Frank Essmann

List of Publications by Year
in descending order

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72 papers	4,921 citations	81900 39 h-index	95266 68 g-index
75 all docs	75 docs citations	75 times ranked	11051 citing authors

#	Article	IF	Citations
1	T-helper-1-cell cytokines drive cancer into senescence. Nature, 2013, 494, 361-365.	27.8	601
2	Transdifferentiation of Vascular Smooth Muscle Cells to Macrophage-Like Cells During Atherogenesis. Circulation Research, 2014, 115, 662-667.	4.5	412
3	Activation of caspase-8 in drug-induced apoptosis of B-lymphoid cells is independent of CD95/Fas receptor-ligand interaction and occurs downstream of caspase-3. Blood, 2001, 97, 1378-1387.	1.4	237
4	Direct impact of cisplatin on mitochondria induces ROS production that dictates cell fate of ovarian cancer cells. Cell Death and Disease, 2019, 10, 851.	6.3	228
5	Paclitaxel-induced apoptosis in BJAB cells proceeds via a death receptor-independent, caspases-3/-8-driven mitochondrial amplification loop. Oncogene, 2003, 22, 2236-2247.	5.9	172
6	Piceatannol, a hydroxylated analog of the chemopreventive agent resveratrol, is a potent inducer of apoptosis in the lymphoma cell line BJAB and in primary, leukemic lymphoblasts. Leukemia, 2001, 15, 1735-1742.	7.2	162
7	SOX2 Expression Associates with Stem Cell State in Human Ovarian Carcinoma. Cancer Research, 2013, 73, 5544-5555.	0.9	129
8	Lidocaine Induces Apoptosis via the Mitochondrial Pathway Independently of Death Receptor Signaling. Anesthesiology, 2007, 107, 136-143.	2.5	117
9	Staphylococcus aureus Î±-toxin-induced cell death: predominant necrosis despite apoptotic caspase activation. Cell Death and Differentiation, 2003, 10, 1260-1272.	11.2	112
10	p21 Blocks Irradiation-Induced Apoptosis Downstream of Mitochondria by Inhibition of Cyclin-Dependent Kinaseâ€“Mediated Caspase-9 Activation. Cancer Research, 2006, 66, 11254-11262.	0.9	112
11	Induction of cell death by the BH3-only Bcl-2 homolog Nbk/Bik is mediated by an entirely Bax-dependent mitochondrial pathway. EMBO Journal, 2003, 22, 3580-3590.	7.8	107
12	A Novel Member of the IÎºB Family, Human IÎºB-Î¶, Inhibits Transactivation of p65 and Its DNA Binding. Journal of Biological Chemistry, 2006, 281, 12645-12654.	3.4	107
13	Phosphorylation of Atg5 by the Gadd45Î²â€“MEKK4-p38 pathway inhibits autophagy. Cell Death and Differentiation, 2013, 20, 321-332.	11.2	107
14	Apoptosis Resistance of MCF-7 Breast Carcinoma Cells to Ionizing Radiation Is Independent of p53 and Cell Cycle Control but Caused by the Lack of Caspase-3 and a Caffeine-Inhibitable Event. Cancer Research, 2004, 64, 7065-7072.	0.9	101
15	The Multiple Battles Fought by Anti-Apoptotic p21. Cell Cycle, 2007, 6, 407-413.	2.6	95
16	Human Skin Endothelial Cells Can Express All 10TLRGenes and Respond to Respective Ligands. Vaccine Journal, 2008, 15, 138-146.	3.1	93
17	Apoptin, a tumor-selective killer. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1335-1342.	4.1	90
18	Pifithrin-Î± protects against DNA damage-induced apoptosis downstream of mitochondria independent of p53. Cell Death and Differentiation, 2009, 16, 869-878.	11.2	84

