

Douglas R Cavener

List of Publications by Year in descending order

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92
papers

10,489
citations

50276

46
h-index

51608

86
g-index

95
all docs

95
docs citations

95
times ranked

12146
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.	14.5	1,064
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	943
3	Eukaryotic start and stop translation sites. <i>Nucleic Acids Research</i> , 1991, 19, 3185-3192.	14.5	631
4	The PERK Eukaryotic Initiation Factor 2 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.	2.3	537
5	Suppression of eIF2 ζ kinases alleviates Alzheimer's disease-related plasticity and memory deficits. <i>Nature Neuroscience</i> , 2013, 16, 1299-1305.	14.8	486
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.	2.3	436
7	The GCN2 eIF2 ζ Kinase Is Required for Adaptation to Amino Acid Deprivation in Mice. <i>Molecular and Cellular Biology</i> , 2002, 22, 6681-6688.	2.3	395
8	Phosphorylation of the ζ 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.	2.3	390
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.	21.4	327
10	Uncharged tRNA and Sensing of Amino Acid Deficiency in Mammalian Piriform Cortex. <i>Science</i> , 2005, 307, 1776-1778.	12.6	287
11	Translational Control and the Unfolded Protein Response. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 2357-2372.	5.4	268
12	A Mammalian Homologue of GCN2 Protein Kinase Important for Translational Control by Phosphorylation of Eukaryotic Initiation Factor-2 ζ . <i>Genetics</i> , 2000, 154, 787-801.	2.9	251
13	PERK EIF2AK3 control of pancreatic β cell differentiation and proliferation is required for postnatal glucose homeostasis. <i>Cell Metabolism</i> , 2006, 4, 491-497.	16.2	247
14	GMC oxidoreductases. <i>Journal of Molecular Biology</i> , 1992, 223, 811-814.	4.2	245
15	The GCN2 eIF2 ζ Kinase Regulates Fatty-Acid Homeostasis in the Liver during Deprivation of an Essential Amino Acid. <i>Cell Metabolism</i> , 2007, 5, 103-114.	16.2	243
16	Endoplasmic Reticulum Stress Response Mediated by the PERK-eIF2 ζ -ATF4 Pathway Is Involved in Osteoblast Differentiation Induced by BMP2. <i>Journal of Biological Chemistry</i> , 2011, 286, 4809-4818.	3.4	229
17	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.	7.1	228
18	Brain ischemia and reperfusion activates the eukaryotic initiation factor 2 ζ kinase, PERK. <i>Journal of Neurochemistry</i> , 2001, 77, 1418-1421.	3.9	209

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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.	3.4	191
20	PERK (eIF2 α 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.	3.7	126
21	Brain-Specific Disruption of the eIF2 α Kinase PERK Decreases ATF4 Expression and Impairs Behavioral Flexibility. <i>Cell Reports</i> , 2012, 1, 676-688.	6.4	126
22	PERK (EIF2AK3) Regulates Proinsulin Trafficking and Quality Control in the Secretory Pathway. <i>Diabetes</i> , 2010, 59, 1937-1947.	0.6	116
23	PERK is essential for neonatal skeletal development to regulate osteoblast proliferation and differentiation. <i>Journal of Cellular Physiology</i> , 2008, 217, 693-707.	4.1	110
24	Proinsulin Disulfide Maturation and Misfolding in the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2005, 280, 13209-13212.	3.4	98
25	Tryptophan catabolism generates autoimmune-preventive regulatory T cells. <i>Transplant Immunology</i> , 2006, 17, 58-60.	1.2	97
26	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.	3.4	92
27	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.	3.4	90
28	MULTIGENIC RESPONSE TO ETHANOL IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1981, 35, 1-10.	2.3	87
29	Endoplasmic Reticulum Stress Sensor Protein Kinase α -Like Endoplasmic Reticulum Kinase (PERK) Protects Against Pressure Overload-Induced Heart Failure and Lung Remodeling. <i>Hypertension</i> , 2014, 64, 738-744.	2.7	86
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.	3.4	81
31	PERK eIF2 α kinase is required to regulate the viability of the exocrine pancreas in mice. <i>BMC Cell Biology</i> , 2007, 8, 38.	3.0	74
32	Repression of the eIF2 α kinase PERK alleviates mGluR-LTD impairments in a mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2016, 41, 19-24.	3.1	70
33	Preference for ethanol in <i>Drosophila melanogaster</i> associated with the alcohol dehydrogenase polymorphism. <i>Behavior Genetics</i> , 1979, 9, 359-365.	2.1	66
34	eIF2 α 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	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.	3.4	64
36	The PERK arm of the unfolded protein response regulates satellite cell-mediated skeletal muscle regeneration. <i>ELife</i> , 2017, 6, .	6.0	63

