

# Erez Y Levanon

## List of Publications by Year in descending order

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101  
papers

12,837  
citations

57758

44  
h-index

31849

101  
g-index

108  
all docs

108  
docs citations

108  
times ranked

15923  
citing authors

#	ARTICLE	IF	CITATIONS
1	m <sup>6</sup> A mRNA methylation facilitates resolution of naïve pluripotency toward differentiation. <i>Science</i> , 2015, 347, 1002-1006.	12.6	1,288
2	Human housekeeping genes, revisited. <i>Trends in Genetics</i> , 2013, 29, 569-574.	6.7	1,091
3	Analysis of Intron Sequences Reveals Hallmarks of Circular RNA Biogenesis in Animals. <i>Cell Reports</i> , 2015, 10, 170-177.	6.4	918
4	Systematic identification of abundant A-to-I editing sites in the human transcriptome. <i>Nature Biotechnology</i> , 2004, 22, 1001-1005.	17.5	740
5	Human housekeeping genes are compact. <i>Trends in Genetics</i> , 2003, 19, 362-365.	6.7	612
6	Widespread occurrence of antisense transcription in the human genome. <i>Nature Biotechnology</i> , 2003, 21, 379-386.	17.5	607
7	A-to-I RNA editing occurs at over a hundred million genomic sites, located in a majority of human genes. <i>Genome Research</i> , 2014, 24, 365-376.	5.5	492
8	Genome-Wide Identification of Human RNA Editing Sites by Parallel DNA Capturing and Sequencing. <i>Science</i> , 2009, 324, 1210-1213.	12.6	483
9	Loss of ADAR1 in tumours overcomes resistance to immune checkpoint blockade. <i>Nature</i> , 2019, 565, 43-48.	27.8	449
10	A-to-I RNA editing is an immune protector and transcriptome diversifier. <i>Nature Reviews Genetics</i> , 2018, 19, 473-490.	16.3	402
11	Altered adenosine-to-inosine RNA editing in human cancer. <i>Genome Research</i> , 2007, 17, 1586-1595.	5.5	292
12	Trade-off between Transcriptome Plasticity and Genome Evolution in Cephalopods. <i>Cell</i> , 2017, 169, 191-202.e11.	28.9	268
13	Elevated RNA Editing Activity Is a Major Contributor to Transcriptomic Diversity in Tumors. <i>Cell Reports</i> , 2015, 13, 267-276.	6.4	262
14	A genome-wide map of hyper-edited RNA reveals numerous new sites. <i>Nature Communications</i> , 2014, 5, 4726.	12.8	193
15	Preferential Attachment in the Protein Network Evolution. <i>Physical Review Letters</i> , 2003, 91, 138701.	7.8	183
16	Evolutionarily conserved human targets of adenosine to inosine RNA editing. <i>Nucleic Acids Research</i> , 2005, 33, 1162-1168.	14.5	177
17	RNA-editing-mediated exon evolution. <i>Genome Biology</i> , 2007, 8, R29.	9.6	174
18	Identification of ADAR1 adenosine deaminase dependency in a subset of cancer cells. <i>Nature Communications</i> , 2018, 9, 5450.	12.8	157

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19	Adenosine-to-inosine RNA editing shapes transcriptome diversity in primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12174-12179.	7.1	155
20	Mammalian conserved ADAR targets comprise only a small fragment of the human editosome. <i>Genome Biology</i> , 2014, 15, R5.	9.6	152
21	Human cancer tissues exhibit reduced A-to-I editing of miRNAs coupled with elevated editing of their targets. <i>Nucleic Acids Research</i> , 2018, 46, 71-82.	14.5	138
22	Identification of recurrent regulated alternative splicing events across human solid tumors. <i>Nucleic Acids Research</i> , 2015, 43, 5130-5144.	14.5	137
23	RNA editing level in the mouse is determined by the genomic repeat repertoire. <i>Rna</i> , 2006, 12, 1802-1809.	3.5	135
24	Intronic Alus Influence Alternative Splicing. <i>PLoS Genetics</i> , 2008, 4, e1000204.	3.5	129
25	Genome-wide quantification of ADAR adenosine-to-inosine RNA editing activity. <i>Nature Methods</i> , 2019, 16, 1131-1138.	19.0	126
26	Is abundant A-to-I RNA editing primate-specific?. <i>Trends in Genetics</i> , 2005, 21, 77-81.	6.7	125
27	Genome-wide adaptive complexes to underground stresses in blind mole rats <i>Spalax</i> . <i>Nature Communications</i> , 2014, 5, 3966.	12.8	124
28	The majority of transcripts in the squid nervous system are extensively recoded by A-to-I RNA editing. <i>ELife</i> , 2015, 4, .	6.0	124
29	Reduced levels of protein recoding by A-to-I RNA editing in Alzheimer's disease. <i>Rna</i> , 2016, 22, 290-302.	3.5	122
30	Massive A-to-I RNA editing is common across the Metazoa and correlates with dsRNA abundance. <i>Genome Biology</i> , 2017, 18, 185.	8.8	118
31	Genome-wide analysis of Alu editability. <i>Nucleic Acids Research</i> , 2014, 42, 6876-6884.	14.5	99
32	A Parkinson's disease Circ <i>scRNA</i> Resource reveals a link between circ <i>SLC8A1</i> and oxidative stress. <i>EMBO Molecular Medicine</i> , 2020, 12, e11942.	6.9	93
33	Increased RNA Editing May Provide a Source for Autoantigens in Systemic Lupus Erythematosus. <i>Cell Reports</i> , 2018, 23, 50-57.	6.4	91
34	<i>scRNA</i> editing of Filamin A <i>pre-mRNA</i> regulates vascular contraction and diastolic blood pressure. <i>EMBO Journal</i> , 2018, 37, .	7.8	86
35	Identification of Widespread Ultra-Edited Human RNAs. <i>PLoS Genetics</i> , 2011, 7, e1002317.	3.5	79
36	RNA editing by ADAR1 leads to context-dependent transcriptome-wide changes in RNA secondary structure. <i>Nature Communications</i> , 2017, 8, 1440.	12.8	77

