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Caspases: enemies within

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#	Paper	IF	Citations
2340	Role of Bcl-2 family proteins in apoptosis: apoptosomes or mitochondria?. <b>1998</b> , 3, 697-707		454
2339	La mitochondrie, chef d'orchestre de la mort cellulaire. <b>1998</b> , 1998, 32-36		
2338	Death receptors: signaling and modulation. <i>Science</i> , <b>1998</b> , 281, 1305-8	33.3	4373
2337	Dying like flies. <b>1998</b> , 95, 295-8		47
2336	The Bcl-2 protein family: arbiters of cell survival. <i>Science</i> , <b>1998</b> , 281, 1322-6	33.3	4058
2335	Apoptosis. Death by crowd control. <i>Science</i> , <b>1998</b> , 281, 1298-9	33.3	37
2334	Farnesyltransferase inhibitors induce cytochrome c release and caspase 3 activation preferentially in transformed cells. <b>1998</b> , 95, 15356-61		95
2333	The hepatitis B virus HBx protein inhibits caspase 3 activity. <b>1998</b> , 273, 33347-53		102
2332	The cyclin-dependent kinase inhibitor p27(Kip1) induces N-terminal proteolytic cleavage of cyclin A. <b>1998</b> , 95, 15374-81		28
2331	Cell death throes. <b>1998</b> , 95, 12077-9		24
2330	Bax-dependent caspase-3 activation is a key determinant in p53-induced apoptosis in neurons. <b>1999</b> , 19, 7860-9		325
2329	Increased bone formation by prevention of osteoblast apoptosis with parathyroid hormone. <b>1999</b> , 104, 439-46		795
2328	The regulation of apoptotic cell death. <b>1999</b> , 32, 1053-61		31
2327	Nitric Oxide. IV. Determinants of nitric oxide protection and toxicity in liver. <b>1999</b> , 276, G1069-73		62
2326	All along the watchtower: on the regulation of apoptosis regulators. <b>1999</b> , 13, 1647-57		127
2325	Differential ganciclovir-mediated cell killing by glutamine 125 mutants of herpes simplex virus type 1 thymidine kinase. <b>1999</b> , 274, 37186-92		19
2324	Differential protective effects of Bcl-xL and Bcl-2 on apoptotic liver injury in transgenic mice. <b>1999</b> , 277, G702-8		29

2323	Inhibition of caspase activity prevents CD95-mediated hepatic microvascular perfusion failure and restores Kupffer cell clearance capacity. <b>1999</b> , 13, 1239-48	54
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2317	Prevention of osteocyte and osteoblast apoptosis by bisphosphonates and calcitonin. <b>1999</b> , 104, 1363-74	656
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2290	Characterization of caspase processing and activation in HL-60 cell cytosol under cell-free conditions. Nucleotide requirement and inhibitor profile. <b>1999</b> , 274, 22635-45	57
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2216	Bax membrane insertion during Fas(CD95)-induced apoptosis precedes cytochrome c release and is inhibited by Bcl-2. <b>1999</b> , 18, 5991-9	88



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2142	Selective Inhibition, Separation, and Purification of Serine Proteases: A Strategy Based on a Photoremovable Inhibitor. <b>1999</b> , 121, 7716-7717		22
2141	Apaf-1 and caspase-9 in p53-dependent apoptosis and tumor inhibition. <i>Science</i> , <b>1999</b> , 284, 156-9	33.3	569
2140	Cell survival promoted by the Ras-MAPK signaling pathway by transcription-dependent and -independent mechanisms. <i>Science</i> , <b>1999</b> , 286, 1358-62	33.3	1623
2139	Proapoptotic Bcl-2 relative Bim required for certain apoptotic responses, leukocyte homeostasis, and to preclude autoimmunity. <i>Science</i> , <b>1999</b> , 286, 1735-8	33.3	1288
2138	NF-B as an emerging target in atopy. <b>1999</b> , 3, 213-228		2
2137	Differential modulation of apoptosis sensitivity in CD95 type I and type II cells. <b>1999</b> , 274, 22532-8		461
2136	The role of CD95 system in chemotherapy. <b>1999</b> , 2, 85-90		12
2135	Poly(ADP-ribose) polymerase in the cellular response to DNA damage, apoptosis, and disease. <b>1999</b> , 64, 1282-8		124
2134	Gene therapy for cancer. <b>1999</b> , 35, 867-85		44
2133	Gene therapy for cancer. <b>1999</b> , 35, 2039-57		43
2132	Salicylic acid-induced resistance to viruses and other pathogens: a parting of the ways?. <b>1999</b> , 4, 155-160		133
2131	Signalling sphingomyelinases: which, where, how and why?. <b>1999</b> , 1438, 1-17		253
2130	Regulated commitment of TNF receptor signaling: a molecular switch for death or activation. <b>1999</b> , 11, 783-93		247
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2126	In vitro-translated diphtheria toxin A chain inhibits translation in wheat germ extracts: analysis of biologically active, caspase-3-resistant diphtheria toxin mutants. <b>1999</b> , 1472, 34-41		2

2125	Reduction of post-traumatic brain injury and free radical production by inhibition of the caspase-1 cascade. <b>1999</b> , 94, 1213-8	88
2124	Pathobiology of ischaemic stroke: an integrated view. <b>1999</b> , 22, 391-7	3094
2123	Marrow-mindedness: a perspective on neuropoiesis. <b>1999</b> , 22, 348-57	86
2122	Nitric oxide can function as either a killer molecule or an antiapoptotic effector in cardiomyocytes. <b>1999</b> , 1450, 406-13	38
2121	Tanshinone IIA isolated from <i>Salvia miltiorrhiza</i> BUNGE induced apoptosis in HL60 human premyelocytic leukemia cell line. <b>1999</b> , 68, 121-7	84
2120	Protein kinase C-dependent anti-apoptotic mechanism that is associated with high sensitivity to anti-Fas antibody in ovarian cancer cell lines. <b>1999</b> , 140, 113-9	11
2119	Recent advances on neuronal caspases in development and neurodegeneration. <b>1999</b> , 35, 195-220	97
2118	Adenovirus inhibition of immune-mediated apoptosis. <b>1999</b> , 19, 1-7	2
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2116	Parvovirus H-1-induced cell death: influence of intracellular NAD consumption on the regulation of necrosis and apoptosis. <b>1999</b> , 65, 161-74	43
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2114	Caspase inhibitors block the retinal ganglion cell death following optic nerve transection. <b>1999</b> , 67, 36-45	159
2113	Caspase-3-dependent neuronal death in the hippocampus following kainic acid treatment. <b>1999</b> , 70, 159-63	83
2112	Biochemical pathways of caspase activation during apoptosis. <b>1999</b> , 15, 269-90	2133
2111	Fas ligand-induced apoptosis. <b>1999</b> , 33, 29-55	633
2110	Withdrawal of life support, altruistic suicide, fratricidal killing and euthanasia by lymphocytes: different forms of drug-induced hepatic apoptosis. <b>1999</b> , 31, 760-70	39
2109	Apoptosis: Cell death by proteolytic scalpel. <b>1999</b> , 126, 463-468	12
2108	Cytoskeletal disruption induces T cell apoptosis by a caspase-3 mediated mechanism. <b>1999</b> , 65, 2697-707	53

2107	Generation of hydrogen peroxide precedes loss of mitochondrial membrane potential during DNA alkylation-induced apoptosis. <b>1999</b> , 442, 65-9	72
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2105	Phosphatidylinositol 3-kinase and protein kinase C are required for the inhibition of caspase activity by epidermal growth factor. <b>1999</b> , 444, 90-6	28
2104	P2Z purinoreceptor ligation induces activation of caspases with distinct roles in apoptotic and necrotic alterations of cell death. <b>1999</b> , 447, 71-5	225
2103	Cyclic stretch induces both apoptosis and secretion in rat alveolar type II cells. <b>1999</b> , 448, 127-30	59
2102	Lipid signaling in CD95-mediated apoptosis. <b>1999</b> , 452, 100-3	22
2101	Spermine triggers the activation of caspase-3 in a cell-free model of apoptosis. <b>1999</b> , 451, 95-8	44
2100	Activation of caspase-3 in axotomized rat retinal ganglion cells in vivo. <b>1999</b> , 453, 361-4	113
2099	Cells depleted of mitochondrial DNA (rho0) yield insight into physiological mechanisms. <b>1999</b> , 454, 173-6	153
2098	Caspases-3 and -7 are activated in goniothalamin-induced apoptosis in human Jurkat T-cells. <b>1999</b> , 456, 379-83	63
2097	Thermotolerance and cell death are distinct cellular responses to stress: dependence on heat shock proteins. <b>1999</b> , 461, 306-10	97
2096	Proteolytic cleavage of protein kinase C $\mu$ upon induction of apoptosis in U937 cells. <b>1999</b> , 462, 442-6	25
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2093	Measles virus infection in a transgenic model: virus-induced immunosuppression and central nervous system disease. <b>1999</b> , 98, 629-40	130
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2091	The Drosophila caspase inhibitor DIAP1 is essential for cell survival and is negatively regulated by HID. <b>1999</b> , 98, 453-63	435
2090	Mitochondrial physiology and pathology; concepts of programmed death of organelles, cells and organisms. <b>1999</b> , 20, 139-84	215

