

Yosef Gruenbaum

List of Publications by Year in descending order

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112
papers

11,376
citations

31902

53
h-index

29081

104
g-index

199
all docs

199
docs citations

199
times ranked

8431
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the nuclear lamina in health and pathology using <i>C. elegans</i> . <i>Current Topics in Developmental Biology</i> , 2021, 144, 91-110.	1.0	1
2	Loss of MTX2 causes mandibuloacral dysplasia and links mitochondrial dysfunction to altered nuclear morphology. <i>Nature Communications</i> , 2020, 11, 4589.	5.8	30
3	Measuring nucleus mechanics within a living multicellular organism: Physical decoupling and attenuated recovery rate are physiological protective mechanisms of the cell nucleus under high mechanical load. <i>Molecular Biology of the Cell</i> , 2020, 31, 1943-1950.	0.9	14
4	Elevated CO ₂ regulates the Wnt signaling pathway in mammals, <i>Drosophila melanogaster</i> and <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2019, 9, 18251.	1.6	24
5	Biotinylation by antibody recognition—a method for proximity labeling. <i>Nature Methods</i> , 2018, 15, 127-133.	9.0	107
6	Invertebrate models of lamin diseases. <i>Nucleus</i> , 2018, 9, 227-234.	0.6	12
7	Small GTPases in <i>C. elegans</i> metabolism. <i>Small GTPases</i> , 2018, 9, 415-419.	0.7	2
8	Nuclear Lamins: Thin Filaments with Major Functions. <i>Trends in Cell Biology</i> , 2018, 28, 34-45.	3.6	227
9	Addendum: Biotinylation by antibody recognition—a method for proximity labeling. <i>Nature Methods</i> , 2018, 15, 749-749.	9.0	6
10	OGT (O-GlcNAc Transferase) Selectively Modifies Multiple Residues Unique to Lamin A. <i>Cells</i> , 2018, 7, 44.	1.8	14
11	Lamins and metabolism. <i>Clinical Science</i> , 2017, 131, 105-111.	1.8	19
12	Global transcriptional changes caused by an EDMD mutation correlate to tissue specific disease phenotypes in <i>C. elegans</i> . <i>Nucleus</i> , 2017, 8, 60-69.	0.6	8
13	Intermediate Filaments in <i>Caenorhabditis elegans</i> . <i>Methods in Enzymology</i> , 2016, 568, 661-679.	0.4	7
14	Matefin/SUN-1 Phosphorylation on Serine 43 Is Mediated by CDK-1 and Required for Its Localization to Centrosomes and Normal Mitosis in <i>C. elegans</i> Embryos. <i>Cells</i> , 2016, 5, 8.	1.8	14
15	Impaired mechanical response of an EDMD mutation leads to motility phenotypes that are repaired by loss of prenylation. <i>Journal of Cell Science</i> , 2016, 129, 1781-91.	1.2	26
16	Cell size and fat content of dietary-restricted <i>Caenorhabditis elegans</i> are regulated by ATX-2, an mTOR repressor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4620-9.	3.3	56
17	The assembly of <i>C. elegans</i> lamins into macroscopic fibers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 63, 35-43.	1.5	6
18	Lamin-Binding Proteins in <i>Caenorhabditis elegans</i> . <i>Methods in Enzymology</i> , 2016, 569, 455-483.	0.4	15

