

Shulamit Michaeli

List of Publications by Year in descending order

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75
papers

4,119
citations

147801

31
h-index

118850

62
g-index

80
all docs

80
docs citations

80
times ranked

3806
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evolution links post-transcriptional regulation to Leishmania fitness gain. PLoS Pathogens, 2022, 18, e1010375.	4.7	9
2	A long noncoding RNA promotes parasite differentiation in African trypanosomes. Science Advances, 2022, 8, .	10.3	12
3	Identification and functional implications of pseudouridine RNA modification on small noncoding RNAs in the mammalian pathogen Trypanosoma brucei. Journal of Biological Chemistry, 2022, 298, 102141.	3.4	4
4	Iterative optical technique for detecting anti-leishmania nanoparticles in mouse lesions. Biomedical Optics Express, 2021, 12, 4496.	2.9	6
5	Nano-Leish-IL: A novel iron oxide-based nanocomposite drug platform for effective treatment of cutaneous leishmaniasis. Journal of Controlled Release, 2021, 335, 203-215.	9.9	9
6	Pseudouridines on <i>Trypanosoma brucei</i> mRNAs are developmentally regulated: Implications to mRNA stability and protein binding. Molecular Microbiology, 2021, 116, 808-826.	2.5	12
7	Novel Nanocarrier Platform for Effective Treatment of Visceral Leishmaniasis. Bioconjugate Chemistry, 2021, 32, 2327-2341.	3.6	1
8	The Spliced Leader RNA Silencing (SLS) Pathway in Trypanosoma brucei Is Induced by Perturbations of Endoplasmic Reticulum, Golgi Complex, or Mitochondrial Protein Factors: Functional Analysis of SLS-Inducing Kinase PK3. MBio, 2021, 12, e0260221.	4.1	2
9	Genome instability drives epistatic adaptation in the human pathogen <i>Leishmania</i> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
10	Sensing Host Arginine Is Essential for <i>Leishmania</i> Parasites'™ Intracellular Development. MBio, 2020, 11, .	4.1	17
11	TrypOx, a Novel Eukaryotic Homolog of the Redox-Regulated Chaperone Hsp33 in Trypanosoma brucei. Frontiers in Microbiology, 2020, 11, 1844.	3.5	5
12	Developmentally Regulated Novel Non-coding Anti-sense Regulators of mRNA Translation in Trypanosoma brucei. IScience, 2020, 23, 101780.	4.1	14
13	The large repertoire of 2â€™-O-methylation guided by C/D snoRNAs on Trypanosoma brucei rRNA. RNA Biology, 2020, 17, 1018-1039.	3.1	21
14	The vault RNA of Trypanosoma brucei plays a role in the production of trans-spliced mRNA. Journal of Biological Chemistry, 2019, 294, 15559-15574.	3.4	16
15	Pseudouridines on Trypanosoma brucei spliceosomal small nuclear RNAs and their implication for RNA and protein interactions. Nucleic Acids Research, 2019, 47, 7633-7647.	14.5	33
16	Small nucleolar RNAs controlling rRNA processing in <i>Trypanosoma brucei</i> . Nucleic Acids Research, 2019, 47, 2609-2629.	14.5	20
17	Unique Aspects of rRNA Biogenesis in Trypanosomatids. Trends in Parasitology, 2019, 35, 778-794.	3.3	16
18	Antiparasitic Ointment Based on a Biocompatible Carbon Dot Nanocomposite. ACS Applied Nano Materials, 2018, 1, 1784-1791.	5.0	19

