# Jochen H M Prehn

List of Publications by Year
in descending order



| 332 | 21,814 | 12330 69 | 12597 132 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 342 | 342 | 342 | 30553 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541. | 11.2 | 4,036 |
| 2 | Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. Cell Death and Differentiation, 2015, 22, 58-73. | 11.2 | 811 |
| 3 | ANG mutations segregate with familial and 'sporadic' amyotrophic lateral sclerosis. Nature Genetics, 2006, 38, 411-413. | 21.4 | 617 |
| 4 | Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. Cell Death and Differentiation, 2009, 16, 1093-1107. | 11.2 | 599 |
| 5 | S100B in brain damage and neurodegeneration. Microscopy Research and Technique, 2003, 60, 614-632. | 2.2 | 506 |
| 6 | Fusobacterium nucleatum associates with stages of colorectal neoplasia development, colorectal cancer and disease outcome. European Journal of Clinical Microbiology and Infectious Diseases, 2014, 33, 1381-1390. | 2.9 | 397 |
| 7 | Gene expression during ER stressâ€“induced apoptosis in neurons. Journal of Cell Biology, 2003, 162, 587-597. | 5.2 | 343 |
| 8 | Single-cell Fluorescence Resonance Energy Transfer Analysis Demonstrates That Caspase Activation during Apoptosis Is a Rapid Process. Journal of Biological Chemistry, 2002, 277, 24506-24514. | 3.4 | 276 |
| 9 | Activation of Calpain I Converts Excitotoxic Neuron Death into a Caspase-independent Cell Death. Journal of Biological Chemistry, 2000, 275, 17064-17071. | 3.4 | 245 |
| 10 | Transforming Growth Factor-Î²<sub>1</sub>Prevents Glutamate Neurotoxicity in Rat Neocortical Cultures and Protects Mouse Neocortex from Ischemic Injury in vivo. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 521-525. | 4.3 | 230 |
| 11 | Delayed Mitochondrial Dysfunction in Excitotoxic Neuron Death: CytochromecRelease and a Secondary Increase in Superoxide Production. Journal of Neuroscience, 2000, 20, 5715-5723. | 3.6 | 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.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 12599-12603. | 7.1 | 209 |
| 13 | Systems analysis of effector caspase activation and its control by X-linked inhibitor of apoptosis protein. EMBO Journal, 2006, 25, 4338-4349. | 7.8 | 203 |
| 14 | MicroRNAs in epilepsy: pathophysiology and clinical utility. Lancet Neurology, The, 2016, 15, 1368-1376. | 10.2 | 200 |
| 15 | Mitochondrial Depolarization Is Not Required for Neuronal Apoptosis. Journal of Neuroscience, 1999, 19, 7394-7404. | 3.6 | 189 |
| 16 | TGF-Î²1 Protects Hippocampal Neurons Against Degeneration Caused by Transient Global Ischemia. Stroke, 1996, 27, 1609-1615. | 2.0 | 182 |
| 17 | p53 Expression Induces Apoptosis in Hippocampal Pyramidal Neuron Cultures. Journal of Neuroscience, 1997, 17, 1397-1405. | 3.6 | 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. Journal of Neuroscience, 1998, 18, 8186-8197. | 3.6 | 160 |

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|---|---|---|---|
| 19 | Apoptosis-Inducing Factor (AIF) in Physiology and Disease: The Tale of a Repented Natural Born Killer. EBioMedicine, 2018, 30, 29-37. | 6.1 | 155 |
| 20 | Control of Motoneuron Survival by Angiogenin. Journal of Neuroscience, 2008, 28, 14056-14061. | 3.6 | 154 |
| 21 | Regulation of Glucose Transporter 3 Surface Expression by the AMP-Activated Protein Kinase Mediates Tolerance to Glutamate Excitation in Neurons. Journal of Neuroscience, 2009, 29, 2997-3008. | 3.6 | 153 |
| 22 | Versatile Conjugated Polymer Nanoparticles for High-Resolution O<sub>2</sub> Imaging in Cells and 3D Tissue Models. ACS Nano, 2015, 9, 5275-5288. | 14.6 | 147 |
| 23 | Real-time single cell analysis of Smac/DIABLO release during apoptosis. Journal of Cell Biology, 2003, 162, 1031-1043. | 5.2 | 143 |
