

Jochen H M Prehn

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8846693/publications.pdf>

Version: 2024-02-01

332
papers

21,814
citations

12303

69
h-index

12558

132
g-index

342
all docs

342
docs citations

342
times ranked

30553
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	5.0	4,036
2	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , 2015, 22, 58-73.	5.0	811
3	ANG mutations segregate with familial and 'sporadic' amyotrophic lateral sclerosis. <i>Nature Genetics</i> , 2006, 38, 411-413.	9.4	617
4	Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. <i>Cell Death and Differentiation</i> , 2009, 16, 1093-1107.	5.0	599
5	S100B in brain damage and neurodegeneration. <i>Microscopy Research and Technique</i> , 2003, 60, 614-632.	1.2	506
6	Fusobacterium nucleatum associates with stages of colorectal neoplasia development, colorectal cancer and disease outcome. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2014, 33, 1381-1390.	1.3	397
7	Gene expression during ER stress-induced apoptosis in neurons. <i>Journal of Cell Biology</i> , 2003, 162, 587-597.	2.3	343
8	Single-cell Fluorescence Resonance Energy Transfer Analysis Demonstrates That Caspase Activation during Apoptosis Is a Rapid Process. <i>Journal of Biological Chemistry</i> , 2002, 277, 24506-24514.	1.6	276
9	Activation of Calpain I Converts Excitotoxic Neuron Death into a Caspase-independent Cell Death. <i>Journal of Biological Chemistry</i> , 2000, 275, 17064-17071.	1.6	245
10	Transforming Growth Factor- β 1 Prevents Glutamate Neurotoxicity in Rat Neocortical Cultures and Protects Mouse Neocortex from Ischemic Injury in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1993, 13, 521-525.	2.4	230
11	Delayed Mitochondrial Dysfunction in Excitotoxic Neuron Death: Cytochrome <i>c</i> Release and a Secondary Increase in Superoxide Production. <i>Journal of Neuroscience</i> , 2000, 20, 5715-5723.	1.7	219
12	Regulation of neuronal Bcl2 protein expression and calcium homeostasis by transforming growth factor type beta confers wide-ranging protection on rat hippocampal neurons.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 12599-12603.	3.3	209
13	Systems analysis of effector caspase activation and its control by X-linked inhibitor of apoptosis protein. <i>EMBO Journal</i> , 2006, 25, 4338-4349.	3.5	203
14	MicroRNAs in epilepsy: pathophysiology and clinical utility. <i>Lancet Neurology</i> , The, 2016, 15, 1368-1376.	4.9	200
15	Mitochondrial Depolarization Is Not Required for Neuronal Apoptosis. <i>Journal of Neuroscience</i> , 1999, 19, 7394-7404.	1.7	189
16	TGF- β 1 Protects Hippocampal Neurons Against Degeneration Caused by Transient Global Ischemia. <i>Stroke</i> , 1996, 27, 1609-1615.	1.0	182
17	p53 Expression Induces Apoptosis in Hippocampal Pyramidal Neuron Cultures. <i>Journal of Neuroscience</i> , 1997, 17, 1397-1405.	1.7	163
18	Staurosporine-Induced Apoptosis of Cultured Rat Hippocampal Neurons Involves Caspase-1-Like Proteases as Upstream Initiators and Increased Production of Superoxide as a Main Downstream Effector. <i>Journal of Neuroscience</i> , 1998, 18, 8186-8197.	1.7	160

#	ARTICLE	IF	CITATIONS
19	Apoptosis-Inducing Factor (AIF) in Physiology and Disease: The Tale of a Repented Natural Born Killer. <i>EBioMedicine</i> , 2018, 30, 29-37.	2.7	155
20	Control of Motoneuron Survival by Angiogenin. <i>Journal of Neuroscience</i> , 2008, 28, 14056-14061.	1.7	154
21	Regulation of Glucose Transporter 3 Surface Expression by the AMP-Activated Protein Kinase Mediates Tolerance to Glutamate Excitation in Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 2997-3008.	1.7	153
22	Versatile Conjugated Polymer Nanoparticles for High-Resolution O_2 Imaging in Cells and 3D Tissue Models. <i>ACS Nano</i> , 2015, 9, 5275-5288.	7.3	147
23	Real-time single cell analysis of Smac/DIABLO release during apoptosis. <i>Journal of Cell Biology</i> , 2003, 162, 1031-1043.	2.3	143
24	AMP kinase-mediated activation of the BH3-only protein Bim couples energy depletion to stress-induced apoptosis. <i>Journal of Cell Biology</i> , 2010, 189, 83-94.	2.3	142
25	Nerve growth factor survival signaling in cultured hippocampal neurons is mediated through TrkA and requires the common neurotrophin receptor P75. <i>Neuroscience</i> , 2002, 115, 1089-1108.	1.1	140
26	NMDA-induced superoxide production and neurotoxicity in cultured rat hippocampal neurons: role of mitochondria. <i>European Journal of Neuroscience</i> , 1998, 10, 1903-1910.	1.2	138
27	Reactive Oxygen Species and p38 Mitogen-Activated Protein Kinase Activate Bax to Induce Mitochondrial Cytochrome c Release and Apoptosis in Response to Malonate. <i>Molecular Pharmacology</i> , 2007, 71, 736-743.	1.0	130
28	Activation of Nuclear Factor κ B and bcl-x Survival Gene Expression by Nerve Growth Factor Requires Tyrosine Phosphorylation of $\text{I}\kappa\text{B}\alpha$. <i>Journal of Cell Biology</i> , 2001, 152, 753-764.	2.3	129
29	MicroRNAs 10a and 10b are potent inducers of neuroblastoma cell differentiation through targeting of nuclear receptor corepressor 2. <i>Cell Death and Differentiation</i> , 2011, 18, 1089-1098.	5.0	129
30	Dynamics of outer mitochondrial membrane permeabilization during apoptosis. <i>Cell Death and Differentiation</i> , 2009, 16, 613-623.	5.0	125
31	Central roles of apoptotic proteins in mitochondrial function. <i>Oncogene</i> , 2013, 32, 2703-2711.	2.6	124
32	Deletion of the BH3-only protein <i>puma</i> protects motoneurons from ER stress-induced apoptosis and delays motoneuron loss in ALS mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20606-20611.	3.3	122
33	6-Hydroxydopamine activates the mitochondrial apoptosis pathway through p38 MAPK-mediated, p53-independent activation of Bax and PUMA. <i>Journal of Neurochemistry</i> , 2008, 104, 1599-1612.	2.1	121
34	Modulation of Gene Expression and Cytoskeletal Dynamics by the Amyloid Precursor Protein Intracellular Domain (AICD). <i>Molecular Biology of the Cell</i> , 2007, 18, 201-210.	0.9	120
35	Proteasome inhibition can induce an autophagy-dependent apical activation of caspase-8. <i>Cell Death and Differentiation</i> , 2011, 18, 1584-1597.	5.0	120
36	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2018, 25, 542-572.	5.0	120

