

# Claes M Gustafsson

## List of Publications by Year in descending order

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92  
papers

9,266  
citations

47006

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46799

89  
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94  
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94  
docs citations

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times ranked

9657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ribonucleotides embedded in template DNA impair mitochondrial RNA polymerase progression. <i>Nucleic Acids Research</i> , 2022, 50, 989-999.	14.5	4
2	Non-coding 7S RNA inhibits transcription via mitochondrial RNA polymerase dimerization. <i>Cell</i> , 2022, 185, 2309-2323.e24.	28.9	20
3	Lsm7 phase-separated condensates trigger stress granule formation. <i>Nature Communications</i> , 2022, 13, .	12.8	5
4	POLRMT mutations impair mitochondrial transcription causing neurological disease. <i>Nature Communications</i> , 2021, 12, 1135.	12.8	21
5	The mitochondrial single-stranded DNA binding protein is essential for initiation of mtDNA replication. <i>Science Advances</i> , 2021, 7, .	10.3	36
6	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
7	Small-molecule inhibitors of human mitochondrial DNA transcription. <i>Nature</i> , 2020, 588, 712-716.	27.8	115
8	Yeast mismatch repair components are required for stable inheritance of gene silencing. <i>PLoS Genetics</i> , 2020, 16, e1008798.	3.5	2
9	Recurrent horizontal transfer identifies mitochondrial positive selection in a transmissible cancer. <i>Nature Communications</i> , 2020, 11, 3059.	12.8	18
10	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. <i>PLoS Genetics</i> , 2020, 16, e1009242.	3.5	41
11	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0
12	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0
13	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0
14	Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242.		0
15	Dinucleotide Degradation by REXO2 Maintains Promoter Specificity in Mammalian Mitochondria. <i>Molecular Cell</i> , 2019, 76, 784-796.e6.	9.7	22
16	<sc>TEFM</sc> regulates both transcription elongation and <sc>RNA</sc> processing in mitochondria. <i>EMBO Reports</i> , 2019, 20, .	4.5	51
17	Copy-choice recombination during mitochondrial L-strand synthesis causes DNA deletions. <i>Nature Communications</i> , 2019, 10, 759.	12.8	34
18	RNase H1 directs origin-specific initiation of DNA replication in human mitochondria. <i>PLoS Genetics</i> , 2019, 15, e1007781.	3.5	58

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19	Topoisomerase 3 <sup>+</sup> Is Required for Decatenation and Segregation of Human mtDNA. <i>Molecular Cell</i> , 2018, 69, 9-23.e6.	9.7	102
20	Separating and Segregating the Human Mitochondrial Genome. <i>Trends in Biochemical Sciences</i> , 2018, 43, 869-881.	7.5	37
21	An Adaptable High-Throughput Technology Enabling the Identification of Specific Transcription Modulators. <i>SLAS Discovery</i> , 2017, 22, 378-386.	2.7	5
22	Cyclin C influences the timing of mitosis in fission yeast. <i>Molecular Biology of the Cell</i> , 2017, 28, 1738-1744.	2.1	4
23	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
24	Mutations in mitochondrial DNA causing tubulointerstitial kidney disease. <i>PLoS Genetics</i> , 2017, 13, e1006620.	3.5	52
25	Nucleotide pools dictate the identity and frequency of ribonucleotide incorporation in mitochondrial DNA. <i>PLoS Genetics</i> , 2017, 13, e1006628.	3.5	55
26	POLRMT regulates the switch between replication primer formation and gene expression of mammalian mtDNA. <i>Science Advances</i> , 2016, 2, e1600963.	10.3	91
27	MGME1 processes flaps into ligatable nicks in concert with DNA polymerase $\gamma^3$ during mtDNA replication. <i>Nucleic Acids Research</i> , 2016, 44, 5861-5871.	14.5	56
28	Mitochondrial transcription termination factor 1 directs polar replication fork pausing. <i>Nucleic Acids Research</i> , 2016, 44, 5732-5742.	14.5	32
29	Maintenance and Expression of Mammalian Mitochondrial DNA. <i>Annual Review of Biochemistry</i> , 2016, 85, 133-160.	11.1	507
30	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
31	TEFM is a potent stimulator of mitochondrial transcription elongation in vitro. <i>Nucleic Acids Research</i> , 2015, 43, 2615-2624.	14.5	80
32	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
33	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
34	MEG3 long noncoding RNA regulates the TGF- $\beta^2$ pathway genes through formation of RNA-DNA triplex structures. <i>Nature Communications</i> , 2015, 6, 7743.	12.8	534
35	The exonuclease activity of DNA polymerase $\gamma^3$ is required for ligation during mitochondrial DNA replication. <i>Nature Communications</i> , 2015, 6, 7303.	12.8	70
36	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 &amp; Genomic Medicine</i> , 2015, 3, 59-68.	1.2	87