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37	Genomic DNA analysis of the estrogen receptor gene in breast cancer. <i>Breast Cancer Research and Treatment</i> , 1989, 14, 57-64.	2.5	62
38	PERK is responsible for the increased phosphorylation of eIF2 β and the severe inhibition of protein synthesis after transient global brain ischemia. <i>Journal of Neurochemistry</i> , 2005, 94, 1235-1242.	3.9	61
39	PERK in beta cell biology and insulin biogenesis. <i>Trends in Endocrinology and Metabolism</i> , 2010, 21, 714-721.	7.1	61
40	The eIF2 β kinase PERK limits the expression of hippocampal metabotropic glutamate receptor-dependent long-term depression. <i>Learning and Memory</i> , 2014, 21, 298-304.	1.3	60
41	Expansion and evolution of insect GMC oxidoreductases. <i>BMC Evolutionary Biology</i> , 2007, 7, 75.	3.2	58
42	Isolation of the Gene Encoding the <i>Drosophila melanogaster</i> Homolog of the <i>Saccharomyces cerevisiae</i> GCN2 eIF-2 β Kinase. <i>Genetics</i> , 1998, 149, 1495-1509.	2.9	56
43	Glucose dehydrogenase is required for normal sperm storage and utilization in female <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 675-681.	1.7	53
44	Hyperthermia Induces the ER Stress Pathway. <i>PLoS ONE</i> , 2011, 6, e23740.	2.5	53
45	PERK eIF2 β Kinase Regulates Neonatal Growth by Controlling the Expression of Circulating Insulin-Like Growth Factor-I Derived from the Liver. <i>Endocrinology</i> , 2003, 144, 3505-3513.	2.8	50
46	PERK Regulates the Proliferation and Development of Insulin-Secreting Beta-Cell Tumors in the Endocrine Pancreas of Mice. <i>PLoS ONE</i> , 2009, 4, e8008.	2.5	50
47	A REHABILITATION OF THE GENETIC MAP OF THE 84B-D REGION IN <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , 1986, 114, 111-123.	2.9	49
48	Giraffe genome sequence reveals clues to its unique morphology and physiology. <i>Nature Communications</i> , 2016, 7, 11519.	12.8	47
49	Acute ablation of PERK results in ER dysfunctions followed by reduced insulin secretion and cell proliferation. <i>BMC Cell Biology</i> , 2009, 10, 61.	3.0	46
50	Genetic inactivation of PERK signaling in mouse oligodendrocytes: Normal developmental myelination with increased susceptibility to inflammatory demyelination. <i>Glia</i> , 2014, 62, 680-691.	4.9	42
51	Genetics of male-specific glucose oxidase and the identification of other unusual hexose enzymes in <i>Drosophila melanogaster</i> . <i>Biochemical Genetics</i> , 1980, 18, 929-937.	1.7	40
52	Ecdysteroid regulation of glucose dehydrogenase and alcohol dehydrogenase gene expression in <i>Drosophila melanogaster</i> . <i>Developmental Biology</i> , 1989, 135, 66-73.	2.0	39
53	Heat Shock Effects on Phosphorylation of Protein Synthesis Initiation Factor Proteins eIF-4E and eIF-2.alpha. in <i>Drosophila</i> . <i>Biochemistry</i> , 1995, 34, 2985-2997.	2.5	37
54	THE RESPONSE OF ENZYME POLYMORPHISMS TO DEVELOPMENTAL RATE SELECTION IN <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , 1983, 105, 105-113.	2.9	37