#	ARTICLE	IF	CITATIONS
37	Ca ²⁺ and Reactive Oxygen Species in Staurosporine-Induced Neuronal Apoptosis. <i>Journal of Neurochemistry</i> , 2002, 68, 1679-1685.	2.1	117
38	Vascular Endothelial Growth Factor Protects Cultured Rat Hippocampal Neurons against Hypoxic Injury via an Antiexcitotoxic, Caspase-Independent Mechanism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 1170-1175.	2.4	113
39	TGF- β 1 activates two distinct type I receptors in neurons. <i>Journal of Cell Biology</i> , 2005, 168, 1077-1086.	2.3	113
40	Paracrine control of tissue regeneration and cell proliferation by Caspase-3. <i>Cell Death and Disease</i> , 2013, 4, e725-e725.	2.7	109
41	Active secretion of S100B from astrocytes during metabolic stress. <i>Neuroscience</i> , 2006, 141, 1697-1701.	1.1	106
42	Mitochondrial and Plasma Membrane Potential of Cultured Cerebellar Neurons during Glutamate-Induced Necrosis, Apoptosis, and Tolerance. <i>Journal of Neuroscience</i> , 2007, 27, 8238-8249.	1.7	106
43	Isoform-Specific Effects of Transforming Growth Factors- β on Degeneration of Primary Neuronal Cultures Induced by Cytotoxic Hypoxia or Glutamate. <i>Journal of Neurochemistry</i> , 1993, 60, 1665-1672.	2.1	103
44	Outer mitochondrial membrane permeabilization during apoptosis triggers caspase-independent mitochondrial and caspase-dependent plasma membrane potential depolarization: a single-cell analysis. <i>Journal of Cell Science</i> , 2003, 116, 525-536.	1.2	102
45	Control of mitochondrial physiology and cell death by the Bcl-2 family proteins Bax and Bok. <i>Neurochemistry International</i> , 2017, 109, 162-170.	1.9	102
46	Imaging of single cell responses to ER stress indicates that the relative dynamics of IRE1/XBP1 and PERK/ATF4 signalling rather than a switch between signalling branches determine cell survival. <i>Cell Death and Differentiation</i> , 2015, 22, 1502-1516.	5.0	100
47	Angiogenin protects motoneurons against hypoxic injury. <i>Cell Death and Differentiation</i> , 2009, 16, 1238-1247.	5.0	98
48	Control mitochondrial de la muerte neuronal y su papel en las enfermedades neurodegenerativas. <i>Journal of Physiology and Biochemistry</i> , 2003, 59, 129-141.	1.3	97
49	Inhibition of multidrug resistance protein 1 (MRP1) improves chemotherapy drug response in primary and recurrent glioblastoma multiforme. <i>Frontiers in Neuroscience</i> , 2015, 9, 218.	1.4	96
50	Single-cell quantification of Bax activation and mathematical modelling suggest pore formation on minimal mitochondrial Bax accumulation. <i>Cell Death and Differentiation</i> , 2010, 17, 278-290.	5.0	95
51	CHOP regulates the p53-MDM2 axis and is required for neuronal survival after seizures. <i>Brain</i> , 2013, 136, 577-592.	3.7	95
52	Systems Analysis of BCL2 Protein Family Interactions Establishes a Model to Predict Responses to Chemotherapy. <i>Cancer Research</i> , 2013, 73, 519-528.	0.4	94
53	Dissipation of Potassium and Proton Gradients Inhibits Mitochondrial Hyperpolarization and Cytochrome c Release during Neural Apoptosis. <i>Journal of Neuroscience</i> , 2001, 21, 4551-4563.	1.7	93
54	Cerebrospinal fluid microRNAs are potential biomarkers of temporal lobe epilepsy and status epilepticus. <i>Scientific Reports</i> , 2017, 7, 3328.	1.6	93

#	ARTICLE	IF	CITATIONS
55	Apoptosis induced by proteasome inhibition in cancer cells: predominant role of the p53/PUMA pathway. <i>Oncogene</i> , 2007, 26, 1681-1692.	2.6	91
56	The DAP kinase family of pro-apoptotic proteins: novel players in the apoptotic game. <i>BioEssays</i> , 2001, 23, 352-358.	1.2	89
57	Effects of serotonergic drugs in experimental brain ischemia: evidence for a protective role of serotonin in cerebral ischemia. <i>Brain Research</i> , 1993, 630, 10-20.	1.1	88
58	Dual-center, dual-platform microRNA profiling identifies potential plasma biomarkers of adult temporal lobe epilepsy. <i>EBioMedicine</i> , 2018, 38, 127-141.	2.7	88
59	Platelet-activating factor antagonists reduce excitotoxic damage in cultured neurons from embryonic chick telencephalon and protect the rat hippocampus and neocortex from ischemic injury in vivo. <i>Journal of Neuroscience Research</i> , 1993, 34, 179-188.	1.3	84
60	ER stress signaling has an activating transcription factor 6 (ATF6)-dependent "off-switch". <i>Journal of Biological Chemistry</i> , 2018, 293, 18270-18284.	1.6	84
61	Motoneurons Secrete Angiogenin to Induce RNA Cleavage in Astroglia. <i>Journal of Neuroscience</i> , 2012, 32, 5024-5038.	1.7	81
62	Xanthohumol-induced transient superoxide anion radical formation triggers cancer cells into apoptosis via a mitochondria-mediated mechanism. <i>FASEB Journal</i> , 2010, 24, 2938-2950.	0.2	78
63	Hypothesis review: are clathrin-mediated endocytosis and clathrin-dependent membrane and protein trafficking core pathophysiological processes in schizophrenia and bipolar disorder?. <i>Molecular Psychiatry</i> , 2012, 17, 669-681.	4.1	78
64	Neuroprotective properties of 5-HT1A receptor agonists in rodent models of focal and global cerebral ischemia. <i>European Journal of Pharmacology</i> , 1991, 203, 213-222.	1.7	77
65	S100B potentially activates p65/c-Rel transcriptional complexes in hippocampal neurons: Clinical implications for the role of S100B in excitotoxic brain injury. <i>Neuroscience</i> , 2004, 127, 913-920.	1.1	76
66	Apoptosis signaling proteins as prognostic biomarkers in colorectal cancer: A review. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2009, 1795, 117-129.	3.3	76
67	Low levels of Caspase-3 predict favourable response to 5FU-based chemotherapy in advanced colorectal cancer: Caspase-3 inhibition as a therapeutic approach. <i>Cell Death and Disease</i> , 2016, 7, e2087-e2087.	2.7	76
68	Endoplasmic Reticulum Stress and Apoptosis Signaling in Human Temporal Lobe Epilepsy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006, 65, 217-225.	0.9	72
69	Elevated serum angiogenin levels in ALS. <i>Neurology</i> , 2006, 67, 1833-1836.	1.5	71
70	Real Time Single Cell Analysis of Bid Cleavage and Bid Translocation during Caspase-dependent and Neuronal Caspase-independent Apoptosis. <i>Journal of Biological Chemistry</i> , 2006, 281, 5837-5844.	1.6	71
71	Calpains Are Downstream Effectors of Ca^{2+} -Dependent Excitotoxic Apoptosis. <i>Journal of Neuroscience</i> , 2012, 32, 1847-1858.	1.7	71
72	Anti-apoptotic BCL-2 family proteins in acute neural injury. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 281.	1.8	71

#	ARTICLE	IF	CITATIONS
73	Elevation of plasma tRNA fragments precedes seizures in human epilepsy. <i>Journal of Clinical Investigation</i> , 2019, 129, 2946-2951.	3.9	71
74	Novel Benzylidene-9(10H)-anthracenones as Highly Active Antimicrotubule Agents. Synthesis, Antiproliferative Activity, and Inhibition of Tubulin Polymerization. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 3382-3394.	2.9	70
75	Role of 5â€²-Adenosine Monophosphate-Activated Protein Kinase in Cell Survival and Death Responses in Neurons. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1863-1876.	2.5	70
76	Pharmacological inhibition of Bcl-2 family members reactivates TRAIL-induced apoptosis in malignant glioma. <i>Journal of Neuro-Oncology</i> , 2008, 86, 265-272.	1.4	69
77	Hippocampal transcriptome after status epilepticus in mice rendered seizure damage-tolerant by epileptic preconditioning features suppressed calcium and neuronal excitability pathways. <i>Neurobiology of Disease</i> , 2008, 32, 442-453.	2.1	68
78	Dihydropyridone Reduces Neuronal Injury after Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1992, 12, 78-87.	2.4	67
79	p75 neurotrophin receptor is required for constitutive and NGF-induced survival signalling in PC12 cells and rat hippocampal neurones. <i>Journal of Neurochemistry</i> , 2002, 81, 594-605.	2.1	65
80	Reduced hippocampal damage and epileptic seizures after <i>status epilepticus</i> in mice lacking proapoptotic Puma. <i>FASEB Journal</i> , 2010, 24, 853-861.	0.2	65
81	Advances in immunotherapy for the treatment of glioblastoma. <i>Journal of Neuro-Oncology</i> , 2017, 131, 1-9.	1.4	65
82	Oxidation of multiple MiT/TFE transcription factors links oxidative stress to transcriptional control of autophagy and lysosome biogenesis. <i>Autophagy</i> , 2020, 16, 1683-1696.	4.3	65
83	Dlk/ZIP kinase-induced apoptosis in human medulloblastoma cells: requirement of the mitochondrial apoptosis pathway. <i>British Journal of Cancer</i> , 2001, 85, 1801-1808.	2.9	63
84	Proteins and microRNAs are differentially expressed in tear fluid from patients with Alzheimerâ€™s disease. <i>Scientific Reports</i> , 2019, 9, 15437.	1.6	63
85	Human IgG antibody profiles differentiate between symptomatic patients with and without colorectal cancer. <i>Gut</i> , 2010, 59, 69-78.	6.1	62
86	<i>In vivo</i> Contributions of BH3-Only Proteins to Neuronal Death Following Seizures, Ischemia, and Traumatic Brain Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1196-1210.	2.4	61
87	Two-step activation of FOXO3 by AMPK generates a coherent feed-forward loop determining excitotoxic cell fate. <i>Cell Death and Differentiation</i> , 2012, 19, 1677-1688.	5.0	61
88	Mitochondrial Membrane Permeabilization and Superoxide Production during Apoptosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 12645-12649.	1.6	58
89	Regulation of gene expression by the amyloid precursor protein: inhibition of the JNK/c-Jun pathway. <i>Cell Death and Differentiation</i> , 2005, 12, 1-9.	5.0	58
90	The amyloid precursor protein protects PC12 cells against endoplasmic reticulum stress-induced apoptosis. <i>Journal of Neurochemistry</i> , 2003, 87, 248-256.	2.1	57

