

Edna C Hardeman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7970808/publications.pdf>

Version: 2024-02-01

117
papers

7,074
citations

66343

42
h-index

62596

80
g-index

126
all docs

126
docs citations

126
times ranked

8537
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlative cryo-ET identifies actin/tropomyosin filaments that mediate cellâ€‘substrate adhesion in cancer cells and mechanosensitivity of cell proliferation. <i>Nature Materials</i> , 2022, 21, 120-128.	27.5	19
2	Induction of muscle-regenerative multipotent stem cells from human adipocytes by PDGF-AB and 5-azacytidine. <i>Science Advances</i> , 2021, 7, .	10.3	3
3	A robust method for particulate detection of a genetic tag for 3D electron microscopy. <i>ELife</i> , 2021, 10, .	6.0	16
4	Targeting the actin/tropomyosin cytoskeleton in epithelial ovarian cancer reveals multiple mechanisms of synergy with anti-microtubule agents. <i>British Journal of Cancer</i> , 2021, 125, 265-276.	6.4	7
5	Actinâ€‘tropomyosin distribution in non-muscle cells. <i>Journal of Muscle Research and Cell Motility</i> , 2020, 41, 11-22.	2.0	23
6	Impact of the actin cytoskeleton on cell development and function mediated via tropomyosin isoforms. <i>Seminars in Cell and Developmental Biology</i> , 2020, 102, 122-131.	5.0	15
7	Irradiation impairs mitochondrial function and skeletal muscle oxidative capacity: significance for metabolic complications in cancer survivors. <i>Metabolism: Clinical and Experimental</i> , 2020, 103, 154025.	3.4	8
8	Visualizing the in vitro assembly of tropomyosin/actin filaments using TIRF microscopy. <i>Biophysical Reviews</i> , 2020, 12, 879-885.	3.2	5
9	Life and death agendas of actin filaments. <i>Nature Materials</i> , 2020, 19, 135-136.	27.5	2
10	Tropomyosin Tpm3.1 Is Required to Maintain the Structure and Function of the Axon Initial Segment. <i>IScience</i> , 2020, 23, 101053.	4.1	21
11	Drug Targeting the Actin Cytoskeleton Potentiates the Cytotoxicity of Low Dose Vincristine by Abrogating Actin-Mediated Repair of Spindle Defects. <i>Molecular Cancer Research</i> , 2020, 18, 1074-1087.	3.4	15
12	Dynamic polyhedral actomyosin lattices remodel micron-scale curved membranes during exocytosis in live mice. <i>Nature Cell Biology</i> , 2019, 21, 933-939.	10.3	19
13	Molecular integration of the anti-tropomyosin compound ATM-3507 into the coiled coil overlap region of the cancer-associated Tpm3.1. <i>Scientific Reports</i> , 2019, 9, 11262.	3.3	15
14	High-Content Imaging of Unbiased Chemical Perturbations Reveals that the Phenotypic Plasticity of the Actin Cytoskeleton Is Constrained. <i>Cell Systems</i> , 2019, 9, 496-507.e5.	6.2	14
15	Impairments in contractility and cytoskeletal organisation cause nuclear defects in nemaline myopathy. <i>Acta Neuropathologica</i> , 2019, 138, 477-495.	7.7	25
16	Tropomyosin concentration but not formin nucleators mDia1 and mDia3 determines the level of tropomyosin incorporation into actin filaments. <i>Scientific Reports</i> , 2019, 9, 6504.	3.3	11
17	Chemical biology approaches targeting the actin cytoskeleton through phenotypic screening. <i>Current Opinion in Chemical Biology</i> , 2019, 51, 40-47.	6.1	13
18	Colocalization of Tpm3.1 and myosin IIa heads defines a discrete subdomain in stress fibres. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	15

