harlequin mutant mice is associated with reduced AIF protein levels and expression of retroviral elements. **2021**, 32, 12-29 0

141 Sevoflurane-Induced miR-211-5p Promotes Neuronal Apoptosis by Inhibiting Efemp2. **2021**, 13, 17590914211035036

140 Cell death: machinery and regulation. **2022**, 47-64 0

139 Exosome-mediated apoptosis pathway during WSSV infection in crustacean mud crab. 1

138 ADAM12 silencing promotes cellular apoptosis by activating autophagy in choriocarcinoma cells. **2020**, 56, 1162-1174 1

137 Can Manipulation of Apoptotic Cell Death Benefit Tissue Scarring?. **2005**, 160-177

136 Apoptosis Induction By Tumor- Targeted Toxins. **2005**, 179-187

135	Apoptosis and Mitochondria. 2005 , 367-376	1
134	Role of Poly(ADP-Ribose) Polymerase in Acute Kidney Injury. 2008 , 559-567	
133	Death receptors and their ligands. 2000 , 5-28	
132	Cardiac myocytes. 2000 , 175-188	
131	Apoptosis in Exocrine Acinar Cells. 2009 , 57-72	
130	A chicken-or-egg conundrum in apoptosis: which comes first? Ceramide or PKCdelta?. 2002 , 109, 717-9	2
129	Dynamic changes in Mcl-1 expression regulate macrophage viability or commitment to apoptosis during bacterial clearance. 2005 , 115, 359-68	55
128	Signaling by Mitochondria. 2005 , 167-177	
127	Signaling Pathways That Protect the Heart Against Apoptosis Induced by Ischemia and Reperfusion. 2006 , 181-195	
126	Mechanisms of neural cell death: Implications for development of neuroprotective treatment strategies. 2004 , 1, 5-16	
125	The mitochondrial permeability transition pore and its role in cell death. 1999 , 341 (Pt 2), 233-49	618
124	Cytochrome c release from isolated rat liver mitochondria can occur independently of outer-membrane rupture: possible role of contact sites. 2000 , 348 Pt 2, 343-50	42
123	Oxidation of pyridine nucleotides during Fas- and ceramide-induced apoptosis in Jurkat cells: correlation with changes in mitochondria, glutathione depletion, intracellular acidification and caspase 3 activation. 2001 , 353, 357-67	29
122	GRIM-19: A Double-edged Sword that Regulates Anti-Tumor and Innate Immune Responses. 2008 , 3, 67-79	3
121	Apoptosis, Bcl-2 family proteins and caspases: the ABCs of seizure-damage and epileptogenesis?. 2009 , 1, 97-115	53
120	Cell death signalling mechanisms in heart failure. 2011 , 16, 102-8	14
119	Visible light may directly induce nuclear DNA damage triggering the death pathway in RGC-5 cells. 2011 , 17, 3279-89	17
118	Hyperosmolarity potentiates toxic effects of benzalkonium chloride on conjunctival epithelial cells in vitro. 2012 , 18, 851-63	53