#	ARTICLE	IF	CITATIONS
91	Glucose-starved Cells Do Not Engage in Prosurvival Autophagy. <i>Journal of Biological Chemistry</i> , 2013, 288, 30387-30398.	1.6	57
92	Real Time Analysis of Tumor Necrosis Factor-related Apoptosis-inducing Ligand/Cycloheximide-induced Caspase Activities during Apoptosis Initiation. <i>Journal of Biological Chemistry</i> , 2008, 283, 21676-21685.	1.6	56
93	Increased Expression of MicroRNA-29a in ALS Mice: Functional Analysis of Its Inhibition. <i>Journal of Molecular Neuroscience</i> , 2014, 53, 231-241.	1.1	56
94	Single-Cell Imaging of Bioenergetic Responses to Neuronal Excitotoxicity and Oxygen and Glucose Deprivation. <i>Journal of Neuroscience</i> , 2014, 34, 10192-10205.	1.7	56
95	Dominant-negative Suppression of HNF-1 α Results in Mitochondrial Dysfunction, INS-1 Cell Apoptosis, and Increased Sensitivity to Ceramide-, but Not to High Glucose-induced Cell Death. <i>Journal of Biological Chemistry</i> , 2002, 277, 6413-6421.	1.6	55
96	Copy number load predicts outcome of metastatic colorectal cancer patients receiving bevacizumab combination therapy. <i>Nature Communications</i> , 2018, 9, 4112.	5.8	55
97	Paraoxonase promoter and intronic variants modify risk of sporadic amyotrophic lateral sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2007, 78, 984-986.	0.9	54
98	Identification of polyubiquitin binding proteins involved in NF- κ B signaling using protein arrays. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1010-1016.	1.1	54
99	Meta-analysis of the molecular associations of mucinous colorectal cancer. <i>British Journal of Surgery</i> , 2019, 106, 682-691.	0.1	54
100	Multiple Kinetics of Mitochondrial Cytochrome <i>c</i> Release in Drug-Induced Apoptosis. <i>Molecular Pharmacology</i> , 2001, 60, 1008-1019.	1.0	53
101	Ca ²⁺ -induced inhibition of apoptosis in human SH-SY5Y neuroblastoma cells: degradation of apoptotic protease activating factor-1 (APAF-1). <i>Journal of Neurochemistry</i> , 2001, 78, 1256-1266.	2.1	53
102	Mucin glycoproteins block apoptosis; promote invasion, proliferation, and migration; and cause chemoresistance through diverse pathways in epithelial cancers. <i>Cancer and Metastasis Reviews</i> , 2019, 38, 237-257.	2.7	53
103	Bcl-w Protects Hippocampus during Experimental Status Epilepticus. <i>American Journal of Pathology</i> , 2007, 171, 1258-1268.	1.9	52
104	Bax Regulates Neuronal Ca ²⁺ Homeostasis. <i>Journal of Neuroscience</i> , 2015, 35, 1706-1722.	1.7	52
105	XIAP impairs Smac release from the mitochondria during apoptosis. <i>Cell Death and Disease</i> , 2010, 1, e49-e49.	2.7	51
106	Calnexin, an ER-induced protein, is a prognostic marker and potential therapeutic target in colorectal cancer. <i>Journal of Translational Medicine</i> , 2016, 14, 196.	1.8	51
107	Mitochondrial transmembrane potential and free radical production in excitotoxic neurodegeneration. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1998, 357, 316-322.	1.4	50
108	Loss of p53 results in protracted electrographic seizures and development of an aggravated epileptic phenotype following status epilepticus. <i>Cell Death and Disease</i> , 2010, 1, e79-e79.	2.7	50

#	ARTICLE	IF	CITATIONS
109	The β_2 -adrenoceptor agonist clenbuterol modulates Bcl-2, Bcl-xl and Bax protein expression following transient forebrain ischemia. <i>Neuroscience</i> , 1999, 90, 1255-1263.	1.1	49
110	Coincident enrichment of phosphorylated β -tubulin, activated IKK, and phosphorylated p65 in the axon initial segment of neurons. <i>Molecular and Cellular Neurosciences</i> , 2006, 33, 68-80.	1.0	49
111	Glucose metabolism determines resistance of cancer cells to bioenergetic crisis after cytochrome <i>c</i> release. <i>Molecular Systems Biology</i> , 2011, 7, 470.	3.2	49
112	KCa2 channels activation prevents $[Ca^{2+}]_i$ deregulation and reduces neuronal death following glutamate toxicity and cerebral ischemia. <i>Cell Death and Disease</i> , 2011, 2, e147-e147.	2.7	49
113	Preconditioning with latrepirdine, an adenosine 5'-monophosphate-activated protein kinase activator, delays amyotrophic lateral sclerosis progression in SOD1G93A mice. <i>Neurobiology of Aging</i> , 2015, 36, 1140-1150.	1.5	49
114	Imaging oxygen in neural cell and tissue models by means of anionic cell-permeable phosphorescent nanoparticles. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 367-381.	2.4	49
115	Clinical application of a systems model of apoptosis execution for the prediction of colorectal cancer therapy responses and personalisation of therapy. <i>Gut</i> , 2012, 61, 725-733.	6.1	48
116	NMDA receptor-mediated excitotoxic neuronal apoptosis <i>in vitro</i> and <i>in vivo</i> occurs in an ER stress and PUMA independent manner. <i>Journal of Neurochemistry</i> , 2008, 105, 891-903.	2.1	47
117	Bok Is Not Pro-Apoptotic But Suppresses Poly ADP-Ribose Polymerase-Dependent Cell Death Pathways and Protects against Excitotoxic and Seizure-Induced Neuronal Injury. <i>Journal of Neuroscience</i> , 2016, 36, 4564-4578.	1.7	47
118	Systems biology identifies preserved integrity but impaired metabolism of mitochondria due to a glycolytic defect in Alzheimer's disease neurons. <i>Aging Cell</i> , 2019, 18, e12924.	3.0	46
119	Microarray profile of seizure damage-refractory hippocampal CA3 in a mouse model of epileptic preconditioning. <i>Neuroscience</i> , 2007, 150, 467-477.	1.1	45
120	Upregulation of DR5 by proteasome inhibitors potently sensitizes glioma cells to TRAIL-induced apoptosis. <i>FEBS Journal</i> , 2008, 275, 1925-1936.	2.2	45
121	Opposing effects of transforming growth factor- β 1 on glutamate neurotoxicity. <i>Neuroscience</i> , 1994, 60, 7-10.	1.1	44
122	Caspase-3 Cleavage and Nuclear Localization of Caspase-Activated DNase in Human Temporal Lobe Epilepsy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 583-589.	2.4	43
123	Contrasting patterns of Bim induction and neuroprotection in Bim-deficient mice between hippocampus and neocortex after status epilepticus. <i>Cell Death and Differentiation</i> , 2010, 17, 459-468.	5.0	43
124	Activation of executioner caspases is a predictor of progression-free survival in glioblastoma patients: a systems medicine approach. <i>Cell Death and Disease</i> , 2013, 4, e629-e629.	2.7	43
125	Expanding the Substantial Interactome of NEMO Using Protein Microarrays. <i>PLoS ONE</i> , 2010, 5, e8799.	1.1	42
126	Modulation of Mcl-1 sensitizes glioblastoma to TRAIL-induced apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 629-642.	2.2	42