| 24 | AMP kinaseâ€“mediated activation of the BH3-only protein Bim couples energy depletion to stress-induced apoptosis. Journal of Cell Biology, 2010, 189, 83-94. | 5.2 | 142 |
| 25 | Nerve growth factor survival signaling in cultured hippocampal neurons is mediated through TrkA and requires the common neurotrophin receptor P75. Neuroscience, 2002, 115, 1089-1108. | 2.3 | 140 |
| 26 | NMDA-induced superoxide production and neurotoxicity in cultured rat hippocampal neurons: role of mitochondria. European Journal of Neuroscience, 1998, 10, 1903-1910. | 2.6 | 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. Molecular Pharmacology, 2007, 71, 736-743. | 2.3 | 130 |
| 28 | Activation of Nuclear Factor Îºb and bcl-x Survival Gene Expression by Nerve Growth Factor Requires Tyrosine Phosphorylation of IÎºBÎ±. Journal of Cell Biology, 2001, 152, 753-764. | 5.2 | 129 |
| 29 | MicroRNAs 10a and 10b are potent inducers of neuroblastoma cell differentiation through targeting of nuclear receptor corepressor 2. Cell Death and Differentiation, 2011, 18, 1089-1098. | 11.2 | 129 |
| 30 | Dynamics of outer mitochondrial membrane permeabilization during apoptosis. Cell Death and Differentiation, 2009, 16, 613-623. | 11.2 | 125 |
| 31 | Central roles of apoptotic proteins in mitochondrial function. Oncogene, 2013, 32, 2703-2711. | 5.9 | 124 |
| 32 | Deletion of the BH3-only protein puma protects motoneurons from ER stress-induced apoptosis and delays motoneuron loss in ALS mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20606-20611. | 7.1 | 122 |
| 33 | 6â€Hydroxydopamine activates the mitochondrial apoptosis pathway through p38 MAPKâ€mediated, p53â€independent activation of Bax and PUMA. Journal of Neurochemistry, 2008, 104, 1599-1612. | 3.9 | 121 |
| 34 | Modulation of Gene Expression and Cytoskeletal Dynamics by the Amyloid Precursor Protein Intracellular Domain (AICD). Molecular Biology of the Cell, 2007, 18, 201-210. | 2.1 | 120 |
| 35 | Proteasome inhibition can induce an autophagy-dependent apical activation of caspase-8. Cell Death and Differentiation, 2011, 18, 1584-1597. | 11.2 | 120 |
| 36 | Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572. | 11.2 | 120 |

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| 37 | Ca2+ and Reactive Oxygen Species in Staurosporine-Induced Neuronal Apoptosis. Journal of Neurochemistry, 2002, 68, 1679-1685. | 3.9 | 117 |
| 38 | Vascular Endothelial Growth Factor Protects Cultured Rat Hippocampal Neurons against Hypoxic Injury via an Antiexcitotoxic, Caspase-Independent Mechanism. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1170-1175. | 4.3 | 113 |
| 39 | TGF-Î²1 activates two distinct type I receptors in neurons. Journal of Cell Biology, 2005, 168, 1077-1086. | 5.2 | 113 |
| 40 | Paracrine control of tissue regeneration and cell proliferation by Caspase-3. Cell Death and Disease, 2013, 4, e725-e725. | 6.3 | 109 |
| 41 | Active secretion of S100B from astrocytes during metabolic stress. Neuroscience, 2006, 141, 1697-1701. | 2.3 | 106 |
| 42 | Mitochondrial and Plasma Membrane Potential of Cultured Cerebellar Neurons during Glutamate-Induced Necrosis, Apoptosis, and Tolerance. Journal of Neuroscience, 2007, 27, 8238-8249. | 3.6 | 106 |
| 43 | Isoform-Specific Effects of Transforming Growth Factors-? on Degeneration of Primary Neuronal Cultures Induced by Cytotoxic Hypoxia or Glutamate. Journal of Neurochemistry, 1993, 60, 1665-1672. | 3.9 | 103 |
| 44 | Outer mitochondrial membrane permeabilization during apoptosis triggers caspase-independent mitochondrial and caspase-dependent plasma membrane potential depolarization: a single-cell analysis. Journal of Cell Science, 2003, 116, 525-536. | 2.0 | 102 |
