Boris Zhivotovsky

List of Publications by Citations

331 papers	42,428 citations	86 h-index	202 g-index
371 ext. papers	47,104 ext. citations	7.3 avg, IF	7.29 L-index

#	Paper	IF	Citations
331	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
330	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
329	Regulation of cell death: the calcium-apoptosis link. *Nature Reviews Molecular Cell Biology*, **2003**, 4, 552-65	45.7	2265
328	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. *Cell Death and Differentiation*, **2018**, 25, 486-541	12.7	2160
327	Classification of cell death: recommendations of the Nomenclature Committee on Cell Death 2009. *Cell Death and Differentiation*, **2009**, 16, 3-11	12.7	2114
326	Molecular definitions of cell death subroutines: recommendations of the Nomenclature Committee on Cell Death 2012. *Cell Death and Differentiation*, **2012**, 19, 107-20	12.7	1843
325	Glutamate-induced neuronal death: a succession of necrosis or apoptosis depending on mitochondrial function. *Neuron*, **1995**, 15, 961-73	13.9	1661
324	Mitochondria, oxidative stress and cell death. *Apoptosis: an International Journal on Programmed Cell Death*, **2007**, 12, 913-22	5.4	1418
323	Mitochondrial oxidative stress: implications for cell death. *Annual Review of Pharmacology and Toxicology*, **2007**, 47, 143-83	17.9	922
322	Cytochrome c release from mitochondria proceeds by a two-step process. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 1259-63	11.5	764
321	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. *Cell Death and Differentiation*, **2015**, 22, 58-73	12.7	643
320	Adiponectin-induced antiangiogenesis and antitumor activity involve caspase-mediated endothelial cell apoptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2004** , 101, 2476-81	11.5	586
319	Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. *Cell Death and Differentiation*, **2009**, 16, 1093-107	12.7	533
318	Classification of cell death: recommendations of the Nomenclature Committee on Cell Death. *Cell Death and Differentiation*, **2005**, 12 Suppl 2, 1463-7	12.7	529
317	DNA damage-induced apoptosis. *Oncogene*, **2004**, 23, 2797-808	9.2	514
316	Mitochondria in cancer cells: what is so special about them?. *Trends in Cell Biology*, **2008**, 18, 165-73	18.3	478
315	Death through a tragedy: mitotic catastrophe. *Cell Death and Differentiation*, **2008**, 15, 1153-62	12.7	447

314	Morphological classification of plant cell deaths. *Cell Death and Differentiation*, **2011**, 18, 1241-6	12.7	401
313	Presence of a pre-apoptotic complex of pro-caspase-3, Hsp60 and Hsp10 in the mitochondrial fraction of jurkat cells. *EMBO Journal*, **1999**, 18, 2040-8	13	395
312	Calcium and cell death mechanisms: a perspective from the cell death community. *Cell Calcium*, **2011**, 50, 211-21	4	325
311	Caspase-2 acts upstream of mitochondria to promote cytochrome c release during etoposide-induced apoptosis. *Journal of Biological Chemistry*, **2002**, 277, 29803-9	5.4	323
310	Multiple pathways of cytochrome c release from mitochondria in apoptosis. *Biochimica Et Biophysica Acta - Bioenergetics*, **2006**, 1757, 639-47	4.6	321
309	Apoptosis induced by a human milk protein. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 8064-8	11.5	310
308	Calcium and mitochondria in the regulation of cell death. *Biochemical and Biophysical Research Communications*, **2015**, 460, 72-81	3.4	299
307	Caspases: their intracellular localization and translocation during apoptosis. *Cell Death and Differentiation*, **1999**, 6, 644-51	12.7	284
306	Glucose and tolbutamide induce apoptosis in pancreatic beta-cells. A process dependent on intracellular Ca2+ concentration. *Journal of Biological Chemistry*, **1998**, 273, 33501-7	5.4	280
305	Injected cytochrome c induces apoptosis. *Nature*, **1998**, 391, 449-50	50.4	275
304	Cell death mechanisms and their implications in toxicology. *Toxicological Sciences*, **2011**, 119, 3-19	4.4	272
303	Caspases and cancer. *Cell Death and Differentiation*, **2011**, 18, 1441-9	12.7	263
302	Inhibition of Mammalian thioredoxin reductase by some flavonoids: implications for myricetin and quercetin anticancer activity. *Cancer Research*, **2006**, 66, 4410-8	10.1	246
301	Apoptosis and genomic instability. *Nature Reviews Molecular Cell Biology*, **2004**, 5, 752-62	48.7	234
300	Free radicals in cross talk between autophagy and apoptosis. *Antioxidants and Redox Signaling*, **2014**, 21, 86-102	8.4	233
299	Review: nuclear events in apoptosis. *Journal of Structural Biology*, **2000**, 129, 346-58	3.4	233
298	Cell death-based treatment of lung adenocarcinoma. *Cell Death and Disease*, **2018**, 9, 117	9.8	208
297	Cysteine protease mcII-Pa executes programmed cell death during plant embryogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14463-8	11.5	207

