

Erwin Knecht

List of Publications by Year in descending order

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102
papers

15,874
citations

81900

39
h-index

32842

100
g-index

105
all docs

105
docs citations

105
times ranked

27334
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. <i>Autophagy</i> , 2008, 4, 151-175.	9.1	2,064
4	Activation of Chaperone-mediated Autophagy during Oxidative Stress. <i>Molecular Biology of the Cell</i> , 2004, 15, 4829-4840.	2.1	546
5	Tissue-specific Autophagy Alterations and Increased Tumorigenesis in Mice Deficient in Atg4C/Autophagin-3. <i>Journal of Biological Chemistry</i> , 2007, 282, 18573-18583.	3.4	360
6	Subcellular localization of proteasomes and their regulatory complexes in mammalian cells. <i>Biochemical Journal</i> , 2000, 346, 155-161.	3.7	269
7	A Population of Rat Liver Lysosomes Responsible for the Selective Uptake and Degradation of Cytosolic Proteins. <i>Journal of Biological Chemistry</i> , 1997, 272, 5606-5615.	3.4	256
8	Antibiotic-induced SOS response promotes horizontal dissemination of pathogenicity island-encoded virulence factors in staphylococci. <i>Molecular Microbiology</i> , 2005, 56, 836-844.	2.5	256
9	Bap-dependent biofilm formation by pathogenic species of <i>Staphylococcus</i> : evidence of horizontal gene transfer?. <i>Microbiology (United Kingdom)</i> , 2005, 151, 2465-2475.	1.8	243
10	Disturbed Cholesterol Traffic but Normal Proteolytic Function in LAMP-1/LAMP-2 Double-deficient Fibroblasts. <i>Molecular Biology of the Cell</i> , 2004, 15, 3132-3145.	2.1	241
11	Laforin, the most common protein mutated in Lafora disease, regulates autophagy. <i>Human Molecular Genetics</i> , 2010, 19, 2867-2876.	2.9	170
12	Degradation of Proteasomes by Lysosomes in Rat Liver. <i>FEBS Journal</i> , 1995, 227, 792-800.	0.2	166
13	Import of a Cytosolic Protein into Lysosomes by Chaperone-mediated Autophagy Depends on Its Folding State. <i>Journal of Biological Chemistry</i> , 2000, 275, 27447-27456.	3.4	164
14	Subpopulations of proteasomes in rat liver nuclei, microsomes and cytosol. <i>Biochemical Journal</i> , 1996, 316, 401-407.	3.7	163
15	Changes in the proteolytic activities of proteasomes and lysosomes in human fibroblasts produced by serum withdrawal, amino-acid deprivation and confluent conditions. <i>Biochemical Journal</i> , 2003, 375, 75-86.	3.7	152
16	Electron microscopic localization of the multicatalytic proteinase complex in rat liver and in cultured cells. <i>Journal of Histochemistry and Cytochemistry</i> , 1992, 40, 1165-1172.	2.5	139
17	Lafora bodies and neurological defects in malin-deficient mice correlate with impaired autophagy. <i>Human Molecular Genetics</i> , 2012, 21, 1521-1533.	2.9	131
18	Regulation of glycogen synthesis by the laforin-malin complex is modulated by the AMP-activated protein kinase pathway. <i>Human Molecular Genetics</i> , 2008, 17, 667-678.	2.9	128