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19	Nuclear Organization. Annual Review of Biochemistry, 2015, 84, 61-64.	5.0	5
20	High CO ₂ Leads to Na,K-ATPase Endocytosis via c-Jun Amino-Terminal Kinase-Induced LMO7b Phosphorylation. Molecular and Cellular Biology, 2015, 35, 3962-3973.	1.1	29
21	Lamins: Nuclear Intermediate Filament Proteins with Fundamental Functions in Nuclear Mechanics and Genome Regulation. Annual Review of Biochemistry, 2015, 84, 131-164.	5.0	455
22	Pharyngeal pumping inhibition and avoidance by acute exposure to high CO ₂ levels are both regulated by the BAG neurons via different molecular pathways. Worm, 2015, 4, e1008898.	1.0	1
23	Lamins: the structure and protein complexes. Current Opinion in Cell Biology, 2015, 32, 7-12.	2.6	89
24	The Response to High CO ₂ Levels Requires the Neuropeptide Secretion Component HID-1 to Promote Pumping Inhibition. PLoS Genetics, 2014, 10, e1004529.	1.5	9
25	BAF-1 mobility is regulated by environmental stresses. Molecular Biology of the Cell, 2014, 25, 1127-1136.	0.9	18
26	Measuring the effects of high CO ₂ levels in <i>Caenorhabditis elegans</i> . Methods, 2014, 68, 487-491.	1.9	3
27	Studying Lamins in Invertebrate Models. Advances in Experimental Medicine and Biology, 2014, 773, 245-262.	0.8	15
28	Intermediate filaments: a dynamic network that controls cell mechanics. F1000prime Reports, 2014, 6, 54.	5.9	39
29	Hutchinson's Gilford progeria syndrome through the lens of transcription. Aging Cell, 2013, 12, 533-543.	3.0	76
30	Ce-emerin and LEM-2: essential roles in <i>Caenorhabditis elegans</i> development, muscle function, and mitosis. Molecular Biology of the Cell, 2012, 23, 543-552.	0.9	40
31	Lamins in development, tissue maintenance and stress. EMBO Reports, 2012, 13, 1070-1078.	2.0	61
32	Structural and physiological phenotypes of disease-linked lamin mutations in <i>C. elegans</i> . Journal of Structural Biology, 2012, 177, 106-112.	1.3	35
33	Filaments assembly of ectopically expressed <i>Caenorhabditis elegans</i> lamin within <i>Xenopus</i> oocytes. Journal of Structural Biology, 2012, 177, 113-118.	1.3	36
34	LEM-3 - A LEM Domain Containing Nuclease Involved in the DNA Damage Response in <i>C. elegans</i> . PLoS ONE, 2012, 7, e24555.	1.1	43
35	Evolutionary Conserved Role of c-Jun-N-Terminal Kinase in CO ₂ -Induced Epithelial Dysfunction. PLoS ONE, 2012, 7, e46696.	1.1	42
36	The nuclear lamina and heterochromatin: a complex relationship. Biochemical Society Transactions, 2011, 39, 1705-1709.	1.6	40

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37	An EDMD Mutation in <i>C.Âelegans</i> Lamin Blocks Muscle-Specific Gene Relocation and Compromises Muscle Integrity. <i>Current Biology</i> , 2011, 21, 1603-1614.	1.8	125
38	<i>Caenorhabditis elegans</i> as a model system for studying the nuclear lamina and laminopathic diseases. <i>Nucleus</i> , 2011, 2, 350-357.	0.6	25
39	A laminopathic mutation disrupting lamin filament assembly causes disease-like phenotypes in <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2011, 22, 2716-2728.	0.9	58
40	Leptotene/Zygotene Chromosome Movement Via the SUN/KASH Protein Bridge in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2010, 6, e1001219.	1.5	72
41	The physiological and molecular effects of elevated CO ₂ levels. <i>Cell Cycle</i> , 2010, 9, 1528-1532.	1.3	16
42	Reversal of age-dependent nuclear morphology by inhibition of prenylation does not affect lifespan in <i>Caenorhabditis elegans</i> . <i>Nucleus</i> , 2010, 1, 499-505.	0.6	18
43	Elevated CO ₂ levels affect development, motility, and fertility and extend life span in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4024-4029.	3.3	60
44	Elevated CO ₂ suppresses specific <i>Drosophila</i> innate immune responses and resistance to bacterial infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18710-18715.	3.3	94
45	Nuclear lamins: key regulators of nuclear structure and activities. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 1059-1085.	1.6	228
46	Sensing, physiological effects and molecular response to elevated CO ₂ levels in eukaryotes. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 4304-4318.	1.6	41
47	Clotoxin reverses age-dependent nuclear morphology phenotypes, ameliorates motility, but fails to affect lifespan of adult <i>Caenorhabditis elegans</i> . <i>Cytoskeleton</i> , 2009, 66, 791-797.	4.4	16
48	NURD keeps chromatin young. <i>Nature Cell Biology</i> , 2009, 11, 1176-1177.	4.6	10
49	The curious case of the ageing cells. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 242-242.	16.1	1
50	Meiotic Chromosome Homology Search Involves Modifications of the Nuclear Envelope Protein Matfin/SUN-1. <i>Cell</i> , 2009, 139, 920-933.	13.5	181
51	The Supramolecular Organization of the <i>C. elegans</i> Nuclear Lamin Filament. <i>Journal of Molecular Biology</i> , 2009, 386, 1392-1402.	2.0	124
52	Nuclear lamins: key regulators of nuclear structure and activities. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 1059-1085.	1.6	1
53	Rejuvenating premature aging. <i>Nature Medicine</i> , 2008, 14, 713-715.	15.2	8
54	Gone with the Wnt/Notch: stem cells in laminopathies, progeria, and aging. <i>Journal of Cell Biology</i> , 2008, 181, 9-13.	2.3	75