296	Mitochondrial regulation of cell death: processing of apoptosis-inducing factor (AIF). *Biochemical and Biophysical Research Communications*, **2010**, 396, 95-100	3.4	202
295	Apoptosis in human disease: a new skin for the old ceremony?. *Biochemical and Biophysical Research Communications*, **1999**, 266, 699-717	3.4	196
294	Mechanisms of Interferon-alpha induced apoptosis in malignant cells. *Oncogene*, **2002**, 21, 1251-62	9.2	183
293	Various modes of cell death induced by DNA damage. *Oncogene*, **2013**, 32, 3789-97	9.2	182
292	Death receptor-induced apoptotic and necrotic cell death: differential role of caspases and mitochondria. *Cell Death and Differentiation*, **2001**, 8, 829-40	12.7	180
291	A comparative study of apoptosis and necrosis in HepG2 cells: oxidant-induced caspase inactivation leads to necrosis. *Biochemical and Biophysical Research Communications*, **1999**, 255, 6-11	3.4	174
290	Cell death induced by dexamethasone in lymphoid leukemia is mediated through initiation of autophagy. *Cell Death and Differentiation*, **2009**, 16, 1018-29	12.7	173
289	Apoptosis: cell death defined by caspase activation. *Cell Death and Differentiation*, **1999**, 6, 495-6	12.7	172
288	Nuclear calcium transport and the role of calcium in apoptosis. *Cell Calcium*, **1994**, 16, 279-88	4	171
287	Metacaspase-dependent programmed cell death is essential for plant embryogenesis. *Current Biology*, **2004**, 14, R339-40	6.3	170
286	Involvement of cellular proteolytic machinery in apoptosis. *Biochemical and Biophysical Research Communications*, **1997**, 230, 481-8	3.4	169
285	Two waves of programmed cell death occur during formation and development of somatic embryos in the gymnosperm, Norway spruce. *Journal of Cell Science*, **2000**, 113, 4399-4411	5.3	168
284	Caspase-2 function in response to DNA damage. *Biochemical and Biophysical Research Communications*, **2005**, 331, 859-67	3.4	167
283	Tudor staphylococcal nuclease is an evolutionarily conserved component of the programmed cell death degradome. *Nature Cell Biology*, **2009**, 11, 1347-54	23.4	163
282	Cytochrome c release occurs via Ca2+-dependent and Ca2+-independent mechanisms that are regulated by Bax. *Journal of Biological Chemistry*, **2001**, 276, 19066-71	5.4	163
281	The Warburg effect and mitochondrial stability in cancer cells. *Molecular Aspects of Medicine*, **2010**, 31, 60-74	16.7	158
280	Role of cardiolipin in cytochrome c release from mitochondria. *Cell Death and Differentiation*, **2007**, 14, 1243-7	12.7	152
279	Evaluation of caspase activity in apoptotic cells. *Journal of Immunological Methods*, **2002**, 265, 97-110	2.5	150