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19	IºBÎ¶ Is a Transcriptional Key Regulator of CCL2/MCP-1. Journal of Immunology, 2013, 190, 4812-4820.	0.8	81
20	Differential Induction of Apoptosis and Senescence by the DNA Methyltransferase Inhibitors 5-Azacytidine and 5-Aza-2â€²-Deoxycytidine in Solid Tumor Cells. Molecular Cancer Therapeutics, 2013, 12, 2226-2236.	4.1	81
21	GDP dissociation inhibitor D4-GDI (Rho-GDI 2), but not the homologous Rho-GDI 1, is cleaved by caspase-3 during drug-induced apoptosis. Biochemical Journal, 2000, 346, 777-783.	3.7	77
22	High Glutathione and Glutathione Peroxidase-2 Levels Mediate Cell-Type-Specific DNA Damage Protection in Human Induced Pluripotent Stem Cells. Stem Cell Reports, 2015, 4, 886-898.	4.8	74
23	Slug/SNAI2 regulates cell proliferation and invasiveness of metastatic prostate cancer cell lines. Tumor Biology, 2010, 31, 297-307.	1.8	73
24	The Transforming Acidic Coiled Coil 3 Protein Is Essential for Spindle-dependent Chromosome Alignment and Mitotic Survival. Journal of Biological Chemistry, 2007, 282, 29273-29283.	3.4	72
25	Arsenic trioxide triggers a regulated form of caspase-independent necrotic cell death via the mitochondrial death pathway. Oncogene, 2005, 24, 1904-1913.	5.9	69
26	Translational approaches targeting the p53 pathway for antiâ€cancer therapy. British Journal of Pharmacology, 2012, 165, 328-344.	5.4	68
27	The BH3-only member Noxa causes apoptosis in melanoma cells by multiple pathways. Oncogene, 2008, 27, 4557-4568.	5.9	56
28	Differential regulation of the proapoptotic multidomain protein Bak by p53 and p73 at the promoter level. Cell Death and Differentiation, 2011, 18, 1130-1139.	11.2	55
29	Î±-Fucosidase as a novel convenient biomarker for cellular senescence. Cell Cycle, 2013, 12, 1922-1927.	2.6	55
30	Cellular senescence or EGFR signaling induces Interleukin 6 (IL-6) receptor expression controlled by mammalian target of rapamycin (mTOR). Cell Cycle, 2013, 12, 3421-3432.	2.6	55
31	Deubiquitinase USP9x Confers Radioresistance through Stabilization of Mcl-1. Neoplasia, 2012, 14, 893-IN4.	5.3	53
32	Irradiation-induced Translocation of p53 to Mitochondria in the Absence of Apoptosis. Journal of Biological Chemistry, 2005, 280, 37169-37177.	3.4	47
33	The centrosomal protein TACC3 controls paclitaxel sensitivity by modulating a premature senescence program. Oncogene, 2010, 29, 6184-6192.	5.9	47
34	Enhanced killing of therapyâ€induced senescent tumor cells by oncolytic measles vaccine viruses. International Journal of Cancer, 2014, 134, 235-243.	5.1	47
35	Bax/Bak-independent mitochondrial depolarization and reactive oxygen species induction by sorafenib overcome resistance to apoptosis in renal cell carcinoma. Journal of Biological Chemistry, 2017, 292, 6478-6492.	3.4	46
36	Cell death, caspase activation, and HMGB1 release of porcine choroid plexus epithelial cells during Streptococcus suis infection in vitro. Brain Research, 2006, 1100, 1-12.	2.2	45

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37	Mcl-1 determines the Bax dependency of Nbk/Bik-induced apoptosis. Journal of Cell Biology, 2007, 179, 701-715.	5.2	43
38	Functional characterization of p53Î² and p53Î³, two isoforms of the tumor suppressor p53. Cell Cycle, 2009, 8, 1238-1248.	2.6	42
39	Bok is a genuine multi-BH-domain protein that triggers apoptosis in the absence of Bax and Bak and augments drug response. Journal of Cell Science, 2016, 129, 2213-23.	2.0	42
40	EVI-1 modulates leukemogenic potential and apoptosis sensitivity in human acute lymphoblastic leukemia. Leukemia, 2013, 27, 56-65.	7.2	41
41	IÎºBÎ¶ is a regulator for the senescence-associated secretory phenotype in DNA damage- and oncogene-induced senescence. Journal of Cell Science, 2013, 126, 3738-45.	2.0	40
42	LORD-Q: a long-run real-time PCR-based DNA-damage quantification method for nuclear and mitochondrial genome analysis. Nucleic Acids Research, 2014, 42, e41-e41.	14.5	40
43	The Proteasome Is Required for Rapid Initiation of Death Receptor-Induced Apoptosis. Molecular and Cellular Biology, 2006, 26, 1967-1978.	2.3	37
44	GDP dissociation inhibitor D4-GDI (Rho-GDI 2), but not the homologous Rho-GDI 1, is cleaved by caspase-3 during drug-induced apoptosis. Biochemical Journal, 2000, 346, 777.	3.7	36
45	The Atypical Inhibitor of NF-ÎºB, IÎºBÎ¶, Controls Macrophage Interleukin-10 Expression. Journal of Biological Chemistry, 2016, 291, 12851-12861.	3.4	36
46	TACC3 depletion sensitizes to paclitaxel-induced cell death and overrides p21WAF-mediated cell cycle arrest. Oncogene, 2008, 27, 116-125.	5.9	35
47	Tumor necrosis factor Î± sensitizes malignant cells to chemotherapeutic drugs via the mitochondrial apoptosis pathway independently of caspase-8 and NF-ÎºB. Oncogene, 2004, 23, 6743-6759.	5.9	30
48	Induction of indoleamine 2, 3-dioxygenase by death receptor activation contributes to apoptosis of melanoma cells via mitochondrial damage-dependent ROS accumulation. Cellular Signalling, 2010, 22, 197-211.	3.6	29
49	Activation of the mitochondrial death pathway is commonly mediated by a preferential engagement of Bak. Oncogene, 2008, 27, 1387-1396.	5.9	28
50	The centrosome and mitotic spindle apparatus in cancer and senescence. Cell Cycle, 2010, 9, 4469-4473.	2.6	24
51	Adaptation of topoisomerase I paralogs to nuclear and mitochondrial DNA. Nucleic Acids Research, 2009, 37, 6414-6428.	14.5	23
52	Identification of the kinesin KifC3 as a new player for positioning of peroxisomes and other organelles in mammalian cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 3013-3024.	4.1	23
53	Interrogating Substrate Selectivity and Composition of Endogenous Histone Deacetylase Complexes with Chemical Probes. Angewandte Chemie - International Edition, 2016, 55, 1192-1195.	13.8	23
54	The do's and don'ts of p53 isoforms. Biological Chemistry, 2009, 390, 951-963.	2.5	21

