

Douglas R Cavener

List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/3141704/publications.pdf](https://exaly.com/author-pdf/3141704/publications.pdf)

Version: 2024-02-01

88
papers

10,694
citations

49802

46
h-index

49007

88
g-index

101
all docs

101
docs citations

101
times ranked

13067
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of the consensus sequence flanking translational start sites in <i>Drosophila</i> and vertebrates. <i>Nucleic Acids Research</i> , 1987, 15, 1353-1361.	14.0	1,068
2	The Combined Effects of Tryptophan Starvation and Tryptophan Catabolites Down-Regulate T Cell Receptor ζ -Chain and Induce a Regulatory Phenotype in Naïve T Cells. <i>Journal of Immunology</i> , 2006, 176, 6752-6761.	0.8	965
3	Eukaryotic start and stop translation sites. <i>Nucleic Acids Research</i> , 1991, 19, 3185-3192.	14.0	631
4	The PERK Eukaryotic Initiation Factor 2 α Kinase Is Required for the Development of the Skeletal System, Postnatal Growth, and the Function and Viability of the Pancreas. <i>Molecular and Cellular Biology</i> , 2002, 22, 3864-3874.	2.5	546
5	Suppression of eIF2 α kinases alleviates Alzheimer's disease-related plasticity and memory deficits. <i>Nature Neuroscience</i> , 2013, 16, 1299-1305.	14.5	498
6	Activating Transcription Factor 3 Is Integral to the Eukaryotic Initiation Factor 2 Kinase Stress Response. <i>Molecular and Cellular Biology</i> , 2004, 24, 1365-1377.	2.5	444
7	The GCN2 eIF2 α Kinase Is Required for Adaptation to Amino Acid Deprivation in Mice. <i>Molecular and Cellular Biology</i> , 2002, 22, 6681-6688.	2.5	401
8	Phosphorylation of the β Subunit of Eukaryotic Initiation Factor 2 Is Required for Activation of NF- κ B in Response to Diverse Cellular Stresses. <i>Molecular and Cellular Biology</i> , 2003, 23, 5651-5663.	2.5	396
9	Mutations in GLIS3 are responsible for a rare syndrome with neonatal diabetes mellitus and congenital hypothyroidism. <i>Nature Genetics</i> , 2006, 38, 682-687.	20.4	335
10	Uncharged tRNA and Sensing of Amino Acid Deficiency in Mammalian Piriform Cortex. <i>Science</i> , 2005, 307, 1776-1778.	20.9	293
11	Translational Control and the Unfolded Protein Response. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 2357-2372.	5.5	273
12	A Mammalian Homologue of GCN2 Protein Kinase Important for Translational Control by Phosphorylation of Eukaryotic Initiation Factor-2 α . <i>Genetics</i> , 2000, 154, 787-801.	2.9	253
13	GMC oxidoreductases. <i>Journal of Molecular Biology</i> , 1992, 223, 811-814.	4.3	252
14	PERK EIF2AK3 control of pancreatic β cell differentiation and proliferation is required for postnatal glucose homeostasis. <i>Cell Metabolism</i> , 2006, 4, 491-497.	15.8	252
15	The GCN2 eIF2 α Kinase Regulates Fatty-Acid Homeostasis in the Liver during Deprivation of an Essential Amino Acid. <i>Cell Metabolism</i> , 2007, 5, 103-114.	15.8	248
16	PERK-dependent regulation of lipogenesis during mouse mammary gland development and adipocyte differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16314-16319.	7.6	234
17	Endoplasmic Reticulum Stress Response Mediated by the PERK-eIF2 α -ATF4 Pathway Is Involved in Osteoblast Differentiation Induced by BMP2. <i>Journal of Biological Chemistry</i> , 2011, 286, 4809-4818.	3.5	234
18	Brain ischemia and reperfusion activates the eukaryotic initiation factor 2 α kinase, PERK. <i>Journal of Neurochemistry</i> , 2001, 77, 1418-1421.	4.0	212