278	Mathematical modelling of cell-fate decision in response to death receptor engagement. *PLoS Computational Biology*, **2010**, 6, e1000702	5	140
277	Cell death in human atherosclerotic plaques involves both oncosis and apoptosis. *Atherosclerosis*, **1997**, 130, 17-27	3.1	139
276	Mitochondria as targets for cancer chemotherapy. *Seminars in Cancer Biology*, **2009**, 19, 57-66	12.7	133
275	Proteases in autophagy. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2012**, 1824, 44-50	4	130
274	Suppression of basal autophagy reduces lung cancer cell proliferation and enhances caspase-dependent and -independent apoptosis by stimulating ROS formation. *Autophagy*, **2012**, 8, 1032-44	10.2	130
273	Mechanism of dithiocarbamate inhibition of apoptosis: thiol oxidation by dithiocarbamate disulfides directly inhibits processing of the caspase-3 proenzyme. *Chemical Research in Toxicology*, **1997**, 10, 636-43	4	130
272	All along the watchtower: on the regulation of apoptosis regulators. *FASEB Journal*, **1999**, 13, 1647-57	0.9	127
271	Tumor radiosensitivity and apoptosis. *Experimental Cell Research*, **1999**, 248, 10-7	4.2	121
270	VEIDase is a principal caspase-like activity involved in plant programmed cell death and essential for embryonic pattern formation. *Cell Death and Differentiation*, **2004**, 11, 175-82	12.7	120
269	Distinct pathways for stimulation of cytochrome c release by etoposide. *Journal of Biological Chemistry*, **2000**, 275, 32438-43	5.4	118
268	An increase in intracellular Ca2+ is required for the activation of mitochondrial calpain to release AIF during cell death. *Cell Death and Differentiation*, **2008**, 15, 1857-64	12.7	117
267	DNA damage induces two distinct modes of cell death in ovarian carcinomas. *Cell Death and Differentiation*, **2008**, 15, 555-66	12.7	116
266	Processed caspase-2 can induce mitochondria-mediated apoptosis independently of its enzymatic activity. *EMBO Reports*, **2004**, 5, 643-8	6.5	113
265	Cytoskeletal breakdown and apoptosis elicited by NO donors in cerebellar granule cells require NMDA receptor activation. *Journal of Neurochemistry*, **1996**, 67, 2484-93	6	112
264	Importance of the redox state of cytochrome c during caspase activation in cytosolic extracts. *Biochemical Journal*, **1998**, 329 (Pt 1), 95-9	3.8	112
263	Ultrarapid caspase-3 dependent apoptosis induction by serine/threonine phosphatase inhibitors. *Cell Death and Differentiation*, **1999**, 6, 1099-108	12.7	112
262	Autophagy and metacaspase determine the mode of cell death in plants. *Journal of Cell Biology*, **2013**, 203, 917-27	7.3	111
261	Granulocyte colony-stimulating factor inhibits spontaneous cytochrome c release and mitochondria-dependent apoptosis of myelodysplastic syndrome hematopoietic progenitors. *Blood* , **2003**, 101, 1080-6	2.2	106

260	Mitochondrial dysfunction is an essential step for killing of non-small cell lung carcinomas resistant to conventional treatment. *Oncogene*, **2002**, 21, 65-77	9.2	105
259	Reactive oxygen species generated in different compartments induce cell death, survival, or senescence. *Free Radical Biology and Medicine*, **2013**, 57, 176-87	7.8	101
258	Mitochondria as targets for chemotherapy. *Apoptosis: an International Journal on Programmed Cell Death*, **2009**, 14, 624-40	5.4	99
257	Cleavage of Bcl-2 is an early event in chemotherapy-induced apoptosis of human myeloid leukemia cells. *Leukemia*, **1999**, 13, 719-28	10.7	93
256	Doxorubicin requires the sequential activation of caspase-2, protein kinase Cdelta, and c-Jun NH2-terminal kinase to induce apoptosis. *Molecular Biology of the Cell*, **2005**, 16, 3821-31	3.5	92
255	miRNA-214 modulates radiotherapy response of non-small cell lung cancer cells through regulation of p38MAPK, apoptosis and senescence. *British Journal of Cancer*, **2012**, 107, 1361-73	8.7	91
254	Mitochondrial targeting of Ɛtocopheryl succinate enhances its pro-apoptotic efficacy: a new paradigm for effective cancer therapy. *Free Radical Biology and Medicine*, **2011**, 50, 1546-55	7.8	91
253	Interferon alpha-induced apoptosis in tumor cells is mediated through the phosphoinositide 3-kinase/mammalian target of rapamycin signaling pathway. *Journal of Biological Chemistry*, **2004**, 279, 24152-62	5.4	89
252	Caspase-2 permeabilizes the outer mitochondrial membrane and disrupts the binding of cytochrome c to anionic phospholipids. *Journal of Biological Chemistry*, **2004**, 279, 49575-8	5.4	89
251	Role of apoptosis in pancreatic beta-cell death in diabetes. *Diabetes*, **2001**, 50 Suppl 1, S44-7	0.9	88
250	Antioxidants J811 and 17beta-estradiol protect cerebellar granule cells from methylmercury-induced apoptotic cell death. *Journal of Neuroscience Research*, **2000**, 62, 557-65	4.4	87
249	The unpredictable caspase-2: what can it do?. *Trends in Cell Biology*, **2010**, 20, 150-9	18.3	86
248	Apoptosis-inducing factor determines the chemoresistance of non-small-cell lung carcinomas. *Oncogene*, **2004**, 23, 6282-91	9.2	86
247	Aberrant mitochondrial iron distribution and maturation arrest characterize early erythroid precursors in low-risk myelodysplastic syndromes. *Blood*, **2005**, 106, 247-53	2.2	86
246	The most unkindest cut of all: on the multiple roles of mammalian caspases. *Leukemia*, **2000**, 14, 1514-25	10.7	86
245	Release of adenylate kinase 2 from the mitochondrial intermembrane space during apoptosis. *FEBS Letters*, **1999**, 447, 10-2	3.8	86
244	Functional connection between p53 and caspase-2 is essential for apoptosis induced by DNA damage. *Oncogene*, **2006**, 25, 5683-92	9.2	85
243	Adenine nucleotide translocase: a component of the phylogenetically conserved cell death machinery. *Cell Death and Differentiation*, **2009**, 16, 1419-25	12.7	84