| 45 | Control of mitochondrial physiology and cell death by the Bcl-2 family proteins Bax and Bok. Neurochemistry International, 2017, 109, 162-170. | 3.8 | 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. Cell Death and Differentiation, 2015, 22, 1502-1516. | 11.2 | 100 |
| 47 | Angiogenin protects motoneurons against hypoxic injury. Cell Death and Differentiation, 2009, 16, 1238-1247. | 11.2 | 98 |
| 48 | Control mitocondrial de la muerte neuronal y su papel en las enfermedades neurodegenerativas. Journal of Physiology and Biochemistry, 2003, 59, 129-141. | 3.0 | 97 |
| 49 | Inhibition of multidrug resistance protein 1 (MRP1) improves chemotherapy drug response in primary and recurrent glioblastoma multiforme. Frontiers in Neuroscience, 2015, 9, 218. | 2.8 | 96 |
| 50 | Single-cell quantification of Bax activation and mathematical modelling suggest pore formation on minimal mitochondrial Bax accumulation. Cell Death and Differentiation, 2010, 17, 278-290. | 11.2 | 95 |
| 51 | CHOP regulates the p53â€“MDM2 axis and is required for neuronal survival after seizures. Brain, 2013, 136, 577-592. | 7.6 | 95 |
| 52 | Systems Analysis of BCL2 Protein Family Interactions Establishes a Model to Predict Responses to Chemotherapy. Cancer Research, 2013, 73, 519-528. | 0.9 | 94 |
| 53 | Dissipation of Potassium and Proton Gradients Inhibits Mitochondrial Hyperpolarization and Cytochrome c Release during Neural Apoptosis. Journal of Neuroscience, 2001, 21, 4551-4563. | 3.6 | 93 |
| 54 | Cerebrospinal fluid microRNAs are potential biomarkers of temporal lobe epilepsy and status epilepticus. Scientific Reports, 2017, 7, 3328. | 3.3 | 93 |

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| 55 | Apoptosis induced by proteasome inhibition in cancer cells: predominant role of the p53/PUMA pathway. Oncogene, 2007, 26, 1681-1692. | 5.9 | 91 |
| 56 | The DAP kinase family of proâ€apoptotic proteins: novel players in the apoptotic game. BioEssays, 2001, 23, 352-358. | 2.5 | 89 |
| 57 | Effects of serotonergic drugs in experimental brain ischemia: evidence for a protective role of serotonin in cerebral ischemia. Brain Research, 1993, 630, 10-20. | 2.2 | 88 |
| 58 | Dual-center, dual-platform microRNA profiling identifies potential plasma biomarkers of adult temporal lobe epilepsy. EBioMedicine, 2018, 38, 127-141. | 6.1 | 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. Journal of Neuroscience Research, 1993, 34, 179-188. | 2.9 | 84 |
| 60 | ER stress signaling has an activating transcription factor 6Î± (ATF6)-dependent â€œoff-switchâ€• Journal of Biological Chemistry, 2018, 293, 18270-18284. | 3.4 | 84 |
| 61 | Motoneurons Secrete Angiogenin to Induce RNA Cleavage in Astroglia. Journal of Neuroscience, 2012, 32, 5024-5038. | 3.6 | 81 |
| 62 | Xanthohumolâ€induced transient superoxide anion radical formation triggers cancer cells into apoptosis via a mitochondriaâ€mediated mechanism. FASEB Journal, 2010, 24, 2938-2950. | 0.5 | 78 |
| 63 | Hypothesis review: are clathrin-mediated endocytosis and clathrin-dependent membrane and protein trafficking core pathophysiological processes in schizophrenia and bipolar disorder?. Molecular Psychiatry, 2012, 17, 669-681. | 7.9 | 78 |
| 64 | Neuroprotective properties of 5-HT1A receptor agonists En rodent models of focal and global cerebral ischemia. European Journal of Pharmacology, 1991, 203, 213-222. | 3.5 | 77 |
| 65 | S100B potently activates p65/c-Rel transcriptional complexes in hippocampal neurons: Clinical implications for the role of S100B in excitotoxic brain injury. Neuroscience, 2004, 127, 913-920. | 2.3 | 76 |
| 66 | Apoptosis signaling proteins as prognostic biomarkers in colorectal cancer: A review. Biochimica Et Biophysica Acta: Reviews on Cancer, 2009, 1795, 117-129. | 7.4 | 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. Cell Death and Disease, 2016, 7, e2087-e2087. | 6.3 | 76 |
