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Cytochrome c and dATP-dependent formation of Apaf-1/caspase-9 complex initiates an apoptotic protease cascade

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2232	The association of deamidation of Bcl-xL and translocation of Bax to the mitochondria through activation of JNK in the induction of apoptosis by treatment with GSH-conjugated DXR. <b>1992</b> , 33, 389		2
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2034	Calpain Functions in a Caspase-Independent Manner to Promote Apoptosis-Like Events During Platelet Activation. <b>1999</b> , 94, 1683-1692	293
2033	Nod1, an Apaf-1-like activator of caspase-9 and nuclear factor-kappaB. <b>1999</b> , 274, 14560-7	550
2032	Apoptosis regulating proteins as targets of therapy for haematological malignancies. <b>1999</b> , 8, 2027-2057	14
2031	The role of apoptosis in systemic lupus erythematosus. <b>1999</b> , 38, 1177-83	34
2030	Death signals from the B cell antigen receptor target mitochondria, activating necrotic and apoptotic death cascades in a murine B cell line, WEHI-231. <b>1999</b> , 11, 933-41	38
2029	Nitric oxide suppresses apoptosis via interrupting caspase activation and mitochondrial dysfunction in cultured hepatocytes. <b>1999</b> , 274, 17325-33	204
2028	Cytochrome c and dATP-mediated oligomerization of Apaf-1 is a prerequisite for procaspase-9 activation. <b>1999</b> , 274, 17941-5	380
2027	Regulation of bcl-2 family proteins during development and in response to oxidative stress in cardiac myocytes: association with changes in mitochondrial membrane potential. <b>1999</b> , 85, 940-9	215
2026	A predominant apoptotic death pathway of neuronal PC12 cells induced by activated microglia is displaced by a non-apoptotic death pathway following blockage of caspase-3-dependent cascade. <b>1999</b> , 274, 15725-31	39
2025	Bcl-2 and caspase inhibition cooperate to inhibit tumor necrosis factor-alpha-induced cell death in a Bcl-2 cleavage-independent fashion. <b>1999</b> , 274, 18552-8	35
2024	Bax-induced caspase activation and apoptosis via cytochrome c release from mitochondria is inhibitable by Bcl-xL. <b>1999</b> , 274, 2225-33	561
2023	ARC inhibits cytochrome c release from mitochondria and protects against hypoxia-induced apoptosis in heart-derived H9c2 cells. <b>1999</b> , 85, e70-7	147
2022	The mitochondrial apoptotic pathway is activated by serum and glucose deprivation in cardiac myocytes. <b>1999</b> , 85, 403-14	246
2021	Regulation of apoptotic protease activating factor-1 oligomerization and apoptosis by the WD-40 repeat region. <b>1999</b> , 274, 20855-60	84
2020	Cytochrome c-mediated apoptosis in cells lacking mitochondrial DNA. Signaling pathway involving release and caspase 3 activation is conserved. <b>1999</b> , 274, 29905-11	132
2019	Inhibition of caspases inhibits the release of apoptotic bodies: Bcl-2 inhibits the initiation of formation of apoptotic bodies in chemotherapeutic agent-induced apoptosis. <b>1999</b> , 145, 99-108	67

2018	Interaction of Alzheimer's presenilin-1 and presenilin-2 with Bcl-X(L). A potential role in modulating the threshold of cell death. <b>1999</b> , 274, 24007-13	81
2017	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
2016	The pro-apoptotic proteins, Bid and Bax, cause a limited permeabilization of the mitochondrial outer membrane that is enhanced by cytosol. <b>1999</b> , 147, 809-22	297
2015	Ordering the cytochrome c-initiated caspase cascade: hierarchical activation of caspases-2, -3, -6, -7, -8, and -10 in a caspase-9-dependent manner. <b>1999</b> , 144, 281-92	1614
2014	Altered cytochrome c display precedes apoptotic cell death in Drosophila. <b>1999</b> , 144, 701-10	121
2013	A caspase-9 variant missing the catalytic site is an endogenous inhibitor of apoptosis. <b>1999</b> , 274, 2072-6	142
2012	Caspase-9 can be activated without proteolytic processing. <b>1999</b> , 274, 8359-62	379
2011	CIPER, a novel NF kappaB-activating protein containing a caspase recruitment domain with homology to Herpesvirus-2 protein E10. <b>1999</b> , 274, 9955-61	121
2010	Mannose induces an endonuclease responsible for DNA laddering in plant cells. <b>1999</b> , 121, 71-80	169
2009	Caspase cleaved BID targets mitochondria and is required for cytochrome c release, while BCL-XL prevents this release but not tumor necrosis factor-R1/Fas death. <b>1999</b> , 274, 1156-63	816
2008	Mitochondria-dependent and -independent regulation of Granzyme B-induced apoptosis. <b>1999</b> , 189, 131-44	165
2007	DNA fragmentation factor 45-deficient cells are more resistant to apoptosis and exhibit different dying morphology than wild-type control cells. <b>1999</b> , 274, 37450-4	63
2006	A novel gene coding for a Fas apoptosis inhibitory molecule (FAIM) isolated from inducibly Fas-resistant B lymphocytes. <b>1999</b> , 189, 949-56	96
2005	Transport, localization, and phototoxicity of m-THPC. <b>1999</b> ,	2
2004	Activation of membrane-associated procaspase-3 is regulated by Bcl-2. <b>1999</b> , 144, 915-26	55
2003	Fragmentation and death (a.k.a. apoptosis) of ovulated oocytes. <b>1999</b> , 5, 414-20	128
2002	Adenosine analogs as possible differentiation-inducing agents against acute myeloid leukemia. <b>1999</b> , 34, 261-71	11
2001	Viral myocarditis: identification of five differentially expressed genes in coxsackievirus B3-infected mouse heart. <b>1999</b> , 84, 704-12	44

2000	Apoptosis is physiologically restricted to a specialized cytoplasmic compartment in rat spermatids. <b>1999</b> , 61, 1541-7	92
1999	Extranuclear apoptosis. The role of the cytoplasm in the execution phase. <b>1999</b> , 146, 703-8	210
1998	Postmitochondrial regulation of apoptosis during heart failure. <b>1999</b> , 96, 7614-6	98
1997	A cloning method to identify caspases and their regulators in yeast: identification of Drosophila IAP1 as an inhibitor of the Drosophila caspase DCP-1. <b>1999</b> , 96, 2885-90	141
1996	Functional consequences of the sustained or transient activation by Bax of the mitochondrial permeability transition pore. <b>1999</b> , 274, 31734-9	237
1995	ASC, a novel 22-kDa protein, aggregates during apoptosis of human promyelocytic leukemia HL-60 cells. <b>1999</b> , 274, 33835-8	387
1994	Caspases in Developmental Cell Death. <b>1999</b> , 48, 143-150	1
1993	Assignment of apoptotic protease activating factor-1 gene (APAF1) to human chromosome band 12q23 by fluorescence in situ hybridization. <b>1999</b> , 87, 252-3	3
1992	Improved artificial death switches based on caspases and FADD. <b>1999</b> , 10, 2273-85	92
1991	Helicobacter pylori induces apoptosis in gastric mucosa through an upregulation of Bax expression in humans. <b>1999</b> , 34, 375-83	60
1990	The endoplasmic reticulum chaperone glycoprotein GRP94 with Ca(2+)-binding and antiapoptotic properties is a novel proteolytic target of calpain during etoposide-induced apoptosis. <b>1999</b> , 274, 28476-83	117
1989	The proapoptotic function of Drosophila Hid is conserved in mammalian cells. <b>1999</b> , 96, 4936-41	88
1988	Bcl-2 family members do not inhibit apoptosis by binding the caspase activator Apaf-1. <b>1999</b> , 96, 9683-8	134
1987	Caspase activation involves the formation of the aposome, a large (approximately 700 kDa) caspase-activating complex. <b>1999</b> , 274, 22686-92	234
1986	Equine herpesvirus-2 E10 gene product, but not its cellular homologue, activates NF-kappaB transcription factor and c-Jun N-terminal kinase. <b>1999</b> , 274, 9962-8	91
1985	mE10, a novel caspase recruitment domain-containing proapoptotic molecule. <b>1999</b> , 274, 10287-92	97
1984	Ectopic expression of E47 or E12 promotes the death of E2A-deficient lymphomas. <b>1999</b> , 96, 996-1001	93
1983	CLAP, a novel caspase recruitment domain-containing protein in the tumor necrosis factor receptor pathway, regulates NF-kappaB activation and apoptosis. <b>1999</b> , 274, 17946-54	91

