

Claes M Gustafsson

List of Publications by Year in descending order

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92
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citations

47006

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89
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94
docs citations

94
times ranked

9657
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial transcription factor A regulates mtDNA copy number in mammals. <i>Human Molecular Genetics</i> , 2004, 13, 935-944.	2.9	730
2	DNA Replication and Transcription in Mammalian Mitochondria. <i>Annual Review of Biochemistry</i> , 2007, 76, 679-699.	11.1	567
3	Mitochondrial transcription factors B1 and B2 activate transcription of human mtDNA. <i>Nature Genetics</i> , 2002, 31, 289-294.	21.4	535
4	MEG3 long noncoding RNA regulates the TGF- β 2 pathway genes through formation of RNA-DNA triplex structures. <i>Nature Communications</i> , 2015, 6, 7743.	12.8	534
5	Maintenance and Expression of Mammalian Mitochondrial DNA. <i>Annual Review of Biochemistry</i> , 2016, 85, 133-160.	11.1	507
6	Architectural Role of Mitochondrial Transcription Factor A in Maintenance of Human Mitochondrial DNA. <i>Molecular and Cellular Biology</i> , 2004, 24, 9823-9834.	2.3	267
7	Methylation of 12S rRNA Is Necessary for In Vivo Stability of the Small Subunit of the Mammalian Mitochondrial Ribosome. <i>Cell Metabolism</i> , 2009, 9, 386-397.	16.2	264
8	LRPPRC is necessary for polyadenylation and coordination of translation of mitochondrial mRNAs. <i>EMBO Journal</i> , 2012, 31, 443-456.	7.8	264
9	MTERF4 Regulates Translation by Targeting the Methyltransferase NSUN4 to the Mammalian Mitochondrial Ribosome. <i>Cell Metabolism</i> , 2011, 13, 527-539.	16.2	221
10	MTERF3 Is a Negative Regulator of Mammalian mtDNA Transcription. <i>Cell</i> , 2007, 130, 273-285.	28.9	209
11	Mitochondrial transcription and its regulation in mammalian cells. <i>Trends in Biochemical Sciences</i> , 2007, 32, 111-117.	7.5	193
12	The cyclin-dependent kinase 8 module sterically blocks Mediator interactions with RNA polymerase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15788-15793.	7.1	186
13	Mitochondrial RNA Polymerase Is Needed for Activation of the Origin of Light-Strand DNA Replication. <i>Molecular Cell</i> , 2010, 37, 67-78.	9.7	183
14	Human Mitochondrial Transcription Revisited. <i>Journal of Biological Chemistry</i> , 2010, 285, 18129-18133.	3.4	174
15	The yeast Mediator complex and its regulation. <i>Trends in Biochemical Sciences</i> , 2005, 30, 240-244.	7.5	165
16	Mammalian transcription factor A is a core component of the mitochondrial transcription machinery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16510-16515.	7.1	156
17	Human mitochondrial RNA polymerase primes lagging-strand DNA synthesis <i>in vitro</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11122-11127.	7.1	152
18	The mitochondrial RNA polymerase contributes critically to promoter specificity in mammalian cells. <i>EMBO Journal</i> , 2004, 23, 4606-4614.	7.8	151