| 68 | Endoplasmic Reticulum Stress and Apoptosis Signaling in Human Temporal Lobe Epilepsy. Journal of Neuropathology and Experimental Neurology, 2006, 65, 217-225. | 1.7 | 72 |
| 69 | Elevated serum angiogenin levels in ALS. Neurology, 2006, 67, 1833-1836. | 1.1 | 71 |
| 70 | Real Time Single Cell Analysis of Bid Cleavage and Bid Translocation during Caspase-dependent and Neuronal Caspase-independent Apoptosis. Journal of Biological Chemistry, 2006, 281, 5837-5844. | 3.4 | 71 |
| 71 | Calpains Are Downstream Effectors ofbax-Dependent Excitotoxic Apoptosis. Journal of Neuroscience, 2012, 32, 1847-1858. | 3.6 | 71 |
| 72 | Anti-apoptotic BCL-2 family proteins in acute neural injury. Frontiers in Cellular Neuroscience, 2014, 8, 281. | 3.7 | 71 |

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| 73 | Elevation of plasma tRNA fragments precedes seizures in human epilepsy. Journal of Clinical Investigation, 2019, 129, 2946-2951. | 8.2 | 71 |
| 74 | Novel Benzylidene-9(10H)-anthracenones as Highly Active Antimicrotubule Agents. Synthesis, Antiproliferative Activity, and Inhibition of Tubulin Polymerization. Journal of Medicinal Chemistry, 2003, 46, 3382-3394. | 6.4 | 70 |
| 75 | Role of 5â€²-Adenosine Monophosphate-Activated Protein Kinase in Cell Survival and Death Responses in Neurons. Antioxidants and Redox Signaling, 2011, 14, 1863-1876. | 5.4 | 70 |
| 76 | Pharmacological inhibition of Bcl-2 family members reactivates TRAIL-induced apoptosis in malignant glioma. Journal of Neuro-Oncology, 2008, 86, 265-272. | 2.9 | 69 |
| 77 | Hippocampal transcriptome after status epilepticus in mice rendered seizure damage-tolerant by epileptic preconditioning features suppressed calcium and neuronal excitability pathways. Neurobiology of Disease, 2008, 32, 442-453. | 4.4 | 68 |
| 78 | Dihydrolipoate Reduces Neuronal Injury after Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1992, 12, 78-87. | 4.3 | 67 |
| 79 | p75 neurotrophin receptor is required for constitutive and NGF-induced survival signalling in PC12 cells and rat hippocampal neurones. Journal of Neurochemistry, 2002, 81, 594-605. | 3.9 | 65 |
| 80 | Reduced hippocampal damage and epileptic seizures after status epilepticus in mice lacking proapoptotic Puma. FASEB Journal, 2010, 24, 853-861. | 0.5 | 65 |
| 81 | Advances in immunotherapy for the treatment of glioblastoma. Journal of Neuro-Oncology, 2017, 131, 1-9. | 2.9 | 65 |
| 82 | Oxidation of multiple MiT/TFE transcription factors links oxidative stress to transcriptional control of autophagy and lysosome biogenesis. Autophagy, 2020, 16, 1683-1696. | 9.1 | 65 |
| 83 | Dlk/ZIP kinase-induced apoptosis in human medulloblastoma cells: requirement of the mitochondrial apoptosis pathway. British Journal of Cancer, 2001, 85, 1801-1808. | 6.4 | 63 |
| 84 | Proteins and microRNAs are differentially expressed in tear fluid from patients with Alzheimerâ€™s disease. Scientific Reports, 2019, 9, 15437. | 3.3 | 63 |
| 85 | Human IgG antibody profiles differentiate between symptomatic patients with and without colorectal cancer. Gut, 2010, 59, 69-78. | 12.1 | 62 |
| 86 | In vivoContributions of BH3-Only Proteins to Neuronal Death Following Seizures, Ischemia, and Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1196-1210. | 4.3 | 61 |
| 87 | Two-step activation of FOXO3 by AMPK generates a coherent feed-forward loop determining excitotoxic cell fate. Cell Death and Differentiation, 2012, 19, 1677-1688. | 11.2 | 61 |
| 88 | Mitochondrial Membrane Permeabilization and Superoxide Production during Apoptosis. Journal of Biological Chemistry, 2003, 278, 12645-12649. | 3.4 | 58 |
| 89 | Regulation of gene expression by the amyloid precursor protein: inhibition of the JNK/c-Jun pathway. Cell Death and Differentiation, 2005, 12, 1-9. | 11.2 | 58 |