242	Apoptosis--molecular mechanisms and biomedical implications. *Molecular Aspects of Medicine*, **1996**, 17, 1-110	16.7	84
241	Apoptosis induced by microinjection of cytochrome c is caspase-dependent and is inhibited by Bcl-2. *Cell Death and Differentiation*, **1998**, 5, 660-8	12.7	83
240	Mesenchymal stem cells and hypoxia: where are we?. *Mitochondrion*, **2014**, 19 Pt A, 105-12	4.9	82
239	Multimeric alpha-lactalbumin from human milk induces apoptosis through a direct effect on cell nuclei. *Experimental Cell Research*, **1999**, 246, 451-60	4.2	82
238	Multiple proteases are involved in thymocyte apoptosis. *Experimental Cell Research*, **1995**, 221, 404-12	4.2	81
237	Formation of 50 kbp chromatin fragments in isolated liver nuclei is mediated by protease and endonuclease activation. *FEBS Letters*, **1994**, 351, 150-4	3.8	78
236	Role of alterations in the apoptotic machinery in sensitivity of cancer cells to treatment. *Current Pharmaceutical Design*, **2006**, 12, 4411-25	3.3	76
235	A matrix-assisted laser desorption ionization post-source decay (MALDI-PSD) analysis of proteins released from isolated liver mitochondria treated with recombinant truncated Bid. *Cell Death and Differentiation*, **2002**, 9, 301-8	12.7	76
234	Mitophagy: Link to cancer development and therapy. *Biochemical and Biophysical Research Communications*, **2017**, 482, 432-439	3.4	75
233	Two waves of programmed cell death occur during formation and development of somatic embryos in the gymnosperm, Norway spruce. *Journal of Cell Science*, **2000**, 113 Pt 24, 4399-411	5.3	75
232	Mitochondrial targeting of tBid/Bax: a role for the TOM complex?. *Cell Death and Differentiation*, **2009**, 16, 1075-82	12.7	74
231	Apoptotic pathways and therapy resistance in human malignancies. *Advances in Cancer Research*, **2005**, 94, 143-96	5.9	73
230	Endothelial cell surface ATP synthase-triggered caspase-apoptotic pathway is essential for k1-5-induced antiangiogenesis. *Cancer Research*, **2004**, 64, 3679-86	10.1	73
229	Cell death mechanisms: cross-talk and role in disease. *Experimental Cell Research*, **2010**, 316, 1374-83	4.2	72
228	Differences in expression of pro-caspases in small cell and non-small cell lung carcinoma. *Biochemical and Biophysical Research Communications*, **1999**, 262, 381-7	3.4	71
227	Role of the nucleus in apoptosis: signaling and execution. *Cellular and Molecular Life Sciences*, **2015**, 72, 4593-612	10.3	70
226	To kill or be killed: how viruses interact with the cell death machinery. *Journal of Internal Medicine*, **2010**, 267, 473-82	10.8	70
225	Detection of pro-caspase-3 in cytosol and mitochondria of various tissues. *FEBS Letters*, **1998**, 431, 167-9	3.8	70

