

Barbara Triggs-Raine

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,919
citations

201575

27
h-index

175177

52
g-index

67
all docs

67
docs citations

67
times ranked

3353
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalases HPI and HPII in <i>Escherichia coli</i> are induced independently. <i>Archives of Biochemistry and Biophysics</i> , 1985, 243, 144-149.	1.4	257
2	Crystallographic Evidence for Substrate-assisted Catalysis in a Bacterial β -Hexosaminidase. <i>Journal of Biological Chemistry</i> , 2001, 276, 10330-10337.	1.6	239
3	Mutations in HYAL1, a member of a tandemly distributed multigene family encoding disparate hyaluronidase activities, cause a newly described lysosomal disorder, mucopolysaccharidosis IX. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 6296-6300.	3.3	177
4	Cloning and physical characterization of <i>katE</i> and <i>katF</i> required for catalase HPII expression in <i>Escherichia coli</i> . <i>Gene</i> , 1988, 73, 337-345.	1.0	132
5	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 1997, 172, 67-79.	1.4	117
6	A Homallelic Gly317 \rightarrow Asp Mutation in ALPL Causes the Perinatal (Lethal) Form of Hypophosphatasia in Canadian Mennonites. <i>Genomics</i> , 1993, 17, 215-217.	1.3	114
7	HNF-1 β G319S, a transactivation-deficient mutant, is associated with altered dynamics of diabetes onset in an Oji-Cree community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4614-4619.	3.3	110
8	Diverse diseases from a ubiquitous process: The ribosomopathy paradox. <i>FEBS Letters</i> , 2014, 588, 1491-1500.	1.3	104
9	Mutation of a Gene Essential for Ribosome Biogenesis, <i>EMG1</i> , Causes Bowen-Conradi Syndrome. <i>American Journal of Human Genetics</i> , 2009, 84, 728-739.	2.6	103
10	GPSM2 Mutations Cause the Brain Malformations and Hearing Loss in Chudley-McCullough Syndrome. <i>American Journal of Human Genetics</i> , 2012, 90, 1088-1093.	2.6	103
11	Skeletal and hematological anomalies in HYAL2 β -deficient mice: a second type of mucopolysaccharidosis IX?. <i>FASEB Journal</i> , 2008, 22, 4316-4326.	0.2	91
12	A mouse model of human mucopolysaccharidosis IX exhibits osteoarthritis. <i>Human Molecular Genetics</i> , 2008, 17, 1904-1915.	1.4	90
13	Structural and Functional Characterization of <i>Streptomyces plicatus</i> β -N-Acetylhexosaminidase by Comparative Molecular Modeling and Site-directed Mutagenesis. <i>Journal of Biological Chemistry</i> , 1998, 273, 19618-19624.	1.6	72
14	Physical characterization of <i>katG</i> , encoding catalase HPI of <i>Escherichia coli</i> . <i>Gene</i> , 1987, 52, 121-128.	1.0	69
15	A complete deficiency of Hyaluronoglucosaminidase 1 (<i>HYAL1</i>) presenting as familial juvenile idiopathic arthritis. <i>Journal of Inherited Metabolic Disease</i> , 2011, 34, 1013-1022.	1.7	68
16	The Prevalence of the HNF-1 β G319S Mutation in Canadian Aboriginal Youth With Type 2 Diabetes. <i>Diabetes Care</i> , 2002, 25, 2202-2206.	4.3	67
17	Long-Term Correction of Sandhoff Disease Following Intravenous Delivery of rAAV9 to Mouse Neonates. <i>Molecular Therapy</i> , 2015, 23, 414-422.	3.7	64
18	Hyaluronidase 3 (HYAL3) knockout mice do not display evidence of hyaluronan accumulation. <i>Matrix Biology</i> , 2008, 27, 653-660.	1.5	62

