

# Donat KÄ¶gel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7759656/publications.pdf>

Version: 2024-02-01

103  
papers

5,515  
citations

46918

47  
h-index

85405

71  
g-index

107  
all docs

107  
docs citations

107  
times ranked

9823  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene expression during ER stress-induced apoptosis in neurons. <i>Journal of Cell Biology</i> , 2003, 162, 587-597.	2.3	343
2	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
3	The Pan-Bcl-2 Inhibitor (̂)-Gossypol Triggers Autophagic Cell Death in Malignant Glioma. <i>Molecular Cancer Research</i> , 2010, 8, 1002-1016.	1.5	169
4	Apoptosis meets autophagy-like cell death in the ischemic penumbra: Two sides of the same coin?. <i>Autophagy</i> , 2008, 4, 422-426.	4.3	122
5	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
6	The nontoxic natural compound Curcumin exerts anti-proliferative, anti-migratory, and anti-invasive properties against malignant gliomas. <i>BMC Cancer</i> , 2010, 10, 491.	1.1	120
7	Dietary Curcumin Attenuates Glioma Growth in a Syngeneic Mouse Model by Inhibition of the JAK1,2/STAT3 Signaling Pathway. <i>Clinical Cancer Research</i> , 2010, 16, 5781-5795.	3.2	120
8	Pro-survival autophagy and cancer cell resistance to therapy. <i>Cancer and Metastasis Reviews</i> , 2018, 37, 749-766.	2.7	116
9	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
10	TGF-̂1 activates two distinct type I receptors in neurons. <i>Journal of Cell Biology</i> , 2005, 168, 1077-1086.	2.3	113
11	Inhibition of the JAK-2/STAT3 signaling pathway impedes the migratory and invasive potential of human glioblastoma cells. <i>Journal of Neuro-Oncology</i> , 2011, 101, 393-403.	1.4	112
12	Active secretion of S100B from astrocytes during metabolic stress. <i>Neuroscience</i> , 2006, 141, 1697-1701.	1.1	106
13	Cloning and characterization of Dlk, a novel serine/threonine kinase that is tightly associated with chromatin and phosphorylates core histones. <i>Oncogene</i> , 1998, 17, 2645-2654.	2.6	105
14	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
15	Interaction partners of Dlk/ZIP kinase: co-expression of Dlk/ZIP kinase and Par-4 results in cytoplasmic retention and apoptosis. <i>Oncogene</i> , 1999, 18, 7265-7273.	2.6	99
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	The DAP kinase family of pro-apoptotic proteins: novel players in the apoptotic game. <i>BioEssays</i> , 2001, 23, 352-358.	1.2	89
20	Omega-3 polyunsaturated fatty acids improve mitochondrial dysfunction in brain aging – Impact of Bcl-2 and NPD-1 like metabolites. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2015, 92, 23-31.	1.0	81
21	Roles of amyloid precursor protein family members in neuroprotection, stress signaling and aging. <i>Experimental Brain Research</i> , 2012, 217, 471-479.	0.7	79
22	AT 101 induces early mitochondrial dysfunction and HMOX1 (heme oxygenase 1) to trigger mitophagic cell death in glioma cells. <i>Autophagy</i> , 2018, 14, 1693-1709.	4.3	79
23	Parkinson patient fibroblasts show increased alpha-synuclein expression. <i>Experimental Neurology</i> , 2008, 212, 307-313.	2.0	78
24	The interaction of beta-amyloid protein with cellular membranes stimulates its own production. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 964-972.	1.4	78
25	AATF, a novel transcription factor that interacts with Dlk/ZIP kinase and interferes with apoptosis1. <i>FEBS Letters</i> , 1999, 462, 187-191.	1.3	77
26	S100B potently 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
27	Liposome-incorporated DHA increases neuronal survival by enhancing non-amyloidogenic APP processing. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 236-243.	1.4	75
28	BAG3 Overexpression and Cytoprotective Autophagy Mediate Apoptosis Resistance in Chemosistant Breast Cancer Cells. <i>Neoplasia</i> , 2018, 20, 263-279.	2.3	71
29	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
30	ATF4 links ER stress with reticulophagy in glioblastoma cells. <i>Autophagy</i> , 2021, 17, 2432-2448.	4.3	66
31	Chemosistance is associated with increased cytoprotective autophagy and diminished apoptosis in bladder cancer cells treated with the BH3 mimetic (âˆ™)-Gossypol (AT-101). <i>BMC Cancer</i> , 2015, 15, 224.	1.1	64
32	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
33	sAPP <sup>1±</sup> antagonizes dendritic degeneration and neuron death triggered by proteasomal stress. <i>Molecular and Cellular Neurosciences</i> , 2010, 44, 386-393.	1.0	62
34	Isocitrate dehydrogenase 1 mutant R132H sensitizes glioma cells to BCNU-induced oxidative stress and cell death. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2013, 18, 1416-1425.	2.2	62
35	Autophagy in Cancer Cell Death. <i>Biology</i> , 2019, 8, 82.	1.3	62
36	Mitochondrial Membrane Permeabilization and Superoxide Production during Apoptosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 12645-12649.	1.6	58