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55	Laminopathic mutations interfere with the assembly, localization, and dynamics of nuclear lamins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 180-185.	3.3	105
56	Chapter 21 Electron Microscopy of Lamin and the Nuclear Lamina in Caenorhabditis elegans. Methods in Cell Biology, 2008, 88, 411-429.	0.5	11
57	A Lamin-Dependent Pathway That Regulates Nuclear Organization, Cell Cycle Progression and Germ Cell Development. Novartis Foundation Symposium, 2008, , 231-245.	1.2	28
58	Specific and conserved sequences in D. melanogaster and C. elegans lamins and histone H2A mediate the attachment of lamins to chromosomes. Journal of Cell Science, 2007, 120, 77-85.	1.2	65
59	Barrier to autointegration factor blocks premature cell fusion and maintains adult muscle integrity in C. elegans. Journal of Cell Biology, 2007, 178, 661-673.	2.3	58
60	141st ENMC International Workshop Inaugural Meeting of the EURO-Laminopathies Project Nuclear Envelope-linked Rare Human Diseases: From Molecular Pathophysiology towards Clinical Applications 10â€“12 March 2006, Naarden, The Netherlands. Neuromuscular Disorders, 2007, 17, 655-660.	0.3	11
61	The Nuclear Envelope Protein Matefin/SUN-1 Is Required for Homologous Pairing in C. elegans Meiosis. Developmental Cell, 2007, 12, 873-885.	3.1	166
62	High CO2 Levels Impair Alveolar Epithelial Function Independently of pH. PLoS ONE, 2007, 2, e1238.	1.1	108
63	Invertebrate lamins. Experimental Cell Research, 2007, 313, 2157-2166.	1.2	88
64	Barrier-to-autointegration factor â€“ a BAFfling little protein. Trends in Cell Biology, 2007, 17, 202-208.	3.6	144
65	The nuclear lamina and its proposed roles in tumorigenesis: Projection on the hematologic malignancies and future targeted therapy. Journal of Structural Biology, 2006, 155, 351-360.	1.3	68
66	Solubility properties and specific assembly pathways of the B-type lamin from Caenorhabditis elegans. Journal of Structural Biology, 2006, 155, 340-350.	1.3	57
67	SUN-domain proteins: 'Velcro' that links the nucleoskeleton to the cytoskeleton. Nature Reviews Molecular Cell Biology, 2006, 7, 782-788.	16.1	218
68	Nuclear lamins, diseases and aging. Current Opinion in Cell Biology, 2006, 18, 335-341.	2.6	153
69	Nuclear Morphology: When Round Kernels Do the Charleston. Current Biology, 2006, 16, R195-R197.	1.8	8
70	Matefin/SUN-1 is a nuclear envelope receptor for CED-4 during Caenorhabditis elegans apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13397-13402.	3.3	43
71	The nuclear lamina comes of age. Nature Reviews Molecular Cell Biology, 2005, 6, 21-31.	16.1	774
72	Breaking and making of the nuclear envelope. Journal of Cellular Biochemistry, 2005, 95, 454-465.	1.2	94

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73	Age-related changes of nuclear architecture in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16690-16695.	3.3	271
74	Barrier-to-autointegration factor is required to segregate and enclose chromosomes within the nuclear envelope and assemble the nuclear lamina. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3290-3295.	3.3	130
75	A lamin-dependent pathway that regulates nuclear organization, cell cycle progression and germ cell development. Novartis Foundation Symposium, 2005, 264, 231-40; discussion 240-5.	1.2	23
76	Matefin, a <i>Caenorhabditis elegans</i> germ line-specific SUN-domain nuclear membrane protein, is essential for early embryonic and germ cell development. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6987-6992.	3.3	82
77	Exploring the nuclear envelope's properties and roles. BioEssays, 2004, 26, 814-826.	1.2	0
78	Accumulation of mutant lamin A causes progressive changes in nuclear architecture in Hutchinsonâ€“Gilford progeria syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8963-8968.	3.3	988
79	Intermediate Filaments in <i>Caenorhabditis elegans</i> . Methods in Cell Biology, 2004, 78, 703-718.	0.5	3
80	Nuclear Pore Protein gp210 Is Essential for Viability in HeLa Cells and <i>Caenorhabditis elegans</i> . Molecular Biology of the Cell, 2003, 14, 4230-4237.	0.9	56
81	The Nuclear Lamina and Its Functions in the Nucleus. International Review of Cytology, 2003, 226, 1-62.	6.2	192
82	MAN1 and emerin have overlapping function(s) essential for chromosome segregation and cell division in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4598-4603.	3.3	195
83	Synchronization of Interphase Events Depends neither on Mitosis nor on cdk1. Molecular Biology of the Cell, 2003, 14, 3730-3740.	0.9	25
84	Lamin-dependent Localization of UNC-84, A Protein Required for Nuclear Migration in <i>Caenorhabditis elegans</i> . Molecular Biology of the Cell, 2002, 13, 892-901.	0.9	153
85	Ferritin expression modulates cell cycle dynamics and cell responsiveness to H-ras-induced growth via expansion of the labile iron pool. Biochemical Journal, 2002, 363, 431-436.	1.7	38
86	Fate of the Nuclear Lamina during <i>Caenorhabditis elegans</i> Apoptosis. Journal of Structural Biology, 2002, 137, 146-153.	1.3	10
87	Nuclear lamins: building blocks of nuclear architecture. Genes and Development, 2002, 16, 533-547.	2.7	505
88	Transmission electron microscope studies of the nuclear envelope in <i>Caenorhabditis elegans</i> embryos. Journal of Structural Biology, 2002, 140, 232-240.	1.3	57
89	The expression, lamin-dependent localization and RNAi depletion phenotype for emerin in <i>C. elegans</i> . Journal of Cell Science, 2002, 115, 923-929.	1.2	69
90	Nuclear Envelope Breakdown and Reassembly in <i>C. elegans</i> . , 2002, , 103-110.		0