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19	A G-to-T transversion at the +5 position of intron 1 in the glutaryl CoA dehydrogenase gene is associated with the island Lake variant of glutaric acidemia type I. <i>Human Molecular Genetics</i> , 1995, 4, 493-495.	1.4	61
20	Murine Hyaluronidase 2 Deficiency Results in Extracellular Hyaluronan Accumulation and Severe Cardiopulmonary Dysfunction. <i>Journal of Biological Chemistry</i> , 2013, 288, 520-528.	1.6	59
21	Biology of hyaluronan: Insights from genetic disorders of hyaluronan metabolism. <i>World Journal of Biological Chemistry</i> , 2015, 6, 110.	1.7	56
22	Mouse Hyal3 encodes a 45- to 56-kDa glycoprotein whose overexpression increases hyaluronidase 1 activity in cultured cells. <i>Glycobiology</i> , 2008, 18, 280-289.	1.3	49
23	Hyaluronidase 1 and β -Hexosaminidase Have Redundant Functions in Hyaluronan and Chondroitin Sulfate Degradation. <i>Journal of Biological Chemistry</i> , 2012, 287, 16689-16697.	1.6	44
24	Assignment of Growth Factor Receptor-Bound Protein 10 (GRB10) to Human Chromosome 7p11.2â€“p12. <i>Genomics</i> , 1997, 40, 215-216.	1.3	37
25	Characterization of the Murine Hyaluronidase Gene Region Reveals Complex Organization and Cotranscription of Hyal1 with Downstream Genes, Fus2 and Hyal3. <i>Journal of Biological Chemistry</i> , 2002, 277, 23008-23018.	1.6	37
26	Bitter taste receptor T2R14 detects quorum sensing molecules from cariogenic <i>Streptococcus mutans</i> and mediates innate immune responses in gingival epithelial cells. <i>FASEB Journal</i> , 2021, 35, e21375.	0.2	36
27	Serum lipids, plant sterols, and cholesterol kinetic responses to plant sterol supplementation in phytosterolemia heterozygotes and control individuals. <i>American Journal of Clinical Nutrition</i> , 2012, 95, 837-844.	2.2	35
28	Benign HEXA Mutations, C739T(R247W) and C745T(R249W), Cause β -Hexosaminidase A Pseudodeficiency by Reducing the α -Subunit Protein Levels. <i>Journal of Biological Chemistry</i> , 1997, 272, 14975-14982.	1.6	29
29	17. Naturally occurring mutations in GM2 gangliosidosis: A compendium. <i>Advances in Genetics</i> , 2001, 44, 199-224.	0.8	29
30	Hyaluronidase 2 Deficiency Causes Increased Mesenchymal Cells, Congenital Heart Defects, and Heart Failure. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .	5.1	26
31	Characterization of the murine β -hexosaminidase (HEXB) gene. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1994, 1227, 79-86.	1.8	22
32	The molecular basis of Tay-Sachs disease: Mutation identification and diagnosis. <i>Clinical Biochemistry</i> , 1990, 23, 409-415.	0.8	21
33	Hyaluronidase 2 (HYAL2) is expressed in endothelial cells, as well as some specialized epithelial cells, and is required for normal hyaluronan catabolism. <i>Histochemistry and Cell Biology</i> , 2016, 145, 53-66.	0.8	21
34	Mutations in HYAL2, Encoding Hyaluronidase 2, Cause a Syndrome of Orofacial Clefting and Cor Triatriatum Sinister in Humans and Mice. <i>PLoS Genetics</i> , 2017, 13, e1006470.	1.5	20
35	Structural Organization, Sequence, and Expression of the Mouse HEXA Gene Encoding the α Subunit of Hexosaminidase A. <i>Genomics</i> , 1994, 24, 110-119.	1.3	19
36	W474C amino acid substitution affects early processing of the α -subunit of β -hexosaminidase A and is associated with subacute GM2 gangliosidosis. , 1998, 11, 432-442.		18