117	Mitochondria, Energy and Cancer: The Relationship with Ascorbic Acid. 2010 , 25, 29-38	8
116	Delineation of biological and molecular mechanisms underlying the diverse anticancer activities of mycophenolic acid. 2013 , 6, 2880-6	10
115	Mitochondrial mechanisms of sepsis-induced organ failure. 2008 , 13, 5030-41	40
114	Role of apoptosis-inducing factor (Aif) in the T cell lineage. 2013 , 138, 577-90	4
113	Immunohistochemical analysis of Bax and AIF in colorectal tumors. 2015 , 8, 16071-6	4
112	3-aminobenzamide, one of poly(ADP-ribose)polymerase-1 inhibitors, rescues apoptosis in rat models of spinal cord injury. 2015 , 8, 12207-15	3
111	Down-regulation of Fra-2 alleviates light-induced retina damage by inhibiting the PARP-1/AIF pathway. 2018 , 11, 4221-4229	0
110	Regulation of the mitochondrial permeability transition pore and its effects on aging. 2020 , 7, 222-233	
109	induces caspase-8-dependent extrinsic apoptosis and p53- and ROS-dependent intrinsic apoptosis in murine alveolar macrophages. 2021 , 12, 2703-2720	0
108	Chronic exposure to nonylphenol induces oxidative stress and liver damage in male zebrafish (Danio rerio): Mechanistic insight into cellular energy sensors, lipid accumulation and immune modulation. 2021 , 351, 109762	0
107	Cardiac Glycosides as Autophagy Modulators.. 2021 , 10,	4
106	Over Fifty Years of Life, Death, and Cannibalism: A Historical Recollection of Apoptosis and Autophagy. 2021 , 22,	2
105	Roles of apoptosis and autophagy in natural rabies infections. 2021 , 67, 1-12	1
104	AMPK inhibitor BML-275 induces neuroprotection through decreasing cyt c and AIF expression after transient brain ischemia. 2021 , 52, 116522	0
103	Integrated physiological, transcriptome and metabolome analyses of the hepatopancreas of the female swimming crab Portunus trituberculatus under ammonia exposure. 2021 , 228, 113026	4
102	Aggregation induced emission (AIE) materials for mitochondria imaging. 2021 , 184, 179-204	0
101	ROS-Mediated Apoptosis in Cancer. 2021 , 1-20	
100	Hydroxysafflor yellow A and anhydrosafflor yellow B alleviate ferroptosis and parthanatos in PC12 cells injured by OGD/R.. 2021 , 179, 1-10	1

99	Silencing ESRP1 expression promotes caspase-independent cell death via nuclear translocation of AIF in colon cancer cells.. 2022 , 91, 110237	0
98	Regulation of the mitochondrial permeability transition pore and its effects on aging. 2020 , 7, 222-233	1
97	Low-dose ionizing radiation suppresses the apoptosis-induced by serum-removal culture. 2021 , 8, 249-260	
96	Yttrium chloride-induced cytotoxicity and DNA damage response via ROS generation and inhibition of Nrf2/PPAR γ pathways in H9c2 cardiomyocytes.. 2022 , 96, 767	1
95	ROS-Mediated Apoptosis in Cancer. 2022 , 599-618	
94	Regulation and functions of membrane lipids: Insights from <i>Caenorhabditis elegans</i> . 2022 , 2, 100043	1
93	Ubiquitinated AIF is a major mediator of hypoxia-induced mitochondrial dysfunction and pulmonary artery smooth muscle cell proliferation.. 2022 , 12, 9	0
92	BH3-Only Proteins Noxa and Puma Are Key Regulators of Induced Apoptosis.. 2022 , 12,	5
91	The concept of intrinsic versus extrinsic apoptosis.. 2022 , 479, 357-384	4
90	Cell apoptosis induced by carcinogenic metals. 2001 , 222, 183-8	17
89	Microplitis bicoloratus bracovirus regulates cyclophilin A-apoptosis-inducing factor interaction to induce cell apoptosis in the insect immunosuppressive process.. 2022 , e21877	1
88	The Complex Mechanisms by Which Neurons Die Following DNA Damage in Neurodegenerative Diseases.. 2022 , 23,	1
87	Apoptosis-Inducing Factor Deficiency Induces Tissue-Specific Alterations in Autophagy: Insights from a Preclinical Model of Mitochondrial Disease and Exercise Training Effects.. 2022 , 11,	
86	Molecular basis of apoptotic DNA fragmentation by DFF40.. 2022 , 13, 198	0
85	Edible plant-derived nanotherapeutics and nanocarriers: Recent progress and future directions.. 2022 ,	1
84	Mitochondrial Oxidative Stress and Cell Death in Podocytopathies.. 2022 , 12,	0
83	Mining the Flavoproteome of <i>Brucella ovis</i> , the Brucellosis Causing Agent in <i>Ovis aries</i> .. 2022 , e0229421	0
82	Sperm mitochondrial DNA copy number in relation to semen quality: A cross-sectional study of 1164 potential sperm donors.. 2022 ,	0