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19	G-quadruplex structures in RNA stimulate mitochondrial transcription termination and primer formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16072-16077.	7.1	147
20	A hybrid G-quadruplex structure formed between RNA and DNA explains the extraordinary stability of the mitochondrial R-loop. <i>Nucleic Acids Research</i> , 2012, 40, 10334-10344.	14.5	133
21	A family of putative transcription termination factors shared amongst metazoans and plants. <i>Current Genetics</i> , 2005, 48, 265-269.	1.7	116
22	Small-molecule inhibitors of human mitochondrial DNA transcription. <i>Nature</i> , 2020, 588, 712-716.	27.8	115
23	Conserved Sequence Box II Directs Transcription Termination and Primer Formation in Mitochondria. <i>Journal of Biological Chemistry</i> , 2006, 281, 24647-24652.	3.4	114
24	In Vivo Occupancy of Mitochondrial Single-Stranded DNA Binding Protein Supports the Strand Displacement Mode of DNA Replication. <i>PLoS Genetics</i> , 2014, 10, e1004832.	3.5	112
25	TRAP230/ARC240 and TRAP240/ARC250 Mediator subunits are functionally conserved through evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6422-6427.	7.1	109
26	Structure of the human MTERF4/NSUN4 protein complex that regulates mitochondrial ribosome biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15253-15258.	7.1	105
27	Adenosine Kinase Deficiency Disrupts the Methionine Cycle and Causes Hypermethioninemia, Encephalopathy, and Abnormal Liver Function. <i>American Journal of Human Genetics</i> , 2011, 89, 507-515.	6.2	104
28	Genome-Wide Occupancy Profile of Mediator and the Srb8-11 Module Reveals Interactions with Coding Regions. <i>Molecular Cell</i> , 2006, 22, 169-178.	9.7	103
29	Topoisomerase 3 β Is Required for Decatenation and Segregation of Human mtDNA. <i>Molecular Cell</i> , 2018, 69, 9-23.e6.	9.7	102
30	Protein sliding and DNA denaturation are essential for DNA organization by human mitochondrial transcription factor A. <i>Nature Communications</i> , 2012, 3, 1013.	12.8	101
31	In Vitro-Reconstituted Nucleoids Can Block Mitochondrial DNA Replication and Transcription. <i>Cell Reports</i> , 2014, 8, 66-74.	6.4	98
32	The transcription machinery in mammalian mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1659, 148-152.	1.0	94
33	MTERF1 Binds mtDNA to Prevent Transcriptional Interference at the Light-Strand Promoter but Is Dispensable for rRNA Gene Transcription Regulation. <i>Cell Metabolism</i> , 2013, 17, 618-626.	16.2	93
34	POLRMT regulates the switch between replication primer formation and gene expression of mammalian mtDNA. <i>Science Advances</i> , 2016, 2, e1600963.	10.3	91
35	Whole exome sequencing reveals mutations in <i>NARS2</i> and <i>PARS2</i> , encoding the mitochondrial asparaginyl-tRNA synthetase and prolyl-tRNA synthetase, in patients with Alpers syndrome. <i>Molecular Genetics & Genomic Medicine</i> , 2015, 3, 59-68.	1.2	87
36	The multitasking Mediator complex. <i>Trends in Biochemical Sciences</i> , 2013, 38, 531-537.	7.5	83