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19	Uptake and degradation of glyceraldehyde-3-phosphate dehydrogenase by rat liver lysosomes. <i>Journal of Biological Chemistry</i> , 1993, 268, 10463-70.	3.4	119
20	Expression of the Biofilm-Associated Protein Interferes with Host Protein Receptors of <i>Staphylococcus aureus</i> and Alters the Infective Process. <i>Infection and Immunity</i> , 2002, 70, 3180-3186.	2.2	113
21	Withdrawal of Essential Amino Acids Increases Autophagy by a Pathway Involving Ca ²⁺ /Calmodulin-dependent Kinase Kinase- β^2 (CaMKK- β^2). <i>Journal of Biological Chemistry</i> , 2012, 287, 38625-38636.	3.4	103
22	Subcellular localization of proteasomes and their regulatory complexes in mammalian cells. <i>Biochemical Journal</i> , 2000, 346, 155.	3.7	99
23	The <i>Escherichia coli</i> trmE (mnmE) gene, involved in tRNA modification, codes for an evolutionarily conserved GTPase with unusual biochemical properties. <i>EMBO Journal</i> , 1999, 18, 7063-7076.	7.8	94
24	A769662, a novel activator of AMP-activated protein kinase, inhibits non-proteolytic components of the 26S proteasome by an AMPK-independent mechanism. <i>FEBS Letters</i> , 2008, 582, 2650-2654.	2.8	76
25	Alterations in ROS Activity and Lysosomal pH Account for Distinct Patterns of Macroautophagy in LINCL and JNCL Fibroblasts. <i>PLoS ONE</i> , 2013, 8, e55526.	2.5	76
26	Glucose induces autophagy under starvation conditions by a p38 MAPK-dependent pathway. <i>Biochemical Journal</i> , 2013, 449, 497-506.	3.7	73
27	Intracellular protein degradation in mammalian cells: recent developments. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 2427-2443.	5.4	69
28	Regulation of Autophagy by Glucose in Mammalian Cells. <i>Cells</i> , 2012, 1, 372-395.	4.1	69
29	Dynamics of an F-actin aggresome generated by the actin-stabilizing toxin jasplakinolide. <i>Journal of Cell Science</i> , 2008, 121, 1415-1425.	2.0	68
30	Role of AMP-activated protein kinase in autophagy and proteasome function. <i>Biochemical and Biophysical Research Communications</i> , 2008, 369, 964-968.	2.1	67
31	Role of proteasomes in the degradation of short-lived proteins in human fibroblasts under various growth conditions. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 651-664.	2.8	65
32	PTEN Increases Autophagy and Inhibits the Ubiquitin-Proteasome Pathway in Glioma Cells Independently of its Lipid Phosphatase Activity. <i>PLoS ONE</i> , 2013, 8, e83318.	2.5	62
33	Regulation of lysosomal autophagy in transformed and non-transformed mouse fibroblasts under several growth conditions*1. <i>Experimental Cell Research</i> , 1984, 154, 224-232.	2.6	59
34	Annexin A5 stimulates autophagy and inhibits endocytosis. <i>Journal of Cell Science</i> , 2012, 125, 92-107.	2.0	57
35	Characterization of Human GTPBP3, a GTP-Binding Protein Involved in Mitochondrial tRNA Modification. <i>Molecular and Cellular Biology</i> , 2008, 28, 7514-7531.	2.3	54
36	The GTPase Activity and C-terminal Cysteine of the <i>Escherichia coli</i> MnmE Protein Are Essential for Its tRNA Modifying Function. <i>Journal of Biological Chemistry</i> , 2003, 278, 28378-28387.	3.4	53