1982	Suicidal tendencies: apoptotic cell death by caspase family proteinases. <b>1999</b> , 274, 20049-52	707
1981	Ion channel activity of the BH3 only Bcl-2 family member, BID. <b>1999</b> , 274, 21932-6	151
1980	Comparison of paclitaxel-, 5-fluoro-2'-deoxyuridine-, and epidermal growth factor (EGF)-induced apoptosis. Evidence for EGF-induced anoikis. <b>1999</b> , 274, 15927-36	68
1979	Dephosphorylation targets Bcl-2 for ubiquitin-dependent degradation: a link between the apoptosome and the proteasome pathway. <b>1999</b> , 189, 1815-22	284
1978	Apaf-1, the CED-4 human homologue, an activator of caspase 3. <b>1999</b> , 9, 1139-1142	
1977	Sequential activation of caspase-1 and caspase-3-like proteases during apoptosis in myelodysplastic syndromes. <b>1999</b> , 8, 343-56	26
1976	Prognostic significance of apoptosis regulators in breast cancer. <b>1999</b> , 6, 29-40	134
1975	Proapoptotic activity of <i>Caenorhabditis elegans</i> CED-4 protein in <i>Drosophila</i> : implicated mechanisms for caspase activation. <b>1999</b> , 96, 145-50	39
1974	Human CARD4 protein is a novel CED-4/Apaf-1 cell death family member that activates NF-kappaB. <b>1999</b> , 274, 12955-8	272
1973	Bak BH3 peptides antagonize Bcl-xL function and induce apoptosis through cytochrome c-independent activation of caspases. <b>1999</b> , 274, 13298-304	208
1972	Mitochondrial release of caspase-2 and -9 during the apoptotic process. <b>1999</b> , 189, 381-94	633
1971	Fas-induced B cell apoptosis requires an increase in free cytosolic magnesium as an early event. <b>1999</b> , 274, 7059-66	42
1970	Human rabaptin-5 is selectively cleaved by caspase-3 during apoptosis. <b>1999</b> , 274, 37583-90	21
1969	Common regulation of apoptosis signaling induced by CD95 and the DNA-damaging stimuli etoposide and gamma-radiation downstream from caspase-8 activation. <b>1999</b> , 274, 14255-61	89
1968	Distinct caspase cascades are initiated in receptor-mediated and chemical-induced apoptosis. <b>1999</b> , 274, 5053-60	643
1967	Caspases induce cytochrome c release from mitochondria by activating cytosolic factors. <b>1999</b> , 274, 17484-90	241
1966	Caspase-3-dependent cleavage of Bcl-2 promotes release of cytochrome c. <b>1999</b> , 274, 21155-61	336
1965	DRONC, an ecdysone-inducible <i>Drosophila</i> caspase. <b>1999</b> , 96, 4307-12	249



1964	'Loop' domain deletional mutant of Bcl-xL is as effective as p29Bcl-xL in inhibiting radiation-induced cytosolic accumulation of cytochrome c (cyt c), caspase-3 activity, and apoptosis. <b>1999</b> , 43, 423-30	8
1963	CTL granules: evolution of vesicles essential for combating virus infections. <b>1999</b> , 20, 351-6	82
1962	Modeling the dynamical impact of HIV on the immune system: Viral clearance, infection, and AIDS. <b>1999</b> , 29, 95-112	11
1961	Cytochrome c release and caspase-3 activation during colchicine-induced apoptosis of cerebellar granule cells. <b>1999</b> , 11, 1067-72	65
1960	Caspase activation accompanying cytochrome c release from mitochondria is possibly involved in nitric oxide-induced neuronal apoptosis in SH-SY5Y cells. <b>1999</b> , 72, 196-205	98
1959	Regulation of caspase activation in apoptosis: implications in pathogenesis and treatment of disease. <b>1999</b> , 26, 295-303	47
1958	Targeted disruption of caspase genes in mice: what they tell us about the functions of individual caspases in apoptosis. <b>1999</b> , 77, 58-63	46
1957	Tumor necrosis factor-alpha and lipopolysaccharide induce apoptotic cell death in bovine glomerular endothelial cells. <b>1999</b> , 55, 2322-37	110
1956	Hidden powers of the mitochondria. <b>1999</b> , 1, E40-2	23
1955	Asymmetry across species. <b>1999</b> , 1, E42-4	9
1954	Activation of the caspase-3 apoptotic cascade in traumatic spinal cord injury. <b>1999</b> , 5, 943-6	375
1953	The third horseman takes wing. <b>1999</b> , 1, E123-4	
1952	Dark is a Drosophila homologue of Apaf-1/CED-4 and functions in an evolutionarily conserved death pathway. <b>1999</b> , 1, 272-9	290
1951	The CED-4-homologous protein FLASH is involved in Fas-mediated activation of caspase-8 during apoptosis. <b>1999</b> , 398, 777-85	220
1950	Structural basis of procaspase-9 recruitment by the apoptotic protease-activating factor 1. <b>1999</b> , 399, 549-57	363
1949	Erratum: The CED-4-homologous protein FLASH is involved in Fas-mediated activation of caspase-8 during apoptosis. <b>1999</b> , 400, 89-89	
1948	Correction: Structural basis for initiation of transcription from an RNA polymerase promoter complex. <b>1999</b> , 400, 89-89	0
1947	Bid-deficient mice are resistant to Fas-induced hepatocellular apoptosis. <b>1999</b> , 400, 886-91	881

1946	Effects of BAPTA-AM and Forskolin on Apoptosis and Cytochrome c Release in Photosensitized Chinese Hamster V79 Cells. <b>1999</b> , 70, 650-655	51
1945	Apoptosis. A cellular poison cupboard. <b>1999</b> , 397, 387, 389	87
1944	Molecular characterization of mitochondrial apoptosis-inducing factor. <b>1999</b> , 397, 441-6	3342
1943	The significance of apoptosis in the liver. <b>1999</b> , 19, 453-63	21
1942	Characterization of Adducts of Ethanol Metabolites with Cytochrome c. <b>1999</b> , 23, 26-37	14
1941	Chronic Ethanol-Initiated Apoptosis in Hepatocytes Is Induced by Changes in Membrane Biogenesis and Intracellular Transport. <b>1999</b> , 23, 334-343	13
1940	Ca(2+)-mediated mitochondrial dysfunction and the protective effects of Bcl-2. <b>1999</b> , 893, 19-32	27
1939	Ultrastructural alterations of mitochondria in pre-apoptotic and apoptotic hepatocytes of TNF alpha-treated galactosamine-sensitized mice. <b>1999</b> , 887, 12-7	1
1938	Apoptosis in myocardial ischemia-reperfusion. <b>1999</b> , 874, 412-26	167
1937	Activation of apoptosis and its inhibition. <b>1999</b> , 886, 132-57	7
1936	Immune evasion by adenoviruses. <b>1999</b> , 168, 121-30	121
1935	Programmed cell death and the caspases. <b>1999</b> , 107, 73-9	39
1934	Manganese superoxide dismutase negatively regulates the induction of apoptosis by 5-fluorouracil, peplomycin and gamma-rays in squamous cell carcinoma cells. <b>1999</b> , 90, 555-64	28
1933	Bcl-2 proteins: regulators of apoptosis or of mitochondrial homeostasis?. <b>1999</b> , 1, E209-16	544
1932	Emerging roles of caspase-3 in apoptosis. <b>1999</b> , 6, 99-104	2588
1931	Human skeletal muscle cytosols are refractory to cytochrome c-dependent activation of type-II caspases and lack APAF-1. <b>1999</b> , 6, 256-61	53
1930	Role of PI3-kinase in Bcl-X induction and apoptosis inhibition mediated by IL-3 or IGF-1 in Baf-3 cells. <b>1999</b> , 6, 290-6	83
1929	Selective inhibition of apoptosis by TPA-induced differentiation of U937 leukemic cells. <b>1999</b> , 6, 351-61	46