2089	Enhanced anti-inflammatory effects of a nitric oxide-releasing derivative of mesalamine in rats. <b>1999</b> , 117, 557-66	79
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2084	Addiction modules and programmed cell death and antideath in bacterial cultures. <b>1999</b> , 53, 43-70	316
2083	Sterols and isoprenoids: signaling molecules derived from the cholesterol biosynthetic pathway. <b>1999</b> , 68, 157-85	393
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2079	An APAF-1.cytochrome c multimeric complex is a functional apoptosome that activates procaspase-9. <b>1999</b> , 274, 11549-56	1551
2078	Sphingosine kinase expression increases intracellular sphingosine-1-phosphate and promotes cell growth and survival. <b>1999</b> , 147, 545-58	464
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2074	Tumor radiosensitivity and apoptosis. <b>1999</b> , 248, 10-7	121
2073	Escaping cell death: survival proteins in cancer. <b>1999</b> , 248, 30-43	546
2072	Protease activation in apoptosis induced by MAL. <b>1999</b> , 249, 260-8	60



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2070	Caspase activation is downstream of commitment to apoptosis of Ntera-2 neuronal cells. <b>1999</b> , 251, 203-12	16
2069	The regulation and activities of the multifunctional serine/threonine kinase Akt/PKB. <b>1999</b> , 253, 210-29	755
2068	Recent advances on the pathogenesis of Huntington's disease. <b>1999</b> , 157, 1-18	110
2067	Long-term effect of inhibition of ced 3-like caspases on the survival of axotomized retinal ganglion cells in vivo. <b>1999</b> , 158, 202-5	38
2066	Effects of ciliary neurotrophic factor on excitotoxicity and calcium-ionophore A23187-induced cell death in cultured embryonic striatal neurons. <b>1999</b> , 160, 402-12	13
2065	Crystal structure of Apaf-1 caspase recruitment domain: an alpha-helical Greek key fold for apoptotic signaling. <b>1999</b> , 293, 439-47	70
2064	Irreversible caspase inhibitors: tools for studying apoptosis. <b>1999</b> , 17, 320-8	37
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2061	Activation of caspase-3 apoptotic pathways in skeletal muscle fibers in laminin alpha2-deficient mice. <b>1999</b> , 260, 139-42	47
2060	Gastric mucosal inflammatory responses to Helicobacter pylori lipopolysaccharide: down-regulation of nitric oxide synthase-2 and caspase-3 by sulglycotide. <b>1999</b> , 261, 15-20	22
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2058	Akt phosphorylation site found in human caspase-9 is absent in mouse caspase-9. <b>1999</b> , 264, 550-5	162
2057	Single-strand breaks in agarose-embedded chromatin of nonapoptotic cells. <b>1999</b> , 264, 388-94	9
2056	Bad overexpression sensitizes NIH/3T3 cells to undergo apoptosis which involves caspase activation and ERK inactivation. <b>1999</b> , 264, 724-9	23
2055	Phosphatidylserine exposure during apoptosis is a cell-type-specific event and does not correlate with plasma membrane phospholipid scramblase expression. <b>1999</b> , 266, 504-11	122
2054	Oocyte apoptosis: like sand through an hourglass. <b>1999</b> , 213, 1-17	305

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2047	Apomodulation as a novel therapeutic concept for the regulation of apoptosis in rheumatoid synoviocytes. <b>1999</b> , 11, 188-93	17
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2045	Protooncogenes as mediators of apoptosis. <b>2000</b> , 197, 137-202	23
2044	Criteria for identifying authentic caspase substrates during apoptosis. <b>2000</b> , 322, 110-25	7
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2039	Improving the survival of grafted dopaminergic neurons: a review over current approaches. <b>2000</b> , 9, 179-95	287
2038	Molecular mechanisms of butylated hydroxyanisole-induced toxicity: induction of apoptosis through direct release of cytochrome c. <b>2000</b> , 58, 431-7	60
2037	Apoptosis or senescence-like growth arrest: influence of cell-cycle position, p53, p21 and bax in H2O2 response of normal human fibroblasts. <b>2000</b> , 347, 543-51	138
2036	Continuing damage to rat retinal DNA during darkness following light exposure. <b>2000</b> , 71, 559-66	10

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1934	The most unkindest cut of all: on the multiple roles of mammalian caspases. <b>2000</b> , 14, 1514-25	86
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1932	Ras/MEK signaling suppresses Myc-dependent apoptosis in cells transformed by c-myc and activated ras. <b>2000</b> , 19, 115-23	35
1931	Acquired alkylating drug resistance of a human ovarian carcinoma cell line is unaffected by altered levels of pro- and anti-apoptotic proteins. <b>2000</b> , 19, 141-50	22
1930	Role of TRAF2/GCK in melanoma sensitivity to UV-induced apoptosis. <b>2000</b> , 19, 933-42	33
1929	Epidermal growth factor (EGF) suppresses staurosporine-induced apoptosis by inducing mcl-1 via the mitogen-activated protein kinase pathway. <b>2000</b> , 19, 1665-75	89
1928	Yeast homolog of human SAG/ROC2/Rbx2/Hrt2 is essential for cell growth, but not for germination: chip profiling implicates its role in cell cycle regulation. <b>2000</b> , 19, 2855-66	51



1927	The interferon-induced protein kinase (PKR), triggers apoptosis through FADD-mediated activation of caspase 8 in a manner independent of Fas and TNF-alpha receptors. <b>2000</b> , 19, 3665-74	89
1926	Paclitaxel sensitivity of breast cancer cells with constitutively active NF-kappaB is enhanced by IkappaBalpha super-repressor and parthenolide. <b>2000</b> , 19, 4159-69	253
1925	Autoamplification of apoptosis following ligation of CD95-L, TRAIL and TNF-alpha. <b>2000</b> , 19, 4255-62	34
1924	Characterization of distinct consecutive phases in non-genotoxic p53-induced apoptosis of Ewing tumor cells and the rate-limiting role of caspase 8. <b>2000</b> , 19, 4096-107	29
1923	Bax and Bcl-xL independently regulate apoptotic changes of yeast mitochondria that require VDAC but not adenine nucleotide translocator. <b>2000</b> , 19, 4309-18	135
1922	Implication of multiple mechanisms in apoptosis induced by the synthetic retinoid CD437 in human prostate carcinoma cells. <b>2000</b> , 19, 4513-22	56
1921	Caspase-8/FLICE functions as an executioner caspase in anticancer drug-induced apoptosis. <b>2000</b> , 19, 4563-73	228
1920	Human gelsolin prevents apoptosis by inhibiting apoptotic mitochondrial changes via closing VDAC. <b>2000</b> , 19, 4807-14	148
1919	A novel protein, RTN-XS, interacts with both Bcl-XL and Bcl-2 on endoplasmic reticulum and reduces their anti-apoptotic activity. <b>2000</b> , 19, 5736-46	146
1918	Apoptosis in the vasculature: mechanisms and functional importance. <b>2000</b> , 130, 947-62	246
1917	Bcl-2 family gene expression during severe hyperoxia induced lung injury. <b>2000</b> , 80, 1845-54	59
1916	Negative regulation of the Apaf-1 apoptosome by Hsp70. <b>2000</b> , 2, 476-83	695
1915	Structural and biochemical basis of apoptotic activation by Smac/DIABLO. <b>2000</b> , 406, 855-62	699
1914	Hsp27 negatively regulates cell death by interacting with cytochrome c. <b>2000</b> , 2, 645-52	798
1913	The biochemistry of apoptosis. <b>2000</b> , 407, 770-6	5867
1912	Apoptosis in development. <b>2000</b> , 407, 796-801	747
1911	Primary cells suppress oncogene-dependent apoptosis. <b>2000</b> , 2, 859-62	53
1910	A novel mitochondrial septin-like protein, ARTS, mediates apoptosis dependent on its P-loop motif. <b>2000</b> , 2, 915-21	204