- 81 Mitochondria Related Cell Death Modalities and Disease.. **2022**, 10, 832356 2
- 80 A novel peptide encoded by N6-methyladenosine modified circMAP3K4 prevents apoptosis in hepatocellular carcinoma.. **2022**, 21, 93 1
- 79 Mechanism of cell death pathways in status epilepticus and related therapeutic agents.. **2022**, 149, 112875 0
- 78 Reviewing the mitochondrial dysfunction paradigm in rodent models as platforms for neuropsychiatric disease research.. **2022**, 0
- 77 Relevance of AIF/CypA Lethal Pathway in SH-SY5Y Cells Treated with Staurosporine.. **2021**, 23, 0
- 76 Targeting Natural Compounds to Mitochondria as a Novel Strategy for Cancer Therapy. **2022**, 1-23
- 75 Hyperbaric Oxygen Treatment: Effects on Mitochondrial Function and Oxidative Stress.. **2021**, 11, 3
- 74 The Mechanism of Mitochondrial Injury in Alpha-1 Antitrypsin Deficiency Mediated Liver Disease.. **2021**, 22, 2
- 73 Autophagy in muscle regeneration: potential therapies for myopathies.. **2022**, 2
- 72 6-acrylic phenethyl ester-2-pyranone derivative induces apoptosis and G2/M arrest by targeting GRP94 in colorectal cancer.. **2022**, 123, 105802
- 71 Image_1.JPEG. **2019**,
- 70 Image_3.JPEG. **2019**,
- 69 Image_4.JPEG. **2019**,
- 68 Image_5.JPEG. **2019**,
- 67 Image_6.JPEG. **2019**,
- 66 Image_7.JPEG. **2019**,
- 65 Image_8.JPEG. **2019**,
- 64 Table_1.DOCX. **2019**,

63 Table_2.XLSX. **2019**,

62 IN VITRO EFFECTS OF ANTIOXIDANT AND PROAPOPTOTIC ACTIVITIES OF THYMOQUINONE IRON COMPLEX.

61 Retinitis Pigmentosa: Progress in Molecular Pathology and Biotherapeutical Strategies.. **2022**, 23,

2

60 Fundamentals of apoptosis. **2015**, 49, 42-4559 The mitosome of the anaerobic parasitic protist *Entamoeba histolytica*: a peculiar and minimalist mitochondrion-related organelle.. **2022**, e12923

0

58 REDD1 interacts with AIF and regulates mitochondrial reactive oxygen species generation in the keratinocyte response to UVB. **2022**,

1

57 USP53 plays an antitumor role in hepatocellular carcinoma through deubiquitination of cytochrome c. **2022**, 11,

1

56 Combined Addition of Glutathione and Iron Chelators for Decrease of Intracellular Level of Reactive Oxygen Species and Death of Chinese Hamster Ovary Cells.. **2003**, 95, 124-127

0

55 Case Report: A Novel Intronic Mutation in AIFM1 Associated With Fatal Encephalomyopathy and Mitochondrial Disease in Infant. 10,

0

54 TetracyclinesAn Important Therapeutic Tool for Dermatologists. **2022**, 19, 7246

0

53 Alteration of Mitochondrial Lipidome and Its Potential Effect on Apoptosis, Mitochondrial Reactive Oxygen Species Production, and Muscle Oxidation in Beef during Early Postmortem.

0

52 RNA-sequencing improves diagnosis for neurodevelopmental disorders by identifying pathogenic non-coding variants and reinterpretation of coding variants.