1928	Expression and biological activity of X-linked inhibitor of apoptosis (XIAP) in human malignant glioma. <b>1999</b> , 6, 370-6	109
1927	bFGF inhibits the activation of caspase-3 and apoptosis of P19 embryonal carcinoma cells during neuronal differentiation. <b>1999</b> , 6, 463-70	59
1926	Survival activity of Bcl-2 homologs Bcl-w and A1 only partially correlates with their ability to bind pro-apoptotic family members. <b>1999</b> , 6, 525-32	44
1925	Apoptosis: cell death defined by caspase activation. <b>1999</b> , 6, 495-6	172
1924	Apoptosis without caspases: an inefficient molecular guillotine?. <b>1999</b> , 6, 497-507	221
1923	Apoptosis inducing factor (AIF): a phylogenetically old, caspase-independent effector of cell death. <b>1999</b> , 6, 516-24	406
1922	Caspases: their intracellular localization and translocation during apoptosis. <b>1999</b> , 6, 644-51	284
1921	Induction of apoptosis by IFNgamma in human neuroblastoma cell lines through the CD95/CD95L autocrine circuit. <b>1999</b> , 6, 652-60	39
1920	Analysis of redox regulation of cytochrome c-induced apoptosis in a cell-free system. <b>1999</b> , 6, 683-8	50
1919	Inhibition of tyrosine phosphatases induces apoptosis independent from the CD95 system. <b>1999</b> , 6, 833-41	15
1918	Ursodeoxycholic acid prevents cytochrome c release in apoptosis by inhibiting mitochondrial membrane depolarization and channel formation. <b>1999</b> , 6, 842-54	221
1917	WW domain-containing FBP-30 is regulated by p53. <b>1999</b> , 6, 883-9	6
1916	Identification of NRF2, a member of the NF-E2 family of transcription factors, as a substrate for caspase-3(-like) proteases. <b>1999</b> , 6, 865-72	47
1915	Nitric oxide-an endothelial cell survival factor. <b>1999</b> , 6, 964-8	220
1914	Solution structure and mutagenesis of the caspase recruitment domain (CARD) from Apaf-1. <b>1999</b> , 6, 1125-32	44
1913	BMP-4 and retinoic acid synergistically induce activation of caspase-9 and cause apoptosis of P19 embryonal carcinoma cells cultured as a monolayer. <b>1999</b> , 6, 1109-16	18
1912	Caspase knockouts: matters of life and death. <b>1999</b> , 6, 1043-53	240
1911	Caspase structure, proteolytic substrates, and function during apoptotic cell death. <b>1999</b> , 6, 1028-42	1274

1910	Catalytic properties of the caspases. <b>1999</b> , 6, 1054-9	142
1909	Mechanisms mediating caspase activation in cell death. <b>1999</b> , 6, 1060-6	184
1908	Serial killers: ordering caspase activation events in apoptosis. <b>1999</b> , 6, 1067-74	364
1907	Apaf1 and the apoptotic machinery. <b>1999</b> , 6, 1087-98	97
1906	Caspases: a decade of death research. <b>1999</b> , 6, 1023-7	75
1905	Transduction of axotomized retinal ganglion cells by adenoviral vector administration at the optic nerve stump: an in vivo model system for the inhibition of neuronal apoptotic cell death. <b>1999</b> , 6, 1759-67	43
1904	Caspase-3-like activity is necessary but not sufficient for daunorubicin-induced apoptosis in Jurkat human lymphoblastic leukemia cells. <b>1999</b> , 13, 1056-61	26
1903	Signal transduction, cell cycle regulatory, and anti-apoptotic pathways regulated by IL-3 in hematopoietic cells: possible sites for intervention with anti-neoplastic drugs. <b>1999</b> , 13, 1109-66	152
1902	Bryostatin 1 enhances paclitaxel-induced mitochondrial dysfunction and apoptosis in human leukemia cells (U937) ectopically expressing Bcl-xL. <b>1999</b> , 13, 1564-73	44
1901	p27Kip1 induces drug resistance by preventing apoptosis upstream of cytochrome c release and procaspase-3 activation in leukemic cells. <b>1999</b> , 18, 1411-8	82
1900	Bcl-2 regulates a caspase-3/caspase-2 apoptotic cascade in cytosolic extracts. <b>1999</b> , 18, 1781-7	92
1899	c-Myc and E1A induced cellular sensitivity to activated NK cells involves cytotoxic granules as death effectors. <b>1999</b> , 18, 2181-8	11
1898	Caspase-mediated cleavage of cytoskeletal actin plays a positive role in the process of morphological apoptosis. <b>1999</b> , 18, 2423-30	161
1897	Mechanisms of apoptosis by c-Myc. <b>1999</b> , 18, 2967-87	377
1896	Caspase-induced proteolysis of the cyclin-dependent kinase inhibitor p27Kip1 mediates its anti-apoptotic activity. <b>1999</b> , 18, 4839-47	78
1895	Relative level of expression of Bax and Bcl-XL determines the cellular fate of apoptosis/necrosis induced by the overexpression of Bax. <b>1999</b> , 18, 5703-13	68
1894	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
1893	Implication of mitochondria-derived reactive oxygen species, cytochrome C and caspase-3 in N-(4-hydroxyphenyl)retinamide-induced apoptosis in cervical carcinoma cells. <b>1999</b> , 18, 6380-7	126