1909	Introduction: Targeted modulation of neuronal apoptosis: a double-edged sword?. <b>2000</b> , 10, 273-5	1
1908	Apoptosis inhibitory effect of the isothiourea compound, tri-(2-thioureido-S-ethyl)-amine. <b>2000</b> , 47, 25-33	6
1907	Intracellular mediators of programmed cell death initiated at the cell surface receptor Fas. <b>2000</b> , 13, S3-S6	4
1906	Controlling the mitochondrial gatekeeper for effective chemotherapy. <b>2000</b> , 111, 52-60	
1905	Attenuation of Alcohol-Induced Apoptosis of Hepatocytes in Rat Livers by Polyenylphosphatidylcholine (PPC). <b>2000</b> , 24, 207-212	50
1904	Cleavage of Bax-alpha and Bcl-x(L) during carboplatin-mediated apoptosis in squamous cell carcinoma cell line. <b>2000</b> , 36, 277-85	27
1903	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. <b>2000</b> , 28, 743-53	111
1902	Separation of cytochrome c-dependent caspase activation from thiol-disulfide redox change in cells lacking mitochondrial DNA. <b>2000</b> , 29, 334-42	43
1901	Hydrogen peroxide inhibits activation, not activity, of cellular caspase-3 in vivo. <b>2000</b> , 29, 684-92	75
1900	Expression and activation of caspase-3/CPP32 in CD34(+) cord blood cells is linked to apoptosis after growth factor withdrawal. <b>2000</b> , 28, 907-15	27
1899	Death in the snow: report on Keystone Conference on 'Apoptosis and Programmed Cell Death' at Breckenridge, CO, April 6-11th 1999. <b>2000</b> , 1470, R1-R11	1
1898	Activation of caspase cascades in Korean mistletoe ( <i>Viscum album</i> var. <i>coloratum</i> ) lectin-II-induced apoptosis of human myeloleukemic U937 cells. <b>2000</b> , 34, 349-55	43
1897	Apoptosis, anoikis and their relevance to the pathobiology of colon cancer. <b>2000</b> , 50, 273-9	116
1896	Apoptosis and cell division. <b>2000</b> , 12, 257-63	58
1895	Integrin signalling: a new Cas(t) of characters enters the stage. <b>2000</b> , 10, 111-9	266
1894	Crystal structure of the apoptotic suppressor CrmA in its cleaved form. <b>2000</b> , 8, 789-97	47
1893	To be, or not to be, that is the question. Apoptosis in human trophoblast. <b>2000</b> , 21, 1-13	106
1892	Nuclear localization of procaspase-9 and processing by a caspase-3-like activity in mammary epithelial cells. <b>2000</b> , 79, 358-64	39

1891	Beta-amyloid-induced activation of caspase-3 in primary cultures of rat neurons. <b>2000</b> , 119, 63-7	59
1890	The role of nitric oxide in apoptosis. <b>2000</b> , 24, 46-50	25
1889	Detection of caspase-9 activation in the cell death of the Bcl-x-deficient mouse embryo nervous system by cleavage sites-directed antisera. <b>2000</b> , 122, 135-47	24
1888	Expression of bcl-2, bax, and caspase-3 in the brain of the developing rat. <b>2000</b> , 123, 103-17	71
1887	T-cell anti-apoptotic mechanisms in inflammatory myopathies. <b>2000</b> , 111, 146-51	26
1886	Lysosomal cysteine proteases: more than scavengers. <b>2000</b> , 1477, 98-111	586
1885	Caspases - controlling intracellular signals by protease zymogen activation. <b>2000</b> , 1477, 299-306	240
1884	Detection of caspase-activation in intact lymphoid cells using standard caspase substrates and inhibitors. <b>2000</b> , 241, 19-31	22
1883	Flow cytometry of apoptotic cell death. <b>2000</b> , 243, 167-90	565
1882	Plasmacytes from the moth <i>Pseudoplusia includens</i> induce apoptosis of granular cells. <b>2000</b> , 46, 1565-1573	57
1881	3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole (Trp-P-1) induces apoptosis in rat splenocytes and thymocytes by different mechanisms. <b>2000</b> , 457, 57-67	10
1880	Receptors in neurodegenerative diseases. <b>2000</b> , 74, 247-51	4
1879	Caspase-8 activation independent of CD95/CD95-L interaction during paclitaxel-induced apoptosis in human colon cancer cells (HT29-D4). <b>2000</b> , 60, 1579-84	81
1878	Caspase inhibitors are functionally neuroprotective against oxygen glucose deprivation induced CA1 death in rat organotypic hippocampal slices. <b>2000</b> , 867, 62-9	56
1877	Region-specific attenuation of a trypsin-like protease in substantia nigra following dopaminergic neurotoxicity by 1-methyl-4-phenyl-1,2, 3,6-tetrahydropyridine. <b>2000</b> , 882, 191-5	7
1876	Role of specific apoptotic pathways in the restoration of paclitaxel-induced apoptosis by valspodar in doxorubicin-resistant MCF-7 breast cancer cells. <b>2000</b> , 59, 231-44	32
1875	Is neuronal injury caused by hypoglycemic coma of the necrotic or apoptotic type?. <b>2000</b> , 25, 661-7	30
1874	Regulated overexpression of the survival factor bcl-2 in CHO cells increases viable cell density in batch culture and decreases DNA release in extended fixed-bed cultivation. <b>2000</b> , 32, 45-61	36

1873	Mechanisms of cyclosporine A-induced apoptosis in rat hepatocyte primary cultures. <b>2000</b> , 163, 209-20	55
1872	Possible role of caspase-3 inhibition in cadmium-induced blockage of apoptosis. <b>2000</b> , 164, 321-9	79
1871	Cellular glutathione status modulates polychlorinated biphenyl-induced stress response and apoptosis in vascular endothelial cells. <b>2000</b> , 166, 36-42	68
1870	2,2',4,6,6'-pentachlorobiphenyl induces apoptosis in human monocytic cells. <b>2000</b> , 169, 1-7	42
1869	Poliovirus protease 3C(pro) kills cells by apoptosis. <b>2000</b> , 266, 352-60	105
1868	Hsp27 functions as a negative regulator of cytochrome c-dependent activation of procaspase-3. <b>2000</b> , 19, 1975-81	265
1867	Nitric oxide prevents tumor necrosis factor alpha-induced rat hepatocyte apoptosis by the interruption of mitochondrial apoptotic signaling through S-nitrosylation of caspase-8. <b>2000</b> , 32, 770-8	184
1866	Transforming growth factor-beta(1) induces apoptosis in rat FaO hepatoma cells via cytochrome c release and oligomerization of Apaf-1 to form a approximately 700-kd apoptosome caspase-processing complex. <b>2000</b> , 32, 750-60	46
1865	Cytochrome P450-generated reactive metabolites cause mitochondrial permeability transition, caspase activation, and apoptosis in rat hepatocytes. <b>2000</b> , 32, 303-11	99
1864	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. <b>2000</b> , 82, 1991-9	87
1863	The apoptotic signaling pathway activated by Toll-like receptor-2. <b>2000</b> , 19, 3325-36	385
1862	Negative regulation of cytochrome c-mediated oligomerization of Apaf-1 and activation of procaspase-9 by heat shock protein 90. <b>2000</b> , 19, 4310-22	410
1861	The N-terminal 34 kDa fragment of Helicobacter pylori vacuolating cytotoxin targets mitochondria and induces cytochrome c release. <b>2000</b> , 19, 6361-70	261
1860	The Drosophila caspase DRONC is regulated by DIAP1. <b>2000</b> , 19, 598-611	278
1859	Caspase-like protease involvement in the control of plant cell death. <b>2000</b> , 44, 417-28	163
1858	Programmed cell death in plant reproduction. <b>2000</b> , 44, 267-81	203
1857	Regulators of cell death in disease resistance. <b>2000</b> , 44, 371-85	121
1856	RGD peptide-induced apoptosis in human leukemia HL-60 cells requires caspase-3 activation. <b>2000</b> , 16, 275-83	28