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19	The Canonical Poly (A) Polymerase PAP1 Polyadenylates Non-Coding RNAs and Is Essential for snoRNA Biogenesis in <i>Trypanosoma brucei</i> . <i>Journal of Molecular Biology</i> , 2017, 429, 3301-3318.	4.2	14
20	Maghemite-containing PLGA-PEG-based polymeric nanoparticles for siRNA delivery: toxicity and silencing evaluation. <i>RSC Advances</i> , 2017, 7, 26912-26920.	3.6	3
21	Exosome secretion affects social motility in <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006245.	4.7	85
22	Transcriptome and proteome analyses and the role of atypical calpain protein and autophagy in the spliced leader silencing pathway in <i>Trypanosoma brucei</i> . <i>Molecular Microbiology</i> , 2016, 102, 1-21.	2.5	4
23	A pseudouridylation switch in rRNA is implicated in ribosome function during the life cycle of <i>Trypanosoma brucei</i> . <i>Scientific Reports</i> , 2016, 6, 25296.	3.3	38
24	MicroRNA-486-5p is an erythroid oncomiR of the myeloid leukemias of Down syndrome. <i>Blood</i> , 2015, 125, 1292-1301.	1.4	66
25	The response of trypanosomes and other eukaryotes to ER stress and the spliced leader RNA silencing (SLS) pathway in <i>Trypanosoma brucei</i> . <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2015, 50, 256-267.	5.2	10
26	Acute <i>In Vivo</i> Toxicity Mitigation of PEI-Coated Maghemite Nanoparticles Using Controlled Oxidation and Surface Modifications toward siRNA Delivery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15240-15255.	8.0	28
27	Genome-wide analysis of small nucleolar RNAs of <i>Leishmania major</i> reveals a rich repertoire of RNAs involved in modification and processing of rRNA. <i>RNA Biology</i> , 2015, 12, 1222-1255.	3.1	29
28	Unique Surface Modification of Silica Nanoparticles with Polyethylenimine (PEI) for siRNA Delivery Using Cerium Cation Coordination Chemistry. <i>Bioconjugate Chemistry</i> , 2015, 26, 880-889.	3.6	23
29	Two splicing factors carrying serine-arginine motifs, TSR1 and TSR1IP, regulate splicing, mRNA stability, and rRNA processing in <i>Trypanosoma brucei</i> . <i>RNA Biology</i> , 2014, 11, 715-731.	3.1	36
30	The Streamlined Genome of <i>Phytomonas</i> spp. Relative to Human Pathogenic Kinetoplastids Reveals a Parasite Tailored for Plants. <i>PLoS Genetics</i> , 2014, 10, e1004007.	3.5	66
31	Phosphorylation of the TATA-binding protein activates the spliced leader silencing pathway in <i>Trypanosoma brucei</i> . <i>Science Signaling</i> , 2014, 7, ra85.	3.6	22
32	Ce ^{3+/4+} cation-functionalized maghemite nanoparticles towards siRNA-mediated gene silencing. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6215-6225.	5.8	31
33	Non-coding RNA and the complex regulation of the trypanosome life cycle. <i>Current Opinion in Microbiology</i> , 2014, 20, 146-152.	5.1	7
34	miR-142 orchestrates a network of actin cytoskeleton regulators during megakaryopoiesis. <i>ELife</i> , 2014, 3, e01964.	6.0	67
35	Basal Splicing Factors Regulate the Stability of Mature mRNAs in Trypanosomes. <i>Journal of Biological Chemistry</i> , 2013, 288, 4991-5006.	3.4	33
36	The <i>Trypanosoma brucei</i> telomerase RNA (TER) homologue binds core proteins of the C/D snoRNA family. <i>FEBS Letters</i> , 2013, 587, 1399-1404.	2.8	28