1892	Bis, a Bcl-2-binding protein that synergizes with Bcl-2 in preventing cell death. <b>1999</b> , 18, 6183-90	163
1891	p53 accumulation in apoptotic macrophages is an energy demanding process that precedes cytochrome c release in response to nitric oxide. <b>1999</b> , 18, 6403-10	61
1890	Bcl-2 overexpression blocks caspase activation and downstream apoptotic events instigated by photodynamic therapy. <b>1999</b> , 79, 95-100	74
1889	Expression of caspases 3, 6 and 8 is increased in parallel with apoptosis and histological aggressiveness of the breast lesion. <b>1999</b> , 81, 592-9	84
1888	Mitochondria in neurodegeneration: bioenergetic function in cell life and death. <b>1999</b> , 19, 231-45	242
1887	Survival- and death-promoting events after transient cerebral ischemia: phosphorylation of Akt, release of cytochrome C and Activation of caspase-like proteases. <b>1999</b> , 19, 1126-35	225
1886	Role of endothelial cell survival and death signals in angiogenesis. <b>1999</b> , 3, 101-16	45
1885	Identification of an alternative form of caspase-9 in human gastric cancer cell lines: a role of a caspase-9 variant in apoptosis resistance. <b>1999</b> , 4, 321-5	9
1884	Endothelial Dysfunction in Congestive Heart Failure: Effects of Carvedilol. <b>1999</b> , 4, 53-64	1
1883	Endogenous inhibitors of caspases. <b>1999</b> , 19, 388-98	131
1882	Mitochondria and apoptosis: HQ or high-security prison?. <b>1999</b> , 19, 378-87	41
1881	Thymocyte apoptosis. <b>1999</b> , 19, 337-49	19
1880	Mitochondrial dysfunction in the pathogenesis of necrotic and apoptotic cell death. <b>1999</b> , 31, 305-19	287
1879	Mitochondrial redox signaling during apoptosis. <b>1999</b> , 31, 327-34	88
1878	Mitochondria at the crossroad of apoptotic cell death. <b>1999</b> , 31, 321-6	36
1877	Programmed cell death in <i>C. elegans</i> . <b>1999</b> , 18, 285-94	13
1876	p53 regulates mitochondrial membrane potential through reactive oxygen species and induces cytochrome c-independent apoptosis blocked by Bcl-2. <b>1999</b> , 18, 6027-36	385
1875	Caspases in developmental cell death. <b>1999</b> , 48, 143-50	1

1874	Blocked negative selection of developing T cells in mice expressing the baculovirus p35 caspase inhibitor. <b>1999</b> , 18, 156-66	52
1873	Role of cytochrome c and dATP/ATP hydrolysis in Apaf-1-mediated caspase-9 activation and apoptosis. <b>1999</b> , 18, 3586-95	356
1872	Cleavage of human inhibitor of apoptosis protein XIAP results in fragments with distinct specificities for caspases. <b>1999</b> , 18, 5242-51	571
1871	Neisserial porin (PorB) causes rapid calcium influx in target cells and induces apoptosis by the activation of cysteine proteases. <b>1999</b> , 18, 339-52	136
1870	Apoptosis driven by IP(3)-linked mitochondrial calcium signals. <b>1999</b> , 18, 6349-61	414
1869	Hsp60 accelerates the maturation of pro-caspase-3 by upstream activator proteases during apoptosis. <b>1999</b> , 18, 2049-56	232
1868	Mammalian caspases: structure, activation, substrates, and functions during apoptosis. <b>1999</b> , 68, 383-424	2313
1867	Caspase activation: the induced-proximity model. <b>1999</b> , 96, 10964-7	758
1866	Early activation of caspases during T lymphocyte stimulation results in selective substrate cleavage in nonapoptotic cells. <b>1999</b> , 190, 1879-90	353
1865	Tumor necrosis factor receptor and Fas signaling mechanisms. <b>1999</b> , 17, 331-67	1114
1864	A cytomegalovirus-encoded mitochondria-localized inhibitor of apoptosis structurally unrelated to Bcl-2. <b>1999</b> , 96, 12536-41	365
1863	Redox regulation of TNF signaling. <b>1999</b> , 10, 145-56	117
1862	Genomic organization of the human caspase-9 gene on Chromosome 1p36. 1-p36.3. <b>1999</b> , 10, 757-60	12
1861	Apoptosis and autoimmune disease. <b>1999</b> , 48, 5-21	46
1860	Apoptosis of carrot nuclei in vitro system induced by cytochrome c. <b>1999</b> , 44, 1497-1502	3
1859	Signaling of neuronal cell death by the p75NTR neurotrophin receptor. <b>1999</b> , 20, 29-44	33
1858	Bcl-xL is a negative regulator of caspase-3 activation in immature neurons during development. <b>1999</b> , 116, 69-78	18
1857	Biology of ischemic cerebral cell death. <b>1999</b> , 42, 185-207	86

1856	Death by design: mechanism and control of apoptosis. <b>1999</b> , 15, M49-M52	3
1855	Mitochondrial permeability transition and release of cytochrome c induced by retinoic acids. <b>1999</b> , 58, 665-70	53
1854	Induction of apoptosis by penta-O-galloyl-beta-D-glucose through activation of caspase-3 in human leukemia HL-60 cells. <b>1999</b> , 381, 171-83	47
1853	Enhanced caspase activity during ethanol-induced apoptosis in rat cerebellar granule cells. <b>1999</b> , 385, 273-82	44
1852	Diphtheria toxin fused to granulocyte-macrophage colony-stimulating factor and Ara-C exert synergistic toxicity against human AML HL-60 cells. <b>1999</b> , 23, 527-38	25
1851	Redox regulation of cellular signalling. <b>1999</b> , 11, 1-14	955
1850	Deciphering the pathways of life and death. <b>1999</b> , 11, 261-6	150
1849	Bcl-2 regulates amplification of caspase activation by cytochrome c. <b>1999</b> , 9, 147-50	112
1848	Protein translocation in apoptosis. <b>1999</b> , 9, 394-401	86
1847	Death by design: mechanism and control of apoptosis. <b>1999</b> , 9, M49-M52	129
1846	Death by design: mechanism and control of apoptosis. <b>1999</b> , 24, M49-M52	8
1845	Caspase 8: igniting the death machine. <b>1999</b> , 7, R225-9	31
1844	Inhibition of tyrosine phosphatases antagonizes CD95-mediated apoptosis. <b>1999</b> , 264, 132-9	5
1843	THE BELGIAN SOCIETY FOR CELL BIOLOGY 43RD ORDINARY MEETING "APOPTOSIS" <b>1999</b> , 23, 755-791	
1842	The role of Fas in apoptosis induced by anticancer drugs. <b>1999</b> , 29, 280-1	8
1841	Activation of caspase-8 in transforming growth factor-beta-induced apoptosis of human hepatoma cells. <b>1999</b> , 30, 1215-22	85
1840	The transforming growth factor beta(1)-inducible transcription factor TIEG1, mediates apoptosis through oxidative stress. <b>1999</b> , 30, 1490-7	135
1839	Caspases as treatment targets in stroke and neurodegenerative diseases. <b>1999</b> , 45, 421-9	288

1838	Function of caspases in regulating apoptosis caused by erythropoietin deprivation in erythroid progenitors. <b>1999</b> , 178, 133-43	76
1837	Potential mechanisms of mitochondrial cytochrome-C release during apoptosis. <b>1999</b> , 46, 18-25	7
1836	Betulinic acid: a new cytotoxic agent against malignant brain-tumor cells. <b>1999</b> , 82, 435-41	143
1835	Differential effects of Bcl-2 overexpression on hippocampal CA1 neurons and dentate granule cells following hypoxic ischemia in adult mice. <b>1999</b> , 57, 1-12	34
1834	Caspase and calpain substrates: Roles in synaptic plasticity and cell death. <b>1999</b> , 58, 167-190	305
1833	Loss of mitochondrial membrane potential is dependent on the apoptotic program activated: Prevention by R-2HMP. <b>1999</b> , 58, 284-292	16
1832	Apoptosis and therapy. <b>1999</b> , 187, 127-37	239
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1793	Cyclic stretch induces both apoptosis and secretion in rat alveolar type II cells. <b>1999</b> , 448, 127-30	59
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1786	Thermotolerance and cell death are distinct cellular responses to stress: dependence on heat shock proteins. <b>1999</b> , 461, 306-10	97
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1729	Harpin-induced hypersensitive cell death is associated with altered mitochondrial functions in tobacco cells. <b>2000</b> , 13, 183-90	107
1728	Bax oligomerization is required for channel-forming activity in liposomes and to trigger cytochrome c release from mitochondria. <b>2000</b> , 345, 271	195
1727	JNK (c-Jun N-terminal kinase) and p38 activation in receptor-mediated and chemically-induced apoptosis of T-cells: differential requirements for caspase activation. <b>2000</b> , 348, 93	22
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1659	Caspase 6 activity initiates caspase 3 activation in cerebellar granule cell apoptosis. <b>2000</b> , 7, 984-93	108