1855	Putative role of the phosphatidylinositol 3-kinase-Akt signaling pathway in the survival of granulosa cells. <b>2000</b> , 12, 315-21	38
1854	The role of apoptosis in regulating hematopoiesis and hematopoietic stem cells. <b>2000</b> , 22, 83-94	36
1853	A yeast genetic assay for caspase cleavage of the amyloid-beta precursor protein. <b>2000</b> , 15, 29-37	7
1852	Neural activity and survival in the developing nervous system. <b>2000</b> , 22, 41-54	97
1851	Inhibition of angiotensin-converting enzyme protects endothelial cell against hypoxia/reoxygenation injury. <b>2000</b> , 11, 257-66	16
1850	A novel form of DAP5 protein accumulates in apoptotic cells as a result of caspase cleavage and internal ribosome entry site-mediated translation. <b>2000</b> , 20, 496-506	157
1849	Apoptosis after traumatic brain injury. <b>2000</b> , 17, 927-38	349
1848	What animal models have taught us about the treatment of acute stroke and brain protection. <b>2000</b> , 2, 167-80	11
1847	Myelodysplasia and apoptosis: new insights into ineffective erythropoiesis. <b>2000</b> , 17, 16-21	11
1846	Activation of antioxidant-response element (ARE), mitogen-activated protein kinases (MAPKs) and caspases by major green tea polyphenol components during cell survival and death. <b>2000</b> , 23, 605-12	340
1845	Signal transduction events elicited by natural products: role of MAPK and caspase pathways in homeostatic response and induction of apoptosis. <b>2000</b> , 23, 1-16	212
1844	Induction of apoptosis by extracellular ubiquitin in human hematopoietic cells: possible involvement of STAT3 degradation by proteasome pathway in interleukin 6-dependent hematopoietic cells. <b>2000</b> , 95, 2577-2585	99
1843	Evaluation of Apaf-1 and procaspases-2, -3, -7, -8, and -9 as potential prognostic markers in acute leukemia. <b>2000</b> , 96, 3922-3931	50
1842	Nitric oxide induces apoptosis in megakaryocytic cell lines. <b>2000</b> , 95, 3451-3459	52
1841	NucleophosminBnplastic lymphoma kinase associated with anaplastic large-cell lymphoma activates the phosphatidylinositol 3-kinase/Akt antiapoptotic signaling pathway. <b>2000</b> , 96, 4319-4327	254
1840	HIV-1 gp120- and gp160-induced apoptosis in cultured endothelial cells is mediated by caspases. <b>2000</b> , 96, 1438-1442	91
1839	Apoptosis is rapidly triggered by antisense depletion of MCL-1 in differentiating U937 cells. <b>2000</b> , 96, 1756-1763	123
1838	Specific and rapid induction of the proapoptotic protein Hrk after growth factor withdrawal in hematopoietic progenitor cells. <b>2000</b> , 95, 2742-2747	47

1837	Cellular zinc fluxes and the regulation of apoptosis/gene-directed cell death. <b>2000</b> , 130, 1459S-66S	154
1836	c-fos controls the "private pathway" of light-induced apoptosis of retinal photoreceptors. <b>2000</b> , 20, 81-8	143
1835	Tissue-specific Bcl-2 protein partners in apoptosis: An ovarian paradigm. <b>2000</b> , 80, 593-614	135
1834	Caspase-2 mediates neuronal cell death induced by beta-amyloid. <b>2000</b> , 20, 1386-92	313
1833	Fas and Fas ligand in gut and liver. <b>2000</b> , 278, G354-66	100
1832	Poly(A) Polymerase Specifically Implicated in the Mechanism of Chemotherapeutic Drug Action during Cell Apoptosis. <b>2000</b> , 15, 10-14	4
1831	Akt-mediated survival of oligodendrocytes induced by neuregulins. <b>2000</b> , 20, 7622-30	155
1830	Ribozyme-mediated inhibition of caspase-3 protects cerebellar granule cells from apoptosis induced by serum-potassium deprivation. <b>2000</b> , 20, 179-86	41
1829	Proteasome inhibitors induce cytochrome c-caspase-3-like protease-mediated apoptosis in cultured cortical neurons. <b>2000</b> , 20, 259-65	218
1828	Role of apoptosis in pathogenesis and progression of renal diseases. <b>2000</b> , 86, 99-104	26
1827	Target-related and intrinsic neuronal death in Lurcher mutant mice are both mediated by caspase-3 activation. <b>2000</b> , 20, 992-1000	61
1826	Full oncogenic activities of v-Src are mediated by multiple signaling pathways. Ras as an essential mediator for cell survival. <b>2000</b> , 275, 24096-105	53
1825	Anticancer Drug Action on Poly(A) Polymerase Activity and Isoforms during Hela and Wish Cell Apoptosis. <b>2000</b> , 15, 171-178	7
1824	Peroxynitrite-induced apoptosis involves activation of multiple caspases in HL-60 cells. <b>2000</b> , 279, C341-51	75
1823	Interactions of hemoglobin with hydrogen peroxide alters thiol levels and course of endothelial cell death. <b>2000</b> , 279, H1880-9	29
1822	Bcl-2 in LPS- and allergen-induced hyperplastic mucous cells in airway epithelia of Brown Norway rats. <b>2000</b> , 279, L1210-7	47
1821	Urea protects from the proapoptotic effect of NaCl in renal medullary cells. <b>2000</b> , 279, F345-52	30
1820	Presenilin-1 P264L knock-in mutation: differential effects on abeta production, amyloid deposition, and neuronal vulnerability. <b>2000</b> , 20, 8717-26	116

1819	Delaying caspase activation by Bcl-2: A clue to disease retardation in a transgenic mouse model of amyotrophic lateral sclerosis. <b>2000</b> , 20, 9119-25	139
1818	Inhibition of proteasome function induces programmed cell death in proliferating endothelial cells. <b>2000</b> , 14, 65-77	146
1817	Apoptosis-induced cleavage of beta-catenin by caspase-3 results in proteolytic fragments with reduced transactivation potential. <b>2000</b> , 275, 16345-53	127
1816	Gelsolin inhibits apoptosis by blocking mitochondrial membrane potential loss and cytochrome c release. <b>2000</b> , 275, 15343-9	180
1815	Wee1-regulated apoptosis mediated by the crk adaptor protein in Xenopus egg extracts. <b>2000</b> , 151, 1391-400	27
1814	Cytochrome c promotes caspase-9 activation by inducing nucleotide binding to Apaf-1. <b>2000</b> , 275, 31199-203	361
1813	Caspase activation and cytochrome c release during HL-60 cell apoptosis induced by a nitric oxide donor. <b>2000</b> , 32, 507-14	61
1812	Biochemical and genetic interactions between Drosophila caspases and the proapoptotic genes rpr, hid, and grim. <b>2000</b> , 20, 2907-14	90
1811	Bax degradation by the ubiquitin/proteasome-dependent pathway: involvement in tumor survival and progression. <b>2000</b> , 97, 3850-5	378
1810	Simian virus 40 large T antigen binds a novel Bcl-2 homology domain 3-containing proapoptosis protein in the cytoplasm. <b>2000</b> , 275, 3239-46	59
1809	Essential role for caspase-8 in transcription-independent apoptosis triggered by p53. <b>2000</b> , 275, 38905-11	104
1808	Topoisomerase II is required for mitoxantrone to signal nuclear factor kappa B activation in HL60 cells. <b>2000</b> , 275, 25231-8	50
1807	Bcl-2 independence of flavopiridol-induced apoptosis. Mitochondrial depolarization in the absence of cytochrome c release. <b>2000</b> , 275, 32089-97	48
1806	Glycogen synthase kinase-3beta facilitates staurosporine- and heat shock-induced apoptosis. Protection by lithium. <b>2000</b> , 275, 7583-90	254
1805	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. <b>2000</b> , 97, 577-82	248
1804	A novel apoptotic pathway induced by nerve growth factor-mediated TrkA activation in medulloblastoma. <b>2000</b> , 275, 565-70	48
1803	Gelsolin in complex with phosphatidylinositol 4,5-bisphosphate inhibits caspase-3 and -9 to retard apoptotic progression. <b>2000</b> , 275, 3761-6	83
1802	Caspase inhibitor P35 and inhibitor of apoptosis Op-IAP block in vivo proteolytic activation of an effector caspase at different steps. <b>2000</b> , 275, 15657-64	83