#	ARTICLE	IF	CITATIONS
19	Parallel assembly of actin and tropomyosin but not myosin II during <i>de novo</i> actin filament formation in live mice. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	15
20	On-target action of anti-tropomyosin drugs regulates glucose metabolism. <i>Scientific Reports</i> , 2018, 8, 4604.	3.3	20
21	Fundamental differences. <i>ELife</i> , 2018, 7, .	6.0	7
22	Co-polymers of Actin and Tropomyosin Account for a Major Fraction of the Human Actin Cytoskeleton. <i>Current Biology</i> , 2018, 28, 2331-2337.e5.	3.9	47
23	Tropomyosins. <i>Current Biology</i> , 2017, 27, R8-R13.	3.9	24
24	Epidermal YAP2-5SA- ¹³ C Drives β -Catenin Activation to Promote Keratinocyte Proliferation in Mouse Skin <i>In Vivo</i> . <i>Journal of Investigative Dermatology</i> , 2017, 137, 716-726.	0.7	17
25	Identification of Cancer-Targeted Tropomyosin Inhibitors and Their Synergy with Microtubule Drugs. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 1555-1565.	4.1	38
26	A RhoA-FRET Biosensor Mouse for Intravital Imaging in Normal Tissue Homeostasis and Disease Contexts. <i>Cell Reports</i> , 2017, 21, 274-288.	6.4	83
27	ER/Golgi trafficking is facilitated by unbranched actin filaments containing Tpm4.2. <i>Cytoskeleton</i> , 2017, 74, 379-389.	2.0	11
28	Developmental Profiling of Tropomyosin Expression in Mouse Brain Reveals Tpm4.2 as the Major Post-synaptic Tropomyosin in the Mature Brain. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 421.	3.7	14
29	Cover Image, Volume 74, Issue 10. <i>Cytoskeleton</i> , 2017, 74, C4.	2.0	0
30	Mutations in tropomyosin 4 underlie a rare form of human macrothrombocytopenia. <i>Journal of Clinical Investigation</i> , 2017, 127, 814-829.	8.2	57
31	Recruitment Kinetics of Tropomyosin Tpm3.1 to Actin Filament Bundles in the Cytoskeleton Is Independent of Actin Filament Kinetics. <i>PLoS ONE</i> , 2016, 11, e0168203.	2.5	12
32	A small molecule inhibitor of tropomyosin dissociates actin binding from tropomyosin-directed regulation of actin dynamics. <i>Scientific Reports</i> , 2016, 6, 19816.	3.3	28
33	Tropomyosin Promotes Lamellipodial Persistence by Collaborating with Arp2/3 at the Leading Edge. <i>Current Biology</i> , 2016, 26, 1312-1318.	3.9	39
34	RNA-Seq analysis of Gtf2ird1 knockout epidermal tissue provides potential insights into molecular mechanisms underpinning Williams-Beuren syndrome. <i>BMC Genomics</i> , 2016, 17, 450.	2.8	13
35	Treatment with ActRIIB-mFc Produces Myofiber Growth and Improves Lifespan in the Acta1 H40Y Murine Model of Nemaline Myopathy. <i>American Journal of Pathology</i> , 2016, 186, 1568-1581.	3.8	23
36	Intravital FRAP Imaging using an E-cadherin-GFP Mouse Reveals Disease- and Drug-Dependent Dynamic Regulation of Cell-Cell Junctions in Live Tissue. <i>Cell Reports</i> , 2016, 14, 152-167.	6.4	54

#	ARTICLE	IF	CITATIONS
37	Modulating myosin restores muscle function in a mouse model of nemaline myopathy. <i>Annals of Neurology</i> , 2016, 79, 717-725.	5.3	22
38	An Actin Filament Population Defined by the Tropomyosin Tpm3.1 Regulates Glucose Uptake. <i>Traffic</i> , 2015, 16, 691-711.	2.7	61
39	Regulation of cell proliferation by ERK and signal-dependent nuclear translocation of ERK is dependent on Tm5NM1-containing actin filaments. <i>Molecular Biology of the Cell</i> , 2015, 26, 2475-2490.	2.1	52
40	Tropomyosin “master regulator of actin filament function in the cytoskeleton. <i>Journal of Cell Science</i> , 2015, 128, 2965-74.	2.0	215
41	The nuclear localization pattern and interaction partners of GTF2IRD1 demonstrate a role in chromatin regulation. <i>Human Genetics</i> , 2015, 134, 1099-1115.	3.8	14
42	The role of GTF2IRD1 in the auditory pathology of Williams’ Beuren Syndrome. <i>European Journal of Human Genetics</i> , 2015, 23, 774-780.	2.8	7
43	Cell Elasticity Is Regulated by the Tropomyosin Isoform Composition of the Actin Cytoskeleton. <i>PLoS ONE</i> , 2015, 10, e0126214.	2.5	50
44	Alterations at the Cross-Bridge Level Are Associated with a Paradoxical Gain of Muscle Function In Vivo in a Mouse Model of Nemaline Myopathy. <i>PLoS ONE</i> , 2014, 9, e109066.	2.5	6
45	Lighting up microtubule cytoskeleton dynamics in skeletal muscle. <i>Intravital</i> , 2014, 3, e29293.	2.0	0
46	Tropomyosin isoforms support actomyosin biogenesis to generate contractile tension at the epithelial zonula adherens. <i>Cytoskeleton</i> , 2014, 71, 663-676.	2.0	25
47	Tropomyosins induce neuritogenesis and determine neurite branching patterns in B35 neuroblastoma cells. <i>Molecular and Cellular Neurosciences</i> , 2014, 58, 11-21.	2.2	27
48	Sexually dimorphic myofilament function in a mouse model of nemaline myopathy. <i>Archives of Biochemistry and Biophysics</i> , 2014, 564, 37-42.	3.0	2
49	A Novel Class of Anticancer Compounds Targets the Actin Cytoskeleton in Tumor Cells. <i>Cancer Research</i> , 2013, 73, 5169-5182.	0.9	155
50	Tropomyosin Regulates Cell Migration during Skin Wound Healing. <i>Journal of Investigative Dermatology</i> , 2013, 133, 1330-1339.	0.7	38
51	What makes a model system great?. <i>Intravital</i> , 2013, 2, e26287.	2.0	3
52	Cardiac β -actin over-expression therapy in dominant ACTA1 disease. <i>Human Molecular Genetics</i> , 2013, 22, 3987-3997.	2.9	22
53	Aged skeletal muscle retains the ability to fully regenerate functional architecture. <i>Bioarchitecture</i> , 2013, 3, 25-37.	1.5	51
54	Distinct Underlying Mechanisms of Limb and Respiratory Muscle Fiber Weaknesses in Nemaline Myopathy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2013, 72, 472-481.	1.7	30