1

51 Caspase-mediated regulation of the distinct signaling pathways and mechanisms in neuronal survival. **2022**, 110, 108951

1

50 Polyphenols for the Treatment of Ischemic Stroke: New Applications and Insights. **2022**, 27, 4181

0

49 Bone morphogenetic protein inhibitors and mitochondria targeting agents synergistically induce apoptosis-inducing factor (AIF) caspase-independent cell death in lung cancer cells. **2022**, 20,

0

48 Unravelling the toxic effects mediated by the neurodegenerative disease-associated S375G mutation of TDP-43 and its S375E phosphomimetic variant.. **2022**, 102252

1

47 Carboxyl-Terminal Repressor Domain of MBP-1 is Sufficient for Regression of Prostate Tumor Growth in Nude Mice. **2005**, 65, 718-721

6

46 Sequence and helicity requirements for the proapoptotic activity of Bax BH3 peptides. **2004**, 3, 1343-1354

9

- 45 Ruellia tuberosa Ethyl Acetate Leaf Extract Induces Apoptosis and Cell Cycle Arrest in Human Breast Cancer Cell Line, MCF-7. **2022**, 90, 44 o
- 44 AIFM1 is a component of the mitochondrial disulfide relay that drives complex I assembly through efficient import of NDUFS5. o
- 43 In silico insight of cell-death-related proteins in photosynthetic cyanobacteria. **2022**, 204,
- 42 Mitochondrial-derived peptides as a novel intervention for obesity and cardiac diseases: bench evidence for potential bedside application. jclinpath-2022-208321
- 41 Human mitochondrial protein complexes revealed by large-scale coevolution analysis and deep learning-based structure modeling. 1
- 40 Mitigating apoptotic and inflammatory signaling via global caspase inhibition in hibernating ground squirrels, *Spermophilus lateralis*. o
- 39 Ethanolic extract of *Caesalpinia bonduc* seeds triggers yeast metacaspase-dependent apoptotic pathway mediated by mitochondrial dysfunction through enhanced production of calcium and reactive oxygen species (ROS) in *Candida albicans*. 12, o
- 38 p20BAP31 induces cell apoptosis via both ROS/JNK mitochondrial pathway and AIF caspase-independent pathway.
- 37 Emerging cellular themes in leukodystrophies. 10, o
- 36 AIFM1 beyond cell death: An overview of this OXPHOS-inducing factor in mitochondrial diseases. **2022**, 83, 104231 o
- 35 Inhibition of glucocorticoid-mediated, caspase-independent dendritic cell death by CD40 activation. **2001**, 69, 426-434 7
- 34 Induction of synergistic apoptosis by tetramethoxystilbene and nutlin-3a in human cervical cancer cells. o
- 33 Advances in anti-cancer effects and underlying mechanisms of marine algae polysaccharides. **2022**, 221, 472-485 12
- 32 Targeting Natural Compounds to Mitochondria as a Novel Strategy for Cancer Therapy. **2022**, 465-487 o
- 31 Regio- and stereoselective synthesis and evaluation of densely functionalized bispiro[oxindole-isoxazole-indandione] hybrids as anticancer agents. o
- 30 Apoptosis Regulators Bcl-2 and Caspase-3. **2022**, 2, 1624-1636 2
- 29 PARP-1 Is a Potential Marker of Retinal Photooxidation and a Key Signal Regulator in Retinal Light Injury. **2022**, 2022, 1-11 1
- 28 Hypothesis: can transfer of primary neoplasm-derived extracellular vesicles and mitochondria contribute to the development of donor cell-derived hematologic neoplasms after allogeneic hematopoietic cell transplantation?. **2022**, o