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	STAT3 silencing inhibits glioma single cell infiltration and tumor growth. <i>Neuro-Oncology</i> , 2013, 15, 840-852.	0.6	57
40	Interference with the HSF1/HSP70/BAG3 Pathway Primes Glioma Cells to Matrix Detachment and BH3 Mimetic-Induced Apoptosis. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 156-168.	1.9	57
41	Inhibition of tissue factor/protease-activated receptor-2 signaling limits proliferation, migration and invasion of malignant glioma cells. <i>Neuroscience</i> , 2010, 165, 1312-1322.	1.1	56
42	Lovastatin and perillyl alcohol inhibit glioma cell invasion, migration, and proliferation – Impact of Ras-/Rho-prenylation. <i>Pharmacological Research</i> , 2015, 91, 69-77.	3.1	56
43	Dominant-negative Suppression of HNF-1 $\alpha$ 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
44	Multiple Kinetics of Mitochondrial Cytochrome <i>c</i> Release in Drug-Induced Apoptosis. <i>Molecular Pharmacology</i> , 2001, 60, 1008-1019.	1.0	53
45	Ca <sup>2+</sup> -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
46	Therapeutic Exploitation of Apoptosis and Autophagy for Glioblastoma. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2010, 10, 438-449.	0.9	50
47	Coincident enrichment of phosphorylated I $\kappa$ B $\alpha$ , 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
48	Loperamide, pimizide, and STF-62247 trigger autophagy-dependent cell death in glioblastoma cells. <i>Cell Death and Disease</i> , 2018, 9, 994.	2.7	49
49	C-terminal truncation of Dlk/ZIP kinase leads to abrogation of nuclear transport and high apoptotic activity. <i>Oncogene</i> , 1999, 18, 7212-7218.	2.6	45
50	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
51	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
52	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
53	At the Crossroads of Apoptosis and Autophagy: Multiple Roles of the Co-Chaperone BAG3 in Stress and Therapy Resistance of Cancer. <i>Cells</i> , 2020, 9, 574.	1.8	42
54	Molecular Biological Characterization of the Human Foamy Virus Reverse Transcriptase and Ribonuclease H Domains. <i>Virology</i> , 1995, 213, 97-108.	1.1	41