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37	The hnRNP F/H homologue of <i>Trypanosoma brucei</i> is differentially expressed in the two life cycle stages of the parasite and regulates splicing and mRNA stability. <i>Nucleic Acids Research</i> , 2013, 41, 6577-6594.	14.5	44
38	Intradermal air pouch leukocytosis as an in vivo test for nanoparticles. <i>International Journal of Nanomedicine</i> , 2013, 8, 4745.	6.7	42
39	RNA-seq analysis of small RNPs in <i>Trypanosoma brucei</i> reveals a rich repertoire of non-coding RNAs. <i>Nucleic Acids Research</i> , 2012, 40, 1282-1298.	14.5	32
40	Spliced leader RNA silencing (SLS) - a programmed cell death pathway in <i>Trypanosoma brucei</i> that is induced upon ER stress. <i>Parasites and Vectors</i> , 2012, 5, 107.	2.5	23
41	rRNA Biogenesis in Trypanosomes. <i>Nucleic Acids and Molecular Biology</i> , 2012, , 123-148.	0.2	8
42	Trans-splicing in trypanosomes: machinery and its impact on the parasite transcriptome. <i>Future Microbiology</i> , 2011, 6, 459-474.	2.0	169
43	Encapsulation of RNA Molecules in BSA Microspheres and Internalization into <i>Trypanosoma Brucei</i> Parasites and Human U2OS Cancer Cells. <i>Advanced Functional Materials</i> , 2011, 21, 3659-3666.	14.9	35
44	Analysis of Spliceosomal Proteins in Trypanosomatids Reveals Novel Functions in mRNA Processing*. <i>Journal of Biological Chemistry</i> , 2010, 285, 27982-27999.	3.4	45
45	RNA walk™ a novel approach to study RNA-RNA interactions between a small RNA and its target. <i>Nucleic Acids Research</i> , 2010, 38, e5-e5.	14.5	26
46	Small nucleolar RNA interference in <i>Trypanosoma brucei</i> : mechanism and utilization for elucidating the function of snoRNAs. <i>Nucleic Acids Research</i> , 2010, 38, 7236-7247.	14.5	25
47	The Transcriptome of the Human Pathogen <i>Trypanosoma brucei</i> at Single-Nucleotide Resolution. <i>PLoS Pathogens</i> , 2010, 6, e1001090.	4.7	243
48	Persistent ER Stress Induces the Spliced Leader RNA Silencing Pathway (SLS), Leading to Programmed Cell Death in <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2010, 6, e1000731.	4.7	84
49	Multiple roles for polypyrimidine tract binding (PTB) proteins in trypanosome RNA metabolism. <i>Rna</i> , 2009, 15, 648-665.	3.5	77
50	Trypanosome Spliced-Leader-Associated RNA (SLA1) Localization and Implications for Spliced-Leader RNA Biogenesis. <i>Eukaryotic Cell</i> , 2009, 8, 56-68.	3.4	31
51	Families of H/ACA ncRNA molecules in Trypanosomatids. <i>RNA Biology</i> , 2009, 6, 370-374.	3.1	10
52	Psiscan: a computational approach to identify H/ACA-like and AGA-like non-coding RNA in trypanosomatid genomes. <i>BMC Bioinformatics</i> , 2008, 9, 471.	2.6	17
53	Identification of the heptameric Lsm complex that binds U6 snRNA in <i>Trypanosoma brucei</i> . <i>Molecular and Biochemical Parasitology</i> , 2008, 160, 22-31.	1.1	28
54	Role of Protein Translocation Pathways across the Endoplasmic Reticulum in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 32085-32098.	3.4	33