#	ARTICLE	IF	CITATIONS
127	High levels of X-linked Inhibitor-of-Apoptosis Protein (XIAP) are indicative of radio chemotherapy resistance in rectal cancer. <i>Radiation Oncology</i> , 2015, 10, 131.	1.2	42
128	Apelin: A putative novel predictive biomarker for bevacizumab response in colorectal cancer. <i>Oncotarget</i> , 2017, 8, 42949-42961.	0.8	42
129	Marked diversity in the action of growth factors on N-methyl-d-aspartate-induced neuronal degeneration. <i>European Journal of Pharmacology</i> , 1996, 306, 81-88.	1.7	41
130	miRNAConverter: an R/bioconductor package for translating mature miRNA names to different miRBase versions. <i>Bioinformatics</i> , 2017, 33, 592-593.	1.8	41
131	Elevated Plasma microRNA-206 Levels Predict Cognitive Decline and Progression to Dementia from Mild Cognitive Impairment. <i>Biomolecules</i> , 2019, 9, 734.	1.8	41
132	A systems approach delivers a functional microRNA catalog and expanded targets for seizure suppression in temporal lobe epilepsy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15977-15988.	3.3	41
133	Vascular Endothelial Growth Factor Protects Cultured Rat Hippocampal Neurons Against Hypoxic Injury via an Antiexcitotoxic, Caspase-Independent Mechanism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, , 1170-1175.	2.4	41
134	INS-1 Cells Undergoing Caspase-Dependent Apoptosis Enhance the Regenerative Capacity of Neighboring Cells. <i>Diabetes</i> , 2010, 59, 2799-2808.	0.3	40
135	Angiogenin induces modifications in the astrocyte secretome: Relevance to amyotrophic lateral sclerosis. <i>Journal of Proteomics</i> , 2013, 91, 274-285.	1.2	40
136	BCL-2 system analysis identifies high-risk colorectal cancer patients. <i>Gut</i> , 2017, 66, 2141-2148.	6.1	40
137	The amyloid precursor protein potentiates CHOP induction and cell death in response to ER Ca ²⁺ depletion. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 157-165.	1.9	39
138	Enhanced vulnerability of PARK6 patient skin fibroblasts to apoptosis induced by proteasomal stress. <i>Neuroscience</i> , 2010, 166, 422-434.	1.1	39
139	Angiogenin and tRNA fragments in Parkinson's disease and neurodegeneration. <i>Acta Pharmacologica Sinica</i> , 2020, 41, 442-446.	2.8	39
140	Full length Bid is sufficient to induce apoptosis of cultured rat hippocampal neurons. <i>BMC Cell Biology</i> , 2007, 8, 7.	3.0	38
141	Depletion of 14-3-3 zeta elicits endoplasmic reticulum stress and cell death, and increases vulnerability to kainate-induced injury in mouse hippocampal cultures. <i>Journal of Neurochemistry</i> , 2008, 106, 978-988.	2.1	38
142	Dynamics of Intracellular Oxygen in PC12 Cells upon Stimulation of Neurotransmission. <i>Journal of Biological Chemistry</i> , 2008, 283, 5650-5661.	1.6	38
143	AMP-activated Protein Kinase Mediates Apoptosis in Response to Bioenergetic Stress through Activation of the Pro-apoptotic Bcl-2 Homology Domain-3-only Protein BMF. <i>Journal of Biological Chemistry</i> , 2010, 285, 36199-36206.	1.6	38
144	A high fat jelly diet restores bioenergetic balance and extends lifespan in the presence of motor dysfunction and lumbar spinal cord motor neuron loss in TDP-43A315T/ C57BL/6j mice. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 1029-37.	1.2	38

#	ARTICLE	IF	CITATIONS
145	Systems modeling accurately predicts responses to genotoxic agents and their synergism with BCL-2 inhibitors in triple negative breast cancer cells. <i>Cell Death and Disease</i> , 2018, 9, 42.	2.7	38
146	Multiple screening approaches reveal HDAC6 as a novel regulator of glycolytic metabolism in triple-negative breast cancer. <i>Science Advances</i> , 2021, 7, .	4.7	38
147	BCL2 and BCL(X)L selective inhibitors decrease mitochondrial ATP production in breast cancer cells and are synthetically lethal when combined with 2-deoxy-D-glucose. <i>Oncotarget</i> , 2018, 9, 26046-26063.	0.8	38
148	Opposite effects of TGF- β 1 on rapidly- and slowly-triggered excitotoxic injury. <i>Neuropharmacology</i> , 1996, 35, 249-256.	2.0	37
149	Activation of ATP-sensitive potassium channels decreases neuronal injury caused by chemical hypoxia. <i>Brain Research</i> , 1997, 751, 295-299.	1.1	37
150	Mild mitochondrial uncoupling induced protection against neuronal excitotoxicity requires AMPK activity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 744-753.	0.5	37
151	Metabolic Targeting of Breast Cancer Cells With the 2-Deoxy-D-Glucose and the Mitochondrial Bioenergetics Inhibitor MDIV-1. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 113.	1.8	37
152	Context-Specific Switch from Anti- to Pro-epileptogenic Function of the P2Y ₁ Receptor in Experimental Epilepsy. <i>Journal of Neuroscience</i> , 2019, 39, 5377-5392.	1.7	37
153	Genome-wide microRNA profiling of plasma from three different animal models identifies biomarkers of temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2020, 144, 105048.	2.1	35
154	Up-regulation of Bcl-xL in response to subtoxic β -amyloid: role in neuronal resistance against apoptotic and oxidative injury. <i>Neuroscience</i> , 2001, 102, 139-150.	1.1	34
155	Protein Microarray Profiling of Serum Autoantibodies in Pseudoexfoliation Glaucoma. , 2010, 51, 2968.		34
156	Riluzole does not improve lifespan or motor function in three ALS mouse models. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2018, 19, 438-445.	1.1	34
157	C9orf72 associates with inactive Rag GTPases and regulates mTORC1-mediated autophagosomal and lysosomal biogenesis. <i>Aging Cell</i> , 2020, 19, e13126.	3.0	34
158	The APP intracellular domain (AICD) potentiates ER stress-induced apoptosis. <i>Neurobiology of Aging</i> , 2012, 33, 2200-2209.	1.5	33
159	Molecular Mechanisms in Amyotrophic Lateral Sclerosis: The Role of Angiogenin, a Secreted RNase. <i>Frontiers in Neuroscience</i> , 2012, 6, 167.	1.4	33
160	Proteasome Inhibition Can Impair Caspase-8 Activation upon Submaximal Stimulation of Apoptotic Tumor Necrosis Factor-related Apoptosis Inducing Ligand (TRAIL) Signaling. <i>Journal of Biological Chemistry</i> , 2012, 287, 14402-14411.	1.6	33
161	MicroRNA-224 is Readily Detectable in Urine of Individuals with Diabetes Mellitus and is a Potential Indicator of Beta-Cell Demise. <i>Genes</i> , 2015, 6, 399-416.	1.0	33
162	New hints towards a precision medicine strategy for IDH wild-type glioblastoma. <i>Annals of Oncology</i> , 2020, 31, 1679-1692.	0.6	32