1658	BID-dependent and BID-independent pathways for BAX insertion into mitochondria. <b>2000</b> , 7, 1101-8	100
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1633	Human gelsolin prevents apoptosis by inhibiting apoptotic mitochondrial changes via closing VDAC. <b>2000</b> , 19, 4807-14	148
1632	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
1631	Hamster pancreatic beta cell lines with altered sensitivity towards apoptotic signalling by phosphatase inhibitors. <b>2000</b> , 129, 687-94	12
1630	Suppression of apoptosis by glucocorticoids in glomerular endothelial cells: effects on proapoptotic pathways. <b>2000</b> , 129, 1673-83	34
1629	The coordinate release of cytochrome c during apoptosis is rapid, complete and kinetically invariant. <b>2000</b> , 2, 156-62	875
1628	Changes in intramitochondrial and cytosolic pH: early events that modulate caspase activation during apoptosis. <b>2000</b> , 2, 318-25	599
1627	Heat-shock protein 70 inhibits apoptosis by preventing recruitment of procaspase-9 to the Apaf-1 apoptosome. <b>2000</b> , 2, 469-75	1233
1626	Negative regulation of the Apaf-1 apoptosome by Hsp70. <b>2000</b> , 2, 476-83	695
1625	Structural and biochemical basis of apoptotic activation by Smac/DIABLO. <b>2000</b> , 406, 855-62	699
1624	Hsp27 negatively regulates cell death by interacting with cytochrome c. <b>2000</b> , 2, 645-52	798
1623	Superoxide dismutase as a target for the selective killing of cancer cells. <b>2000</b> , 407, 390-5	664

1622	A chemical switch for inhibitor-sensitive alleles of any protein kinase. <b>2000</b> , 407, 395-401	869
1621	The biochemistry of apoptosis. <b>2000</b> , 407, 770-6	5867
1620	Apoptosis in the nervous system. <b>2000</b> , 407, 802-9	1527
1619	A novel mitochondrial septin-like protein, ARTS, mediates apoptosis dependent on its P-loop motif. <b>2000</b> , 2, 915-21	204
1618	Energy requirement for caspase activation and neuronal cell death. <b>2000</b> , 10, 276-82	105
1617	Controlling the mitochondrial gatekeeper for effective chemotherapy. <b>2000</b> , 111, 52-60	
1616	Bax induction activates apoptotic cascade via mitochondrial cytochrome c release and Bax overexpression enhances apoptosis induced by chemotherapeutic agents in DLD-1 colon cancer cells. <b>2000</b> , 91, 1264-8	41
1615	Oxidative damage and protection of the RPE. <b>2000</b> , 19, 205-21	487
1614	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
1613	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
1612	Glial cell type-specific responses to menadione-induced oxidative stress. <b>2000</b> , 28, 1161-74	145
1611	Mitochondrially targeted antioxidants and thiol reagents. <b>2000</b> , 28, 1547-54	71
1610	Separation of cytochrome c-dependent caspase activation from thiol-disulfide redox change in cells lacking mitochondrial DNA. <b>2000</b> , 29, 334-42	43
1609	Hydrogen peroxide inhibits activation, not activity, of cellular caspase-3 in vivo. <b>2000</b> , 29, 684-92	75
1608	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
1607	The genetic architecture of resistance. <b>2000</b> , 3, 285-90	146
1606	Protein kinase C activation modulates pro- and anti-apoptotic signaling pathways. <b>2000</b> , 79, 824-33	33
1605	Nuclear localization of procaspase-9 and processing by a caspase-3-like activity in mammary epithelial cells. <b>2000</b> , 79, 358-64	39

1604	Drug delivery to mitochondria: the key to mitochondrial medicine. <b>2000</b> , 41, 235-50	356
1603	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
1602	The role of complement anaphylatoxin C5a in neurodegeneration: implications in Alzheimer's disease. <b>2000</b> , 105, 124-30	72
1601	Caspases - controlling intracellular signals by protease zymogen activation. <b>2000</b> , 1477, 299-306	240
1600	Induction of apoptosis by a novel intestinal metabolite of ginseng saponin via cytochrome c-mediated activation of caspase-3 protease. <b>2000</b> , 60, 677-85	112
1599	c-Jun and the transcriptional control of neuronal apoptosis. <b>2000</b> , 60, 1015-21	206
1598	Potentiation of 1-beta-D-arabinofuranosylcytosine-mediated mitochondrial damage and apoptosis in human leukemia cells (U937) overexpressing bcl-2 by the kinase inhibitor 7-hydroxystaurosporine (UCN-01). <b>2000</b> , 60, 1445-56	37
1597	Prevention of nitrogen mustard-induced apoptosis in normal and transformed lymphocytes by ebselen. <b>2000</b> , 60, 1565-77	20
1596	3-m-bromoacetyl amino benzoic acid ethyl ester: a new cancericidal agent that activates the apoptotic pathway through caspase-9. <b>2000</b> , 60, 1693-702	10
1595	A comparison of the expression and properties of Apaf-1 and Apaf-1L. <b>2000</b> , 886, 73-81	11
1594	Oxidative stress, mitochondrial permeability transition and activation of caspases in calcium ionophore A23187-induced death of cultured striatal neurons. <b>2000</b> , 857, 20-9	81
1593	Early and sequential recruitment of apoptotic effectors after focal permanent ischemia in mice. <b>2000</b> , 856, 93-100	57
1592	Caspase-dependent and -independent mechanisms in apoptosis induced by hydroquinone and catechol metabolites of remoxipride in HL-60 cells. <b>2000</b> , 128, 51-63	12
1591	Mitochondria in Ca <sup>2+</sup> signaling and apoptosis. <b>2000</b> , 32, 35-46	122
1590	UV-induced apoptosis in resistant HeLa cells. <b>2000</b> , 20, 99-108	19
1589	Growth arrest and cell death in the breast tumor cell in response to ionizing radiation and chemotherapeutic agents which induce DNA damage. <b>2000</b> , 62, 223-35	63
1588	Is neuronal injury caused by hypoglycemic coma of the necrotic or apoptotic type?. <b>2000</b> , 25, 661-7	30
1587	One path to cell death in the nervous system. <b>2000</b> , 25, 1373-83	11

1586	Regulation of neutrophil apoptosis: a role for protein kinase C and phosphatidylinositol-3-kinase. <b>2000</b> , 5, 451-8	72
1585	The molecular control of DNA damage-induced cell death. <b>2000</b> , 5, 491-507	62
1584	Induction of apoptosis by the dsRNA-dependent protein kinase (PKR): mechanism of action. <b>2000</b> , 5, 107-14	271
1583	Downregulation of urokinase-type plasminogen activator receptor (uPAR) induces caspase-mediated cell death in human glioblastoma cells. <b>2000</b> , 18, 611-5	19
1582	The interferons and cell death: guardians of the cell or accomplices of apoptosis?. <b>2000</b> , 10, 103-11	35
1581	Cytochrome c release from mitochondria of early postimplantation murine embryos exposed to 4-hydroperoxycyclophosphamide, heat shock, and staurosporine. <b>2000</b> , 162, 197-206	57
1580	Protection against TNF-induced liver parenchymal cell apoptosis during endotoxemia by a novel caspase inhibitor in mice. <b>2000</b> , 169, 77-83	62
1579	Hsp27 functions as a negative regulator of cytochrome c-dependent activation of procaspase-3. <b>2000</b> , 19, 1975-81	265
1578	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
1577	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
1576	Epidermal growth factor impairs the cytochrome C/caspase-3 apoptotic pathway induced by transforming growth factor beta in rat fetal hepatocytes via a phosphoinositide 3-kinase-dependent pathway. <b>2000</b> , 32, 528-35	70
1575	Caspase-8 in apoptosis: the beginning of "the end"?. <b>2000</b> , 50, 85-90	191
1574	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
1573	Heavy membrane-associated caspase 3: identification, isolation, and characterization. <b>2000</b> , 39, 16056-63	12
1572	Comparative genomics of the eukaryotes. <b>2000</b> , 287, 2204-15	1364
1571	Mitochondrion as a novel target of anticancer chemotherapy. <b>2000</b> , 92, 1042-53	408
1570	Bid, a critical mediator for apoptosis induced by the activation of Fas/TNF-R1 death receptors in hepatocytes. <b>2000</b> , 78, 203-11	89
1569	Ceramides induce apoptosis in HeLa cells and enhance cytochrome c-induced apoptosis in Xenopus egg extracts. <b>2000</b> , 57, 1117-25	2