1801	Gastrulation defective is a serine protease involved in activating the receptor toll to polarize the <i>Drosophila</i> embryo. <b>2000</b> , 97, 9093-7	26
1800	Bcl-x(L) prevents the initial decrease in mitochondrial membrane potential and subsequent reactive oxygen species production during tumor necrosis factor alpha-induced apoptosis. <b>2000</b> , 20, 5680-9	286
1799	Apaf-1 oligomerizes into biologically active approximately 700-kDa and inactive approximately 1.4-MDa apoptosome complexes. <b>2000</b> , 275, 6067-70	244
1798	Cytochrome c binding to Apaf-1: the effects of dATP and ionic strength. <b>2000</b> , 97, 11928-31	94
1797	A novel activation mechanism of caspase-activated DNase from <i>Drosophila melanogaster</i> . <b>2000</b> , 275, 12978-86	48
1796	Overexpression of catalase in the mitochondrial or cytosolic compartment increases sensitivity of HepG2 cells to tumor necrosis factor-alpha-induced apoptosis. <b>2000</b> , 275, 19241-9	59
1795	Left ventricular hypertrophy in ascending aortic stenosis mice: anoikis and the progression to early failure. <b>2000</b> , 101, 2854-62	119
1794	NF-kappaB inhibits apoptosis in murine mammary epithelia. <b>2000</b> , 275, 12737-42	98
1793	Kinetics and mechanism of ATP-dependent IL-1 beta release from microglial cells. <b>2000</b> , 164, 4893-8	237
1792	Caspase enzyme activity is not essential for apoptosis during thymocyte development. <b>2000</b> , 164, 4071-9	74
1791	Nitric oxide induces thymocyte apoptosis via a caspase-1-dependent mechanism. <b>2000</b> , 165, 1252-8	37
1790	Toward antiapoptosis as a new treatment modality. <b>2000</b> , 86, 371-6	69
1789	Drob-1, a <i>Drosophila</i> member of the Bcl-2/CED-9 family that promotes cell death. <b>2000</b> , 97, 662-7	138
1788	Atm and Bax cooperate in ionizing radiation-induced apoptosis in the central nervous system. <b>2000</b> , 97, 889-94	127
1787	Rho family proteins modulate rapid apoptosis induced by cytotoxic T lymphocytes and Fas. <b>2000</b> , 275, 9725-33	203
1786	HIV-1 envelope induces activation of caspase-3 and cleavage of focal adhesion kinase in primary human CD4(+) T cells. <b>2000</b> , 97, 1178-83	112
1785	Chronic <i>Helicobacter pylori</i> infection induces an apoptosis-resistant phenotype associated with decreased expression of p27(kip1). <b>2000</b> , 68, 5321-8	58
1784	Cleavage of the actin-capping protein alpha-adducin at Asp-Asp-Ser-Asp633-Ala by caspase-3 is preceded by its phosphorylation on serine 726 in cisplatin-induced apoptosis of renal epithelial cells. <b>2000</b> , 275, 25805-13	53



1783	Involvement of sphingosine in mitochondria-dependent Fas-induced apoptosis of type II Jurkat T cells. <b>2000</b> , 275, 15691-700	136
1782	Demonstration of the in vivo interaction of key cell death regulators by structure-based design of second-site suppressors. <b>2000</b> , 97, 11916-21	45
1781	Selenite negatively regulates caspase-3 through a redox mechanism. <b>2000</b> , 275, 8487-91	56
1780	Regulation of apoptosis at cell division by p34cdc2 phosphorylation of survivin. <b>2000</b> , 97, 13103-7	537
1779	Coregulation of neurite outgrowth and cell survival by amphotericin and S100 proteins through receptor for advanced glycation end products (RAGE) activation. <b>2000</b> , 275, 40096-105	442
1778	Transgenic mice neuronally expressing baculoviral p35 are resistant to diverse types of induced apoptosis, including seizure-associated neurodegeneration. <b>2000</b> , 97, 2270-5	47
1777	Characterization of calcium release-activated apoptosis of LNCaP prostate cancer cells. <b>2000</b> , 275, 11470-7	105
1776	Caspase-3-like activity determines the type of cell death following ionizing radiation in MOLT-4 human leukaemia cells. <b>2000</b> , 83, 642-9	36
1775	Excessive apoptosis in low risk myelodysplastic syndromes (MDS). <b>2000</b> , 40, 1-24	35
1774	Determination of caspase specificities using a peptide combinatorial library. <b>2000</b> , 322, 100-10	49
1773	Apoptosis and the pathogenesis of lymphoma. <b>2000</b> , 39, 151-6	33
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1770	Effects of protease inhibitors and antioxidants on In vitro survival of porcine primordial germ cells. <b>2000</b> , 63, 887-97	29
1769	Identification of GRIM-19, a novel cell death-regulatory gene induced by the interferon-beta and retinoic acid combination, using a genetic approach. <b>2000</b> , 275, 33416-26	170
1768	Apoptotic signaling through the beta -adrenergic receptor. A new Gs effector pathway. <b>2000</b> , 275, 20726-33	82
1767	Nitric oxide down-regulates MKP-3 mRNA levels: involvement in endothelial cell protection from apoptosis. <b>2000</b> , 275, 25502-7	101
1766	The cAMP-specific phosphodiesterase PDE4A5 is cleaved downstream of its SH3 interaction domain by caspase-3. Consequences for altered intracellular distribution. <b>2000</b> , 275, 28063-74	41

1765	The IAP proteins: caspase inhibitors and beyond. <b>2000</b> , 2000, pe1	31
1764	Caspases disrupt the nuclear-cytoplasmic barrier. <b>2000</b> , 151, 951-9	204
1763	Apoptosis and gastrointestinal disease. <b>2000</b> , 31, 356-61	4
1762	Lung infections: role of apoptosis in host defense and pathogenesis of disease. <b>2000</b> , 117, 1771-7	32
1761	Selective depletion of heat shock protein 70 (Hsp70) activates a tumor-specific death program that is independent of caspases and bypasses Bcl-2. <b>2000</b> , 97, 7871-6	347
1760	Cytochrome c release, mitochondrial membrane depolarization, caspase-3 activation, and Bax-alpha cleavage during IFN-alpha-induced apoptosis in Daudi B lymphoma cells. <b>2000</b> , 20, 1121-9	53
1759	Monitoring activity of caspases and their regulators in yeast <i>Saccharomyces cerevisiae</i> . <b>2000</b> , 322, 162-74	14
1758	Protein kinase C modulation and anticancer drug response. <b>2000</b> , 18, 731-9	16
1757	Alterations in bcl-2 and caspase gene family protein expression in human temporal lobe epilepsy. <b>2000</b> , 55, 250-7	127
1756	Cyclooxygenase 2 promotes cell survival by stimulation of dynein light chain expression and inhibition of neuronal nitric oxide synthase activity. <b>2000</b> , 20, 8571-9	75
1755	The glucagon-like peptide-2 receptor mediates direct inhibition of cellular apoptosis via a cAMP-dependent protein kinase-independent pathway. <b>2000</b> , 275, 35345-52	81
1754	Bcl-2 blocks a caspase-dependent pathway of apoptosis activated by herpes simplex virus 1 infection in HEP-2 cells. <b>2000</b> , 74, 1931-8	56
1753	Specific chaperone-like activity of inhibitor of caspase-activated DNase for caspase-activated DNase. <b>2000</b> , 275, 8091-6	47
1752	Plakoglobin regulates the expression of the anti-apoptotic protein BCL-2. <b>2000</b> , 275, 10905-11	71
1751	Survival motor neuron protein modulates neuron-specific apoptosis. <b>2000</b> , 97, 13312-7	90
1750	A dominant negative Fas-associated death domain protein mutant inhibits proliferation and leads to impaired calcium mobilization in both T-cells and fibroblasts. <b>2000</b> , 275, 10453-62	61
1749	Regulatory mechanisms of TRAF2-mediated signal transduction by Bcl10, a MALT lymphoma-associated protein. <b>2000</b> , 275, 11114-20	63
1748	Protease-elicited TUNEL positivity of non-apoptotic fixed cells. <b>2000</b> , 48, 963-70	31

1747	Akt regulates cell survival and apoptosis at a postmitochondrial level. <b>2000</b> , 151, 483-94	384
1746	Tripeptidyl peptidase II promotes maturation of caspase-1 in <i>Shigella flexneri</i> -induced macrophage apoptosis. <b>2000</b> , 68, 5502-8	43
1745	Molecular determinants of the caspase-promoting activity of Smac/DIABLO and its role in the death receptor pathway. <b>2000</b> , 275, 36152-7	264
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1743	Identification and developmental expression of inhibitor of caspase-activated DNase (ICAD) in <i>Drosophila melanogaster</i> . <b>2000</b> , 275, 21402-8	39
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1738	Sensitivity to Fas-mediated apoptosis is determined below receptor level in human vascular smooth muscle cells. <b>2000</b> , 86, 1038-46	54
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1730	The Fas-induced apoptosis analyzed by high throughput proteome analysis. <b>2000</b> , 275, 39018-26	132

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1715	Jasplakinolide induces apoptosis in various transformed cell lines by a caspase-3-like protease-dependent pathway. <b>2000</b> , 7, 947-52	103
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1703	Apoptosis induced by cadmium in human lymphoma U937 cells through Ca <sup>2+</sup> -calpain and caspase-mitochondria- dependent pathways. <b>2000</b> , 275, 39702-9	178
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1699	Inhibition of cyclin-dependent kinase activity and induction of apoptosis by preussin in human tumor cells. <b>2000</b> , 44, 2794-801	45
1698	The viral nucleocapsid protein of transmissible gastroenteritis coronavirus (TGEV) is cleaved by caspase-6 and -7 during TGEV-induced apoptosis. <b>2000</b> , 74, 3975-83	75
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1696	Analysis of Ras-dependent signals that prevent caspase-3 activation and apoptosis induced by cytokine deprivation in hematopoietic cells. <b>2000</b> , 267, 449-55	36
1695	Activation of caspase-3 in molt4 cells by apoptosis-inducing nucleosides from CD57(+)HLA-DR(bright) natural suppressor cell line. <b>2000</b> , 268, 514-20	8
1694	Mitochondria and caspases in induced apoptosis in human luteinized granulosa cells. <b>2000</b> , 269, 542-5	51