| 90 | The amyloid precursor protein protects PC12 cells against endoplasmic reticulum stress-induced apoptosis. Journal of Neurochemistry, 2003, 87, 248-256. | 3.9 | 57 |

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| 91 | Glucose-starved Cells Do Not Engage in Prosurvival Autophagy. Journal of Biological Chemistry, 2013, 288, 30387-30398. | 3.4 | 57 |
| 92 | Real Time Analysis of Tumor Necrosis Factor-related Apoptosis-inducing Ligand/Cycloheximide-induced Caspase Activities during Apoptosis Initiation. Journal of Biological Chemistry, 2008, 283, 21676-21685. | 3.4 | 56 |
| 93 | Increased Expression of MicroRNA-29a in ALS Mice: Functional Analysis of Its Inhibition. Journal of Molecular Neuroscience, 2014, 53, 231-241. | 2.3 | 56 |
| 94 | Single-Cell Imaging of Bioenergetic Responses to Neuronal Excitotoxicity and Oxygen and Glucose Deprivation. Journal of Neuroscience, 2014, 34, 10192-10205. | 3.6 | 56 |
| 95 | Dominant-negative Suppression of HNF-1Î± Results in Mitochondrial Dysfunction, INS-1 Cell Apoptosis, and Increased Sensitivity to Ceramide-, but Not to High Glucose-induced Cell Death. Journal of Biological Chemistry, 2002, 277, 6413-6421. | 3.4 | 55 |
| 96 | Copy number load predicts outcome of metastatic colorectal cancer patients receiving bevacizumab combination therapy. Nature Communications, 2018, 9, 4112. | 12.8 | 55 |
| 97 | Paraoxonase promoter and intronic variants modify risk of sporadic amyotrophic lateral sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2007, 78, 984-986. | 1.9 | 54 |
| 98 | Identification of polyubiquitin binding proteins involved in NF-ÎºB signaling using protein arrays. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1010-1016. | 2.3 | 54 |
| 99 | Meta-analysis of the molecular associations of mucinous colorectal cancer. British Journal of Surgery, 2019, 106, 682-691. | 0.3 | 54 |
| 100 | Multiple Kinetics of Mitochondrial CytochromecRelease in Drug-Induced Apoptosis. Molecular Pharmacology, 2001, 60, 1008-1019. | 2.3 | 53 |
| 101 | Ca2+-induced inhibition of apoptosis in human SH-SY5Y neuroblastoma cells: degradation of apoptotic protease activating factor-1 (APAF-1). Journal of Neurochemistry, 2001, 78, 1256-1266. | 3.9 | 53 |
| 102 | Mucin glycoproteins block apoptosis; promote invasion, proliferation, and migration; and cause chemoresistance through diverse pathways in epithelial cancers. Cancer and Metastasis Reviews, 2019, 38, 237-257. | 5.9 | 53 |
| 103 | Bcl-w Protects Hippocampus during Experimental Status Epilepticus. American Journal of Pathology, 2007, 171, 1258-1268. | 3.8 | 52 |
| 104 | Bax Regulates Neuronal Ca<sup>2+</sup>Homeostasis. Journal of Neuroscience, 2015, 35, 1706-1722. | 3.6 | 52 |
| 105 | XIAP impairs Smac release from the mitochondria during apoptosis. Cell Death and Disease, 2010, 1, e49-e49. | 6.3 | 51 |
| 106 | Calnexin, an ER-induced protein, is a prognostic marker and potential therapeutic target in colorectal cancer. Journal of Translational Medicine, 2016, 14, 196. | 4.4 | 51 |
| 107 | Mitochondrial transmembrane potential and free radical production in excitotoxic neurodegeneration. Naunyn-Schmiedeberg's Archives of Pharmacology, 1998, 357, 316-322. | 3.0 | 50 |
| 108 | Loss of p53 results in protracted electrographic seizures and development of an aggravated epileptic phenotype following status epilepticus. Cell Death and Disease, 2010, 1, e79-e79. | 6.3 | 50 |

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| 109 | The Î²2-adrenoceptor agonist clenbuterol modulates Bcl-2, Bcl-xl and Bax protein expression following transient forebrain ischemia. Neuroscience, 1999, 90, 1255-1263. | 2.3 | 49 |
| 110 | Coincident enrichment of phosphorylated ÎºBÎ±, activated IKK, and phosphorylated p65 in the axon initial segment of neurons. Molecular and Cellular Neurosciences, 2006, 33, 68-80. | 2.2 | 49 |