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55	The BCL-2 selective inhibitor ABT-199 sensitizes soft tissue sarcomas to proteasome inhibition by a concerted mechanism requiring BAX and NOXA. Cell Death and Disease, 2020, 11, 701.	6.3	21
56	TNF Induces Choroid Plexus Epithelial Cell Barrier Alterations by Apoptotic and Nonapoptotic Mechanisms. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-10.	3.0	20
57	Kinetic Tracking of Therapy-Induced Senescence Using the Real-Time Cell Analyzer Single Plate System. Assay and Drug Development Technologies, 2012, 10, 289-295.	1.2	15
58	A new quinolinone and its natural/artificial derivatives from a shark gill-derived fungus Penicillium polonicum AP2T1. Natural Product Research, 2017, 31, 985-989.	1.8	13
59	Contribution of BH3-domain and Transmembrane-domain to the Activity and Interaction of the Pore-forming Bcl-2 Proteins Bok, Bak, and Bax. Scientific Reports, 2018, 8, 12434.	3.3	12
60	Simultaneous quantification of DNA damage and mitochondrial copy number by long-run DNA-damage quantification (LORD-Q). Oncotarget, 2017, 8, 112417-112425.	1.8	12
61	The BCL-2 inhibitor ABT-199/venetoclax synergizes with proteasome inhibition via transactivation of the MCL-1 antagonist NOXA. Cell Death Discovery, 2022, 8, 215.	4.7	11
62	BH3-only protein expression determines hepatocellular carcinoma response to sorafenib-based treatment. Cell Death and Disease, 2021, 12, 736.	6.3	10
63	Genome surveillance in pluripotent stem cells: Low apoptosis threshold and efficient antioxidant defense. Molecular and Cellular Oncology, 2016, 3, e1052183.	0.7	8
64	Threonine Phosphorylation of IÎºBÎ¶ Mediates Inhibition of Selective Proinflammatory TargetÂGenes. Journal of Investigative Dermatology, 2020, 140, 1805-1814.e6.	0.7	4
65	A rapid nonradioactive peptide phosphorylation assay. Journal of Experimental Therapeutics and Oncology, 2003, 3, 59-61.	0.5	3
66	Identification of novel agonists by high-throughput screening and molecular modelling of human constitutive androstane receptor isoform 3. Archives of Toxicology, 2019, 93, 2247-2264.	4.2	3
67	Alectinib treatment improves photodynamic therapy in cancer cell lines of different origin. BMC Cancer, 2021, 21, 971.	2.6	1
68	EVI-1 Mediates Apoptosis Resistance Via CD261 Induction and Enhances Leukemogenic Potential in Human Acute Lymphoblastic Leukemia. Blood, 2011, 118, 1356-1356.	1.4	0
69	Abstract 701: Mitochondrial mass is a critical determinant ofcisPt-induced cell death in ovarian cancer. , 2019, , .		0
70	Abstract 4320: Ovarian cancer persister cells are characterized by enhanced ER stress gene expression correlating with poor survival. , 2020, , .		0
71	Abstract 6227: ABT-199 and Bortezomib synergistically induce apoptosis in soft-tissue sarcomas. , 2020, , .		0
72	Abstract 653: Ovarian cancer persister cells: 2D and 3D in-depth characterization and analysis. , 2019, , .		0