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55	TEMPORAL STABILITY OF ALLOZYME FREQUENCIES IN A NATURAL POPULATION OF <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , 1981, 98, 613-623.	2.9	36
56	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.	2.0	35
57	Transgenic animal studies on the evolution of genetic regulatory circuitries. <i>BioEssays</i> , 1992, 14, 237-244.	2.5	33
58	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.	3.4	33
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.	2.1	24
60	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.	3.6	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	Ribosome binding protein GCN1 regulates the cell cycle and cell proliferation and is essential for the embryonic development of mice. <i>PLoS Genetics</i> , 2020, 16, e1008693.	3.5	20
63	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.	2.0	19
64	<i>Perk</i> Gene Dosage Regulates Glucose Homeostasis by Modulating Pancreatic β -Cell Functions. <i>PLoS ONE</i> , 2014, 9, e99684.	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.	2.2	17
66	PERK Regulates Working Memory and Protein Synthesis-Dependent Memory Flexibility. <i>PLoS ONE</i> , 2016, 11, e0162766.	2.5	17
67	PERK regulates Gq protein-coupled intracellular Ca ²⁺ dynamics in primary cortical neurons. <i>Molecular Brain</i> , 2016, 9, 87.	2.6	16
68	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	15
69	Combinatorial control of structural genes in <i>Drosophila</i> : Solutions that work for the animal. <i>BioEssays</i> , 1987, 7, 103-107.	2.5	14
70	Isolation and characterization of the <i>Drosophila melanogaster</i> gene encoding translation-initiation factor eIF-2 β . <i>Gene</i> , 1994, 142, 271-274.	2.2	14
71	Genetic connectivity and population structure of African savanna elephants (<i>Loxodonta africana</i>) in Tanzania. <i>Ecology and Evolution</i> , 2020, 10, 11069-11089.	1.9	13
72	Detection of estrogen receptor mRNA in human uterus. <i>Molecular and Cellular Endocrinology</i> , 1987, 52, 235-242.	3.2	12

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73	Complex Organization of Promoter and Enhancer Elements Regulate the Tissue- and Developmental Stage-Specific Expression of the <i>Drosophila melanogaster</i> <i>Gld</i> Gene. <i>Genetics</i> , 2001, 157, 699-715.	2.9	12
74	Tissue-specific regulatory elements of the <i>Drosophila</i> <i>Gld</i> gene. <i>Mechanisms of Development</i> , 1993, 42, 3-13.	1.7	10
75	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
76	Evolutionary analysis of vision genes identifies potential drivers of visual differences between giraffe and okapi. <i>PeerJ</i> , 2017, 5, e3145.	2.0	9
77	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.	14.5	7
78	Evolution of Developmental Regulation. <i>American Naturalist</i> , 1989, 134, 459-473.	2.1	7
79	Dynamics of Correlated Genetic Systems. VII. Demographic Aspects of Sex-Linked Transmission. <i>American Naturalist</i> , 1982, 120, 108-118.	2.1	6
80	Sleeping Beauty, Awake! Regulation of Insulin Gene Expression by Methylation of Histone H3. <i>Diabetes</i> , 2009, 58, 28-29.	0.6	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.	2.0	3
82	Calcineurin Activity Is Increased in Charcot-Marie-Tooth 1B Demyelinating Neuropathy. <i>Journal of Neuroscience</i> , 2021, 41, 4536-4548.	3.6	3
83	Chronic granulomatous disease. <i>Nature</i> , 1987, 325, 21-21.	27.8	2
84	Co-opting regulation bypass repair as a gene-correction strategy for monogenic diseases. <i>Molecular Therapy</i> , 2021, 29, 3274-3292.	8.2	2
85	Response of the <i>G6pd</i> and <i>6Pgd</i> polymorphisms in <i>Drosophila melanogaster</i> to dietary selection. <i>Genetica</i> , 1984, 63, 81-83.	1.1	1
86	The Developmental Genetic Basis of Organismal Evolution. <i>Evolution; International Journal of Organic Evolution</i> , 1983, 37, 1321.	2.3	0
87	THE DEVELOPMENTAL GENETIC BASIS OF ORGANISMAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 1983, 37, 1321-1322.	2.3	0
88	Isolation of genes encoding proteins of immunological importance. <i>Methods in Enzymology</i> , 1987, 150, 746-754.	1.0	0
89	Title is missing!. , 2020, 16, e1008693.		0
90	Title is missing!. , 2020, 16, e1008693.		0

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91	Title is missing!. , 2020, 16, e1008693.		0
92	Title is missing!. , 2020, 16, e1008693.		0