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1681	Heat shock protein 70 inhibits caspase-dependent and -independent apoptosis in Jurkat T cells. <b>2000</b> , 257, 58-66	176
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1675	Caspase activation and mitochondrial cytochrome C release during hypoxia-mediated apoptosis of adult ventricular myocytes. <b>2000</b> , 32, 53-63	118
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1661	Overexpression of Bcl-2 protects from ultraviolet B-induced apoptosis but promotes hair follicle regression and chemotherapy-induced alopecia. <b>2000</b> , 156, 1395-405	43
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1625	Caspase-3 and inhibitor of apoptosis protein(s) interactions in <i>Saccharomyces cerevisiae</i> and mammalian cells. <b>2000</b> , 481, 13-8	33
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750	Bimodal Fluorescence-Magnetic Resonance Contrast Agent for Apoptosis Imaging. <b>2019</b> , 141, 6224-6233	64
749	Herpes Simplex Virus Type 1 Infection of the Central Nervous System: Insights Into Proposed Interrelationships With Neurodegenerative Disorders. <b>2019</b> , 13, 46	53
748	Real-Time in Situ Visualizing of the Sequential Activation of Caspase Cascade Using a Multicolor Gold-Selenium Bonding Fluorescent Nanoprobe. <b>2019</b> , 91, 5994-6002	27
747	Neuroprotective effects of Scrophularia buergeriana extract against glutamate-induced toxicity in SH-SY5Y cells. <b>2019</b> , 43, 2144-2152	19
746	SHP-1 inhibits renal ischemia reperfusion injury via dephosphorylating ASK1 and suppressing apoptosis. <b>2019</b> , 513, 360-367	4
745	Saikosaponin D efficiently inhibits SVCV infection in vitro and in vivo. <b>2019</b> , 504, 281-290	22
744	Methioninase Gene Therapy. <b>2019</b> , 1866, 173-197	
743	Receptor interacting protein kinases-dependent necroptosis as a new, potent mechanism for elimination of the endothelial cells during luteolysis in cow. <b>2019</b> , 128, 193-200	3
742	Study of a common azo food dye in mice model: Toxicity reports and its relation to carcinogenicity. <b>2019</b> , 7, 667-677	23
741	Molecular, Biological and Structural Features of V CDR-1 Rb44 Peptide, Which Targets the Microtubule Network in Melanoma Cells. <b>2019</b> , 9, 25	1
740	Evaluation of the anticancer potential of a sulphonamide carbonic anhydrase IX inhibitor on cervical cancer cells. <b>2019</b> , 34, 703-711	13

739	Efficacy and safety of alpha lipoic acid-capped silver nanoparticles for oral applications.. <b>2019</b> , 9, 6973-6985	15
738	Effect of iron overload from multi walled carbon nanotubes on neutrophil-like differentiated HL-60 cells. <b>2019</b> , 9, 2224	17
737	Precise control of apoptosis via gold nanostars for dose dependent photothermal therapy of melanoma. <b>2019</b> , 7, 6934-6944	8
736	Antiproliferative and apoptosis-inducing effect of common Tunisian date seed (var. Korkobbi and Arehti) phytochemical-rich methanolic extract. <b>2019</b> , 26, 36264-36273	3
735	Non-SMC condensin I complex subunit H mediates mature chromosome condensation and DNA damage in pancreatic cancer cells. <b>2019</b> , 9, 17889	4
734	Levels of caspase-3 and histidine-rich glycoprotein in the embryo secretome as biomarkers of good-quality day-2 embryos and high-quality blastocysts. <b>2019</b> , 14, e0226419	9
733	Animal Venom Peptides as a Treasure Trove for New Therapeutics Against Neurodegenerative Disorders. <b>2019</b> , 26, 4749-4774	12
732	Metacaspase involvement in programmed cell death of the marine cyanobacterium <i>Trichodesmium</i> . <b>2019</b> , 21, 667-681	15
731	The isolation, structural characterization, and anticancer activity from the aerial parts of <i>Cymbopogon flexuosus</i> . <b>2019</b> , 43, e12718	
730	Structure-activity relationships for highly potent half-sandwich organoiridium(III) anticancer complexes with C <sup>N</sup> -chelated ligands. <b>2019</b> , 191, 1-7	18
729	8-Cetylcoptisine, a new coptisine derivative, induces mitochondria-dependent apoptosis and G0/G1 cell cycle arrest in human A549 cells. <b>2019</b> , 299, 27-36	8
728	Oxygen-Releasing Microparticles for Cell Survival and Differentiation Ability under Hypoxia for Effective Bone Regeneration. <b>2019</b> , 20, 1087-1097	23
727	Cleavage of arrestin-3 by caspases attenuates cell death by precluding arrestin-dependent JNK activation. <b>2019</b> , 54, 161-169	4
726	Dexmedetomidine improves acute stress-induced liver injury in rats by regulating MKP-1, inhibiting NF- $\kappa$ B pathway and cell apoptosis. <b>2019</b> , 234, 14068-14078	13
725	Fibrillar structures induced by a plant reovirus target mitochondria to activate typical apoptotic response and promote viral infection in insect vectors. <b>2019</b> , 15, e1007510	18
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723	Cell Death in the Lung: The Apoptosis-Necroptosis Axis. <b>2019</b> , 81, 375-402	90
722	Role of DIDO1 in Progression of Esophageal Squamous Cell Carcinoma. <b>2020</b> , 51, 83-87	2

721	Membrane-bound TNF mediates microtubule-targeting chemotherapeutics-induced cancer cytolysis via juxtacrine inter-cancer-cell death signaling. <b>2020</b> , 27, 1569-1587	6
720	Vanillin extracted from Proso and Barnyard millets induce apoptotic cell death in HT-29 human colon cancer cell line. <b>2020</b> , 72, 1422-1437	8
719	Self-Assembled Peptide-Based Nanoprobes for Disease Theranostics and Disease-Related Molecular Imaging. <b>2020</b> , 4, 1900403	27
718	Ruthenium(II) complexes containing a pendant methanol amidogen induce apoptosis in SGC-7901 cells through a ROS-mediated mitochondrial dysfunction pathway. <b>2020</b> , 45, 129-138	
717	Caspase-8, receptor-interacting protein kinase 1 (RIPK1), and RIPK3 regulate retinoic acid-induced cell differentiation and necroptosis. <b>2020</b> , 27, 1539-1553	16
716	Hormones of Programmed Cell Death. <b>2020</b> , 13-42	
715	Synthesis and biological evaluation of triterpenoid thiazoles derived from betulonic acid, dihydrobetulonic acid, and ursonic acid. <b>2020</b> , 185, 111806	20
714	Synthesis, characterization, apoptosis, ROS, autophagy and western blotting studies of cyclometalated iridium(III) complexes. <b>2020</b> , 111, 107594	1
713	Pelvic Radiation-Induced Testicular Damage: An Experimental Study at 1 Gray. <b>2020</b> , 66, 89-98	3
712	Polymerization-Induced Coassembly of Enzyme-Polymer Conjugates into Comicelles with Tunable and Enhanced Cascade Activity. <b>2020</b> , 20, 1383-1387	21
711	Cytosolic Gram-negative bacteria prevent apoptosis by inhibition of effector caspases through lipopolysaccharide. <b>2020</b> , 5, 354-367	20
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709	Ligustrazine suppresses renal NMDAR1 and caspase-3 expressions in a mouse model of sepsis-associated acute kidney injury. <b>2020</b> , 464, 73-81	10
708	Anticancer and biochemical effects of Viscum album L. protein extracts on HeLa cells. <b>2020</b> , 140, 369-378	4
707	SPION decorated exosome delivery of TNF- $\alpha$ to cancer cell membranes through magnetism. <b>2020</b> , 12, 173-188	35
706	Mechanisms of action of amyloid-beta and its precursor protein in neuronal cell death. <b>2020</b> , 35, 11-30	26
705	Neurotoxicity of MnO nanoparticles: Apoptosis and dopaminergic neurons damage pathway. <b>2020</b> , 188, 109909	10
704	Responses of Marine Diatom Skeletonema marinoi to Nutrient Deficiency: Programmed Cell Death. <b>2020</b> , 86,	3