1568	Mitochondrial role in life and death of the cell. <b>2000</b> , 7, 2-15	223
1567	Specific degradation of keratin in <i>Xenopus laevis</i> egg extracts undergoing apoptosis. <b>2000</b> , 45, 1977-1981	3
1566	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
1565	The molecular basis of glucocorticoid-induced apoptosis of lymphoblastic leukemia cells. <b>2000</b> , 114, 1-7	92
1564	The morphology of apoptosis. <b>2000</b> , 301, 5-17	547
1563	Apoptosis and cancer chemotherapy. <b>2000</b> , 301, 143-52	167
1562	Nuclear factor- $\kappa$ B activation by the photochemotherapeutic agent verteporfin. <b>2000</b> , 95, 256-262	81
1561	HMBA induces activation of a caspase-independent cell death pathway to overcome P-glycoprotein-mediated multidrug resistance. <b>2000</b> , 95, 2378-2385	75
1560	Deoxyadenosine analogs induce programmed cell death in chronic lymphocytic leukemia cells by damaging the DNA and by directly affecting the mitochondria. <b>2000</b> , 96, 3537-3543	253
1559	Antileukemic drugs increase death receptor 5 levels and enhance Apo-2L-induced apoptosis of human acute leukemia cells. <b>2000</b> , 96, 3900-3906	172
1558	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
1557	The role of immunoglobulin translocations in the pathogenesis of B-cell malignancies. <b>2000</b> , 96, 808-822	243
1556	The cytosolic antioxidant copper/zinc-superoxide dismutase prevents the early release of mitochondrial cytochrome c in ischemic brain after transient focal cerebral ischemia in mice. <b>2000</b> , 20, 2817-24	207
1555	Paclitaxel Induces Apoptosis in AIDS-Related Kaposi's Sarcoma Cells. <b>2000</b> , 4, 37-45	10
1554	Mitochondria and neuronal survival. <b>2000</b> , 80, 315-60	994
1553	Bcl-2 is not reduced in the death of MCF-7 cells at low genistein concentration. <b>2000</b> , 130, 2922-6	31
1552	Tissue-specific Bcl-2 protein partners in apoptosis: An ovarian paradigm. <b>2000</b> , 80, 593-614	135
1551	Fas and Fas ligand in gut and liver. <b>2000</b> , 278, G354-66	100

1550	Proteolytic cleavage of phospholipase C-gamma1 during apoptosis in Molt-4 cells. <b>2000</b> , 14, 1083-92	72
1549	Fas receptor and neuronal cell death after spinal cord ischemia. <b>2000</b> , 20, 6879-87	117
1548	Caspase-dependent Cdk activity is a requisite effector of apoptotic death events. <b>2000</b> , 148, 59-72	85
1547	Mitochondrial translocation of protein kinase C delta in phorbol ester-induced cytochrome c release and apoptosis. <b>2000</b> , 275, 21793-6	236
1546	Bilirubin and Amyloid- $\beta$ Peptide Induce Cytochrome c Release Through Mitochondrial Membrane Permeabilization. <b>2000</b> , 6, 936-946	98
1545	Peroxynitrite-induced apoptosis involves activation of multiple caspases in HL-60 cells. <b>2000</b> , 279, C341-51	75
1544	Factors regulating apoptosis during folliculogenesis in pigs. <b>2000</b> , 77, 1	3
1543	Expression of Bcl-2 protects against photoreceptor degeneration in retinal degeneration slow (rds) mice. <b>2000</b> , 20, 2150-4	53
1542	Posttranslational modification of Bcl-2 facilitates its proteasome-dependent degradation: molecular characterization of the involved signaling pathway. <b>2000</b> , 20, 1886-96	279
1541	Ovarian Cancer. <b>2000</b> ,	3
1540	Bid induces the oligomerization and insertion of Bax into the outer mitochondrial membrane. <b>2000</b> , 20, 929-35	990
1539	Wee1-regulated apoptosis mediated by the crk adaptor protein in Xenopus egg extracts. <b>2000</b> , 151, 1391-400	27
1538	Cytochrome c promotes caspase-9 activation by inducing nucleotide binding to Apaf-1. <b>2000</b> , 275, 31199-203	361
1537	Caspase activation and cytochrome c release during HL-60 cell apoptosis induced by a nitric oxide donor. <b>2000</b> , 32, 507-14	61
1536	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. <b>2000</b> , 275, 7087-94	165
1535	Essential role for caspase-8 in transcription-independent apoptosis triggered by p53. <b>2000</b> , 275, 38905-11	104
1534	Structure-function analysis of the tobacco mosaic virus resistance gene N. <b>2000</b> , 97, 14789-94	208
1533	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



1532	An alternative, nonapoptotic form of programmed cell death. <b>2000</b> , 97, 14376-81	729
1531	Gelsolin in complex with phosphatidylinositol 4,5-bisphosphate inhibits caspase-3 and -9 to retard apoptotic progression. <b>2000</b> , 275, 3761-6	83
1530	Syk is required for the activation of Akt survival pathway in B cells exposed to oxidative stress. <b>2000</b> , 275, 30873-7	53
1529	Apaf-1 oligomerizes into biologically active approximately 700-kDa and inactive approximately 1.4-MDa apoptosome complexes. <b>2000</b> , 275, 6067-70	244
1528	Cytochrome c binding to Apaf-1: the effects of dATP and ionic strength. <b>2000</b> , 97, 11928-31	94
1527	E2F1 mediates death of B-amyloid-treated cortical neurons in a manner independent of p53 and dependent on Bax and caspase 3. <b>2000</b> , 275, 11553-60	168
1526	Cell death-associated translocation of plasma membrane components induced by CTL. <b>2000</b> , 164, 4641-8	17
1525	Apoptosis in Cardiac Biology. <b>2000</b> ,	1
1524	Drob-1, a Drosophila member of the Bcl-2/CED-9 family that promotes cell death. <b>2000</b> , 97, 662-7	138
1523	Apoptosis induced by TGF-beta 1 in Burkitt's lymphoma cells is caspase 8 dependent but is death receptor independent. <b>2000</b> , 165, 2500-10	77
1522	NF-kappa B inhibition causes spontaneous apoptosis in Epstein-Barr virus-transformed lymphoblastoid cells. <b>2000</b> , 97, 6055-60	231
1521	BH4 domain of antiapoptotic Bcl-2 family members closes voltage-dependent anion channel and inhibits apoptotic mitochondrial changes and cell death. <b>2000</b> , 97, 3100-5	364
1520	Temperature-dependent arrest of neutrophil apoptosis. Failure of Bax insertion into mitochondria at 15 degrees C prevents the release of cytochrome c. <b>2000</b> , 275, 33574-84	60
1519	Proteolytic cleavage and activation of protein kinase C [micro] by caspase-3 in the apoptotic response of cells to 1-beta -D-arabinofuranosylcytosine and other genotoxic agents. <b>2000</b> , 275, 18476-81	83
1518	Free Radicals and Inflammation. <b>2000</b> ,	9
1517	Involvement of sphingosine in mitochondria-dependent Fas-induced apoptosis of type II Jurkat T cells. <b>2000</b> , 275, 15691-700	136
1516	Biochemical and genetic analysis of the mitochondrial response of yeast to BAX and BCL-X(L). <b>2000</b> , 20, 3125-36	153
1515	Differential gene expression in p53-mediated apoptosis-resistant vs. apoptosis-sensitive tumor cell lines. <b>2000</b> , 97, 13009-14	143