#	ARTICLE	IF	CITATIONS
163	Endoplasmic reticulum stress-mediated upregulation of miR-29a enhances sensitivity to neuronal apoptosis. <i>European Journal of Neuroscience</i> , 2016, 43, 640-652.	1.2	31
164	Ceramide-induced apoptosis of D283 medulloblastoma cells requires mitochondrial respiratory chain activity but occurs independently of caspases and is not sensitive to Bcl-xL overexpression. <i>Journal of Neurochemistry</i> , 2002, 82, 482-494.	2.1	30
165	APOPTO-CELL a simulation tool and interactive database for analyzing cellular susceptibility to apoptosis. <i>Bioinformatics</i> , 2007, 23, 648-650.	1.8	30
166	The amyloid precursor protein intracellular domain (AICD) disrupts actin dynamics and mitochondrial bioenergetics. <i>Journal of Neurochemistry</i> , 2010, 113, 275-284.	2.1	30
167	From computational modelling of the intrinsic apoptosis pathway to a systems-based analysis of chemotherapy resistance: achievements, perspectives and challenges in systems medicine. <i>Cell Death and Disease</i> , 2014, 5, e1258-e1258.	2.7	30
168	The metabolic response to excitotoxicity – lessons from single-cell imaging. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 75-88.	1.0	30
169	Anti-GD2-ch14.18/CHO coated nanoparticles mediate glioblastoma (GBM)-specific delivery of the aromatase inhibitor, Letrozole, reducing proliferation, migration and chemoresistance in patient-derived GBM tumor cells. <i>Oncotarget</i> , 2017, 8, 16605-16620.	0.8	30
170	Mucinous adenocarcinoma is a pharmacogenomically distinct subtype of colorectal cancer. <i>Pharmacogenomics Journal</i> , 2020, 20, 524-532.	0.9	30
171	Intracellular signaling dynamics during apoptosis execution in the presence or absence of X-linked-inhibitor-of-apoptosis-protein. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1903-1913.	1.9	29
172	Extracellular calcium depletion transiently elevates oxygen consumption in neurosecretory PC12 cells through activation of mitochondrial Na ⁺ /Ca ²⁺ exchange. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1627-1637.	0.5	29
173	Systems Analysis of Cancer Cell Heterogeneity in Caspase-dependent Apoptosis Subsequent to Mitochondrial Outer Membrane Permeabilization. <i>Journal of Biological Chemistry</i> , 2012, 287, 41546-41559.	1.6	29
174	Neuronal Apoptosis: BH3-Only Proteins the Real Killers?. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 295-298.	1.0	28
175	Activity of protein kinase CK2 uncouples Bid cleavage from caspase-8 activation. <i>Journal of Cell Science</i> , 2010, 123, 1401-1406.	1.2	28
176	BH3-only proteins BIM and PUMA in the regulation of survival and neuronal differentiation of newly generated cells in the adult mouse hippocampus. <i>Cell Death and Disease</i> , 2010, 1, e15-e15.	2.7	28
177	Interrogation of gossypol therapy in glioblastoma implementing cell line and patient-derived tumour models. <i>British Journal of Cancer</i> , 2014, 111, 2275-2286.	2.9	28
178	Single-cell time-lapse imaging of intracellular O ₂ in response to metabolic inhibition and mitochondrial cytochrome-c release. <i>Cell Death and Disease</i> , 2017, 8, e2853-e2853.	2.7	28
179	tRNA-derived fragments: A new class of non-coding RNA with key roles in nervous system function and dysfunction. <i>Progress in Neurobiology</i> , 2021, 205, 102118.	2.8	28
180	AMP-activated protein kinase (AMPK)-induced preconditioning in primary cortical neurons involves activation of MCL-1. <i>Journal of Neurochemistry</i> , 2013, 124, 721-734.	2.1	27

#	ARTICLE	IF	CITATIONS
181	Identification of circulating microRNAs in HNF1A-MODY carriers. <i>Diabetologia</i> , 2013, 56, 1743-1751.	2.9	26
182	Bmf upregulation through the AMP-activated protein kinase pathway may protect the brain from seizure-induced cell death. <i>Cell Death and Disease</i> , 2013, 4, e606-e606.	2.7	26
183	Loss of Chromosome 18q11.2-q12.1 Is Predictive for Survival in Patients With Metastatic Colorectal Cancer Treated With Bevacizumab. <i>Journal of Clinical Oncology</i> , 2018, 36, 2052-2060.	0.8	26
184	Bid Promotes K63-Linked Polyubiquitination of Tumor Necrosis Factor Receptor Associated Factor 6 (TRAF6) and Sensitizes to Mutant SOD1-Induced Proinflammatory Signaling in Microglia. <i>ENeuro</i> , 2016, 3, ENEURO.0099-15.2016.	0.9	26
185	Deletion of puma protects hippocampal neurons in a model of severe status epilepticus. <i>Neuroscience</i> , 2010, 168, 443-450.	1.1	25
186	Serum levels of pancreatic stone protein (PSP)/reg1A as an indicator of beta-cell apoptosis suggest an increased apoptosis rate in hepatocyte nuclear factor 1 alpha (HNF1A-MODY) carriers from the third decade of life onward. <i>BMC Endocrine Disorders</i> , 2012, 12, 13.	0.9	25
187	BH3 Mimetics Reactivate Autophagic Cell Death in Anoxia-Resistant Malignant Glioma Cells. <i>Neoplasia</i> , 2008, 10, 873-885.	2.3	24
188	Bid Participates in Genotoxic Drug-Induced Apoptosis of HeLa Cells and Is Essential for Death Receptor Ligands' Apoptotic and Synergistic Effects. <i>PLoS ONE</i> , 2008, 3, e2844.	1.1	24
189	Differential expression patterns of Puma and Hsp70 following proteasomal stress in the hippocampus are key determinants of neuronal vulnerability. <i>Journal of Neurochemistry</i> , 2010, 114, 606-616.	2.1	24
190	BH3-only protein Bid is dispensable for seizure-induced neuronal death and the associated nuclear accumulation of apoptosis-inducing factor. <i>Journal of Neurochemistry</i> , 2010, 115, 92-101.	2.1	24
191	Method of calibration of a fluorescence microscope for quantitative studies. <i>Journal of Microscopy</i> , 2011, 244, 101-111.	0.8	24
192	Circulating miR-330-3p in Late Pregnancy is Associated with Pregnancy Outcomes Among Lean Women with GDM. <i>Scientific Reports</i> , 2020, 10, 908.	1.6	24
193	Protective effects of 5-HT1A receptor agonists against neuronal damage demonstrated in vivo and in vitro. <i>Journal of Neural Transmission Parkinson's Disease and Dementia Section</i> , 1994, 8, 73-83.	1.2	23
194	Mathematical modelling of the mitochondrial apoptosis pathway. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 608-615.	1.9	23
195	Fibroblast growth factor homologous factor 1 interacts with NEMO to regulate NF- κ B signaling in neurons. <i>Journal of Cell Science</i> , 2012, 125, 6058-6070.	1.2	23
196	Apoptosome-dependent caspase activation proteins as prognostic markers in Stage II and III colorectal cancer. <i>British Journal of Cancer</i> , 2012, 106, 1499-1505.	2.9	23
197	The BAX/BAK-like protein BOK is a prognostic marker in colorectal cancer. <i>Cell Death and Disease</i> , 2018, 9, 125.	2.7	23
198	Patients with mesenchymal tumours and high Fusobacteriales prevalence have worse prognosis in colorectal cancer (CRC). <i>Gut</i> , 2021, , gutjnl-2021-325193.	6.1	23

#	ARTICLE	IF	CITATIONS
199	Latrepiridine is a potent activator of AMP-activated protein kinase and reduces neuronal excitability. <i>Translational Psychiatry</i> , 2013, 3, e317-e317.	2.4	22
200	In Vivo Bioluminescence Imaging Validation of a Human Biopsy-Derived Orthotopic Mouse Model of Glioblastoma Multiforme. <i>Molecular Imaging</i> , 2013, 12, 7290.2012.00029.	0.7	22
201	Increased A20-E3 ubiquitin ligase interactions in bid-deficient glia attenuate TLR3- and TLR4-induced inflammation. <i>Journal of Neuroinflammation</i> , 2018, 15, 130.	3.1	22
202	Mucinous adenocarcinoma of the colon and rectum: A genomic analysis. <i>Journal of Surgical Oncology</i> , 2019, 120, 1427-1435.	0.8	22
203	A Stepwise Integrated Approach to Personalized Risk Predictions in Stage III Colorectal Cancer. <i>Clinical Cancer Research</i> , 2017, 23, 1200-1212.	3.2	21
204	Mixed copper(II)-phenanthroline complexes induce cell death of ovarian cancer cells by evoking the unfolded protein response. <i>Metallomics</i> , 2019, 11, 1481-1489.	1.0	21
205	Microsatellite instability and response to neoadjuvant chemoradiotherapy in rectal cancer: A systematic review and meta-analysis. <i>Surgical Oncology</i> , 2020, 34, 57-62.	0.8	21
206	Neuronal cell-based high-throughput screen for enhancers of mitochondrial function reveals luteolin as a modulator of mitochondria-endoplasmic reticulum coupling. <i>BMC Biology</i> , 2021, 19, 57.	1.7	21
207	Role of Smac in cephalostatin-induced cell death. <i>Cell Death and Differentiation</i> , 2008, 15, 1930-1940.	5.0	20
208	Diffusion is capable of translating anisotropic apoptosis initiation into a homogeneous execution of cell death. <i>BMC Systems Biology</i> , 2010, 4, 9.	3.0	20
209	Systemic delivery of antagomirs during blood-brain barrier disruption is disease-modifying in experimental epilepsy. <i>Molecular Therapy</i> , 2021, 29, 2041-2052.	3.7	20
210	Mechanisms and mathematical modeling of ROS production by the mitochondrial electron transport chain. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C69-C83.	2.1	20
211	Bcl-2 homology domain 3-only proteins Puma and Bim mediate the vulnerability of CA1 hippocampal neurons to proteasome inhibition <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2011, 33, 401-408.	1.2	19
212	The Frequencies and Clinical Implications of Mutations in 33 Kinase-Related Genes in Locally Advanced Rectal Cancer: A Pilot Study. <i>Annals of Surgical Oncology</i> , 2014, 21, 2642-2649.	0.7	19
213	Pleiotropic activity of systemically delivered angiogenin in the SOD1G93A mouse model. <i>Neuropharmacology</i> , 2018, 133, 503-511.	2.0	19
214	AMPK Preferentially Depresses Retrograde Transport of Axonal Mitochondria during Localized Nutrient Deprivation. <i>Journal of Neuroscience</i> , 2020, 40, 4798-4812.	1.7	19
215	Bid and Calpains Cooperate to Trigger Oxaliplatin-Induced Apoptosis of Cervical Carcinoma HeLa Cells. <i>Molecular Pharmacology</i> , 2009, 76, 998-1010.	1.0	18
216	Characterization of Puma-Dependent and Puma-Independent Neuronal Cell Death Pathways following Prolonged Proteasomal Inhibition. <i>Molecular and Cellular Biology</i> , 2010, 30, 5484-5501.	1.1	18