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37	EMG1 is essential for mouse pre-implantation embryo development. BMC Developmental Biology, 2010, 10, 99.	2.1	18
38	Acidic hyaluronidase activity is present in mouse sperm and is reduced in the absence of SPAM1: Evidence for a role for hyaluronidase 3 in mouse and human sperm. Molecular Reproduction and Development, 2010, 77, 759-772.	1.0	16
39	Increase of a group of PTC+ transcripts by curcumin through inhibition of the NMD pathway. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 1104-1115.	0.9	16
40	Extracellular Superoxide Dismutase Regulates Early Vascular Hyaluronan Remodeling in Hypoxic Pulmonary Hypertension. Scientific Reports, 2020, 10, 280.	1.6	16
41	Evaluation of the Risk for Tay-Sachs Disease in Individuals of French Canadian Ancestry Living in New England. Clinical Chemistry, 2007, 53, 392-398.	1.5	13
42	The natural history of phytosterolemia: Observations on its homeostasis. Atherosclerosis, 2018, 269, 122-128.	0.4	13
43	SPAM1/HYAL5 double deficiency in male mice leads to severe male subfertility caused by a cumulus oocyte complex penetration defect. FASEB Journal, 2019, 33, 14440-14449.	0.2	13
44	Genotype-phenotype pitfalls in Gaucher disease. Journal of Clinical Laboratory Analysis, 1994, 8, 228-236.	0.9	12
45	A locus for Bowen-Conradi syndrome maps to chromosome region 12p13.3. American Journal of Medical Genetics, Part A, 2005, 132A, 136-143.	0.7	12
46	Prenatal exclusion of Tay-Sachs disease by DNA analysis. Lancet, The, 1990, 335, 1164.	6.3	11
47	Limb girdle muscular dystrophy in Manitoba Hutterites does not map to any of the known LGMD loci. , 1997, 72, 363-368.		11
48	The adult polyglucosan body disease mutation GBE1 c.1076A>C occurs at high frequency in persons of Ashkenazi Jewish background. Biochemical and Biophysical Research Communications, 2012, 426, 286-288.	1.0	11
49	Mutation of EMG1 causing Bowen-Conradi syndrome results in reduced cell proliferation rates concomitant with G2/M arrest and 18S rRNA processing delay. BBA Clinical, 2014, 1, 33-43.	4.1	11
50	An A-to-G Mutation at the +3-Position of Intron-8 of the HEXA Gene Is Associated with Exon 8 Skipping and Tay-Sachs Disease. Biochemical and Molecular Medicine, 1995, 55, 74-76.	1.5	10
51	Growth arrest in the ribosomopathy, Bowen-Conradi syndrome, is due to dramatically reduced cell proliferation and a defect in mitotic progression. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1029-1037.	1.8	10
52	PCR-based analysis of voltage-gated K+ channels in vascular smooth muscle. Molecular and Cellular Biochemistry, 1995, 145, 39-44.	1.4	9
53	Molecular basis of succinylcholine sensitivity in a prairie Hutterite kindred and genetic characterization of the region containing the BCHE gene. Molecular Genetics and Metabolism, 2007, 90, 210-216.	0.5	9
54	Hyal-1 but not hyal-3 deficiency has an impact on ovarian folliculogenesis and female fertility by altering the follistatin/activin/Smad3 pathway and the apoptotic process. Journal of Cellular Physiology, 2012, 227, 1911-1922.	2.0	9

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55	Hyaluronidase 2 deficiency is a molecular cause of cor triatriatum sinister in mice. International Journal of Cardiology, 2016, 209, 281-283.	0.8	8
56	Genotyping an immunodeficiency causing c.1624â€“11G>A ZAP70 mutation in Canadian Mennonites. BMC Medical Genetics, 2016, 17, 50.	2.1	7
57	Development of a diagnostic <sc>DNA</sc> chip to screen for 30 autosomal recessive disorders in the Hutterite population. Molecular Genetics & Genomic Medicine, 2016, 4, 312-321.	0.6	5
58	A novel mutation at the invariant acceptor splice site of intron 9 in theHEXA gene [IVS9-1 Gâ†T] detected by a PCR-based diagnostic test. Human Mutation, 1995, 5, 173-174.	1.1	4
59	The C. elegans hyaluronidase: A developmentally significant enzyme with chondroitin-degrading activity at both acidic and neutral pH. Matrix Biology, 2010, 29, 494-502.	1.5	4
60	An Aluâ” polymorphism in theHEXA gene is common in Ashkenazi and Sephardic Jews, Israeli Arabs, and French Canadians of Quebec and Northern New England. Human Mutation, 1995, 6, 89-90.	1.1	3
61	A novelHEXAmutation [1393G>A (D465N)] in a Mexican Tay-Sachs disease patient. Human Mutation, 2001, 17, 437-437.	1.1	3
62	Generation of prolactin-inducible protein (Pip) knockout mice by CRISPR/Cas9-mediated gene engineering. Canadian Journal of Physiology and Pharmacology, 2021, , 1-6.	0.7	3
63	GPSM2 Mutations Cause the Brain Malformations and Hearing Loss in Chudley-McCullough Syndrome. American Journal of Human Genetics, 2012, 91, 209.	2.6	2
64	A mouse model of human mucopolysaccharidosis IX exhibits osteoarthritis. Human Molecular Genetics, 2008, 17, 2919-2919.	1.4	0
65	The Natural History of Phytosterolemia: Observations on its Homeostasis. Atherosclerosis Supplements, 2018, 32, 31-32.	1.2	0
66	Elucidating the clinical spectrum and molecular basis of HYAL2 deficiency. Genetics in Medicine, 2022, 24, 631-644.	1.1	0