#	ARTICLE	IF	CITATIONS
55	The amyloid precursor protein potentiates CHOP induction and cell death in response to ER Ca <sup>2+</sup> depletion. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 157-165.	1.9	39
56	Enhanced vulnerability of PARK6 patient skin fibroblasts to apoptosis induced by proteasomal stress. <i>Neuroscience</i> , 2010, 166, 422-434.	1.1	39
57	Sorafenib Sensitizes Glioma Cells to the BH3 Mimetic ABT-737 by Targeting MCL1 in a STAT3-Dependent Manner. <i>Neoplasia</i> , 2015, 17, 564-573.	2.3	39
58	Autophagy activation, lipotoxicity and lysosomal membrane permeabilization synergize to promote pimozone- and loperamide-induced glioma cell death. <i>Autophagy</i> , 2021, 17, 3424-3443.	4.3	39
59	Knockdown of TFPI-2 promotes migration and invasion of glioma cells. <i>Neuroscience Letters</i> , 2011, 497, 49-54.	1.0	36
60	The APP intracellular domain (AICD) potentiates ER stress-induced apoptosis. <i>Neurobiology of Aging</i> , 2012, 33, 2200-2209.	1.5	33
61	Diagnostic and clinical relevance of the autophago-lysosomal network in human gliomas. <i>Oncotarget</i> , 2016, 7, 20016-20032.	0.8	32
62	Amyloid Beta A4 Precursor Protein-binding Family B Member 1 (FE65) Interactomics Revealed Synaptic Vesicle Glycoprotein 2A (SV2A) and Sarcoplasmic/Endoplasmic Reticulum Calcium ATPase 2 (SERCA2) as New Binding Proteins in the Human Brain. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 475-488.	2.5	31
63	A novel role of the mitochondrial permeability transition pore in (̂ <sup>+</sup> )-gossypol-induced mitochondrial dysfunction. <i>Mechanisms of Ageing and Development</i> , 2018, 170, 45-58.	2.2	31
64	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
65	Arsenic Trioxide and (̂ <sup>+</sup> )-Gossypol Synergistically Target Glioma Stem-Like Cells via Inhibition of Hedgehog and Notch Signaling. <i>Cancers</i> , 2019, 11, 350.	1.7	29
66	Neuronal Apoptosis: BH3-Only Proteins the Real Killers?. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 295-298.	1.0	28
67	Topotecan is a potent inhibitor of SUMOylation in glioblastoma multiforme and alters both cellular replication and metabolic programming. <i>Scientific Reports</i> , 2017, 7, 7425.	1.6	28
68	Nanoparticle/siRNA-based therapy strategies in glioma: which nanoparticles, which siRNAs?. <i>Nanomedicine</i> , 2018, 13, 89-103.	1.7	28
69	BH3 Mimetics Reactivate Autophagic Cell Death in Anoxia-Resistant Malignant Glioma Cells. <i>Neoplasia</i> , 2008, 10, 873-885.	2.3	24
70	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
71	The Cleavage Product of Amyloid-̂ <sup>2</sup> Protein Precursor sÂ <sup>2</sup> PP̂ <sup>±</sup> Modulates BAG3-Dependent Aggresome Formation and Enhances Cellular Proteasomal Activity. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 879-896.	1.2	23
72	Therapeutic Targeting of Stat3 Using Lipopolyplex Nanoparticle-Formulated siRNA in a Syngeneic Orthotopic Mouse Glioma Model. <i>Cancers</i> , 2019, 11, 333.	1.7	22