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55	Elucidating the Role of C/D snoRNA in rRNA Processing and Modification in <i>Trypanosoma brucei</i> . <i>Eukaryotic Cell</i> , 2008, 7, 86-101.	3.4	47
56	Genome-Wide Analysis of C/D and H/ACA-Like Small Nucleolar RNAs in <i>Leishmania major</i> Indicates Conservation among Trypanosomatids in the Repertoire and in Their rRNA Targets. <i>Eukaryotic Cell</i> , 2007, 6, 361-377.	3.4	28
57	Down-Regulation of the Trypanosomatid Signal Recognition Particle Affects the Biogenesis of Polytropic Membrane Proteins but Not of Signal Peptide-Containing Proteins. <i>Eukaryotic Cell</i> , 2007, 6, 1865-1875.	3.4	16
58	Spliced Leader RNA silencing: a novel stress-induced mechanism in <i>Trypanosoma brucei</i> . <i>EMBO Reports</i> , 2007, 8, 408-413.	4.5	49
59	Analysis of spliceosomal complexes in <i>Trypanosoma brucei</i> and silencing of two splicing factors Prp31 and Prp43. <i>Molecular and Biochemical Parasitology</i> , 2006, 145, 29-39.	1.1	26
60	Identification of novel snRNA-specific Sm proteins that bind selectively to U2 and U4 snRNAs in <i>Trypanosoma brucei</i> . <i>Rna</i> , 2006, 13, 30-43.	3.5	36
61	A genome-wide analysis of C/D and H/ACA-like small nucleolar RNAs in <i>Trypanosoma brucei</i> reveals a trypanosome-specific pattern of rRNA modification. <i>Rna</i> , 2005, 11, 619-645.	3.5	71
62	The <i>Trypanosoma brucei</i> signal recognition particle lacks the Alu-domain-binding proteins: purification and functional analysis of its binding proteins by RNAi. <i>Journal of Cell Science</i> , 2005, 118, 4551-4562.	2.0	39
63	Elucidating the Role of H/ACA-like RNAs in trans-Splicing and rRNA Processing via RNA Interference Silencing of the <i>Trypanosoma brucei</i> CBF5 Pseudouridine Synthase*. <i>Journal of Biological Chemistry</i> , 2005, 280, 34558-34568.	3.4	50
64	The Genome of the Kinetoplastid Parasite, <i>Leishmania major</i> . <i>Science</i> , 2005, 309, 436-442.	12.6	1,237
65	Small Nucleolar RNA Clusters in Trypanosomatid <i>Leptomonas collosoma</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 5100-5109.	3.4	14
66	Small nucleolar RNAs that guide modification in trypanosomatids: repertoire, targets, genome organisation, and unique functions. <i>International Journal for Parasitology</i> , 2004, 34, 445-454.	3.1	53
67	trans and cis Splicing in Trypanosomatids: Mechanism, Factors, and Regulation. <i>Eukaryotic Cell</i> , 2003, 2, 830-840.	3.4	286
68	Silencing of Sm Proteins in <i>Trypanosoma brucei</i> by RNA Interference Captured a Novel Cytoplasmic Intermediate in Spliced Leader RNA Biogenesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 51469-51478.	3.4	74
69	Small nucleolar RNA interference induced by antisense or double-stranded RNA in trypanosomatids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7521-7526.	7.1	41
70	The Trypanosomatid Signal Recognition Particle Consists of Two RNA Molecules, a 7SL RNA Homologue and a Novel tRNA-like Molecule. <i>Journal of Biological Chemistry</i> , 2003, 278, 18271-18280.	3.4	38
71	RNA Interference of Signal Peptide-binding Protein SRP54 Elicits Deleterious Effects and Protein Sorting Defects in Trypanosomes. <i>Journal of Biological Chemistry</i> , 2002, 277, 47348-47357.	3.4	34
72	On the Role of Exon and Intron Sequences in trans-Splicing Utilization and cap 4 Modification of the Trypanosomatid <i>Leptomonas collosoma</i> SL RNA. <i>Journal of Biological Chemistry</i> , 2002, 277, 35210-35218.	3.4	36

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73	The spliced leader-associated RNA is a trypanosome-specific sn(o) RNA that has the potential to guide pseudouridine formation on the SL RNA. <i>Rna</i> , 2002, 8, 237-246.	3.5	60
74	Expression Studies on Clustered Trypanosomatid Box C/D Small Nucleolar RNAs. <i>Journal of Biological Chemistry</i> , 2001, 276, 14289-14298.	3.4	33
75	Identification of the First Trypanosome H/ACA RNA That Guides Pseudouridine Formation on rRNA. <i>Journal of Biological Chemistry</i> , 2001, 276, 40313-40318.	3.4	46