| 111 | Glucose metabolism determines resistance of cancer cells to bioenergetic crisis after cytochromeâ€• c release. Molecular Systems Biology, 2011, 7, 470. | 7.2 | 49 |
| 112 | KCa2 channels activation prevents [Ca2+]i deregulation and reduces neuronal death following glutamate toxicity and cerebral ischemia. Cell Death and Disease, 2011, 2, e147-e147. | 6.3 | 49 |
| 113 | â€œPreconditioningâ€•with latrepirdine, an adenosine 5â€²-monophosphate-activated protein kinase activator, delays amyotrophic lateral sclerosis progression in SOD1G93A mice. Neurobiology of Aging, 2015, 36, 1140-1150. | 3.1 | 49 |
| 114 | Imaging oxygen in neural cell and tissue models by means of anionic cell-permeable phosphorescent nanoparticles. Cellular and Molecular Life Sciences, 2015, 72, 367-381. | 5.4 | 49 |
| 115 | Clinical application of a systems model of apoptosis execution for the prediction of colorectal cancer therapy responses and personalisation of therapy. Gut, 2012, 61, 725-733. | 12.1 | 48 |
| 116 | NMDA receptorâ€•mediated excitotoxic neuronal apoptosis in vitro and in vivo occurs in an ER stress and PUMA independent manner. Journal of Neurochemistry, 2008, 105, 891-903. | 3.9 | 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. Journal of Neuroscience, 2016, 36, 4564-4578. | 3.6 | 47 |
| 118 | Systems biology identifies preserved integrity but impaired metabolism of mitochondria due to a glycolytic defect in Alzheimer's disease neurons. Aging Cell, 2019, 18, e12924. | 6.7 | 46 |
| 119 | Microarray profile of seizure damage-refractory hippocampal CA3 in a mouse model of epileptic preconditioning. Neuroscience, 2007, 150, 467-477. | 2.3 | 45 |
| 120 | Upregulation of DR5 by proteasome inhibitors potently sensitizes glioma cells to TRAILâ€•induced apoptosis. FEBS Journal, 2008, 275, 1925-1936. | 4.7 | 45 |
| 121 | Opposing effects of transforming growth factor-Î²1 on glutamate neurotoxicity. Neuroscience, 1994, 60, 7-10. | 2.3 | 44 |
| 122 | Caspase-3 Cleavage and Nuclear Localization of Caspase-Activated DNase in Human Temporal Lobe Epilepsy. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 583-589. | 4.3 | 43 |
| 123 | Contrasting patterns of Bim induction and neuroprotection in Bim-deficient mice between hippocampus and neocortex after status epilepticus. Cell Death and Differentiation, 2010, 17, 459-468. | 11.2 | 43 |
| 124 | Activation of executioner caspases is a predictor of progression-free survival in glioblastoma patients: a systems medicine approach. Cell Death and Disease, 2013, 4, e629-e629. | 6.3 | 43 |
| 125 | Expanding the Substantial Interactome of NEMO Using Protein Microarrays. PLoS ONE, 2010, 5, e8799. | 2.5 | 42 |
| 126 | Modulation of Mcl-1 sensitizes glioblastoma to TRAIL-induced apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2014, 19, 629-642. | 4.9 | 42 |

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| 127 | High levels of X-linked Inhibitor-of-Apoptosis Protein (XIAP) are indicative of radio chemotherapy resistance in rectal cancer. Radiation Oncology, 2015, 10, 131. | 2.7 | 42 |
| 128 | Apelin: A putative novel predictive biomarker for bevacizumab response in colorectal cancer. Oncotarget, 2017, 8, 42949-42961. | 1.8 | 42 |
| 129 | Marked diversity in the action of growth factors on N-methyl-d-rmaspartate-induced neuronal degeneration. European Journal of Pharmacology, 1996, 306, 81-88. | 3.5 | 41 |
| 130 | miRNAmeConverter: an R/bioconductor package for translating mature miRNA names to different miRBase versions. Bioinformatics, 2017, 33, 592-593. | 4.1 | 41 |
| 131 | Elevated Plasma microRNA-206 Levels Predict Cognitive Decline and Progression to Dementia from Mild Cognitive Impairment. Biomolecules, 2019, 9, 734. | 4.0 | 41 |