1514	Bcl-xL inhibits cytochrome c release but not mitochondrial depolarization during the activation of multiple death pathways by tumor necrosis factor-alpha. <b>2000</b> , 275, 31546-53	46
1513	Cytochrome c is released from mitochondria in a reactive oxygen species (ROS)-dependent fashion and can operate as a ROS scavenger and as a respiratory substrate in cerebellar neurons undergoing excitotoxic death. <b>2000</b> , 275, 37159-66	158
1512	BAR: An apoptosis regulator at the intersection of caspases and Bcl-2 family proteins. <b>2000</b> , 97, 2597-602	155
1511	Immunosuppressant FTY720 induces apoptosis by direct induction of permeability transition and release of cytochrome c from mitochondria. <b>2000</b> , 165, 3250-9	76
1510	Activation of calpain I converts excitotoxic neuron death into a caspase-independent cell death. <b>2000</b> , 275, 17064-71	223
1509	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
1508	Heat shock protein 70 inhibits apoptosis downstream of cytochrome c release and upstream of caspase-3 activation. <b>2000</b> , 275, 25665-71	350
1507	Initiation of apoptosis by granzyme B requires direct cleavage of bid, but not direct granzyme B-mediated caspase activation. <b>2000</b> , 192, 1403-14	300
1506	Dual role of caspase-11 in mediating activation of caspase-1 and caspase-3 under pathological conditions. <b>2000</b> , 149, 613-22	275
1505	Excessive apoptosis in low risk myelodysplastic syndromes (MDS). <b>2000</b> , 40, 1-24	35
1504	Possible involvement of cyclophilin B and caspase-activated deoxyribonuclease in the induction of chromosomal DNA degradation in TCR-stimulated thymocytes. <b>2000</b> , 165, 4281-9	14
1503	The chaperone function of hsp70 is required for protection against stress-induced apoptosis. <b>2000</b> , 20, 7146-59	572
1502	Distinct pathways for stimulation of cytochrome c release by etoposide. <b>2000</b> , 275, 32438-43	118
1501	Nitric oxide down-regulates MKP-3 mRNA levels: involvement in endothelial cell protection from apoptosis. <b>2000</b> , 275, 25502-7	101
1500	An induced proximity model for NF-kappa B activation in the Nod1/RICK and RIP signaling pathways. <b>2000</b> , 275, 27823-31	429
1499	DNA-Dependent Protein Kinase in Apoptosis. <b>2001</b> , 39, 693-700	
1498	Apoptosis and gastrointestinal disease. <b>2000</b> , 31, 356-61	4
1497	Caspase Phosphorylation, Cell Death, and Species Variability. <b>2000</b> , 287, 1363a-1363	18

1496	Bax overexpression enhances cytochrome c release from mitochondria and sensitizes KATOIII gastric cancer cells to chemotherapeutic agent-induced apoptosis. <b>2000</b> , 16, 745-9	10
1495	Mechanisms for neuronal degeneration in amyotrophic lateral sclerosis and in models of motor neuron death (Review). <b>2000</b> , 5, 3-13	70
1494	Nitric oxide-mediated apoptosis in human breast cancer cells requires changes in mitochondrial functions and is independent of CD95 (APO-1/Fas). <b>2000</b> , 16, 109-17	11
1493	Protection against Fas receptor-mediated apoptosis in hepatocytes and nonparenchymal cells by a caspase-8 inhibitor in vivo: evidence for a postmitochondrial processing of caspase-8. <b>2000</b> , 58, 109-17	103
1492	Amiodarone induces cytochrome c release and apoptosis through an iodine-independent mechanism. <b>2000</b> , 85, 4323-30	46
1491	Dexamethasone suppresses tumor necrosis factor-alpha-induced apoptosis in osteoblasts: possible role for ceramide. <b>2000</b> , 141, 2904-13	50
1490	Endocrine Oncology. <b>2000</b> ,	
1489	Nitric Oxide and the Cardiovascular System. <b>2000</b> ,	0
1488	Genetic and metabolic control of the mitochondrial transmembrane potential and reactive oxygen intermediate production in HIV disease. <b>2000</b> , 2, 551-73	64
1487	Structure-based discovery of an organic compound that binds Bcl-2 protein and induces apoptosis of tumor cells. <b>2000</b> , 97, 7124-9	1013
1486	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
1485	p53 induces apoptosis by caspase activation through mitochondrial cytochrome c release. <b>2000</b> , 275, 7337-42	427
1484	Butyric-acid-induced apoptosis in murine thymocytes and splenic T- and B-cells occurs in the absence of p53. <b>2000</b> , 79, 1948-54	16
1483	A1 functions at the mitochondria to delay endothelial apoptosis in response to tumor necrosis factor. <b>2000</b> , 275, 18099-107	79
1482	Advances in Research on Neurodegeneration. <b>2000</b> ,	0
1481	Akt regulates cell survival and apoptosis at a postmitochondrial level. <b>2000</b> , 151, 483-94	384
1480	Increased expression of death receptors 4 and 5 synergizes the apoptosis response to combined treatment with etoposide and TRAIL. <b>2000</b> , 20, 205-12	232
1479	Sustained polymorphonuclear leukocyte transmigration induces apoptosis in T84 intestinal epithelial cells. <b>2000</b> , 150, 1479-88	42

1478	Caspase-resistant BAP31 inhibits fas-mediated apoptotic membrane fragmentation and release of cytochrome c from mitochondria. <b>2000</b> , 20, 6731-40	100
1477	An early oxygen-dependent step is required for dexamethasone-induced apoptosis of immature mouse thymocytes. <b>2000</b> , 165, 4822-30	30
1476	Controlled protein degradation regulates ribonucleotide reductase activity in proliferating mammalian cells during the normal cell cycle and in response to DNA damage and replication blocks. <b>2000</b> , 275, 17747-53	120
1475	Role of Reactive Oxygen Species in Tumor Necrosis Factor Toxicity. <b>2000</b> , 245-264	
1474	Proteases for cell suicide: functions and regulation of caspases. <b>2000</b> , 64, 821-46	491
1473	Preservation of mitochondrial structure and function after Bid- or Bax-mediated cytochrome c release. <b>2000</b> , 150, 1027-36	216
1472	Requirement for ERK activation in cisplatin-induced apoptosis. <b>2000</b> , 275, 39435-43	525
1471	Pro-apoptotic apoptosis protease-activating factor 1 (Apaf-1) has a cytoplasmic localization distinct from Bcl-2 or Bcl-x(L). <b>2000</b> , 149, 623-34	125
1470	Activation of MST/Krs and c-Jun N-terminal kinases by different signaling pathways during cytotrienin A-induced apoptosis. <b>2000</b> , 275, 8766-71	34
1469	Mitochondria localization and dimerization are required for CIDE-B to induce apoptosis. <b>2000</b> , 275, 22619-22	54
1468	Caspase inhibition extends the commitment to neuronal death beyond cytochrome c release to the point of mitochondrial depolarization. <b>2000</b> , 150, 131-43	163
1467	Intranuclear huntingtin increases the expression of caspase-1 and induces apoptosis. <b>2000</b> , 9, 2859-67	94
1466	The IRF-3 transcription factor mediates Sendai virus-induced apoptosis. <b>2000</b> , 74, 3781-92	139
1465	Bcl-2 inhibits a Fas-induced conformational change in the Bax N terminus and Bax mitochondrial translocation. <b>2000</b> , 275, 17225-8	105
1464	Mitochondrial basis for immune deficiency. Evidence from purine nucleoside phosphorylase-deficient mice. <b>2000</b> , 191, 2197-208	92
1463	Radiation induced cytochrome c release causes loss of rat colonic fluid absorption by damage to crypts and pericryptal myofibroblasts. <b>2000</b> , 47, 675-84	33
1462	Structure, expression, and function of the <i>Xenopus laevis</i> caspase family. <b>2000</b> , 275, 10484-91	65
1461	Alpha/beta interferons potentiate virus-induced apoptosis through activation of the FADD/Caspase-8 death signaling pathway. <b>2000</b> , 74, 1513-23	245