703	SpBOK inhibits WSSV infection by regulating the apoptotic pathway in mud crab ( <i>Scylla paramamosain</i> ). <b>2020</b> , 106, 103603	3
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701	C-Type Lectins Link Immunological and Reproductive Processes in <i>Aedes aegypti</i> . <b>2020</b> , 23, 101486	7
700	Ethylene glycol monomethyl ether-induced testicular oxidative stress and time-dependent up-regulation of apoptotic, pro-inflammatory, and oncogenic markers in rats. <b>2020</b> , 7, 100051	4
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698	Floxuridine-chlorambucil conjugate nanodrugs for ovarian cancer combination chemotherapy. <b>2020</b> , 194, 111164	4
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695	Neuroprotective effects of natural compounds on neurotoxin-induced oxidative stress and cell apoptosis. <b>2020</b> , 1-22	6
694	Simvastatin protects high glucose-induced H9c2 cells from injury by inducing autophagy. <b>2020</b> , 58, 1077-1084	3
693	Association between early embryo morphokinetics plus transcript levels of sperm apoptotic genes and clinical outcomes in IMSI and ICSI cycles of male factor patients. <b>2020</b> , 37, 2555-2567	5
692	Inhibitory effects of <i>Bombyx mori</i> antimicrobial peptide cecropins on esophageal cancer cells. <b>2020</b> , 887, 173434	5
691	YB-1 Mediates TNF-Induced Pro-Survival Signaling by Regulating NF- $\kappa$ B Activation. <b>2020</b> , 12,	5
690	Synthesis and Antitumor Activity of Doxycycline Polymeric Nanoparticles: Effect on Tumor Apoptosis in Solid Ehrlich Carcinoma. <b>2020</b> , 25,	9
689	Allicin inhibits osteoblast apoptosis and steroid-induced necrosis of femoral head progression by activating the PI3K/AKT pathway. <b>2020</b> , 11, 7830-7841	9
688	Zyflamend, a unique herbal blend, induces cell death and inhibits adipogenesis through the coordinated regulation of PKA and JNK. <b>2020</b> , 9, 454-471	0
687	Efficient synthesis, biological evaluation, and docking study of isatin based derivatives as caspase inhibitors. <b>2020</b> , 35, 1674-1684	10
686	Bortezomib-Loaded Mesoporous Silica Nanoparticles Selectively Alter Metabolism and Induce Death in Multiple Myeloma Cells. <b>2020</b> , 12,	2

685	DNA Nanostructures as Pt(IV) Prodrug Delivery Systems to Combat Chemoresistance. <b>2020</b> , 16, e2003646	14
684	Expression and Correlation of Cell-Free cIAP-1 and cIAP-2 mRNA in Breast Cancer Patients: A Study from India. <b>2020</b> , 2020, 3634825	2
683	Effects of inducing apoptosis and inhibiting proliferation of siRNA on polyadenylate-binding protein-interacting protein 1 in tongue cell carcinoma. <b>2020</b> , 42, 3623-3637	2
682	Evaluation on antiviral activity of a novel arctigenin derivative against multiple rhabdoviruses in aquaculture. <b>2020</b> , 285, 198019	5
681	Involvement of protein S-nitrosylation in regulating beef apoptosis during postmortem aging. <b>2020</b> , 326, 126975	8
680	MicroRNA-381-3p Functions as a Dual Suppressor of Apoptosis and Necroptosis and Promotes Proliferation of Renal Cancer Cells. <b>2020</b> , 8, 290	21
679	Limonoids and tricyclic diterpenoids from <i>Azadirachta indica</i> and their antitumor activities. <b>2020</b> , 100, 103889	3
678	Hexavalent chromium induces mitochondrial dynamics disorder in rat liver by inhibiting AMPK/PGC-1 $\beta$ signaling pathway. <b>2020</b> , 265, 114855	40
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676	Methyl cellosolve-induced renal oxidative stress and time-dependent up-regulation of pro-inflammatory cytokines, apoptotic, and oncogenic markers in rats. <b>2020</b> , 7, 779-787	3
675	The pro-apoptotic ARTS protein induces neutrophil apoptosis, efferocytosis, and macrophage reprogramming to promote resolution of inflammation. <b>2020</b> , 25, 558-573	6
674	Initiator and executioner caspases in salivary gland apoptosis of <i>Rhipicephalus haemaphysaloides</i> . <b>2020</b> , 13, 288	7
673	An effector caspase Sp-caspase first identified in mud crab <i>Scylla paramamosain</i> exhibiting immune response and cell apoptosis. <b>2020</b> , 103, 442-453	1
672	Toll signaling promotes JNK-dependent apoptosis in. <b>2020</b> , 15, 7	7
671	Targeting XIAP for Promoting Cancer Cell Death-The Story of ARTS and SMAC. <b>2020</b> , 9,	30
670	KCP10043F Represses the Proliferation of Human Non-Small Cell Lung Cancer Cells by Caspase-Mediated Apoptosis via STAT3 Inactivation. <b>2020</b> , 9,	5
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668	Label-free and amplified detection of apoptosis-associated caspase activity using branched rolling circle amplification. <b>2020</b> , 56, 5243-5246	4

667	Robust neuroinflammation and perivascular pathology in rTg-DI rats, a novel model of microvascular cerebral amyloid angiopathy. <b>2020</b> , 17, 78	9
666	Anti-tumor effect of PEG-coated PLGA nanoparticles of febuxostat on A549 non-small cell lung cancer cells. <b>2020</b> , 10, 133	18
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663	Inhibiting the inhibitors: Targeting anti-apoptotic proteins in cancer and therapy resistance. <b>2020</b> , 52, 100712	36
662	Swine acute diarrhea syndrome coronavirus-induced apoptosis is caspase- and cyclophilin D-dependent. <b>2020</b> , 9, 439-456	18
661	TLR3 Expression Induces Apoptosis in Human Non-Small-Cell Lung Cancer. <b>2020</b> , 21,	20
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659	Molecular characterization of three caspases from <i>Bostrychus sinensis</i> and their transcriptional responses to bacteria and viruses. <b>2020</b> , 43, 431-443	3
658	Cell membrane-coated gold nanoparticles for apoptosis imaging in living cells based on fluorescent determination. <b>2020</b> , 187, 175	7
657	Characterization and anti-tumor activity of saponin-rich fractions of South Korean sea cucumbers (). <b>2020</b> , 57, 2283-2292	12
656	COL2A1 and Caspase-3 as Promising Biomarkers for Osteoarthritis Prognosis in an Model. <b>2020</b> , 10,	4
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654	Molecular Mechanism of Apoptosis by Amyloid $\beta$ Protein Fibrils Formed on Neuronal Cells. <b>2020</b> , 11, 796-805	12
653	Effects of Vitamin K3 Combined with UVB on the Proliferation and Apoptosis of Cutaneous Squamous Cell Carcinoma A431 Cells. <b>2019</b> , 12, 11715-11727	2
652	Extra virgin olive oil enhances the hepatic antioxidant defense and inhibits cytogenotoxic effects evoked by 5-hydroxymethylfurfural in mice. <b>2020</b> , 27, 11882-11891	1
651	Florfenicol induces oxidative stress and hepatocyte apoptosis in broilers via Nrf2 pathway. <b>2020</b> , 191, 110239	7
650	Yinning Tablet, a hospitalized preparation of Chinese herbal formula for hyperthyroidism, ameliorates thyroid hormone-induced liver injury in rats: Regulation of mitochondria-mediated apoptotic signals. <b>2020</b> , 252, 112602	2



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647	Antileishmanial Drugs Modulate IL-12 Expression and Inflammasome Activation in Primary Human Cells. <b>2020</b> , 204, 1869-1880	4
646	The Remarkable Pharmacological Efficacy of Saffron Spice via Antioxidant, Immunomodulatory, and Antitumor Activities. <b>2020</b> , 245-262	
645	Intracellular Photoactivation of Caspase-3 by Molecular Glues for Spatiotemporal Apoptosis Induction. <b>2020</b> , 142, 8080-8084	15
644	Gene regulation underpinning increased thermal tolerance in a laboratory-evolved coral photosymbiont. <b>2020</b> , 29, 1684-1703	5
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642	Radiopharmacological evaluation of a caspase-3 responsive probe with optimized pharmacokinetics for PET imaging of tumor apoptosis. <b>2020</b> , 18, 3512-3521	7
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639	Pharmacological melioration by Selenium on the toxicity of tellurium in neuroendocrine centre (Pituitary Gland) in male wistar rats: A mechanistic approach. <b>2020</b> , 28, 630-636	3
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637	Effects of Different Processed Products of on the Liver. <b>2020</b> , 2020, 5235271	1
636	Induction of caspase-2 gene expression in carboxyl-functionalized carbon nanotube-treated human T-cell leukemia (Jurkat) cell line. <b>2021</b> , 44, 394-399	2
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632	Bioengineering tools for probing intracellular events in T lymphocytes. <b>2021</b> , 13, e1510	