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37	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
38	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
39	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
40	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
41	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
42	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
43	In Vitro-Reconstituted Nucleoids Can Block Mitochondrial DNA Replication and Transcription. <i>Cell Reports</i> , 2014, 8, 66-74.	6.4	98
44	Emerging roles of Cdk8 in cell cycle control. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013, 1829, 916-920.	1.9	26
45	The multitasking Mediator complex. <i>Trends in Biochemical Sciences</i> , 2013, 38, 531-537.	7.5	83
46	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
47	LRPPRC is necessary for polyadenylation and coordination of translation of mitochondrial mRNAs. <i>EMBO Journal</i> , 2012, 31, 443-456.	7.8	264
48	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
49	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
50	Role of Human DNA Glycosylase Nei-like 2 (NEIL2) and Single Strand Break Repair Protein Polynucleotide Kinase 3-Phosphatase in Maintenance of Mitochondrial Genome. <i>Journal of Biological Chemistry</i> , 2012, 287, 2819-2829.	3.4	77
51	Cyclin-Dependent Kinase 8 Regulates Mitotic Commitment in Fission Yeast. <i>Molecular and Cellular Biology</i> , 2012, 32, 2099-2109.	2.3	15
52	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
53	Mediator Promotes CENP-A Incorporation at Fission Yeast Centromeres. <i>Molecular and Cellular Biology</i> , 2012, 32, 4035-4043.	2.3	23
54	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

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55	<i>In vivo</i> mutagenesis reveals that OriL is essential for mitochondrial DNA replication. EMBO Reports, 2012, 13, 1130-1137.	4.5	59
56	MTERF4 Regulates Translation by Targeting the Methyltransferase NSUN4 to the Mammalian Mitochondrial Ribosome. Cell Metabolism, 2011, 13, 527-539.	16.2	221
57	Adenosine Kinase Deficiency Disrupts the Methionine Cycle and Causes Hypermethioninemia, Encephalopathy, and Abnormal Liver Function. American Journal of Human Genetics, 2011, 89, 507-515.	6.2	104
58	Histone modifications influence mediator interactions with chromatin. Nucleic Acids Research, 2011, 39, 8342-8354.	14.5	39
59	The mitochondrial DNA helicase TWINKLE can assemble on a closed circular template and support initiation of DNA synthesis. Nucleic Acids Research, 2011, 39, 9238-9249.	14.5	39
60	A Chromatin-remodeling Protein Is a Component of Fission Yeast Mediator. Journal of Biological Chemistry, 2010, 285, 29729-29737.	3.4	17
61	Human Mitochondrial Transcription Revisited. Journal of Biological Chemistry, 2010, 285, 18129-18133.	3.4	174
62	G-quadruplex structures in RNA stimulate mitochondrial transcription termination and primer formation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16072-16077.	7.1	147
63	Maintenance of respiratory chain function in mouse hearts with severely impaired mtDNA transcription. Nucleic Acids Research, 2010, 38, 6577-6588.	14.5	35
64	Mitochondrial RNA Polymerase Is Needed for Activation of the Origin of Light-Strand DNA Replication. Molecular Cell, 2010, 37, 67-78.	9.7	183
65	Structure of mitochondrial transcription termination factor 3 reveals a novel nucleic acid-binding domain. Biochemical and Biophysical Research Communications, 2010, 397, 386-390.	2.1	43
66	LRPPRC is a mitochondrial matrix protein that is conserved in metazoans. Biochemical and Biophysical Research Communications, 2010, 398, 759-764.	2.1	49
67	MTERF1 Gives mtDNA an Unusual Twist. Cell Metabolism, 2010, 12, 3-4.	16.2	3
68	MTERF2 is a nucleoid component in mammalian mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 296-302.	1.0	70
69	Methylation of 12S rRNA Is Necessary for In Vivo Stability of the Small Subunit of the Mammalian Mitochondrial Ribosome. Cell Metabolism, 2009, 9, 386-397.	16.2	264
70	Two conserved modules of Schizosaccharomyces pombe Mediator regulate distinct cellular pathways. Nucleic Acids Research, 2008, 36, 2489-2504.	14.5	30
71	Human mitochondrial RNA polymerase primes lagging-strand DNA synthesis <i>in vitro</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11122-11127.	7.1	152
72	MTERF3 Is a Negative Regulator of Mammalian mtDNA Transcription. Cell, 2007, 130, 273-285.	28.9	209

