

# Robert N Lightowlers

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

6,860  
citations

136950

32  
h-index

144013

57  
g-index

60  
all docs

60  
docs citations

60  
times ranked

8063  
citing authors

#	ARTICLE	IF	CITATIONS
1	Messenger RNA delivery to mitoribosomes “ hints from a bacterial toxin. FEBS Journal, 2021, 288, 437-451.	4.7	10
2	High-resolution imaging reveals compartmentalization of mitochondrial protein synthesis in cultured human cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
3	Visualizing Mitochondrial Ribosomal RNA and Mitochondrial Protein Synthesis in Human Cell Lines. Methods in Molecular Biology, 2021, 2192, 159-181.	0.9	6
4	Mitochondrial Translation Occurs Preferentially in the Peri-Nuclear Mitochondrial Network of Cultured Human Cells. Biology, 2021, 10, 1050.	2.8	1
5	Rescuing stalled mammalian mitoribosomes “ what can we learn from bacteria?. Journal of Cell Science, 2020, 133, .	2.0	14
6	Redecorating the Mitochondrial Inner Membrane: A Treatment for mtDNA Disorders. Molecular Therapy, 2020, 28, 1749-1751.	8.2	0
7	Mitochondrial Diseases: Hope for the Future. Cell, 2020, 181, 168-188.	28.9	243
8	Mitochondrial transplantation“a possible therapeutic for mitochondrial dysfunction?. EMBO Reports, 2020, 21, e50964.	4.5	59
9	Mammalian mitochondrial translation “ revealing consequences of divergent evolution. Biochemical Society Transactions, 2019, 47, 1429-1436.	3.4	5
10	How much does a disrupted mitochondrial network influence neuronal dysfunction?. EMBO Molecular Medicine, 2019, 11, .	6.9	5
11	Defective mitochondrial protease LonP1 can cause classical mitochondrial disease. Human Molecular Genetics, 2018, 27, 1743-1753.	2.9	46
12	Signed“For Delivery in the Mitochondrial Matrix: Confirming Uptake into Mitochondria. Small Methods, 2018, 2, 1700297.	8.6	5
13	Preferential amplification of a human mitochondrial DNA deletion in vitro and in vivo. Scientific Reports, 2018, 8, 1799.	3.3	30
14	Advances in methods for reducing mitochondrial DNA disease by replacing or manipulating the mitochondrial genome. Essays in Biochemistry, 2018, 62, 455-465.	4.7	35
15	The Pseudouridine Synthase RPUSD4 Is an Essential Component of Mitochondrial RNA Granules. Journal of Biological Chemistry, 2017, 292, 4519-4532.	3.4	79
16	ClickIn: a flexible protocol for quantifying mitochondrial uptake of nucleobase derivatives. Interface Focus, 2017, 7, 20160117.	3.0	4
17	The human RNA-binding protein RBFA promotes the maturation of the mitochondrial ribosome. Biochemical Journal, 2017, 474, 2145-2158.	3.7	33
18	Human mitochondrial nucleases. FEBS Journal, 2017, 284, 1767-1777.	4.7	20

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19	Biallelic C1QBP Mutations Cause Severe Neonatal-, Childhood-, or Later-Onset Cardiomyopathy Associated with Combined Respiratory-Chain Deficiencies. <i>American Journal of Human Genetics</i> , 2017, 101, 525-538.	6.2	58
20	Pathogenic variants in <i>HTRA2</i> cause an early-onset mitochondrial syndrome associated with 3-methylglutaconic aciduria. <i>Journal of Inherited Metabolic Disease</i> , 2017, 40, 121-130.	3.6	23
21	The process of mammalian mitochondrial protein synthesis. <i>Cell and Tissue Research</i> , 2017, 367, 5-20.	2.9	98
22	Assessing the Delivery of Molecules to the Mitochondrial Matrix Using Click Chemistry. <i>ChemBioChem</i> , 2016, 17, 1312-1316.	2.6	17
23	Development of passive CLARITY and immunofluorescent labelling of multiple proteins in human cerebellum: understanding mechanisms of neurodegeneration in mitochondrial disease. <i>Scientific Reports</i> , 2016, 6, 26013.	3.3	43
24	Cl-out is a novel cooperative optogenetic tool for extruding chloride from neurons. <i>Nature Communications</i> , 2016, 7, 13495.	12.8	31
25	Human mitochondrial ribosomes can switch their structural RNA composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12198-12201.	7.1	64
26	Adult Onset Leigh Syndrome in the Intensive Care Setting: A Novel Presentation of a C12orf65 Related Mitochondrial Disease. <i>Journal of Neuromuscular Diseases</i> , 2015, 2, 409-419.	2.6	22
27	Mutations causing mitochondrial disease: What is new and what challenges remain?. <i>Science</i> , 2015, 349, 1494-1499.	12.6	251
28	The presence of highly disruptive 16S rRNA mutations in clinical samples indicates a wider role for mutations of the mitochondrial ribosome in human disease. <i>Mitochondrion</i> , 2015, 25, 17-27.	3.4	29
29	Overcoming stalled translation in human mitochondria. <i>Frontiers in Microbiology</i> , 2014, 5, 374.	3.5	16
30	A human mitochondrial poly(A) polymerase mutation reveals the complexities of post-transcriptional mitochondrial gene expression. <i>Human Molecular Genetics</i> , 2014, 23, 6345-6355.	2.9	63
31	The role of TDP1 and APTX in mitochondrial DNA repair. <i>Biochimie</i> , 2014, 100, 121-124.	2.6	19
32	Mitochondrial protein synthesis: Figuring the fundamentals, complexities and complications, of mammalian mitochondrial translation. <i>FEBS Letters</i> , 2014, 588, 2496-2503.	2.8	55
33	GRSF1 Regulates RNA Processing in Mitochondrial RNA Granules. <i>Cell Metabolism</i> , 2013, 17, 399-410.	16.2	190
34	Human pentatricopeptide proteins. <i>RNA Biology</i> , 2013, 10, 1433-1438.	3.1	56
35	REXO2 Is an Oligoribonuclease Active in Human Mitochondria. <i>PLoS ONE</i> , 2013, 8, e64670.	2.5	49
36	Termination of Protein Synthesis in Mammalian Mitochondria. <i>Journal of Biological Chemistry</i> , 2011, 286, 34479-34485.	3.4	42