224	DISC-mediated activation of caspase-2 in DNA damage-induced apoptosis. *Oncogene*, **2009**, 28, 1949-59	9.2	68
223	Carcinogenesis and apoptosis: paradigms and paradoxes. *Carcinogenesis*, **2006**, 27, 1939-45	4.6	68
222	A folding variant of human alpha-lactalbumin induces mitochondrial permeability transition in isolated mitochondria. *FEBS Journal*, **2001**, 268, 186-91		68
221	Cytochrome c: the AchillesPheel in apoptosis. *Cellular and Molecular Life Sciences*, **2012**, 69, 1787-97	10.3	65
220	Cytochrome c release and caspase-3 activation during colchicine-induced apoptosis of cerebellar granule cells. *European Journal of Neuroscience*, **1999**, 11, 1067-72	3.5	65
219	Androgen treatment of neonatal rats decreases susceptibility of cerebellar granule neurons to oxidative stress in vitro. *European Journal of Neuroscience*, **1999**, 11, 1285-91	3.5	65
218	Involvement of Ca2+ in the formation of high molecular weight DNA fragments in thymocyte apoptosis. *Biochemical and Biophysical Research Communications*, **1994**, 202, 120-7	3.4	65
217	Combined inhibition of DNA methyltransferase and histone deacetylase restores caspase-8 expression and sensitizes SCLC cells to TRAIL. *Carcinogenesis*, **2011**, 32, 1450-8	4.6	64
216	Defective caspase-3 relocalization in non-small cell lung carcinoma. *Oncogene*, **2001**, 20, 2877-88	9.2	64
215	Methylmercury and H(2)O(2) provoke lysosomal damage in human astrocytoma D384 cells followed by apoptosis. *Free Radical Biology and Medicine*, **2001**, 30, 1347-56	7.8	64
214	Post-translational Modification of Caspases: The Other Side of Apoptosis Regulation. *Trends in Cell Biology*, **2017**, 27, 322-339	18.3	63
213	S100A4 interacts with p53 in the nucleus and promotes p53 degradation. *Oncogene*, **2013**, 32, 5531-40	9.2	60
212	Oxidative modification sensitizes mitochondrial apoptosis-inducing factor to calpain-mediated processing. *Free Radical Biology and Medicine*, **2010**, 48, 791-7	7.8	60
211	Protease activation in apoptosis induced by MAL. *Experimental Cell Research*, **1999**, 249, 260-8	4.2	60
210	Peroxiredoxin V is essential for protection against apoptosis in human lung carcinoma cells. *Experimental Cell Research*, **2006**, 312, 2806-15	4.2	59
209	The mitochondrial TOM complex is required for tBid/Bax-induced cytochrome c release. *Journal of Biological Chemistry*, **2007**, 282, 27633-9	5.4	57
208	Mitotic catastrophe and cancer drug resistance: A link that must to be broken. *Drug Resistance Updates*, **2016**, 24, 1-12	23.2	56
207	Targeted Deletion of Autophagy Genes Atg5 or Atg7 in the Chondrocytes Promotes Caspase-Dependent Cell Death and Leads to Mild Growth Retardation. *Journal of Bone and Mineral Research*, **2015**, 30, 2249-61	6.3	56