#	ARTICLE	IF	CITATIONS
73	Role of APP Interactions with Heterotrimeric G Proteins: Physiological Functions and Pathological Consequences. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 3.	1.4	21
74	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
75	Mutational analysis of the reverse transcriptase and ribonuclease H domains of the human foamy virus. <i>Nucleic Acids Research</i> , 1995, 23, 2621-2625.	6.5	17
76	Bone Morphogenetic Protein 3 Controls Insulin Gene Expression and Is Down-regulated in INS-1 Cells Inducibly Expressing a Hepatocyte Nuclear Factor 1A "Maturity-onset Diabetes of the Young Mutation. <i>Journal of Biological Chemistry</i> , 2011, 286, 25719-25728.	1.6	17
77	Inhibition of PIM1 blocks the autophagic flux to sensitize glioblastoma cells to ABT-737-induced apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 175-189.	1.9	17
78	A Functional Yeast Survival Screen of Tumor-Derived cDNA Libraries Designed to Identify Anti-Apoptotic Mammalian Oncogenes. <i>PLoS ONE</i> , 2013, 8, e64873.	1.1	17
79	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
80	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
81	Knockdown of BAG3 sensitizes bladder cancer cells to treatment with the BH3 mimetic ABT-737. <i>World Journal of Urology</i> , 2016, 34, 197-205.	1.2	15
82	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
83	The pro-migratory and pro-invasive role of the procoagulant tissue factor in malignant gliomas. <i>Cell Adhesion and Migration</i> , 2010, 4, 515-522.	1.1	13
84	Anti-tissue factor (<sc>TF</sc>) treatment reduces tumor cell invasiveness in a novel migratory glioma model. <i>Neuropathology</i> , 2013, 33, 515-525.	0.7	13
85	A Novel Cellular Spheroid-Based Autophagy Screen Applying Live Fluorescence Microscopy Identifies Nonactin as a Strong Inducer of Autophagosomal Turnover. <i>SLAS Discovery</i> , 2017, 22, 558-570.	1.4	13
86	Organelle-specific mechanisms of drug-induced autophagy-dependent cell death. <i>Matrix Biology</i> , 2021, 100-101, 54-64.	1.5	13
87	Hypoxia Enhances the Antiglioma Cytotoxicity of B10, a Glycosylated Derivative of Betulinic Acid. <i>PLoS ONE</i> , 2014, 9, e94921.	1.1	13
88	Autophagy-associated proteins BAG3 and p62 in testicular cancer. <i>Oncology Reports</i> , 2016, 35, 1629-1635.	1.2	12
89	Calcitriol Promotes Differentiation of Glioma Stem-Like Cells and Increases Their Susceptibility to Temozolomide. <i>Cancers</i> , 2021, 13, 3577.	1.7	12
90	Autophagy inhibition reinforces stemness together with exit from dormancy of polydisperse glioblastoma stem cells. <i>Aging</i> , 2021, 13, 18106-18130.	1.4	11

#	ARTICLE	IF	CITATIONS
91	System-based approaches as prognostic tools for glioblastoma. BMC Cancer, 2019, 19, 1092.	1.1	9
92	BAG3 is a negative regulator of ciliogenesis in glioblastoma and triple-negative breast cancer cells. Journal of Cellular Biochemistry, 2022, 123, 77-90.	1.2	8
93	Concomitant targeting of Hedgehog signaling and MCL-1 synergistically induces cell death in Hedgehog-driven cancer cells. Cancer Letters, 2019, 465, 1-11.	3.2	7
94	When lipid homeostasis runs havoc: Lipotoxicity links lysosomal dysfunction to autophagy. Matrix Biology, 2021, 100-101, 99-117.	1.5	7
95	Dexamethasone Treatment Limits Efficacy of Radiation, but Does Not Interfere With Glioma Cell Death Induced by Tumor Treating Fields. Frontiers in Oncology, 2021, 11, 715031.	1.3	7
96	Quantifying the Autophagy-Triggering Effects of Drugs in Cell Spheroids with Live Fluorescence Microscopy. Methods in Molecular Biology, 2014, 1165, 19-29.	0.4	7
97	Modulation of BAG3 Expression and Proteasomal Activity by sAPP $\pm$ Does Not Require Membrane-Tethered Holo-APP. Molecular Neurobiology, 2016, 53, 5985-5994.	1.9	6
98	Glioblastoma Tissue Slice Tandem-Cultures for Quantitative Evaluation of Inhibitory Effects on Invasion and Growth. Cancers, 2020, 12, 2707.	1.7	6
99	STF-62247 and pimoziide induce autophagy and autophagic cell death in mouse embryonic fibroblasts. Scientific Reports, 2020, 10, 687.	1.6	6
100	A New Pentafluorothio-Substituted Curcuminoid with Superior Antitumor Activity. Biomolecules, 2021, 11, 947.	1.8	6
101	STAT3 Enhances Sensitivity of Glioblastoma to Drug-Induced Autophagy-Dependent Cell Death. Cancers, 2022, 14, 339.	1.7	6
102	BRAT1 Impairs DNA Damage Repair in Glioblastoma Cell Lines. Medical Sciences Forum, 2021, 3, 3.	0.5	1
103	Cytoprotective functions of amyloid precursor protein family members in stress signaling and aging. Molecular Neurodegeneration, 2013, 8, P26.	4.4	0