#	ARTICLE	IF	CITATIONS
55	Combined MRI and 31P-MRS Investigations of the ACTA1(H40Y) Mouse Model of Nemaline Myopathy Show Impaired Muscle Function and Altered Energy Metabolism. PLoS ONE, 2013, 8, e61517.	2.5	17
56	<i>GTF2IRD2</i> from the Williams-Beuren critical region encodes a mobile element-derived fusion protein that antagonizes the action of its related family members. Journal of Cell Science, 2012, 125, 5040-50.	2.0	13
57	SUMOylation of GTF2IRD1 Regulates Protein Partner Interactions and Ubiquitin-Mediated Degradation. PLoS ONE, 2012, 7, e49283.	2.5	8
58	Mutation of Gtf2ird1 from the Williams-Beuren syndrome critical region results in facial dysplasia, motor dysfunction, and altered vocalisations. Neurobiology of Disease, 2012, 45, 913-922.	4.4	40
59	Thin Filament Diseases of Striated Muscle. , 2012, , 123-140.		0
60	Hypertrophy and dietary tyrosine ameliorate the phenotypes of a mouse model of severe nemaline myopathy. Brain, 2011, 134, 3516-3529.	7.6	59
61	Negative Autoregulation of GTF2IRD1 in Williams-Beuren Syndrome via a Novel DNA Binding Mechanism. Journal of Biological Chemistry, 2010, 285, 4715-4724.	3.4	27
62	Dendritic Function of Tau Mediates Amyloid- β Toxicity in Alzheimer's Disease Mouse Models. Cell, 2010, 142, 387-397.	28.9	1,563
63	Cytoskeletal Tropomyosin Tm5NM1 Is Required for Normal Excitation-Contraction Coupling in Skeletal Muscle. Molecular Biology of the Cell, 2009, 20, 400-409.	2.1	45
64	A cytoskeletal tropomyosin can compromise the structural integrity of skeletal muscle. Cytoskeleton, 2009, 66, 710-720.	4.4	10
65	Diverse roles of the actin cytoskeleton in striated muscle. Journal of Muscle Research and Cell Motility, 2009, 30, 187-197.	2.0	50
66	Methylguanine DNA Methyltransferase-Mediated Drug Resistance-Based Selective Enrichment and Engraftment of Transplanted Stem Cells in Skeletal Muscle. Stem Cells, 2009, 27, 1098-1108.	3.2	7
67	Tropomyosin 4 defines novel filaments in skeletal muscle associated with muscle remodelling/regeneration in normal and diseased muscle. Cytoskeleton, 2008, 65, 73-85.	4.4	39
68	Divergent Regulation of the Sarcomere and the Cytoskeleton. Journal of Biological Chemistry, 2008, 283, 275-283.	3.4	36
69	Identification of FHL1 as a regulator of skeletal muscle mass: implications for human myopathy. Journal of Cell Biology, 2008, 183, 1033-1048.	5.2	111
70	An Actn3 knockout mouse provides mechanistic insights into the association between α -actinin-3 deficiency and human athletic performance. Human Molecular Genetics, 2008, 17, 1076-1086.	2.9	266
71	The Murine Stanniocalcin 2 Gene Is a Negative Regulator of Postnatal Growth. Endocrinology, 2008, 149, 2403-2410.	2.8	82
72	Tropomyosin-Based Regulation of the Actin Cytoskeleton in Time and Space. Physiological Reviews, 2008, 88, 1-35.	28.8	411