#	ARTICLE	IF	CITATIONS
217	Validation of an imageable surgical resection animal model of Glioblastoma (GBM). <i>Journal of Neuroscience Methods</i> , 2014, 233, 99-104.	1.3	18
218	Cytoplasmic Inclusions of Htt Exon1 Containing an Expanded Polyglutamine Tract Suppress Execution of Apoptosis in Sympathetic Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 14401-14415.	1.7	17
219	Bone Morphogenetic Protein 3 Controls Insulin Gene Expression and Is Down-regulated in INS-1 Cells Inducibly Expressing a Hepatocyte Nuclear Factor 1A ^Δ Maturity-onset Diabetes of the Young Mutation. <i>Journal of Biological Chemistry</i> , 2011, 286, 25719-25728.	1.6	17
220	BCL2 protein signalling determines acute responses to neoadjuvant chemoradiotherapy in rectal cancer. <i>Journal of Molecular Medicine</i> , 2015, 93, 315-326.	1.7	17
221	TRAIL signaling promotes entosis in colorectal cancer. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	17
222	The death associated protein (DAP) kinase homologue Dlk/ZIP kinase induces p19ARF- and p53-independent apoptosis. <i>European Journal of Cancer</i> , 2003, 39, 249-256.	1.3	16
223	Activation of p53 and the pro-apoptotic p53 target gene PUMA during depolarization-induced apoptosis of chromaffin cells. <i>Experimental Neurology</i> , 2005, 196, 96-103.	2.0	16
224	Downregulation of protein kinase B/Akt-1 mediates INS-1 insulinoma cell apoptosis induced by dominant-negative suppression of hepatocyte nuclear factor-1alpha function. <i>Diabetologia</i> , 2006, 49, 519-526.	2.9	16
225	9-Benzylidene-naphtho[2,3-b]thiophen-4-ones and benzylidene-9(10H)-anthracenones as novel tubulin interacting agents with high apoptosis-inducing activity. <i>European Journal of Pharmacology</i> , 2007, 575, 34-45.	1.7	16
226	Effects of transient focal cerebral ischemia in mice deficient in puma. <i>Neuroscience Letters</i> , 2009, 451, 237-240.	1.0	16
227	Hsp27 binding to the 3'UTR of <i>bim</i> mRNA prevents neuronal death during oxidative stress-induced injury: a novel cytoprotective mechanism. <i>Molecular Biology of the Cell</i> , 2014, 25, 3413-3423.	0.9	16
228	Patient-derived glioblastoma cells show significant heterogeneity in treatment responses to the inhibitor-of-apoptosis-protein antagonist birinapant. <i>British Journal of Cancer</i> , 2016, 114, 188-198.	2.9	16
229	The Anti-inflammatory Compound Candesartan Cilexetil Improves Neurological Outcomes in a Mouse Model of Neonatal Hypoxia. <i>Frontiers in Immunology</i> , 2019, 10, 1752.	2.2	16
230	5' ValCAC tRNA fragment generated as part of a protective angiogenin response provides prognostic value in amyotrophic lateral sclerosis. <i>Brain Communications</i> , 2020, 2, fcaa138.	1.5	16
231	Are NMDA or AMPA/kainate receptor antagonists more efficacious in the delayed treatment of excitotoxic neuronal injury?. <i>European Journal of Pharmacology - Environmental Toxicology and Pharmacology Section</i> , 1995, 292, 179-189.	0.8	15
232	Charge Profile Analysis Reveals That Activation of Pro-apoptotic Regulators Bax and Bak Relies on Charge Transfer Mediated Allosteric Regulation. <i>PLoS Computational Biology</i> , 2012, 8, e1002565.	1.5	15
233	Molecular imaging in the development of a novel treatment paradigm for glioblastoma (GBM): an integrated multidisciplinary commentary. <i>Drug Discovery Today</i> , 2013, 18, 1052-1066.	3.2	15
234	BID Mediates Oxygen-Glucose Deprivation-Induced Neuronal Injury in Organotypic Hippocampal Slice Cultures and Modulates Tissue Inflammation in a Transient Focal Cerebral Ischemia Model without Changing Lesion Volume. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 14.	1.8	15

#	ARTICLE	IF	CITATIONS
235	AT-101 simultaneously triggers apoptosis and a cytoprotective type of autophagy irrespective of expression levels and the subcellular localization of Bcl-xL and Bcl-2 in MCF7 cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 499-509.	1.9	15
236	A Context-Dependent Role for MiR-124-3p on Cell Phenotype, Viability and Chemosensitivity in Neuroblastoma in vitro. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 559553.	1.8	15
237	Molecular subtype-specific responses of colon cancer cells to the SMAC mimetic Birinapant. <i>Cell Death and Disease</i> , 2020, 11, 1020.	2.7	15
238	BCL(X)L and BCL2 increase the metabolic fitness of breast cancer cells: a single-cell imaging study. <i>Cell Death and Differentiation</i> , 2021, 28, 1512-1531.	5.0	15
239	An atlas of inter- and intra-tumor heterogeneity of apoptosis competency in colorectal cancer tissue at single-cell resolution. <i>Cell Death and Differentiation</i> , 2022, 29, 806-817.	5.0	15
240	NMDA-induced injury of mouse organotypic hippocampal slice cultures triggers delayed neuroblast proliferation in the dentate gyrus: An in vitro model for the study of neural precursor cell proliferation. <i>Brain Research</i> , 2010, 1359, 22-32.	1.1	14
241	Acidotoxicity and acid-sensing ion channels contribute to motoneuron degeneration. <i>Cell Death and Differentiation</i> , 2013, 20, 589-598.	5.0	14
242	Evaluation of an aldo-keto reductase gene signature with prognostic significance in colon cancer via activation of epithelial to mesenchymal transition and the p70S6K pathway. <i>Carcinogenesis</i> , 2020, 41, 1219-1228.	1.3	14
243	In vivo bioluminescence imaging validation of a human biopsy-derived orthotopic mouse model of glioblastoma multiforme. <i>Molecular Imaging</i> , 2013, 12, 161-72.	0.7	14
244	Induction of transcription factor CEBP homology protein mediates hypoglycaemia-induced necrotic cell death in human neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2006, 99, 952-964.	2.1	13
245	Systems modelling methodology for the analysis of apoptosis signal transduction and cell death decisions. <i>Methods</i> , 2013, 61, 165-173.	1.9	13
246	The BCL-2 family protein Bid is critical for pro-inflammatory signaling in astrocytes. <i>Neurobiology of Disease</i> , 2014, 70, 99-107.	2.1	13
247	Mechanistic interrogation of combination bevacizumab/dual PI3K/mTOR inhibitor response in glioblastoma implementing novel MR and PET imaging biomarkers. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 1673-1683.	3.3	13
248	Genomic and Transcriptomic Characterisation of Response to Neoadjuvant Chemoradiotherapy in Locally Advanced Rectal Cancer. <i>Cancers</i> , 2020, 12, 1808.	1.7	13
249	Computational Analysis of AMPK-Mediated Neuroprotection Suggests Acute Excitotoxic Bioenergetics and Glucose Dynamics Are Regulated by a Minimal Set of Critical Reactions. <i>PLoS ONE</i> , 2016, 11, e0148326.	1.1	13
250	A reverse-ELISA for the detection of TRIM28/KAP1 serum autoantibodies in colorectal cancer patients. <i>Acta Oncologica</i> , 2012, 51, 394-396.	0.8	12
251	Analysis of BH3-only proteins upregulated in response to oxygen/glucose deprivation in cortical neurons identifies Bmf but not Noxa as potential mediator of neuronal injury. <i>Cell Death and Disease</i> , 2014, 5, e1456-e1456.	2.7	12
252	Targeting the 19S proteasomal subunit, Rpt4, for the treatment of colon cancer. <i>European Journal of Pharmacology</i> , 2016, 780, 53-64.	1.7	12