206	Characterization of the human FLICE-inhibitory protein locus and comparison of the anti-apoptotic activity of four different flip isoforms. *Scandinavian Journal of Immunology*, **2001**, 54, 180-9	3.4	56
205	A quantitative assay for the monitoring of autophagosome accumulation in different phases of the cell cycle. *Autophagy*, **2011**, 7, 83-90	10.2	55
204	P73 and caspase-cleaved p73 fragments localize to mitochondria and augment TRAIL-induced apoptosis. *Oncogene*, **2008**, 27, 4363-72	9.2	55
203	Hypomethylation and apoptosis in 5-azacytidine-treated myeloid cells. *Experimental Hematology*, **2008**, 36, 149-57	3.1	55
202	Mitochondrial cytochrome c release may occur by volume-dependent mechanisms not involving permeability transition. *Biochemical Journal*, **2004**, 378, 213-7	3.8	54
201	Defects in the apoptotic machinery of cancer cells: role in drug resistance. *Seminars in Cancer Biology*, **2003**, 13, 125-34	12.7	53
200	Ca2+ and endonuclease activation in radiation-induced lymphoid cell death. *Experimental Cell Research*, **1993**, 207, 163-70	4.2	53
199	DNA-dependent protein kinase content and activity in lung carcinoma cell lines: correlation with intrinsic radiosensitivity. *European Journal of Cancer*, **1999**, 35, 111-6	7.5	52
198	Chromosomal breaks during mitotic catastrophe trigger H2AX-ATM-p53-mediated apoptosis. *Journal of Cell Science*, **2011**, 124, 2951-63	5.3	51
197	The transcriptosomal response of human A549 lung cells to a hydrogen peroxide-generating system: relationship to DNA damage, cell cycle arrest, and caspase activation. *Free Radical Biology and Medicine*, **2004**, 36, 881-96	7.8	51
196	Two different proteases are involved in the proteolysis of lamin during apoptosis. *Biochemical and Biophysical Research Communications*, **1997**, 233, 96-101	3.4	50
195	Autophagy in toxicology: cause or consequence?. *Annual Review of Pharmacology and Toxicology*, **2013**, 53, 275-97	17.9	49
194	Caspase-2 activation in neural stem cells undergoing oxidative stress-induced apoptosis. *Apoptosis: an International Journal on Programmed Cell Death*, **2008**, 13, 354-63	5.4	49
193	Proteases in apoptosis. *Experientia*, **1996**, 52, 968-78		49
192	Dexamethasone-induced apoptosis in acute lymphoblastic leukemia involves differential regulation of Bcl-2 family members. *Haematologica*, **2007**, 92, 1460-9	6.6	48
191	Apoptosis in refractory anaemia with ringed sideroblasts is initiated at the stem cell level and associated with increased activation of caspases. *British Journal of Haematology*, **2001**, 112, 714-26	4.5	47
190	Freezing induces artificial cleavage of apoptosis-related proteins in human bone marrow cells. *Journal of Immunological Methods*, **2000**, 245, 91-4	2.5	47
189	Role of nucleases in apoptosis. *International Archives of Allergy and Immunology*, **1994**, 105, 333-8	3.7	47

188	Saga of Mcl-1: regulation from transcription to degradation. *Cell Death and Differentiation*, **2020**, 27, 405-419	12.7	47
187	Cell cycle and cell death in disease: past, present and future. *Journal of Internal Medicine*, **2010**, 268, 395-409	7.5	46
186	Involvement of Ca2+ and ROS in alpha-tocopheryl succinate-induced mitochondrial permeabilization. *International Journal of Cancer*, **2010**, 127, 1823-32	7.5	46
185	AMPA neurotoxicity in cultured cerebellar granule neurons: mode of cell death. *Brain Research Bulletin*, **1997**, 43, 393-403	3.9	45
184	PRIMA-1MET induces mitochondrial apoptosis through activation of caspase-2. *Oncogene*, **2008**, 27, 6571-80	7.8	45
183	Expression of inhibitor of apoptosis proteins in small- and non-small-cell lung carcinoma cells. *Experimental Cell Research*, **2002**, 279, 277-90	4.2	45
182	Application of a fluorometric assay to detect caspase activity in thymus tissue undergoing apoptosis in vivo. *Journal of Immunological Methods*, **1999**, 226, 43-8	2.5	45
181	Understanding cell cycle and cell death regulation provides novel weapons against human diseases. *Journal of Internal Medicine*, **2017**, 281, 483-495	10.8	44
180	Caspases: determination of their activities in apoptotic cells. *Methods in Enzymology*, **2008**, 442, 157-81	1.7	43
179	Separation of cytochrome c-dependent caspase activation from thiol-disulfide redox change in cells lacking mitochondrial DNA. *Free Radical Biology and Medicine*, **2000**, 29, 334-42	7.8	43
178	Sorafenib-induced defective autophagy promotes cell death by necroptosis. *Oncotarget*, **2015**, 6, 37066-82	5.5	43
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176	Tudor staphylococcal nuclease: biochemistry and functions. *Cell Death and Differentiation*, **2016**, 23, 1739-1748	12.7	43
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173	The scaffold protein WRAP53 orchestrates the ubiquitin response critical for DNA double-strand break repair. *Genes and Development*, **2014**, 28, 2726-38	12.6	41
172	Mitochondrial Involvement in Migration, Invasion and Metastasis. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 355	5.7	40
171	To Eat or to Die: Deciphering Selective Forms of Autophagy. *Trends in Biochemical Sciences*, **2020**, 45, 347-364	10.3	39