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37	Regulation of DNA replication at the end of the mitochondrial D-loop involves the helicase TWINKLE and a conserved sequence element. <i>Nucleic Acids Research</i> , 2015, 43, 9262-9275.	14.5	81
38	TEFM is a potent stimulator of mitochondrial transcription elongation in vitro. <i>Nucleic Acids Research</i> , 2015, 43, 2615-2624.	14.5	80
39	Role of Human DNA Glycosylase Nei-like 2 (NEIL2) and Single Strand Break Repair Protein Polynucleotide Kinase 3 α -Phosphatase in Maintenance of Mitochondrial Genome. <i>Journal of Biological Chemistry</i> , 2012, 287, 2819-2829.	3.4	77
40	Essential Genetic Interactors of SIR2 Required for Spatial Sequestration and Asymmetrical Inheritance of Protein Aggregates. <i>PLoS Genetics</i> , 2014, 10, e1004539.	3.5	73
41	MTERF2 is a nucleoid component in mammalian mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 296-302.	1.0	70
42	The exonuclease activity of DNA polymerase γ is required for ligation during mitochondrial DNA replication. <i>Nature Communications</i> , 2015, 6, 7303.	12.8	70
43	The Human Mitochondrial Transcription Termination Factor (mTERF) Is Fully Active in Vitro in the Non-phosphorylated Form. <i>Journal of Biological Chemistry</i> , 2005, 280, 25499-25505.	3.4	60
44	<i>In vivo</i> mutagenesis reveals that OriL is essential for mitochondrial DNA replication. <i>EMBO Reports</i> , 2012, 13, 1130-1137.	4.5	59
45	RNase H1 directs origin-specific initiation of DNA replication in human mitochondria. <i>PLoS Genetics</i> , 2019, 15, e1007781.	3.5	58
46	MGME1 processes flaps into ligatable nicks in concert with DNA polymerase γ during mtDNA replication. <i>Nucleic Acids Research</i> , 2016, 44, 5861-5871.	14.5	56
47	Nucleotide pools dictate the identity and frequency of ribonucleotide incorporation in mitochondrial DNA. <i>PLoS Genetics</i> , 2017, 13, e1006628.	3.5	55
48	Mutations in mitochondrial DNA causing tubulointerstitial kidney disease. <i>PLoS Genetics</i> , 2017, 13, e1006620.	3.5	52
49	TEFM regulates both transcription elongation and RNA processing in mitochondria. <i>EMBO Reports</i> , 2019, 20, .	4.5	51
50	The Structural and Functional Role of Med5 in the Yeast Mediator Tail Module. <i>Journal of Biological Chemistry</i> , 2005, 280, 41366-41372.	3.4	50
51	The amino terminal extension of mammalian mitochondrial RNA polymerase ensures promoter specific transcription initiation. <i>Nucleic Acids Research</i> , 2014, 42, 3638-3647.	14.5	50
52	LRPPRC is a mitochondrial matrix protein that is conserved in metazoans. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 759-764.	2.1	49
53	Mediator - a universal complex in transcriptional regulation. <i>Molecular Microbiology</i> , 2001, 41, 1-8.	2.5	48
54	Structure of mitochondrial transcription termination factor 3 reveals a novel nucleic acid-binding domain. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 386-390.	2.1	43

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55	Mammalian mitochondrial DNA replication and mechanisms of deletion formation. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2020, 55, 509-524.	5.2	42
56	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. <i>PLoS Genetics</i> , 2020, 16, e1009242.	3.5	41
57	Histone modifications influence mediator interactions with chromatin. <i>Nucleic Acids Research</i> , 2011, 39, 8342-8354.	14.5	39
58	The mitochondrial DNA helicase TWINKLE can assemble on a closed circular template and support initiation of DNA synthesis. <i>Nucleic Acids Research</i> , 2011, 39, 9238-9249.	14.5	39
59	Human Mitochondrial Transcription Factor B2 Is Required for Promoter Melting during Initiation of Transcription. <i>Journal of Biological Chemistry</i> , 2017, 292, 2637-2645.	3.4	39
60	Yeast RNA Polymerase II Transcription Reconstituted with Purified Proteins. <i>Methods</i> , 1997, 12, 212-216.	3.8	38
61	Mediator Influences <i>Schizosaccharomyces pombe</i> RNA Polymerase II-dependent Transcription in Vitro. <i>Journal of Biological Chemistry</i> , 2003, 278, 51301-51306.	3.4	38
62	Separating and Segregating the Human Mitochondrial Genome. <i>Trends in Biochemical Sciences</i> , 2018, 43, 869-881.	7.5	37
63	The mitochondrial single-stranded DNA binding protein is essential for initiation of mtDNA replication. <i>Science Advances</i> , 2021, 7, .	10.3	36
64	Maintenance of respiratory chain function in mouse hearts with severely impaired mtDNA transcription. <i>Nucleic Acids Research</i> , 2010, 38, 6577-6588.	14.5	35
65	Characterization of the mouse genes for mitochondrial transcription factors B1 and B2. <i>Mammalian Genome</i> , 2003, 14, 1-6.	2.2	34
66	Copy-choice recombination during mitochondrial L-strand synthesis causes DNA deletions. <i>Nature Communications</i> , 2019, 10, 759.	12.8	34
67	Mitochondrial transcription termination factor 1 directs polar replication fork pausing. <i>Nucleic Acids Research</i> , 2016, 44, 5732-5742.	14.5	32
68	Two conserved modules of <i>Schizosaccharomyces pombe</i> Mediator regulate distinct cellular pathways. <i>Nucleic Acids Research</i> , 2008, 36, 2489-2504.	14.5	30
69	The DNA Ligands Influence the Interactions between the Herpes Simplex Virus 1 Origin Binding Protein and the Single Strand DNA-binding Protein, ICP-8. <i>Journal of Biological Chemistry</i> , 1995, 270, 19028-19034.	3.4	27
70	Emerging roles of Cdk8 in cell cycle control. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013, 1829, 916-920.	1.9	26
71	Mediator Promotes CENP-A Incorporation at Fission Yeast Centromeres. <i>Molecular and Cellular Biology</i> , 2012, 32, 4035-4043.	2.3	23
72	Mediator tail subunits can form amyloid-like aggregates in vivo and affect stress response in yeast. <i>Nucleic Acids Research</i> , 2015, 43, 7306-7314.	14.5	23