#	ARTICLE	IF	CITATIONS
73	Mouse Models for Thin Filament Disease. <i>Advances in Experimental Medicine and Biology</i> , 2008, 642, 66-77.	1.6	15
74	Tropomyosins in Skeletal Muscle Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2008, 644, 143-157.	1.6	47
75	Mechanisms underlying intranuclear rod formation. <i>Brain</i> , 2007, 130, 3275-3284.	7.6	63
76	Ultrastructural changes and sarcoplasmic reticulum Ca ²⁺ regulation in red vastus muscle following eccentric exercise in the rat. <i>Experimental Physiology</i> , 2007, 92, 437-447.	2.0	23
77	Loss of ACTN3 gene function alters mouse muscle metabolism and shows evidence of positive selection in humans. <i>Nature Genetics</i> , 2007, 39, 1261-1265.	21.4	278
78	Expression of Gtf2ird1, the Williams syndrome-associated gene, during mouse development. <i>Gene Expression Patterns</i> , 2007, 7, 396-404.	0.8	40
79	MusTRD can regulate postnatal fiber-specific expression. <i>Developmental Biology</i> , 2006, 293, 104-115.	2.0	20
80	Skeletal muscle repair in a mouse model of nemaline myopathy. <i>Human Molecular Genetics</i> , 2006, 15, 2603-2612.	2.9	44
81	Cardiac aquaporin expression in humans, rats, and mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H705-H713.	3.2	86
82	Four and a Half LIM Protein 1 Binds Myosin-binding Protein C and Regulates Myosin Filament Formation and Sarcomere Assembly. <i>Journal of Biological Chemistry</i> , 2006, 281, 7666-7683.	3.4	113
83	Tropomyosin isoforms: divining rods for actin cytoskeleton function. <i>Trends in Cell Biology</i> , 2005, 15, 333-341.	7.9	279
84	An α -tropomyosin mutation alters dimer preference in nemaline myopathy. <i>Annals of Neurology</i> , 2005, 57, 42-49.	5.3	62
85	Specific Features of Neuronal Size and Shape Are Regulated by Tropomyosin Isoforms. <i>Molecular Biology of the Cell</i> , 2005, 16, 3425-3437.	2.1	69
86	Muscle weakness in a mouse model of nemaline myopathy can be reversed with exercise and reveals a novel myofiber repair mechanism. <i>Human Molecular Genetics</i> , 2004, 13, 2633-2645.	2.9	47
87	Sorting of a nonmuscle tropomyosin to a novel cytoskeletal compartment in skeletal muscle results in muscular dystrophy. <i>Journal of Cell Biology</i> , 2004, 166, 685-696.	5.2	56
88	Myofiber adaptational response to exercise in a mouse model of nemaline myopathy. <i>Muscle and Nerve</i> , 2004, 30, 470-480.	2.2	22
89	Specification of Actin Filament Function and Molecular Composition by Tropomyosin Isoforms. <i>Molecular Biology of the Cell</i> , 2003, 14, 1002-1016.	2.1	231
90	hMusTRD1 \pm 1 Represses MEF2 Activation of the Troponin I Slow Enhancer. <i>Journal of Biological Chemistry</i> , 2003, 278, 36603-36610.	3.4	39