#	ARTICLE	IF	CITATIONS
253	Colorectal tumour simulation using agent based modelling and high performance computing. <i>Future Generation Computer Systems</i> , 2017, 67, 397-408.	4.9	12
254	Simulating and predicting cellular and in vivo responses of colon cancer to combined treatment with chemotherapy and IAP antagonist Birinapant/TL32711. <i>Cell Death and Differentiation</i> , 2018, 25, 1952-1966.	5.0	12
255	Vascular regression precedes motor neuron loss in the FUS (1-359) ALS mouse model. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	1.2	12
256	Quantification of tRNA fragments by electrochemical direct detection in small volume biofluid samples. <i>Scientific Reports</i> , 2020, 10, 7516.	1.6	12
257	Resistance to Cell Death in Mucinous Colorectal Cancer – A Review. <i>Cancers</i> , 2021, 13, 1389.	1.7	12
258	Assessment of concordance between fresh-frozen and formalin-fixed paraffin embedded tumor DNA methylation using a targeted sequencing approach. <i>Oncotarget</i> , 2017, 8, 48126-48137.	0.8	12
259	Early loss of mammalian target of rapamycin complex 1 (mTORC1) signalling and reduction in cell size during dominant-negative suppression of hepatic nuclear factor 1- β (HNF1A) function in INS-1 insulinoma cells. <i>Diabetologia</i> , 2009, 52, 136-144.	2.9	11
260	Harnessing system models of cell death signalling for cytotoxic chemotherapy: towards personalised medicine approaches?. <i>Journal of Molecular Medicine</i> , 2014, 92, 227-237.	1.7	11
261	Defining external factors that determine neuronal survival, apoptosis and necrosis during excitotoxic injury using a high content screening imaging platform. <i>PLoS ONE</i> , 2017, 12, e0188343.	1.1	11
262	Loss of angiogenin function is related to earlier ALS onset and a paradoxical increase in ALS duration. <i>Scientific Reports</i> , 2020, 10, 3715.	1.6	11
263	Outcome of Colorectal Cancer Patients Treated with Combination Bevacizumab Therapy: A Pooled Retrospective Analysis of Three European Cohorts from the Angiopredict Initiative. <i>Digestion</i> , 2016, 94, 129-137.	1.2	10
264	Electrical stimulation of the ventral hippocampal commissure delays experimental epilepsy and is associated with altered microRNA expression. <i>Brain Stimulation</i> , 2019, 12, 1390-1401.	0.7	10
265	Implementing Patient-Derived Xenografts to Assess the Effectiveness of Cyclin-Dependent Kinase Inhibitors in Glioblastoma. <i>Cancers</i> , 2019, 11, 2005.	1.7	10
266	ALISSA: an automated live-cell imaging system for signal transduction analyses. <i>BioTechniques</i> , 2009, 47, 1033-1040.	0.8	9
267	Effects of hepatocyte nuclear factor-1A and -4A on pancreatic stone protein/regenerating protein and C-reactive protein gene expression: implications for maturity-onset diabetes of the young. <i>Journal of Translational Medicine</i> , 2013, 11, 156.	1.8	9
268	Effect of the N-methyl-D-aspartate NR2B subunit antagonist ifenprodil on precursor cell proliferation in the hippocampus. <i>Journal of Neuroscience Research</i> , 2014, 92, 679-691.	1.3	9
269	Low cleaved caspase-7 levels indicate unfavourable outcome across all breast cancers. <i>Journal of Molecular Medicine</i> , 2018, 96, 1025-1037.	1.7	9
270	Heterogeneous responses to low level death receptor activation are explained by random molecular assembly of the Caspase-8 activation platform. <i>PLoS Computational Biology</i> , 2019, 15, e1007374.	1.5	9

#	ARTICLE	IF	CITATIONS
271	System-based approaches as prognostic tools for glioblastoma. <i>BMC Cancer</i> , 2019, 19, 1092.	1.1	9
272	The apoptosome molecular timer synergises with XIAP to suppress apoptosis execution and contributes to prognosticating survival in colorectal cancer. <i>Cell Death and Differentiation</i> , 2020, 27, 2828-2842.	5.0	9
273	The spleen as a sanctuary site for residual leukemic cells following ABT-199 monotherapy in ETP-ALL. <i>Blood Advances</i> , 2021, 5, 1963-1976.	2.5	9
274	TOXI-SIM – A simulation tool for the analysis of mitochondrial and plasma membrane potentials. <i>Journal of Neuroscience Methods</i> , 2009, 176, 270-275.	1.3	8
275	Unsupervised mitochondria segmentation using recursive spectral clustering and adaptive similarity models. <i>Journal of Structural Biology</i> , 2013, 184, 401-408.	1.3	8
276	Implementing Systems Modelling and Molecular Imaging to Predict the Efficacy of BCL-2 Inhibition in Colorectal Cancer Patient-Derived Xenograft Models. <i>Cancers</i> , 2020, 12, 2978.	1.7	8
277	Mucinous Adenocarcinoma of the Rectum: A Whole Genome Sequencing Study. <i>Frontiers in Oncology</i> , 2020, 10, 1682.	1.3	8
278	Modelling α -Synuclein Aggregation and Neurodegeneration with Fibril Seeds in Primary Cultures of Mouse Dopaminergic Neurons. <i>Cells</i> , 2022, 11, 1640.	1.8	8
279	The indirect activation model of mitochondrial outer membrane permeabilisation (MOMP) initiation requires a trade-off between robustness in the absence of and sensitivity in the presence of stress. <i>Molecular BioSystems</i> , 2013, 9, 2359.	2.9	7
280	NF- κ B regulates neuronal ankyrin-G via a negative feedback loop. <i>Scientific Reports</i> , 2017, 7, 42006.	1.6	7
281	Mucinous and non-mucinous colorectal cancers show differential expression of chemotherapy metabolism and resistance genes. <i>Pharmacogenomics Journal</i> , 2021, 21, 510-519.	0.9	6
282	tsRNAsearch: a pipeline for the identification of tRNA and ncRNA fragments from small RNA-sequencing data. <i>Bioinformatics</i> , 2021, 37, 4424-4430.	1.8	6
283	BCL(X)L and BCL2 increase mitochondrial dynamics in breast cancer cell: Evidence from functional and genetic studies. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 119095.	1.9	6
284	Single cell imaging of the heat shock response during proteasome inhibitor-induced apoptosis in colon cancer cells suggests that magnitude and length rather than time of onset determines resistance to apoptosis. <i>Journal of Cell Science</i> , 2013, 127, 609-19.	1.2	5
285	Proglucagon-Derived Peptides Expression and Secretion in Rat Insulinoma INS-1 Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 590763.	1.8	5
286	Systems analysis of protein signatures predicting cetuximab responses in <i>KRAS</i> , <i>NRAS</i> , <i>BRAF</i> and <i>PIK3CA</i> wild-type patient-derived xenograft models of metastatic colorectal cancer. <i>International Journal of Cancer</i> , 2020, 147, 2891-2901.	2.3	5
287	Combination of variations in inflammation- and endoplasmic reticulum-associated genes as putative biomarker for bevacizumab response in <i>KRAS</i> wild-type colorectal cancer. <i>Scientific Reports</i> , 2020, 10, 9778.	1.6	5
288	Development of a protein signature to enable clinical positioning of IAP inhibitors in colorectal cancer. <i>FEBS Journal</i> , 2021, 288, 5374-5388.	2.2	5