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37	The Laforin ^Δ Malin Complex, Involved in Lafora Disease, Promotes the Incorporation of K63-linked Ubiquitin Chains into AMP-activated Protein Kinase β Subunits. <i>Molecular Biology of the Cell</i> , 2010, 21, 2578-2588.	2.1	53
38	Selective uptake and degradation of c-Fos and v-Fos by rat liver lysosomes. <i>FEBS Letters</i> , 1996, 390, 47-52.	2.8	43
39	Tauroursodeoxycholic bile acid arrests axonal degeneration by inhibiting the unfolded protein response in X-linked adrenoleukodystrophy. <i>Acta Neuropathologica</i> , 2017, 133, 283-301.	7.7	43
40	Reactive Glia-Derived Neuroinflammation: a Novel Hallmark in Lafora Progressive Myoclonus Epilepsy That Progresses with Age. <i>Molecular Neurobiology</i> , 2020, 57, 1607-1621.	4.0	43
41	Oxidative stress regulates the ubiquitin ^Δ proteasome system and immunoproteasome functioning in a mouse model of X-adrenoleukodystrophy. <i>Brain</i> , 2013, 136, 891-904.	7.6	39
42	Autophagy induction halts axonal degeneration in a mouse model of X-adrenoleukodystrophy. <i>Acta Neuropathologica</i> , 2015, 129, 399-415.	7.7	39
43	Increased Oxidative Stress and Impaired Antioxidant Response in Lafora Disease. <i>Molecular Neurobiology</i> , 2015, 51, 932-946.	4.0	39
44	The phosphatase activity of laforin is dispensable to rescue <i>Epm2a^Δ/Δ</i> mice from Lafora disease. <i>Brain</i> , 2014, 137, 806-818.	7.6	38
45	Lafora Disease: A Ubiquitination-Related Pathology. <i>Cells</i> , 2018, 7, 87.	4.1	38
46	Proteasome location. <i>Current Biology</i> , 1993, 3, 127-129.	3.9	36
47	Immunohistochemical localization of glutamate dehydrogenase in rat liver: plasticity of distribution during development and with hormone treatment.. <i>Journal of Histochemistry and Cytochemistry</i> , 1988, 36, 41-47.	2.5	31
48	Impaired autophagy in Lafora disease. <i>Autophagy</i> , 2010, 6, 991-993.	9.1	30
49	CERKL, a Retinal Disease Gene, Encodes an mRNA-Binding Protein That Localizes in Compact and Untranslated mRNPs Associated with Microtubules. <i>PLoS ONE</i> , 2014, 9, e87898.	2.5	30
50	Electron microscopic localization of glutamate dehydrogenase in rat liver mitochondria by an immunogold procedure and monoclonal and polyclonal antibodies.. <i>Journal of Histochemistry and Cytochemistry</i> , 1986, 34, 913-922.	2.5	29
51	Regulation of Mitochondrial Protein Concentration: A Plausible Model Which May Permit Assessing Protein Turnover. <i>Current Topics in Cellular Regulation</i> , 1985, 27, 387-396.	9.6	29
52	Mechanisms of autophagy and apoptosis: Recent developments in breast cancer cells. <i>World Journal of Biological Chemistry</i> , 2011, 2, 232.	4.3	29
53	Fate of proteins synthesized in mitochondria of cultured mammalian cells revealed by electron microscope radioautography. <i>Experimental Cell Research</i> , 1980, 125, 191-199.	2.6	28
54	Oxidative stress, a new hallmark in the pathophysiology of Lafora progressive myoclonus epilepsy. <i>Free Radical Biology and Medicine</i> , 2015, 88, 30-41.	2.9	28