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73	Dinucleotide Degradation by REXO2 Maintains Promoter Specificity in Mammalian Mitochondria. <i>Molecular Cell</i> , 2019, 76, 784-796.e6.	9.7	22
74	POLRMT mutations impair mitochondrial transcription causing neurological disease. <i>Nature Communications</i> , 2021, 12, 1135.	12.8	21
75	Non-coding 7S RNA inhibits transcription via mitochondrial RNA polymerase dimerization. <i>Cell</i> , 2022, 185, 2309-2323.e24.	28.9	20
76	Recurrent horizontal transfer identifies mitochondrial positive selection in a transmissible cancer. <i>Nature Communications</i> , 2020, 11, 3059.	12.8	18
77	A Chromatin-remodeling Protein Is a Component of Fission Yeast Mediator. <i>Journal of Biological Chemistry</i> , 2010, 285, 29729-29737.	3.4	17
78	Hereditary myopathy with early respiratory failure is associated with misfolding of the titin fibronectin III 119 subdomain. <i>Neuromuscular Disorders</i> , 2014, 24, 373-379.	0.6	17
79	The Ubl protein UBTD1 stably interacts with the UBE2D family of E2 ubiquitin conjugating enzymes. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 7-12.	2.1	17
80	Cyclin-Dependent Kinase 8 Regulates Mitotic Commitment in Fission Yeast. <i>Molecular and Cellular Biology</i> , 2012, 32, 2099-2109.	2.3	15
81	Mediator Can Regulate Mitotic Entry and Direct Periodic Transcription in Fission Yeast. <i>Molecular and Cellular Biology</i> , 2014, 34, 4008-4018.	2.3	13
82	Loss of the Mediator subunit Med20 affects transcription of tRNA and other non-coding RNA genes in fission yeast. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016, 1859, 339-347.	1.9	12
83	An Adaptable High-Throughput Technology Enabling the Identification of Specific Transcription Modulators. <i>SLAS Discovery</i> , 2017, 22, 378-386.	2.7	5
84	Lsm7 phase-separated condensates trigger stress granule formation. <i>Nature Communications</i> , 2022, 13, .	12.8	5
85	Cyclin C influences the timing of mitosis in fission yeast. <i>Molecular Biology of the Cell</i> , 2017, 28, 1738-1744.	2.1	4
86	Ribonucleotides embedded in template DNA impair mitochondrial RNA polymerase progression. <i>Nucleic Acids Research</i> , 2022, 50, 989-999.	14.5	4
87	MTERF1 Gives mtDNA an Unusual Twist. <i>Cell Metabolism</i> , 2010, 12, 3-4.	16.2	3
88	Yeast mismatch repair components are required for stable inheritance of gene silencing. <i>PLoS Genetics</i> , 2020, 16, e1008798.	3.5	2
89	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0
90	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0

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91	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0
92	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0