Shulamit Michaeli

List of Publications by Year
in descending order

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	The Genome of the Kinetoplastid Parasite, Leishmania major. Science, 2005, 309, 436-442.	12.6	1,237
2	trans and cis Splicing in Trypanosomatids: Mechanism, Factors, and Regulation. Eukaryotic Cell, 2003, 2, 830-840.	3.4	286
3	The Transcriptome of the Human Pathogen Trypanosoma brucei at Single-Nucleotide Resolution. PLoS Pathogens, 2010, 6, e1001090.	4.7	243
4	Trans-splicing in trypanosomes: machinery and its impact on the parasite transcriptome. Future Microbiology, 2011, 6, 459-474.	2.0	169
5	Exosome secretion affects social motility in Trypanosoma brucei. PLoS Pathogens, 2017, 13, e1006245.	4.7	85
6	Persistent ER Stress Induces the Spliced Leader RNA Silencing Pathway (SLS), Leading to Programmed Cell Death in Trypanosoma brucei. PLoS Pathogens, 2010, 6, e1000731.	4.7	84
7	Multiple roles for polypyrimidine tract binding (PTB) proteins in trypanosome RNA metabolism. Rna, 2009, 15, 648-665.	3.5	77
8	Silencing of Sm Proteins in Trypanosoma brucei by RNA Interference Captured a Novel Cytoplasmic Intermediate in Spliced Leader RNA Biogenesis. Journal of Biological Chemistry, 2003, 278, 51469-51478.	3.4	74
9	A genome-wide analysis of C/D and H/ACA-like small nucleolar RNAs in Trypanosoma brucei reveals a trypanosome-specific pattern of rRNA modification. Rna, 2005, 11, 619-645.	3.5	71
10	miR-142 orchestrates a network of actin cytoskeleton regulators during megakaryopoiesis. ELife, 2014, 3, e01964.	6.0	67
11	The Streamlined Genome of Phytomonas spp. Relative to Human Pathogenic Kinetoplastids Reveals a Parasite Tailored for Plants. PLoS Genetics, 2014, 10, e1004007.	3.5	66
12	MicroRNA-486-5p is an erythroid oncomiR of the myeloid leukemias of Down syndrome. Blood, 2015, 125, 1292-1301.	1.4	66
13	The spliced leader-associated RNA is a trypanosome-specific sn(o) RNA that has the potential to guide pseudouridine formation on the SL RNA. Rna, 2002, 8, 237-246.	3.5	60
14	Small nucleolar RNAs that guide modification in trypanosomatids: repertoire, targets, genome organisation, and unique functions. International Journal for Parasitology, 2004, 34, 445-454.	3.1	53
15	Elucidating the Role of H/ACA-like RNAs in trans-Splicing and rRNA Processing via RNA Interference Silencing of the Trypanosoma brucei CBF5 Pseudouridine Synthase*. Journal of Biological Chemistry, 2005, 280, 34558-34568.	3.4	50
16	Splicedâ€leader RNA silencing: a novel stressâ€induced mechanism in Trypanosoma brucei. EMBO Reports, 2007, 8, 408-413.	4.5	49
17	Elucidating the Role of C/D snoRNA in rRNA Processing and Modification in Trypanosoma brucei. Eukaryotic Cell, 2008, 7, 86-101.	3.4	47
18	Identification of the First Trypanosome H/ACA RNA That Guides Pseudouridine Formation on rRNA. Journal of Biological Chemistry, 2001, 276, 40313-40318.	3.4	46