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55	Ca ²⁺ -dependent Sensor Proteins in the Autophagic and Endocytic Traffic. <i>Current Protein and Peptide Science</i> , 2013, 14, 97-110.	1.4	26
56	Immunoferritin location of carbamoyl phosphate synthetase in rat liver.. <i>Journal of Histochemistry and Cytochemistry</i> , 1979, 27, 975-981.	2.5	25
57	New Ca ²⁺ -dependent regulators of autophagosome maturation. <i>Communicative and Integrative Biology</i> , 2012, 5, 308-311.	1.4	25
58	Differences in the half-lives of some mitochondrial rat liver enzymes may derive partially from hepatocyte heterogeneity. <i>FEBS Letters</i> , 1987, 224, 182-186.	2.8	24
59	BRCA1 negatively regulates formation of autophagic vacuoles in MCF-7 breast cancer cells. <i>Experimental Cell Research</i> , 2010, 316, 2618-2629.	2.6	24
60	Chaperonopathies: Spotlight on Hereditary Motor Neuropathies. <i>Frontiers in Molecular Biosciences</i> , 2016, 3, 81.	3.5	24
61	A newly distal hereditary motor neuropathy caused by a rare AIFM1 mutation. <i>Neurogenetics</i> , 2017, 18, 245-250.	1.4	24
62	Defective Expression of the Mitochondrial-tRNA Modifying Enzyme GTPBP3 Triggers AMPK-Mediated Adaptive Responses Involving Complex I Assembly Factors, Uncoupling Protein 2, and the Mitochondrial Pyruvate Carrier. <i>PLoS ONE</i> , 2015, 10, e0144273.	2.5	23
63	Degradation of altered mitochondria by autophagy is impaired in Lafora disease. <i>FEBS Journal</i> , 2018, 285, 2071-2090.	4.7	22
64	A Rapid Procedure Suitable to Assess Quantitatively the Endocytosis of Colloidal Gold and Its Conjugates in Cultured Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 1998, 46, 1199-1201.	2.5	21
65	Malin knockout mice support a primary role of autophagy in the pathogenesis of Lafora disease. <i>Autophagy</i> , 2012, 8, 701-703.	9.1	21
66	Regulation of the autophagic PI3KC3 complex by laforin/malin E3-ubiquitin ligase, two proteins involved in Lafora disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118613.	4.1	20
67	Analysis by flow cytometry of rat hepatocytes from different acinar zones. <i>Biochemical and Biophysical Research Communications</i> , 1987, 147, 535-541.	2.1	19
68	Autophagy of mitochondria in rat liver assessed by immunogold procedures.. <i>Journal of Histochemistry and Cytochemistry</i> , 1988, 36, 1433-1440.	2.5	19
69	The Precursor of Rat Liver Mitochondrial Glutamate Dehydrogenase has Enzymatic Activity. <i>FEBS Journal</i> , 1983, 133, 641-644.	0.2	17
70	Use of Inductively Coupled Plasma-Mass Spectrometry for the Quantitation of the Binding and Uptake of Colloidal Gold-Low-Density Lipoprotein Conjugates by Cultured Cells. <i>Analytical Biochemistry</i> , 1996, 243, 210-217.	2.4	16
71	Electrothermal Atomic Absorption Spectrometric Diagnosis of Familial Hypercholesterolemia. <i>Analytical Chemistry</i> , 2000, 72, 2406-2413.	6.5	16
72	Turnover of rat liver ornithine transcarbamylase. <i>FEBS Letters</i> , 1986, 208, 427-430.	2.8	15