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37	Human ERAL1 is a mitochondrial RNA chaperone involved in the assembly of the 28S small mitochondrial ribosomal subunit. <i>Biochemical Journal</i> , 2010, 430, 551-558.	3.7	114
38	Human mitochondrial mRNAs are like members of all families, similar but different. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1081-1085.	1.0	173
39	A functional peptidyl-tRNA hydrolase, ICT1, has been recruited into the human mitochondrial ribosome. <i>EMBO Journal</i> , 2010, 29, 1116-1125.	7.8	167
40	Targeting of the cytosolic poly(A) binding protein PABPC1 to mitochondria causes mitochondrial translation inhibition. <i>Nucleic Acids Research</i> , 2010, 38, 3732-3742.	14.5	48
41	Hungry Codons Promote Frameshifting in Human Mitochondrial Ribosomes. <i>Science</i> , 2010, 327, 301-301.	12.6	144
42	Overexpression of human mitochondrial valyl tRNA synthetase can partially restore levels of cognate mt-tRNA <sup>Val</sup> carrying the pathogenic C25U mutation. <i>Nucleic Acids Research</i> , 2008, 36, 3065-3074.	14.5	74
43	PPR (pentatricopeptide repeat) proteins in mammals: important aids to mitochondrial gene expression. <i>Biochemical Journal</i> , 2008, 416, e5-e6.	3.7	46
44	mtRF1a Is a Human Mitochondrial Translation Release Factor Decoding the Major Termination Codons UAA and UAG. <i>Molecular Cell</i> , 2007, 27, 745-757.	9.7	112
45	Investigation of a pathogenic mtDNA microdeletion reveals a translation-dependent deadenylation decay pathway in human mitochondria. <i>Human Molecular Genetics</i> , 2003, 12, 2341-2348.	2.9	93
46	Inhibition of mitochondrial protein synthesis promotes autonomous regulation of mtDNA expression and generation of a new mitochondrial RNA species. <i>FEBS Letters</i> , 2001, 494, 186-191.	2.8	16
47	Fending off decay: A combinatorial approach in intact cells for identifying mRNA stability elements. <i>Rna</i> , 2001, 7, 435-444.	3.5	5
48	An antigenomic strategy for treating heteroplasmic mtDNA disorders. <i>Advanced Drug Delivery Reviews</i> , 2001, 49, 121-125.	13.7	30
49	Reanalysis and revision of the Cambridge reference sequence for human mitochondrial DNA. <i>Nature Genetics</i> , 1999, 23, 147-147.	21.4	2,800
50	An essential guide to mtDNA maintenance. <i>Nature Genetics</i> , 1998, 18, 199-200.	21.4	15
51	Role of mitochondrial DNA mutations in human aging: Implications for the central nervous system and muscle. <i>Annals of Neurology</i> , 1998, 43, 217-223.	5.3	280
52	Selective inhibition of mutant human mitochondrial DNA replication in vitro by peptide nucleic acids. <i>Nature Genetics</i> , 1997, 15, 212-215.	21.4	252
53	Reversal of a mitochondrial DNA defect in human skeletal muscle. <i>Nature Genetics</i> , 1997, 16, 222-224.	21.4	137
54	Mammalian mitochondrial genetics: heredity, heteroplasmy and disease. <i>Trends in Genetics</i> , 1997, 13, 450-455.	6.7	415

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55	Treatment of mitochondrial disease. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 195-205.	2.3	59
56	Molecular analysis of cytochrome c Oxidase deficiency in Leigh's syndrome. <i>Annals of Neurology</i> , 1997, 41, 268-270.	5.3	87
57	The mRNA-binding protein COLBP is glutamate dehydrogenase. <i>FEBS Letters</i> , 1995, 367, 291-296.	2.8	34