170	Doxorubicin sensitizes human tumor cells to NK cell- and T-cell-mediated killing by augmented TRAIL receptor signaling. *International Journal of Cancer*, **2013**, 133, 1643-52	7.5	39
169	Low ATP level is sufficient to maintain the uncommitted state of multipotent mesenchymal stem cells. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 4418-25	4	39
168	Drug-induced death of the asexual blood stages of Plasmodium falciparum occurs without typical signs of apoptosis. *Microbes and Infection*, **2006**, 8, 1560-8	9.3	38
167	Higher spontaneous apoptotic index in small cell compared with non-small cell lung carcinoma cell lines; lack of correlation with Bcl-2/Bax. *Lung Cancer*, **1998**, 22, 1-13	5.9	37
166	Inhibitors of the PI3-kinase/Akt pathway induce mitotic catastrophe in non-small cell lung cancer cells. *International Journal of Cancer*, **2006**, 119, 1028-38	7.5	36
165	Constitutive expression of the human peroxiredoxin V gene contributes to protection of the genome from oxidative DNA lesions and to suppression of transcription of noncoding DNA. *FEBS Journal*, **2006**, 273, 2607-17	5.7	36
164	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. *Molecular Cell*, **2020**, 77, 927-929	17.6	35
163	Mitochondrial targeting of human peroxiredoxin V protein and regulation of PRDX5 gene expression by nuclear transcription factors controlling biogenesis of mitochondria. *FEBS Journal*, **2007**, 274, 5804-14	5.7	35
162	The role of p73 in hematological malignancies. *Leukemia*, **2006**, 20, 757-66	10.7	35
161	Apoptosis regulation by subcellular relocation of caspases. *Scientific Reports*, **2018**, 8, 12199	4.9	34
160	Mitochondria-targeted betulinic and ursolic acid derivatives: synthesis and anticancer activity. *MedChemComm*, **2017**, 8, 1934-1945	5	34
159	5-Fluorouracil signaling through a calcium-calmodulin-dependent pathway is required for p53 activation and apoptosis in colon carcinoma cells. *Oncogene*, **2013**, 32, 4529-38	9.2	34
158	Role of apoptosis in the response of lung carcinomas to anti-cancer treatment. *Annals of the New York Academy of Sciences*, **2000**, 926, 204-16	6.5	34
157	Termination of lactation induces apoptosis and alters the expression of the Bcl-2 family members in the rat anterior pituitary. *Endocrinology*, **1998**, 139, 2465-71	4.8	34
156	Granulocyte colony-stimulating factor inhibits Fas-triggered apoptosis in bone marrow cells isolated from patients with refractory anemia with ringed sideroblasts. *Leukemia*, **2001**, 15, 742-51	10.7	33
155	Characterization of human buccal epithelial cells transfected with the simian virus 40 T-antigen gene. *Carcinogenesis*, **1995**, 16, 2515-21	4.6	33
154	Alterations in the nucleocytoplasmic transport in apoptosis: Caspases lead the way. *Cell Proliferation*, **2018**, 51, e12467	7.9	33
153	Doxorubicin and etoposide sensitize small cell lung carcinoma cells expressing caspase-8 to TRAIL. *Molecular Cancer*, **2010**, 9, 87	42.1	32

152	Alteration of mitochondrial function and cell sensitization to death. *Journal of Bioenergetics and Biomembranes*, **2007**, 39, 23-30	3.7	32
151	Antiapoptotic role of growth factors in the myelodysplastic syndromes: concordance between in vitro and in vivo observations. *Clinical Cancer Research*, **2005**, 11, 6291-9	12.9	32
150	Caloric restriction - A promising anti-cancer approach: From molecular mechanisms to clinical trials. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2017**, 1867, 29-41	11.2	31
149	Citrate kills tumor cells through activation of apical caspases. *Cellular and Molecular Life Sciences*, **2012**, 69, 4229-37	10.3	31
148	Early mitochondrial alterations in ATRA-induced cell death. *Cell Death and Differentiation*, **2006**, 13, 119-28	12.7	31
147	Cell death in adult neural stem cells. *Cell Death and Differentiation*, **2002**, 9, 1377-8	12.7	31
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