#	ARTICLE	IF	CITATIONS
19	Preservation of Liver Protein Synthesis during Dietary Leucine Deprivation Occurs at the Expense of Skeletal Muscle Mass in Mice Deleted for eIF2 Kinase GCN2. <i>Journal of Biological Chemistry</i> , 2004, 279, 36553-36561.	3.5	194
20	Brain-Specific Disruption of the eIF2 Kinase PERK Decreases ATF4 Expression and Impairs Behavioral Flexibility. <i>Cell Reports</i> , 2012, 1, 676-688.	6.3	131
21	PERK (eIF2 Kinase) is required to activate the stress-activated MAPKs and induce the expression of immediate-early genes upon disruption of ER calcium homeostasis. <i>Biochemical Journal</i> , 2006, 393, 201-209.	3.8	129
22	PERK (EIF2AK3) Regulates Proinsulin Trafficking and Quality Control in the Secretory Pathway. <i>Diabetes</i> , 2010, 59, 1937-1947.	0.9	119
23	PERK is essential for neonatal skeletal development to regulate osteoblast proliferation and differentiation. <i>Journal of Cellular Physiology</i> , 2008, 217, 693-707.	4.2	111
24	Proinsulin Disulfide Maturation and Misfolding in the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2005, 280, 13209-13212.	3.5	99
25	Tryptophan catabolism generates autoimmune-preventive regulatory T cells. <i>Transplant Immunology</i> , 2006, 17, 58-60.	1.3	98
26	GCN2 Protein Kinase Is Required to Activate Amino Acid Deprivation Responses in Mice Treated with the Anti-cancer Agent L-Asparaginase. <i>Journal of Biological Chemistry</i> , 2009, 284, 32742-32749.	3.5	94
27	Endoplasmic Reticulum Stress Sensor Protein Kinase Like Endoplasmic Reticulum Kinase (PERK) Protects Against Pressure Overload Induced Heart Failure and Lung Remodeling. <i>Hypertension</i> , 2014, 64, 738-744.	5.2	94
28	Rapid Turnover of the mTOR Complex 1 (mTORC1) Repressor REDD1 and Activation of mTORC1 Signaling following Inhibition of Protein Synthesis. <i>Journal of Biological Chemistry</i> , 2008, 283, 3465-3475.	3.5	92
29	MULTIGENIC RESPONSE TO ETHANOL IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1981, 35, 1-10.	2.3	88
30	Insulin Secretion and Ca ²⁺ Dynamics in β -Cells Are Regulated by PERK (EIF2AK3) in Concert with Calcineurin. <i>Journal of Biological Chemistry</i> , 2013, 288, 33824-33836.	3.5	83
31	PERK eIF2 alpha kinase is required to regulate the viability of the exocrine pancreas in mice. <i>BMC Cell Biology</i> , 2007, 8, 38.	2.9	76
32	Repression of the eIF2 Kinase PERK alleviates mGluR-LTD impairments in a mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2016, 41, 19-24.	3.2	74
33	eIF2 Kinases GCN2 and PERK modulate transcription and translation of distinct sets of mRNAs in mouse liver. <i>Physiological Genomics</i> , 2009, 38, 328-341.	2.3	68
34	Preference for ethanol in <i>Drosophila melanogaster</i> associated with the alcohol dehydrogenase polymorphism. <i>Behavior Genetics</i> , 1979, 9, 359-365.	2.0	66
35	25-Hydroxycholesterol Activates the Integrated Stress Response to Reprogram Transcription and Translation in Macrophages. <i>Journal of Biological Chemistry</i> , 2013, 288, 35812-35823.	3.5	66
36	The PERK arm of the unfolded protein response regulates satellite cell-mediated skeletal muscle regeneration. <i>ELife</i> , 2017, 6, .	5.9	66