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19	Analysis of Spliceosomal Proteins in Trypanosomatids Reveals Novel Functions in mRNA Processing*. Journal of Biological Chemistry, 2010, 285, 27982-27999.	3.4	45
20	The hnRNP F/H homologue of Trypanosoma brucei is differentially expressed in the two life cycle stages of the parasite and regulates splicing and mRNA stability. Nucleic Acids Research, 2013, 41, 6577-6594.	14.5	44
21	Intradermal air pouch leukocytosis as an in vivo test for nanoparticles. International Journal of Nanomedicine, 2013, 8, 4745.	6.7	42
22	Small nucleolar RNA interference induced by antisense or double-stranded RNA in trypanosomatids. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7521-7526.	7.1	41
23	The Trypanosoma brucei signal recognition particle lacks the Alu-domain-binding proteins: purification and functional analysis of its binding proteins by RNAi. Journal of Cell Science, 2005, 118, 4551-4562.	2.0	39
24	The Trypanosomatid Signal Recognition Particle Consists of Two RNA Molecules, a 7SL RNA Homologue and a Novel tRNA-like Molecule. Journal of Biological Chemistry, 2003, 278, 18271-18280.	3.4	38
25	A pseudouridylation switch in rRNA is implicated in ribosome function during the life cycle of Trypanosoma brucei. Scientific Reports, 2016, 6, 25296.	3.3	38
26	On the Role of Exon and Intron Sequences intrans-Splicing Utilization and cap 4 Modification of the Trypanosomatid Leptomonas collosoma SL RNA. Journal of Biological Chemistry, 2002, 277, 35210-35218.	3.4	36
27	Identification of novel snRNA-specific Sm proteins that bind selectively to U2 and U4 snRNAs in Trypanosoma brucei. Rna, 2006, 13, 30-43.	3.5	36
28	Two splicing factors carrying serine-arginine motifs, TSR1 and TSR1IP, regulate splicing, mRNA stability, and rRNA processing inTrypanosoma brucei. RNA Biology, 2014, 11, 715-731.	3.1	36
29	Encapsulation of RNA Molecules in BSA Microspheres and Internalization into Trypanosoma Brucei Parasites and Human U2OS Cancer Cells. Advanced Functional Materials, 2011, 21, 3659-3666.	14.9	35
30	RNA Interference of Signal Peptide-binding Protein SRP54 Elicits Deleterious Effects and Protein Sorting Defects in Trypanosomes. Journal of Biological Chemistry, 2002, 277, 47348-47357.	3.4	34
31	Expression Studies on Clustered Trypanosomatid Box C/D Small Nucleolar RNAs. Journal of Biological Chemistry, 2001, 276, 14289-14298.	3.4	33
32	Role of Protein Translocation Pathways across the Endoplasmic Reticulum in Trypanosoma brucei. Journal of Biological Chemistry, 2008, 283, 32085-32098.	3.4	33
33	Basal Splicing Factors Regulate the Stability of Mature mRNAs in Trypanosomes. Journal of Biological Chemistry, 2013, 288, 4991-5006.	3.4	33
34	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
35	RNA-seq analysis of small RNPs in Trypanosoma brucei reveals a rich repertoire of non-coding RNAs. Nucleic Acids Research, 2012, 40, 1282-1298.	14.5	32
36	Trypanosome Spliced-Leader-Associated RNA (SLA1) Localization and Implications for Spliced-Leader RNA Biogenesis. Eukaryotic Cell, 2009, 8, 56-68.	3.4	31

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37	Ce^{3/4+} cation-functionalized maghemite nanoparticles towards siRNA-mediated gene silencing. Journal of Materials Chemistry B, 2014, 2, 6215-6225.	5.8	31
38	Genome-wide analysis of small nucleolar RNAs ofLeishmania majorreveals a rich repertoire of RNAs involved in modification and processing of rRNA. RNA Biology, 2015, 12, 1222-1255.	3.1	29
39	Genome-Wide Analysis of C/D and H/ACA-Like Small Nucleolar RNAs in Leishmania major Indicates Conservation among Trypanosomatids in the Repertoire and in Their rRNA Targets. Eukaryotic Cell, 2007, 6, 361-377.	3.4	28
40	Identification of the heptameric Lsm complex that binds U6 snRNA in Trypanosoma brucei. Molecular and Biochemical Parasitology, 2008, 160, 22-31.	1.1	28
41	The Trypanosoma brucei telomerase RNA (TER) homologue binds core proteins of the C/D snoRNA family. FEBS Letters, 2013, 587, 1399-1404.	2.8	28
42	Acute in Vivo Toxicity Mitigation of PEI-Coated Maghemite Nanoparticles Using Controlled Oxidation and Surface Modifications toward siRNA Delivery. ACS Applied Materials & Interfaces, 2015, 7, 15240-15255.	8.0	28
43	Analysis of spliceosomal complexes in Trypanosoma brucei and silencing of two splicing factors Prp31 and Prp43. Molecular and Biochemical Parasitology, 2006, 145, 29-39.	1.1	26
44	â€˜RNA walkâ€™ a novel approach to study RNAâ€“RNA interactions between a small RNA and its target. Nucleic Acids Research, 2010, 38, e5-e5.	14.5	26
45	Small nucleolar RNA interference in Trypanosoma brucei: mechanism and utilization for elucidating the function of snoRNAs. Nucleic Acids Research, 2010, 38, 7236-7247.	14.5	25
46	Spliced leader RNA silencing (SLS) - a programmed cell death pathway in Trypanosoma brucei that is induced upon ER stress. Parasites and Vectors, 2012, 5, 107.	2.5	23
47	Unique Surface Modification of Silica Nanoparticles with Polyethylenimine (PEI) for siRNA Delivery Using Cerium Cation Coordination Chemistry. Bioconjugate Chemistry, 2015, 26, 880-889.	3.6	23
48	Phosphorylation of the TATA-binding protein activates the spliced leader silencing pathway in Trypanosoma brucei. Science Signaling, 2014, 7, ra85.	3.6	22
49	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
50	Small nucleolar RNAs controlling rRNA processing in Trypanosoma brucei. Nucleic Acids Research, 2019, 47, 2609-2629.	14.5	20
51	Antiparasitic Ointment Based on a Biocompatibile Carbon Dot Nanocomposite. ACS Applied Nano Materials, 2018, 1, 1784-1791.	5.0	19
52	Genome instability drives epistatic adaptation in the human pathogenLeishmania. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
53	Psiscan: a computational approach to identify H/ACA-like and AGA-like non-coding RNA in trypanosomatid genomes. BMC Bioinformatics, 2008, 9, 471.	2.6	17
54	Sensing Host Arginine Is Essential for Leishmania Parasitesâ€™ Intracellular Development. MBio, 2020, 11, .	4.1	17