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73	Regulation of various proteolytic pathways by insulin and amino acids in human fibroblasts. FEBS Letters, 2007, 581, 3415-3421.	2.8	15
74	Lafora disease fibroblasts exemplify the molecular interdependence between thioredoxin 1 and the proteasome in mammalian cells. Free Radical Biology and Medicine, 2013, 65, 347-359.	2.9	14
75	Identification of lysosomal Npc1-binding proteins: Cathepsin D activity is regulated by NPC1. Proteomics, 2016, 16, 150-158.	2.2	14
76	Effects of different fixative solutions on labeling of Concanavalin-A receptor sites in human T-lymphocytes. Histochemistry, 1981, 71, 559-565.	1.9	13
77	A single point mutation in the low-density lipoprotein receptor switches the degradation of its mature protein from the proteasome to the lysosome. International Journal of Biochemistry and Cell Biology, 2006, 38, 1340-1351.	2.8	13
78	Isolation of Lysosomes from Mammalian Tissues and Cultured Cells. Methods in Molecular Biology, 2016, 1449, 299-311.	0.9	12
79	Exit of proteins and fragments thereof from mitochondria is accelerated by the import of cytosolic synthesized proteins. Biochemical and Biophysical Research Communications, 1983, 113, 199-204.	2.1	11
80	Clearance of a Hirano body-like F-actin aggresome generated by jasplakinolide. Autophagy, 2008, 4, 717-720.	9.1	11
81	Degradation of short-lived proteins is decreased by centrifugation. FEBS Letters, 1982, 150, 473-476.	2.8	9
82	The reduction-oxidation status may influence the degradation of glyceraldehyde-3-phosphate dehydrogenase. FEBS Letters, 1986, 206, 339-342.	2.8	9
83	Levels of carbamoyl phosphate synthetase I in livers of young and old rats assessed by activity and immunoassays and by electron microscopic immunogold procedures.. Journal of Histochemistry and Cytochemistry, 1990, 38, 371-376.	2.5	9
84	2,3-bisphosphoglycerate protects mitochondrial and cytosolic proteins from proteolytic inactivation. Biochemical and Biophysical Research Communications, 1987, 142, 680-687.	2.1	7
85	Pathways for the Degradation of Intracellular Proteins Within Lysosomes in Higher Eukaryotes. Advances in Molecular and Cell Biology, 1998, 27, 201-234.	0.1	7
86	Hydrogen Sulfide Improves Cardiomyocyte Function in a Cardiac Arrest Model. Annals of Transplantation, 2017, 22, 285-295.	0.9	7
87	Homogeneity among mitochondria revealed by a constant proportion of their enzymes. Histochemistry, 1984, 80, 359-362.	1.9	6
88	Protein degradation in human T-lymphocytes. Experientia, 1981, 37, 456-457.	1.2	5
89	Monoclonal antibodies used in immunocytochemical localization by electron microscopy of carbamoyl phosphate synthetase I in liver from rats fed high-protein diets.. Journal of Histochemistry and Cytochemistry, 1987, 35, 897-907.	2.5	5
90	The mitochondrial probe rhodamine 123 inhibits in isolated hepatocytes the degradation of short-lived proteins. FEBS Letters, 1988, 233, 259-262.	2.8	5

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91	Acidic cytosolic proteins are preferentially imported into rat liver lysosomes. Electrophoresis, 1997, 18, 2638-2644.	2.4	5
92	A Comparative Study of Complex Mitochondrial DNA in Human Lymphocytes Transformed by Epstein-Barr Virus and PHA. Acta Haematologica, 1982, 68, 96-104.	1.4	4
93	Increased oxidative stress and impaired antioxidant response in Lafora disease. Free Radical Biology and Medicine, 2014, 75, S47.	2.9	4
94	2,3-Bisphosphoglycerate inhibits ATP-stimulated proteolysis. FEBS Letters, 1987, 221, 231-235.	2.8	3
95	Immunocytochemical localization of the multicatalytic proteinase in rat liver and in L-132 cells. Biochemical Society Transactions, 1991, 19, 293S-293S.	3.4	3
96	Efficient selection of silenced primary cells by flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 599-604.	1.5	3
97	Effects of centrifugation on the degradation of short-lived proteins in exponentially growing cultured cells. Experimental Cell Research, 1989, 182, 307-320.	2.6	2
98	Regulation of Autophagy by Amino Acid Starvation Involving Ca ²⁺ . , 2015, , 69-79.		2
99	Endocytosis of liposomes containing lysosomal proteins increases intracellular protein degradation in growing L-132 cells. FEBS Journal, 1990, 188, 99-109.	0.2	1
100	Cooperation of lysosomes and inner mitochondrial membrane in the degradation of carbamoyl phosphate synthetase and other proteins. Biochimica Et Biophysica Acta - General Subjects, 1990, 1034, 268-274.	2.4	1
101	Regulatory mechanisms of intracellular proteolysis in mammalian cells. Biomedica Biochimica Acta, 1986, 45, 1575-83.	0.1	1
102	Erwin Knechtâ€™the intelligent and mad, funny and grumpy man of autophagy. Autophagy, 2022, 18, 711-725.	9.1	0