#	ARTICLE	IF	CITATIONS
91	Regulation of alternative splicing of Gtf2ird1 and its impact on slow muscle promoter activity. <i>Biochemical Journal</i> , 2003, 374, 359-367.	3.7	15
92	Nemaline Myopathy Caused by Mutations in the Muscle β -Skeletal-Actin Gene. <i>American Journal of Human Genetics</i> , 2001, 68, 1333-1343.	6.2	144
93	A mutation in alpha-tropomyosin slow affects muscle strength, maturation and hypertrophy in a mouse model for nemaline myopathy. <i>Human Molecular Genetics</i> , 2001, 10, 317-328.	2.9	85
94	Cloning and Characterization of a Novel Gene, striamin, That Interacts with the Tumor Suppressor Protein p53. <i>Journal of Biological Chemistry</i> , 1999, 274, 14948-14955.	3.4	5
95	Creating intracellular structural domains: spatial segregation of actin and tropomyosin isoforms in neurons. <i>BioEssays</i> , 1998, 20, 892-900.	2.5	62
96	ISOFORM SORTING AND THE CREATION OF INTRACELLULAR COMPARTMENTS. <i>Annual Review of Cell and Developmental Biology</i> , 1998, 14, 339-372.	9.4	47
97	Identification of a Novel Slow-Muscle-Fiber Enhancer Binding Protein, MusTRD1. <i>Molecular and Cellular Biology</i> , 1998, 18, 6641-6652.	2.3	78
98	Nerve-responsive troponin I slow promoter does not respond to unloading. <i>Journal of Applied Physiology</i> , 1998, 84, 1083-1087.	2.5	9
99	Creating intracellular structural domains: spatial segregation of actin and tropomyosin isoforms in neurons. <i>BioEssays</i> , 1998, 20, 892-900.	2.5	1
100	Variations in the Relative mRNA Levels of Actins and Myosin Heavy Chains do not Produce Corresponding Differences in their Proteins in the Adult Human Heart. <i>Journal of Molecular and Cellular Cardiology</i> , 1997, 29, 895-905.	1.9	20
101	Reappearance of the minor β -sarcomeric actins in postnatal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 1997, 273, C1801-C1810.	4.6	9
102	Impact of β -Skeletal Actin but not β -Cardiac Actin on Myoblast Morphology.. <i>Cell Structure and Function</i> , 1997, 22, 173-179.	1.1	6
103	Different electrophoretic techniques produce conflicting data in the analysis of myocardial samples from dilated cardiomyopathy patients: Protein levels do not necessarily reflect mRNA levels. <i>Electrophoresis</i> , 1996, 17, 235-238.	2.4	9
104	The Human Troponin I Slow Promoter Directs Slow Fiber-Specific Expression in Transgenic Mice. <i>DNA and Cell Biology</i> , 1995, 14, 599-607.	1.9	24
105	Developmental Regulation of Troponin I Isoform Genes in Striated Muscles of Transgenic Mice. <i>Developmental Biology</i> , 1995, 169, 487-503.	2.0	60
106	Identification of a program of contractile protein gene expression initiated upon skeletal muscle differentiation. <i>Developmental Dynamics</i> , 1993, 196, 25-36.	1.8	55
107	Nerve-Dependent and -Independent Patterns of mRNA Expression in Regenerating Skeletal Muscle. <i>Developmental Biology</i> , 1993, 159, 173-183.	2.0	75
108	Coordination of skeletal muscle gene expression occurs late in mammalian development. <i>Developmental Biology</i> , 1991, 146, 167-178.	2.0	51

#	ARTICLE	IF	CITATIONS
109	Multiple mechanisms regulate muscle fiber diversity. <i>FASEB Journal</i> , 1991, 5, 3064-3070.	0.5	113
110	Coordinate reciprocal trends in glycolytic and mitochondrial transcript accumulations during the in vitro differentiation of human myoblasts. <i>Journal of Cellular Physiology</i> , 1990, 142, 566-573.	4.1	106
111	Differential control of tropomyosin mRNA levels during myogenesis suggests the existence of an isoform competition-autoregulatory compensation control mechanism. <i>Developmental Biology</i> , 1990, 138, 443-453.	2.0	73
112	Regulation of contractile protein gene family mRNA pool sizes during myogenesis. <i>Developmental Biology</i> , 1990, 142, 270-282.	2.0	37
113	The pattern of actin expression in human fibroblast \times mouse muscle heterokaryons suggests that human muscle regulatory factors are produced. <i>Cell</i> , 1986, 47, 123-130.	28.9	77
114	Isolation of full-length cDNAs encoding abundant adult human skeletal muscle mRNAs. <i>Gene</i> , 1985, 38, 177-188.	2.2	14
115	Effects of compactin on the levels of 3-hydroxy-3-methylglutaryl coenzyme A reductase in compactin-resistant C100 and wild-type cells. <i>Archives of Biochemistry and Biophysics</i> , 1984, 232, 549-561.	3.0	44
116	The Limits of Phenotypic Plasticity in the Actin Cytoskeleton Revealed by Unbiased Chemical Perturbation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
117	Tropomyosin Tpm3.1 is Required to Maintain the Structure and Function of the Axon Initial Segment. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0