1460	Electrophysiological study of a novel large pore formed by Bax and the voltage-dependent anion channel that is permeable to cytochrome c. <b>2000</b> , 275, 12321-5	260
1459	Morphological and molecular characterization of adult cardiomyocyte apoptosis during hypoxia and reoxygenation. <b>2000</b> , 87, 118-25	284
1458	Expression and functional analysis of Apaf-1 isoforms. Extra Wd-40 repeat is required for cytochrome c binding and regulated activation of procaspase-9. <b>2000</b> , 275, 8461-8	101
1457	Plasma membrane estrogen receptors signal to antiapoptosis in breast cancer. <b>2000</b> , 14, 1434-47	195
1456	Determinants of cytochrome c pro-apoptotic activity. The role of lysine 72 trimethylation. <b>2000</b> , 275, 16127-33	105
1455	Metabolic depletion of ATP by fructose inversely controls CD95- and tumor necrosis factor receptor 1-mediated hepatic apoptosis. <b>2000</b> , 191, 1975-85	70
1454	Active caspases and cleaved cytokeratins are sequestered into cytoplasmic inclusions in TRAIL-induced apoptosis. <b>2000</b> , 148, 1239-54	150
1453	Assays for cytochrome c release from mitochondria during apoptosis. <b>2000</b> , 322, 235-42	44
1452	BNIP3 and genetic control of necrosis-like cell death through the mitochondrial permeability transition pore. <b>2000</b> , 20, 5454-68	533
1451	Caspase-8 in Apoptosis: The Beginning of "The End"? <b>2000</b> , 50, 85-90	159
1450	Caspase-8-mediated intracellular acidification precedes mitochondrial dysfunction in somatostatin-induced apoptosis. <b>2000</b> , 275, 9244-50	89
1449	Cyclic nucleotides suppress tumor necrosis factor alpha-mediated apoptosis by inhibiting caspase activation and cytochrome c release in primary hepatocytes via a mechanism independent of Akt activation. <b>2000</b> , 275, 13026-34	91
1448	Direct cleavage by the calcium-activated protease calpain can lead to inactivation of caspases. <b>2000</b> , 275, 5131-5	234
1447	An essential role for the caspase dronc in developmentally programmed cell death in Drosophila. <b>2000</b> , 275, 40416-24	121
1446	Execution of apoptosis signal-regulating kinase 1 (ASK1)-induced apoptosis by the mitochondria-dependent caspase activation. <b>2000</b> , 275, 26576-81	274
1445	XIAP regulates DNA damage-induced apoptosis downstream of caspase-9 cleavage. <b>2000</b> , 275, 31733-8	74
1444	Debcl, a proapoptotic Bcl-2 homologue, is a component of the Drosophila melanogaster cell death machinery. <b>2000</b> , 148, 703-14	149
1443	Cross-talk between two cysteine protease families. Activation of caspase-12 by calpain in apoptosis. <b>2000</b> , 150, 887-94	1005

1442	Necrotic death pathway in Fas receptor signaling. <b>2000</b> , 151, 1247-56	204
1441	Granzyme B-mediated cytochrome c release is regulated by the Bcl-2 family members bid and Bax. <b>2000</b> , 192, 1391-402	259
1440	The binding site of human adenosine deaminase for CD26/Dipeptidyl peptidase IV: the Arg142Gln mutation impairs binding to cd26 but does not cause immune deficiency. <b>2000</b> , 192, 1223-36	53
1439	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
1438	Intracellular thiol depletion causes mitochondrial permeability transition in ebselen-induced apoptosis. <b>2000</b> , 380, 319-30	61
1437	Differential role of the JNK and p38 MAPK pathway in c-Myc- and s-Myc-mediated apoptosis. <b>2000</b> , 267, 221-7	35
1436	Function of murine adenosine deaminase in the gastrointestinal tract. <b>2000</b> , 269, 749-57	7
1435	Characterization of Bax-sigma, a cell death-inducing isoform of Bax. <b>2000</b> , 270, 868-79	33
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1433	Baculovirus P35 protein does not inhibit caspase-9 in a cell-free system of apoptosis. <b>2000</b> , 276, 855-61	30
1432	Escape from apoptosis after prolonged serum deprivation is associated with the regulation of the mitochondrial death pathway by Bcl-x(l). <b>2000</b> , 277, 487-93	18
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1428	Protein complexes activate distinct caspase cascades in death receptor and stress-induced apoptosis. <b>2000</b> , 256, 27-33	272
1427	Serine/threonine protein kinases and apoptosis. <b>2000</b> , 256, 34-41	578
1426	Induction of apoptosis by cancer chemotherapy. <b>2000</b> , 256, 42-9	979
1425	The Bcl-2 protein family. <b>2000</b> , 256, 50-7	594

1424	Heat shock protein 70 inhibits caspase-dependent and -independent apoptosis in Jurkat T cells. <b>2000</b> , 257, 58-66	176
1423	Doxorubicin treatment activates a Z-VAD-sensitive caspase, which causes deltaprim loss, caspase-9 activity, and apoptosis in Jurkat cells. <b>2000</b> , 258, 223-35	119
1422	Cytoskeletal disruption accelerates caspase-3 activation and alters the intracellular membrane reorganization in DNA damage-induced apoptosis. <b>2000</b> , 259, 64-78	81
1421	Involvement of protein kinase C-regulated ceramide generation in inostamycin-induced apoptosis. <b>2000</b> , 259, 389-97	13
1420	Reversible physiological alterations in sympathetic neurons deprived of NGF but protected from apoptosis by caspase inhibition or Bax deletion. <b>2000</b> , 161, 203-11	22
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1415	Perturbation of mitochondrial structure and function plays a central role in Actinobacillus actinomycetemcomitans leukotoxin-induced apoptosis. <b>2000</b> , 29, 267-78	41
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1410	Apoptotic mechanisms in acute renal failure. <b>2000</b> , 108, 403-15	165
1409	Apoptosis and liver disease. <b>2000</b> , 108, 567-74	168
1408	Mechanisms of apoptosis. <b>2000</b> , 157, 1415-30	944
1407	Dexamethasone pre-treatment interferes with apoptotic death in glioma cells. <b>2000</b> , 96, 417-25	77

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1404	Live or let die - retinal ganglion cell death and survival during development and in the lesioned adult CNS. <b>2000</b> , 23, 483-90	163
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
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