#	ARTICLE	IF	CITATIONS
289	Transcriptional CDK Inhibitors CYC65 and THZ1 Induce Apoptosis in Glioma Stem Cells Derived from Recurrent GBM. <i>Cells</i> , 2021, 10, 1182.	1.8	5
290	Molecular Subtyping Combined with Biological Pathway Analyses to Study Regorafenib Response in Clinically Relevant Mouse Models of Colorectal Cancer. <i>Clinical Cancer Research</i> , 2021, 27, 5979-5992.	3.2	5
291	Orexin-A/hypocretin-1 Immunoreactivity in the Lateral Hypothalamus is Reduced in Genetically Obese but not in Diet-induced Obese Mice. <i>Neuroscience</i> , 2018, 369, 183-191.	1.1	4
292	A Machine Learning Platform to Optimize the Translation of Personalized Network Models to the Clinic. <i>JCO Clinical Cancer Informatics</i> , 2019, 3, 1-17.	1.0	4
293	Serine-Arginine Protein Kinase 1 (SRPK1): a systematic review of its multimodal role in oncogenesis. <i>Molecular and Cellular Biochemistry</i> , 2022, 477, 2451-2467.	1.4	4
294	Rapamycin protects against dominant negative-HNF1A-induced apoptosis in INS-1 cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2011, 16, 1128-1137.	2.2	3
295	Endonuclease-G and the pathways to dopaminergic neurodegeneration: a question of location?. <i>EMBO Journal</i> , 2013, 32, 3014-3016.	3.5	3
296	Integrating Colon Cancer Microarray Data: Associating Locus-Specific Methylation Groups to Gene Expression-Based Classifications. <i>Microarrays (Basel, Switzerland)</i> , 2015, 4, 630-646.	1.4	3
297	Modelling tumour cell proliferation from vascular structure using tissue decomposition into avascular elements. <i>Journal of Theoretical Biology</i> , 2016, 402, 129-143.	0.8	3
298	Caspase 6 has a protective role in SOD1 G93A transgenic mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1063-1073.	1.8	3
299	Time-lapse imaging of p65 and I κ B α translocation kinetics following Ca ²⁺ -induced neuronal injury reveals biphasic translocation kinetics in surviving neurons. <i>Molecular and Cellular Neurosciences</i> , 2017, 80, 148-158.	1.0	3
300	Implementing Reverse Phase Protein Array Profiling as a Sensitive Method for the Early Pre-clinical Detection of Off-target Toxicities Associated with Sunitinib Malate. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800159.	0.8	3
301	AMPK-regulated miRNA-210 is activated during ischaemic neuronal injury and modulates PI3K-p70S6K signalling. <i>Journal of Neurochemistry</i> , 2021, 159, 710-728.	2.1	3
302	Mucinous Colorectal Cancer is Associated With Expression of the TIM-3 Immune Checkpoint Independently of Microsatellite Instability (MSI) Status. <i>Annals of Surgical Oncology</i> , 2021, 28, 7999-8006.	0.7	3
303	A structured approach to the study of metabolic control principles in intact and impaired mitochondria. <i>Molecular BioSystems</i> , 2012, 8, 828.	2.9	2
304	Analyzing proteasomal subunit expression reveals Rpt4 as a prognostic marker in stage II colorectal cancer. <i>International Journal of Cancer</i> , 2012, 131, E494-500.	2.3	2
305	The esoteric roles of Bcl-2 family proteins in glucose homeostasis and cell survival. <i>Cell Death and Disease</i> , 2015, 6, e1968-e1968.	2.7	2
306	In the Middle of a Chain Interaction. <i>Molecular Cell</i> , 2016, 64, 217-218.	4.5	2

#	ARTICLE	IF	CITATIONS
307	Deletion of the BH3-only protein Noxa alters electrographic seizures but does not protect against hippocampal damage after status epilepticus in mice. <i>Cell Death and Disease</i> , 2018, 8, e2556-e2556.	2.7	2
308	Systems biology analysis identifies molecular determinants of chemotherapy-induced diarrhoea. <i>Journal of Molecular Medicine</i> , 2020, 98, 149-159.	1.7	2
309	Identification of a novel predictive genomic biomarker for response to combination bevacizumab in metastatic colorectal cancer (mCRC).. <i>Journal of Clinical Oncology</i> , 2017, 35, 3580-3580.	0.8	2
310	HCP: A Matlab package to create beautiful heatmaps with richly annotated covariates. <i>Journal of Open Source Software</i> , 2019, 4, 1291.	2.0	2
311	Mitochondrial Carrier Homolog 2 Functionally Co-operates With BH3 Interacting-Domain Death Agonist in Promoting Ca ²⁺ -Induced Neuronal Injury. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 750100.	1.8	2
312	p53 upregulated mediator of apoptosis (Puma) deficiency increases survival of adult neural stem cells generated physiologically in the hippocampus, but does not protect stem cells generated in surplus after an excitotoxic lesion. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2021, 32, 57-66.	0.7	2
313	Profiling of Argonaute-2-loaded microRNAs in a mouse model of frontotemporal dementia with parkinsonism-17. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , 2018, 10, 172-183.	0.8	2
314	Phenomenological equations for electron transport chain-mediated reactive oxygen species metabolism. , 2021, , .		2
315	A constitutively-active IKK-complex at the axon initial segment. <i>Brain Research</i> , 2018, 1678, 356-366.	1.1	1
316	TAMI-51. IDENTIFYING NEW TUMOR MICROENVIRONMENT (TME) CONTEXTS OF VULNERABILITY IN GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2020, 22, ii224-ii224.	0.6	1
317	Potential Role of 5-Hydroxytryptamine1A Receptors in Cerebral Ischemia. , 1992, , 137-146.		1
318	A systems model of BCL-2 dependent apoptosis to predict stage II CRC patients benefiting from adjuvant chemotherapy and as a prognostic tool for stage III CRC patients with increased risk of recurrence.. <i>Journal of Clinical Oncology</i> , 2016, 34, 3584-3584.	0.8	1
319	A machine-learning approach for the identification of highly predictive germline SNPs as biomarkers for response to bevacizumab in metastatic colorectal cancer using Elastic Net and Lasso.. <i>Journal of Clinical Oncology</i> , 2018, 36, e15584-e15584.	0.8	1
320	Functional Genomic Identification of Predictors of Sensitivity and Mechanisms of Resistance to Multivalent Second-Generation TRAIL-R2 Agonists. <i>Molecular Cancer Therapeutics</i> , 2022, 21, 594-606.	1.9	1
321	Real-time measurements of protein dynamics. , 2005, , .		0
322	Systems Biology of the Mitochondrial Apoptosis Pathway. , 2012, , 85-99.		0
323	Combining systems biology models of apoptosis provides superior predictions of the responsiveness of melanoma cells to cell death inducing drugs. <i>BMC Proceedings</i> , 2015, 9, .	1.8	0
324	The role of BH3-only protein Bmf in the pathogenesis of dominant negative hepatocyte nuclear factor-1 induced mature-onset diabetes of the young in transgenic mice. <i>BMC Proceedings</i> , 2015, 9, .	1.8	0

#	ARTICLE	IF	CITATIONS
325	The Self-Destruction of Neurons Physiological and Pathophysiological Decisions for the Functional Integrity. , 2004, , 79-93.		0
326	AMP kinase-mediated activation of the BH3-only protein Bim couples energy depletion to stress-induced apoptosis. Journal of Experimental Medicine, 2010, 207, i12-i12.	4.2	0
327	Neuroprotective Effects of 5-HT1A Receptor Agonists. , 1994, , 204-216.		0
328	Mislocalization of Mitochondrial Intermembrane Space Proteins. , 2016, , 45-67.		0
329	Caspase modelling to predict personalised risk in stage III colorectal cancer (CRC) patients.. Journal of Clinical Oncology, 2016, 34, 11592-11592.	0.8	0
330	TMOD-12. ESTABLISHING A CLINICALLY RELEVANT MODEL OF MESENCHYMAL GLIOBLASTOMA (GBM) TO STUDY RESPONSE TO STANDARD OF CARE TREATMENT AND IMMUNE CHECKPOINT INHIBITION (ICI).. Neuro-Oncology, 2020, 22, ii230-ii230.	0.6	0
331	Clinical Oncogenomics and Personalized Medicine in Colorectal Cancer for the Surgeon: What We Need to Know and What the Future Holds. SN Comprehensive Clinical Medicine, 2022, 4, 1.	0.3	0
332	Apoptotic and Necroptotic Mediators are Differentially Expressed in Mucinous and Non-Mucinous Colorectal Cancer. Frontiers in Oncology, 0, 12, .	1.3	0