631	Baicalin mediated regulation of key signaling pathways in cancer. <b>2021</b> , 164, 105387	17
630	Cardiac glycosides from the roots of <i>Streblus asper</i> Lour. and their apoptosis-inducing activities in A549 cells. <b>2021</b> , 181, 112544	4
629	SUMO modification in apoptosis. <b>2021</b> , 52, 1-10	6
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627	Complex Cascade Reaction Networks via Cross $\beta$ -Amyloid Nanotubes. <b>2021</b> , 133, 204-209	3
626	Complex Cascade Reaction Networks via Cross $\beta$ -Amyloid Nanotubes. <b>2021</b> , 60, 202-207	12
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623	RNA Interference-Mediated Aurora Kinase A Gene Silencing Inhibits Human Glioma Cells Proliferation and Tumor Growth in Mice. <b>2021</b> , 12, 3024-3032	1
622	Low-temperature extracts of Purple blossoms of basil ( <i>Ocimum basilicum</i> L.) intervened mitochondrial translocation contributes prompted apoptosis in human breast cancer cells. <b>2021</b> , 54, 2	4
621	Limonoids and other secondary metabolites of <i>Azadirachta indica</i> (neem) and <i>Azadirachta indica</i> var. <i>siamensis</i> (Siamese neem), and their bioactivities. <b>2021</b> , 29-65	1
620	Leveraging autocatalytic reactions for chemical domain image classification. <b>2021</b> , 12, 5464-5472	2
619	Venom Profiling of the Insular Species : Characterization of Proteome, Glycoproteome, and N-Terminome Using Terminal Amine Isotopic Labeling of Substrates. <b>2021</b> , 20, 1341-1358	2
618	Ferro-self-assembly: magnetic and electrochemical adaptation of a multiresponsive zwitterionic metalloamphiphile showing a shape-hysteresis effect. <b>2020</b> , 12, 270-281	4
617	Caspase inhibition mitigates tau cleavage and neurotoxicity in iPSC-induced neurons with the V337M MAPT mutation.	0
616	Impact of Tau on Neurovascular Pathology in Alzheimer's Disease. <b>2020</b> , 11, 573324	9
615	Quinazoline alpha-adrenoreceptor blockers as an adjunct cancer treatment: From bench to bedside. <b>2021</b> , 893, 173831	1
614	Zirconia Nanoparticles Induce HeLa Cell Death Through Mitochondrial Apoptosis and Autophagy Pathways Mediated by ROS. <b>2021</b> , 9, 522708	2

613	Assessment of azithromycin as an anticancer agent for treatment of imatinib sensitive and resistant CML cells. <b>2021</b> , 102, 106523	2
612	Caspase Cascade Activation During Apoptotic Cell Death of Human Lung Carcinoma Cells A549 Induced by Marine Sponge. <b>2021</b> , 15, 1357-1368	1
611	OSU-03012 Disrupts Akt Signaling and Prevents Endometrial Carcinoma Progression in vitro and in vivo. <b>2021</b> , 15, 1797-1810	1
610	Adenosine A1 Receptor Agonist (R-PIA) before Pilocarpine Modulates Pro- and Anti-Apoptotic Factors in an Animal Model of Epilepsy. <b>2021</b> , 14,	
609	High Expression of Caspase-8 Associated with Improved Survival in Diffuse Large B-Cell Lymphoma: Machine Learning and Artificial Neural Networks Analyses. <b>2021</b> , 1, 18-46	6
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606	Cell-type and fetal-sex-specific targets of prenatal alcohol exposure in developing mouse cerebral cortex. <b>2021</b> , 24, 102439	5
605	Discovery of novel dihydroartemisinin-cinnamic hybrids inducing lung cancer cells apoptosis via inhibition of Akt/Bad signal pathway. <b>2021</b> , 111, 104903	2
604	The hepatotoxicity of altrazine exposure in mice involves the intestinal microbiota. <b>2021</b> , 272, 129572	11
603	Murder on the Ovarian Express: A Tale of Non-Autonomous Cell Death in the Ovary. <b>2021</b> , 10,	3
602	Reactive Oxygen Species and Pressure Ulcer Formation after Traumatic Injury to Spinal Cord and Brain. <b>2021</b> , 10,	4
601	The circadian timing of noise exposure influences noise-induced inflammatory responses in the mouse cochlea. <b>2021</b> ,	1
600	The Anti-Tumor Effect and Underlying Apoptotic Mechanism of Ginsenoside Rk1 and Rg5 in Human Liver Cancer Cells. <b>2021</b> , 26,	6
599	Neuroprotective effect of aspirin combined with ginkgolide injection on cerebral ischemic stroke rats and its effect on ERK12 signal pathway. <b>2021</b> , 28, 3193-3197	1
598	Cell Death and Metabolic Stress in Induced by Allelopathy. <b>2021</b> , 13,	0
597	Apoptotic cells represent a dynamic stem cell niche governing proliferation and tissue regeneration. <b>2021</b> , 56, 1900-1916.e5	5
596	Syzygium samarangense leaf extract mitigates indomethacin-induced gastropathy via the NF-B signaling pathway in rats. <b>2021</b> , 139, 111675	5

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594	Bioactivity Studies of Hesperidin and XAV939. <b>2021</b> , 6, 20042-20052	4
593	Multiple interactions between melatonin and non-coding RNAs in cancer biology. <b>2021</b> , 98, 323-340	5
592	Landfill soil leachates from Nigeria and India induced DNA damage and alterations in genes associated with apoptosis in Jurkat cell. <b>2021</b> , 1	0
591	N-Terminomics Strategies for Protease Substrates Profiling. <b>2021</b> , 26,	2
590	Caprine parainfluenza virus type 3 N protein promotes viral replication via inducing apoptosis. <b>2021</b> , 259, 109129	0
589	Sesamol Ameliorates Renal Injury-Mediated Atherosclerosis via Inhibition of Oxidative Stress/IKK $\alpha$ /p53. <b>2021</b> , 10,	4
588	Synthesis, characterization and antitumor mechanism investigation of ruthenium(II) polypyridyl complexes with artesunate moiety. <b>2021</b> , 26, 909-918	3
587	6-Bromohypaphorine Isolated from Red Sea Cucumbers Apostichopus japonicus Exhibits Potent Anticancer Activity in A549 Cancer Cell Line. <b>2021</b> ,	0
586	Neural Injury and Repair in a Novel Neonatal Mouse Model of Listeria Monocytogenes Meningoencephalitis. <b>2021</b> , 80, 861-867	0
585	Deorphanizing Caspase-3 and Caspase-9 Substrates In and Out of Apoptosis with Deep Substrate Profiling. <b>2021</b> , 16, 2280-2296	6
584	G/M cell cycle arrest and apoptosis induced by COH-203 in human promyelocytic leukemia HL-60 cells. <b>2021</b> , 22, 815	1
583	LED-Induced Microglial Activation and Rise in Caspase3 Suggest a Reorganization in the Retina. <b>2021</b> , 22,	0
582	Assessing the Biocompatibility of Multi-Anchored Glycoconjugate Functionalized Iron Oxide Nanoparticles in a Normal Human Colon Cell Line CCD-18Co. <b>2021</b> , 11,	0
581	Kansuine A Ameliorates Atherosclerosis and Human Aortic Endothelial Cell Apoptosis by Inhibiting Reactive Oxygen Species Production and Suppressing IKK $\alpha$ /NF- $\kappa$ B Signaling. <b>2021</b> , 22,	1
580	Toxicological effects of deltamethrin on quail cerebrum: Weakened antioxidant defense and enhanced apoptosis. <b>2021</b> , 286, 117319	23
579	Inflammatory and immune-related factor Caspase 1 contributes to the development of oral lichen planus. <b>2021</b> , 131, 105244	4
578	Phytochemical based sestrin2 pharmacological modulators in the treatment of adenocarcinomas. <b>2021</b> , 1, 100133	

577	Transcriptome analysis provides insights into the function of the cholinergic system in pearl oyster transplantation immunity. <b>2021</b> , 545, 737205	2
576	BEWO trophoblast cells and Toxoplasma gondii infection modulate cell death mechanisms in THP-1 monocyte cells by interference in the expression of death receptor and intracellular proteins. <b>2021</b> , 73, 101658	0
575	Cell spheroids containing bioactive molecule-immobilized porous particles with a leaf-stacked structure. <b>2022</b> , 429, 132590	1
574	Recent progress in natural product-based inhibitor screening with enzymatic fluorescent probes. <b>2021</b> , 13, 1778-1787	1
573	Co nŕ uñ dory. Paralely v chovŕ bunŕ a lidŕ <b>2021</b> ,	
572	Protein kinase C fusion proteins are paradoxically loss of function in cancer. <b>2021</b> , 296, 100445	5
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