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55	Down-Regulation of the Trypanosomatid Signal Recognition Particle Affects the Biogenesis of Polytopic Membrane Proteins but Not of Signal Peptide-Containing Proteins. Eukaryotic Cell, 2007, 6, 1865-1875.	3.4	16
56	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
57	Unique Aspects of rRNA Biogenesis in Trypanosomatids. Trends in Parasitology, 2019, 35, 778-794.	3.3	16
58	Small Nucleolar RNA Clusters in Trypanosomatid Leptomonas collosoma. Journal of Biological Chemistry, 2004, 279, 5100-5109.	3.4	14
59	The Canonical Poly (A) Polymerase PAP1 Polyadenylates Non-Coding RNAs and Is Essential for snoRNA Biogenesis in Trypanosoma brucei. Journal of Molecular Biology, 2017, 429, 3301-3318.	4.2	14
60	Developmentally Regulated Novel Non-coding Anti-sense Regulators of mRNA Translation in Trypanosoma brucei. IScience, 2020, 23, 101780.	4.1	14
61	Pseudouridines on Trypanosoma brucei mRNAs are developmentally regulated: Implications to mRNA stability and protein binding. Molecular Microbiology, 2021, 116, 808-826.	2.5	12
62	A long noncoding RNA promotes parasite differentiation in African trypanosomes. Science Advances, 2022, 8, .	10.3	12
63	Families of H/ACA ncRNA molecules in Trypanosomatids. RNA Biology, 2009, 6, 370-374.	3.1	10
64	The response of trypanosomes and other eukaryotes to ER stress and the spliced leader RNA silencing (SLS) pathway inTrypanosoma brucei. Critical Reviews in Biochemistry and Molecular Biology, 2015, 50, 256-267.	5.2	10
65	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
66	Experimental evolution links post-transcriptional regulation to Leishmania fitness gain. PLoS Pathogens, 2022, 18, e1010375.	4.7	9
67	rRNA Biogenesis in Trypanosomes. Nucleic Acids and Molecular Biology, 2012, , 123-148.	0.2	8
68	Non-coding RNA and the complex regulation of the trypanosome life cycle. Current Opinion in Microbiology, 2014, 20, 146-152.	5.1	7
69	Iterative optical technique for detecting anti-leishmania nanoparticles in mouse lesions. Biomedical Optics Express, 2021, 12, 4496.	2.9	6
70	TrypOx, a Novel Eukaryotic Homolog of the Redox-Regulated Chaperone Hsp33 in Trypanosoma brucei. Frontiers in Microbiology, 2020, 11, 1844.	3.5	5
71	Transcriptome and proteome analyses and the role of atypical calpain protein and autophagy in the spliced leader silencing pathway in Trypanosoma brucei. Molecular Microbiology, 2016, 102, 1-21.	2.5	4
72	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

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73	Maghemite-containing PLGAâ€“PEG-based polymeric nanoparticles for siRNA delivery: toxicity and silencing evaluation. RSC Advances, 2017, 7, 26912-26920.	3.6	3
74	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
75	Novel Nanocarrier Platform for Effective Treatment of Visceral Leishmaniasis. Bioconjugate Chemistry, 2021, 32, 2327-2341.	3.6	1