| 132 | A systems approach delivers a functional microRNA catalog and expanded targets for seizure suppression in temporal lobe epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15977-15988. | 7.1 | 41 |
| 133 | Vascular Endothelial Growth Factor Protects Cultured Rat Hippocampal Neurons Against Hypoxic Injury via an Antiexcitotoxic, Caspase-Independent Mechanism. Journal of Cerebral Blood Flow and Metabolism, 2002, , 1170-1175. | 4.3 | 41 |
| 134 | INS-1 Cells Undergoing Caspase-Dependent Apoptosis Enhance the Regenerative Capacity of Neighboring Cells. Diabetes, 2010, 59, 2799-2808. | 0.6 | 40 |
| 135 | Angiogenin induces modifications in the astrocyte secretome: Relevance to amyotrophic lateral sclerosis. Journal of Proteomics, 2013, 91, 274-285. | 2.4 | 40 |
| 136 | BCL-2 system analysis identifies high-risk colorectal cancer patients. Gut, 2017, 66, 2141-2148. | 12.1 | 40 |
| 137 | The amyloid precursor protein potentiates CHOP induction and cell death in response to ER Ca2+ depletion. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 157-165. | 4.1 | 39 |
| 138 | Enhanced vulnerability of PARK6 patient skin fibroblasts to apoptosis induced by proteasomal stress. Neuroscience, 2010, 166, 422-434. | 2.3 | 39 |
| 139 | Angiogenin and tRNA fragments in Parkinsonâ€™s disease and neurodegeneration. Acta Pharmacologica Sinica, 2020, 41, 442-446. | 6.1 | 39 |
| 140 | Full length Bid is sufficient to induce apoptosis of cultured rat hippocampal neurons. BMC Cell Biology, 2007, 8, 7. | 3.0 | 38 |
| 141 | Depletion of 14â€3â€3 zeta elicits endoplasmic reticulum stress and cell death, and increases vulnerability to kainateâ€induced injury in mouse hippocampal cultures. Journal of Neurochemistry, 2008, 106, 978-988. | 3.9 | 38 |
| 142 | Dynamics of Intracellular Oxygen in PC12 Cells upon Stimulation of Neurotransmission. Journal of Biological Chemistry, 2008, 283, 5650-5661. | 3.4 | 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. Journal of Biological Chemistry, 2010, 285, 36199-36206. | 3.4 | 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. DMM Disease Models and Mechanisms, 2016, 9, 1029-37. | 2.4 | 38 |

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| 145 | Systems modeling accurately predicts responses to genotoxic agents and their synergism with BCL-2 inhibitors in triple negative breast cancer cells. Cell Death and Disease, 2018, 9, 42. | 6.3 | 38 |
| 146 | Multiple screening approaches reveal HDAC6 as a novel regulator of glycolytic metabolism in triple-negative breast cancer. Science Advances, 2021, 7, . | 10.3 | 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. Oncotarget, 2018, 9, 26046-26063. | 1.8 | 38 |
| 148 | Opposite effects of TGF-Î²1 on rapidly- and slowly-triggered excitotoxic injury. Neuropharmacology, 1996, 35, 249-256. | 4.1 | 37 |
| 149 | Activation of ATP-sensitive potassium channels decreases neuronal injury caused by chemical hypoxia. Brain Research, 1997, 751, 295-299. | 2.2 | 37 |
| 150 | â€˜Mild mitochondrial uncouplingâ€™ induced protection against neuronal excitotoxicity requires AMPK activity. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 744-753. | 1.0 | 37 |
| 151 | Metabolic Targeting of Breast Cancer Cells With the 2-Deoxy-D-Glucose and the Mitochondrial Bioenergetics Inhibitor MDIVI-1. Frontiers in Cell and Developmental Biology, 2018, 6, 113. | 3.7 | 37 |
| 152 | Context-Specific Switch from Anti- to Pro-epileptogenic Function of the P2Y<sub>1</sub> Receptor in Experimental Epilepsy. Journal of Neuroscience, 2019, 39, 5377-5392. | 3.6 | 37 |
| 153 | Genome-wide microRNA profiling of plasma from three different animal models identifies biomarkers of temporal lobe epilepsy. Neurobiology of Disease, 2020, 144, 105048. | 4.4 | 35 |
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