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73	Mitochondrial transcription and its regulation in mammalian cells. Trends in Biochemical Sciences, 2007, 32, 111-117.	7.5	193
74	DNA Replication and Transcription in Mammalian Mitochondria. Annual Review of Biochemistry, 2007, 76, 679-699.	11.1	567
75	Genome-Wide Occupancy Profile of Mediator and the Srb8-11 Module Reveals Interactions with Coding Regions. Molecular Cell, 2006, 22, 169-178.	9.7	103
76	Conserved Sequence Box II Directs Transcription Termination and Primer Formation in Mitochondria. Journal of Biological Chemistry, 2006, 281, 24647-24652.	3.4	114
77	The cyclin-dependent kinase 8 module sterically blocks Mediator interactions with RNA polymerase II. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15788-15793.	7.1	186
78	The yeast Mediator complex and its regulation. Trends in Biochemical Sciences, 2005, 30, 240-244.	7.5	165
79	A family of putative transcription termination factors shared amongst metazoans and plants. Current Genetics, 2005, 48, 265-269.	1.7	116
80	The Human Mitochondrial Transcription Termination Factor (mTERF) Is Fully Active in Vitro in the Non-phosphorylated Form. Journal of Biological Chemistry, 2005, 280, 25499-25505.	3.4	60
81	The Structural and Functional Role of Med5 in the Yeast Mediator Tail Module. Journal of Biological Chemistry, 2005, 280, 41366-41372.	3.4	50
82	Mitochondrial transcription factor A regulates mtDNA copy number in mammals. Human Molecular Genetics, 2004, 13, 935-944.	2.9	730
83	Architectural Role of Mitochondrial Transcription Factor A in Maintenance of Human Mitochondrial DNA. Molecular and Cellular Biology, 2004, 24, 9823-9834.	2.3	267
84	The mitochondrial RNA polymerase contributes critically to promoter specificity in mammalian cells. EMBO Journal, 2004, 23, 4606-4614.	7.8	151
85	The transcription machinery in mammalian mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1659, 148-152.	1.0	94
86	Characterization of the mouse genes for mitochondrial transcription factors B1 and B2. Mammalian Genome, 2003, 14, 1-6.	2.2	34
87	Mediator Influences Schizosaccharomyces pombe RNA Polymerase II-dependent Transcription in Vitro. Journal of Biological Chemistry, 2003, 278, 51301-51306.	3.4	38
88	TRAP230/ARC240 and TRAP240/ARC250 Mediator subunits are functionally conserved through evolution. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6422-6427.	7.1	109
89	Mitochondrial transcription factors B1 and B2 activate transcription of human mtDNA. Nature Genetics, 2002, 31, 289-294.	21.4	535
90	Mediator - a universal complex in transcriptional regulation. Molecular Microbiology, 2001, 41, 1-8.	2.5	48

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91	Yeast RNA Polymerase II Transcription Reconstituted with Purified Proteins. <i>Methods</i> , 1997, 12, 212-216.	3.8	38
92	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