#	ARTICLE	IF	CITATIONS
37	PERK in beta cell biology and insulin biogenesis. Trends in Endocrinology and Metabolism, 2010, 21, 714-721.	7.0	62
38	The eIF2 γ kinase PERK limits the expression of hippocampal metabotropic glutamate receptor-dependent long-term depression. Learning and Memory, 2014, 21, 298-304.	1.4	62
39	PERK is responsible for the increased phosphorylation of eIF2 γ and the severe inhibition of protein synthesis after transient global brain ischemia. Journal of Neurochemistry, 2005, 94, 1235-1242.	4.0	61
40	Expansion and evolution of insect GMC oxidoreductases. BMC Evolutionary Biology, 2007, 7, 75.	3.1	59
41	Hyperthermia Induces the ER Stress Pathway. PLoS ONE, 2011, 6, e23740.	2.5	56
42	Isolation of the Gene Encoding the Drosophila melanogaster Homolog of the Saccharomyces cerevisiae GCN2 eIF-2 γ Kinase. Genetics, 1998, 149, 1495-1509.	2.9	56
43	Glucose dehydrogenase is required for normal sperm storage and utilization in female Drosophila melanogaster. Journal of Experimental Biology, 2004, 207, 675-681.	1.7	55
44	PERK Regulates the Proliferation and Development of Insulin-Secreting Beta-Cell Tumors in the Endocrine Pancreas of Mice. PLoS ONE, 2009, 4, e8008.	2.5	52
45	PERK eIF2 γ Kinase Regulates Neonatal Growth by Controlling the Expression of Circulating Insulin-Like Growth Factor-I Derived from the Liver. Endocrinology, 2003, 144, 3505-3513.	2.8	51
46	Giraffe genome sequence reveals clues to its unique morphology and physiology. Nature Communications, 2016, 7, 11519.	13.2	49
47	A REHABILITATION OF THE GENETIC MAP OF THE 84B-D REGION IN <i>DROSOPHILA MELANOGASTER</i> . Genetics, 1986, 114, 111-123.	2.9	49
48	Acute ablation of PERK results in ER dysfunctions followed by reduced insulin secretion and cell proliferation. BMC Cell Biology, 2009, 10, 61.	2.9	48
49	Genetic inactivation of PERK signaling in mouse oligodendrocytes: Normal developmental myelination with increased susceptibility to inflammatory demyelination. Glia, 2014, 62, 680-691.	5.3	45
50	Genetics of male-specific glucose oxidase and the identification of other unusual hexose enzymes in Drosophila melanogaster. Biochemical Genetics, 1980, 18, 929-937.	1.8	40
51	Ecdysteroid regulation of glucose dehydrogenase and alcohol dehydrogenase gene expression in Drosophila melanogaster. Developmental Biology, 1989, 135, 66-73.	2.1	39
52	Heat Shock Effects on Phosphorylation of Protein Synthesis Initiation Factor Proteins eIF-4E and eIF-2.alpha. in Drosophila. Biochemistry, 1995, 34, 2985-2997.	2.6	38
53	THE RESPONSE OF ENZYME POLYMORPHISMS TO DEVELOPMENTAL RATE SELECTION IN <i>DROSOPHILA MELANOGASTER</i> . Genetics, 1983, 105, 105-113.	2.9	37
54	TEMPORAL STABILITY OF ALLOZYME FREQUENCIES IN A NATURAL POPULATION OF <i>DROSOPHILA MELANOGASTER</i> . Genetics, 1981, 98, 613-623.	2.9	36

#	ARTICLE	IF	CITATIONS
55	The <i>Drosophila melanogaster</i> stranded at second (<i>sas</i>) gene encodes a putative epidermal cell surface receptor required for larval development. <i>Developmental Biology</i> , 1992, 151, 431-445.	2.1	35
56	The protein kinase PERK/EIF2AK3 regulates proinsulin processing not via protein synthesis but by controlling endoplasmic reticulum chaperones. <i>Journal of Biological Chemistry</i> , 2018, 293, 5134-5149.	3.5	34
57	Transgenic animal studies on the evolution of genetic regulatory circuitries. <i>BioEssays</i> , 1992, 14, 237-244.	2.6	33
58	Ablation of <i>Perk</i> in Schwann Cells Improves Myelination in the S63del Charcot-Marie-Tooth 1B Mouse. <i>Journal of Neuroscience</i> , 2016, 36, 11350-11361.	3.8	26
59	Correlated evolution of the cis-acting regulatory elements and developmental expression of the <i>Drosophila Gld</i> gene in seven species from the subgroup <i>melanogaster</i> . <i>Genesis</i> , 1994, 15, 38-50.	2.6	24
60	Ribosome binding protein GCN1 ^Δ regulates the cell cycle and cell proliferation and is essential for the embryonic development of mice. <i>PLoS Genetics</i> , 2020, 16, e1008693.	3.4	24
61	Multigenic Response to Ethanol in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1981, 35, 1.	2.3	20
62	Organ-specific patterns of gene expression in the reproductive tract of <i>Drosophila</i> are regulated by the sex-determination genes. <i>Developmental Biology</i> , 1991, 146, 451-460.	2.1	19
63	<i>Perk</i> Gene Dosage Regulates Glucose Homeostasis by Modulating Pancreatic β -Cell Functions. <i>PLoS ONE</i> , 2014, 9, e99684.	2.5	19
64	PERK Regulates Working Memory and Protein Synthesis-Dependent Memory Flexibility. <i>PLoS ONE</i> , 2016, 11, e0162766.	2.5	19
65	Isolation and characterization of the <i>Drosophila melanogaster</i> <i>eIF-2α</i> gene encoding the alpha subunit of translation initiation factor eIF-2. <i>Gene</i> , 1994, 140, 239-242.	2.3	17
66	PERK regulates Gq protein-coupled intracellular Ca ²⁺ dynamics in primary cortical neurons. <i>Molecular Brain</i> , 2016, 9, 87.	3.0	17
67	Seeing spots: quantifying mother-offspring similarity and assessing fitness consequences of coat pattern traits in a wild population of giraffes (<i>Giraffa camelopardalis</i>). <i>PeerJ</i> , 2018, 6, e5690.	2.0	17
68	Combinatorial control of structural genes in <i>Drosophila</i> : Solutions that work for the animal. <i>BioEssays</i> , 1987, 7, 103-107.	2.6	14
69	Isolation and characterization of the <i>Drosophila melanogaster</i> gene encoding translation-initiation factor <i>eIF-2β</i> . <i>Gene</i> , 1994, 142, 271-274.	2.3	14
70	Genetic connectivity and population structure of African savanna elephants (<i>Loxodonta</i>). <i>Evolution</i> , 2019, 73, 1422-1432.	1.9	14
71	Detection of estrogen receptor mRNA in human uterus. <i>Molecular and Cellular Endocrinology</i> , 1987, 52, 235-242.	3.3	12
72	Complex Organization of Promoter and Enhancer Elements Regulate the Tissue- and Developmental Stage-Specific Expression of the <i>Drosophila melanogaster Gld</i> Gene. <i>Genetics</i> , 2001, 157, 699-715.	2.9	12