- 27 Therapeutic hypothermia for stroke: Unique challenges at the bedside. 13, 0
- 26 Mitochondrial Dysfunction: Pathophysiology and Mitochondria-Targeted Drug Delivery Approaches. **2022**, 14, 2657 0
- 25 Identification of a novel AIFM1 variant from a Chinese family with auditory neuropathy. 13, 0
- 24 Perspectives on mitochondrial relevance in cardiac ischemia/reperfusion injury. 10, 3
- 23 Efficient co-production of EPA and DHA by *Schizochytrium* sp. via regulation of the polyketide synthase pathway. **2022**, 5, 1
- 22 Assembly and Comparative Analysis of Complete Mitogenome of *Silybum marianum* (L.) Gaertner. **2022**, 54, 294-304 0
- 21 Beyond a platform protein for the degradosome assembly: The Apoptosis Inducing Factor as efficient nuclease involved in chromatinolysis. 2
- 20 Organelle-Specific Mechanisms in Crosstalk between Apoptosis and Ferroptosis. **2023**, 2023, 1-14 0
- 19 The Anticancer Effect of Phytochemicals and Potential of *Breynia cernua*: An overview. **2022**, 15, 2259-2278 1
- 18 The Imbalance of Astrocytic Mitochondrial Dynamics Following Blast-Induced Traumatic Brain Injury. **2023**, 11, 329 0
- 17 Non-coding RNAs and Exosomal Non-coding RNAs in Traumatic Brain Injury: the Small Player with Big Actions. 0
- 16 Investigating the adverse outcome pathways (AOP) of neurotoxicity induced by DBDPE with a combination of in vitro and in silico approaches. **2023**, 449, 131021 0
- 15 Intervertebral disc cell fate during aging and degeneration: apoptosis, senescence, and autophagy. **2023**, 14, 100210 0
- 14 Synthesis and biological evaluation of 1-phenyl-4,6-dihydrobenzo[b]pyrazolo[3,4-d]azepin-5(1H)-one/thiones as anticancer agents. **2023**, 135, 106478 0
- 13 Combined prenatal to postnatal protein restriction augments protein quality control processes and proteolysis in the muscle of rat offspring. **2023**, 114, 109273 0
- 12 Web-accessible application for identifying pathogenic transcripts with RNA-seq: Increased sensitivity in diagnosis of neurodevelopmental disorders. **2023**, 110, 251-272 0
- 11 The Angiogenesis Inhibitor Isthmin-1 (ISM1) Is Overexpressed in Experimental Models of Glomerulopathy and Impairs the Viability of Podocytes. **2023**, 24, 2723 0
- 10 The Role of the NLRP3 Inflammasome and Programmed Cell Death in Acute Liver Injury. **2023**, 24, 3067 0

- 9 AIFM1 variants associated with auditory neuropathy spectrum disorder cause apoptosis due to impaired apoptosis-inducing factor dimerization. **2023**, 24, 172-184 ○
- 8 Indole-3-carbinol induces apoptosis in AGS cancer cells via mitochondrial pathway. ○
- 7 Natural variation in expression of the mitochondrial flavoprotein WAH-1 alters response to cyanide in *C. elegans*. ○
- 6 Network-Based Method to Investigate the Promoted Cell Apoptosis Mechanisms of Oridonin in OSCC through the RNA-Transcriptome. **2023**, 2023, 1-10 ○
- 5 p20BAP31 induces cell apoptosis via both AIF caspase-independent and the ROS/JNK mitochondrial pathway in colorectal cancer. **2023**, 28, ○
- 4 Newly synthesized AIFM1 determines the hypersensitivity of T lymphocytes to STING activation-induced cell apoptosis. **2023**, 42, 112327 ○
- 3 Apoptosis-inducing factor-like protein-mediated stress and metronidazole-responsive programmed cell death pathway in *Entamoeba histolytica*. ○
- 2 Fish Models for Exploring Mitochondrial Dysfunction Affecting Neurodegenerative Disorders. **2023**, 24, 7079 ○
- 1 Quantitative proteomics reveals manganese alleviates heat stress of broiler myocardial cells via regulating nucleic acid metabolism. ○