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91	The expression, lamin-dependent localization and RNAi depletion phenotype for emerin in <i>C. elegans</i> . <i>Journal of Cell Science</i> , 2002, 115, 923-9.	1.2	64
92	The two <i>Xenopus Gbx2</i> genes exhibit similar, but not identical expression patterns and can affect head formation. <i>FEBS Letters</i> , 2001, 507, 205-209.	1.3	17
93	Repression of the heavy ferritin chain increases the labile iron pool of human K562 cells. <i>Biochemical Journal</i> , 2001, 356, 311-316.	1.7	43
94	Repression of ferritin expression increases the labile iron pool, oxidative stress, and short-term growth of human erythroleukemia cells. <i>Blood</i> , 2001, 97, 2863-2871.	0.6	80
95	Transcriptional repression, apoptosis, human disease and the functional evolution of the nuclear lamina. <i>Trends in Biochemical Sciences</i> , 2001, 26, 41-47.	3.7	247
96	Essential Roles for <i>Caenorhabditis elegans</i> Lamin Gene in Nuclear Organization, Cell Cycle Progression, and Spatial Organization of Nuclear Pore Complexes. <i>Molecular Biology of the Cell</i> , 2000, 11, 3937-3947.	0.9	378
97	<i>C. elegans</i> Nuclear Envelope Proteins Emerin, MAN1, Lamin, and Nucleoporins Reveal Unique Timing of Nuclear Envelope Breakdown during Mitosis. <i>Molecular Biology of the Cell</i> , 2000, 11, 3089-3099.	0.9	158
98	Review: Nuclear Lamins—Structural Proteins with Fundamental Functions. <i>Journal of Structural Biology</i> , 2000, 129, 313-323.	1.3	184
99	Translocation of <i>C. elegans</i> CED-4 to Nuclear Membranes During Programmed Cell Death. <i>Science</i> , 2000, 287, 1485-1489.	6.0	221
100	The Nuclear Lamina: Molecular Organization and Interaction with Chromatin. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 1999, 9, 285-293.	0.4	81
101	Interactions among <i>Drosophila</i> Nuclear Envelope Proteins Lamin, Otefin, and YA. <i>Molecular and Cellular Biology</i> , 1998, 18, 4315-4323.	1.1	69
102	Binding of matrix attachment regions to nuclear lamin is mediated by the rod domain and depends on the lamin polymerization state. <i>FEBS Letters</i> , 1996, 380, 161-164.	1.3	54
103	CHox-cad locus may influence quantitative traits in chickens. <i>The Journal of Experimental Zoology</i> , 1992, 263, 303-308.	1.4	5
104	Molecular analysis of the <i>Drosophila</i> nuclear lamin gene. <i>Genomics</i> , 1990, 8, 217-224.	1.3	31
105	A chicken homeo box gene with developmentally regulated expression. <i>FEBS Letters</i> , 1989, 250, 381-385.	1.3	36
106	Gene transfer in plant protoplasts Inhibition of gene activity by cytosine methylation and expression of single-stranded DNA constructs. <i>FEBS Letters</i> , 1989, 253, 167-172.	1.3	12
107	Nuclear envelope assembly around sperm chromatin in cell-free preparations from <i>Drosophila</i> embryos. <i>FEBS Letters</i> , 1989, 259, 113-116.	1.3	65
108	Characteristic folding pattern of polytene chromosomes in <i>Drosophila</i> salivary gland nuclei. <i>Nature</i> , 1984, 308, 414-421.	13.7	188

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109	The absence of detectable methylated bases in <i>Drosophila melanogaster</i> DNA. FEBS Letters, 1982, 146, 148-152.	1.3	206
110	Substrate and sequence specificity of a eukaryotic DNA methylase. Nature, 1982, 295, 620-622.	13.7	448
111	Methylation of CpG sequences in eukaryotic DNA. FEBS Letters, 1981, 124, 67-71.	1.3	273
112	Sequence specificity of methylation in higher plant DNA. Nature, 1981, 292, 860-862.	13.7	727