#	ARTICLE	IF	CITATIONS
73	Tissue-specific regulatory elements of the <i>Drosophila</i> Gld gene. <i>Mechanisms of Development</i> , 1993, 42, 3-13.	1.7	10
74	GCN2 in the Brain Programs PPAR β and Triglyceride Storage in the Liver during Perinatal Development in Response to Maternal Dietary Fat. <i>PLoS ONE</i> , 2013, 8, e75917.	2.5	10
75	Evolutionary analysis of vision genes identifies potential drivers of visual differences between giraffe and okapi. <i>PeerJ</i> , 2017, 5, e3145.	2.0	9
76	The YYRR box: a conserved dipyrimidine-dipurine sequence element in <i>Drosophila</i> and other eukaryotes. <i>Nucleic Acids Research</i> , 1988, 16, 3375-3390.	14.0	7
77	Evolution of Developmental Regulation. <i>American Naturalist</i> , 1989, 134, 459-473.	2.2	7
78	Dynamics of Correlated Genetic Systems. VII. Demographic Aspects of Sex-Linked Transmission. <i>American Naturalist</i> , 1982, 120, 108-118.	2.2	6
79	Sleeping Beauty, Awake! Regulation of Insulin Gene Expression by Methylation of Histone H3. <i>Diabetes</i> , 2009, 58, 28-29.	0.9	4
80	Masai giraffe population change over 40 years in Arusha National Park. <i>African Journal of Ecology</i> , 2023, 61, 345-353.	0.9	4
81	A Somatic Reproductive Organ Enhancer Complex Activates Expression in both the Developing and the Mature <i>Drosophila</i> Reproductive Tract. <i>Developmental Biology</i> , 1996, 180, 311-323.	2.1	3
82	Calcineurin Activity Is Increased in Charcot-Marie-Tooth 1B Demyelinating Neuropathy. <i>Journal of Neuroscience</i> , 2021, 41, 4536-4548.	3.8	3
83	Co-opting regulation bypass repair as a gene-correction strategy for monogenic diseases. <i>Molecular Therapy</i> , 2021, 29, 3274-3292.	8.1	2
84	Genetic evidence of population subdivision among Masai giraffes separated by the Gregory Rift Valley in Tanzania. <i>Ecology and Evolution</i> , 2023, 13, .	1.9	2
85	Using spot pattern recognition to examine population biology, evolutionary ecology, sociality, and movements of giraffes: a 70-year retrospective. <i>Mammalian Biology</i> , 2022, 102, 1055-1071.	1.5	1
86	The Developmental Genetic Basis of Organismal Evolution. <i>Evolution; International Journal of Organic Evolution</i> , 1983, 37, 1321.	2.3	0
87	Isolation of genes encoding proteins of immunological importance. <i>Methods in Enzymology</i> , 1987, 150, 746-754.	1.7	0
88	Sexual dimorphisms in body proportions of Masai giraffes and the evolution of the giraffe's neck. <i>Mammalian Biology</i> , 0, , .	1.5	0