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37	Fmrp Interacts with Adar and Regulates RNA Editing, Synaptic Density and Locomotor Activity in Zebrafish. <i>PLoS Genetics</i> , 2015, 11, e1005702.	3.5	76
38	Specific inhibition of splicing factor activity by decoy RNA oligonucleotides. <i>Nature Communications</i> , 2019, 10, 1590.	12.8	70
39	Cloaked similarity between HIV-1 and SARS-CoV suggests an anti-SARS strategy. <i>BMC Microbiology</i> , 2003, 3, 20.	3.3	69
40	Extensive RNA editing and splicing increase immune self-representation diversity in medullary thymic epithelial cells. <i>Genome Biology</i> , 2016, 17, 219.	8.8	67
41	DNA Editing by APOBECs: A Genomic Preserver and Transformer. <i>Trends in Genetics</i> , 2016, 32, 16-28.	6.7	64
42	Evidence for large diversity in the human transcriptome created by Alu RNA editing. <i>Nucleic Acids Research</i> , 2009, 37, 6905-6915.	14.5	58
43	Inherited retinal diseases: Linking genes, disease-causing variants, and relevant therapeutic modalities. <i>Progress in Retinal and Eye Research</i> , 2022, 89, 101029.	15.5	58
44	RNA editing is abundant and correlates with task performance in a social bumblebee. <i>Nature Communications</i> , 2019, 10, 1605.	12.8	57
45	Letter from the editor: adenosine-to-inosine RNA editing in Alu repeats in the human genome. <i>EMBO Reports</i> , 2005, 6, 831-835.	4.5	51
46	Dynamic hyper-editing underlies temperature adaptation in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2017, 13, e1006931.	3.5	51
47	Identification of RNA editing sites in the SNP database. <i>Nucleic Acids Research</i> , 2005, 33, 4612-4617.	14.5	48
48	The cell line A-to-I RNA editing catalogue. <i>Nucleic Acids Research</i> , 2020, 48, 5849-5858.	14.5	47
49	Whole-genome sequencing reveals principles of brain retrotransposition in neurodevelopmental disorders. <i>Cell Research</i> , 2018, 28, 187-203.	12.0	46
50	Landscape of adenosine-to-inosine RNA recoding across human tissues. <i>Nature Communications</i> , 2022, 13, 1184.	12.8	46
51	A-to-I RNA Editing in the Earliest-Diverging Eumetazoan Phyla. <i>Molecular Biology and Evolution</i> , 2017, 34, 1890-1901.	8.9	45
52	Large-scale DNA editing of retrotransposons accelerates mammalian genome evolution. <i>Nature Communications</i> , 2011, 2, 519.	12.8	43
53	Is there any sense in antisense editing?. <i>Trends in Genetics</i> , 2005, 21, 544-547.	6.7	42
54	ROP: dumpster diving in RNA-sequencing to find the source of 1 trillion reads across diverse adult human tissues. <i>Genome Biology</i> , 2018, 19, 36.	8.8	42

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55	Age-related gene-specific changes of A-to-I mRNA editing in the human brain. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 445-447.	4.6	40
56	A Survey of Genomic Traces Reveals a Common Sequencing Error, RNA Editing, and DNA Editing. <i>PLoS Genetics</i> , 2010, 6, e1000954.	3.5	40
57	Abnormalities in A-to-I RNA editing patterns in CNS injuries correlate with dynamic changes in cell type composition. <i>Scientific Reports</i> , 2017, 7, 43421.	3.3	40
58	Activity-Dependent A-to-I RNA Editing in Rat Cortical Neurons. <i>Genetics</i> , 2012, 192, 281-287.	2.9	36
59	A-to-I RNA Editing: An Overlooked Source of Cancer Mutations. <i>Cancer Cell</i> , 2018, 33, 789-790.	16.8	36
60	Sequence based identification of RNA editing sites. <i>RNA Biology</i> , 2010, 7, 248-252.	3.1	35
61	Decreased A-to-I RNA editing as a source of keratinocytes' dsRNA in psoriasis. <i>Rna</i> , 2018, 24, 828-840.	3.5	34
62	Consistent levels of A-to-I RNA editing across individuals in coding sequences and non-conserved Alu repeats. <i>BMC Genomics</i> , 2010, 11, 608.	2.8	33
63	Purifying selection of long dsRNA is the first line of defense against false activation of innate immunity. <i>Genome Biology</i> , 2020, 21, 26.	8.8	31
64	DNA Editing of LTR Retrotransposons Reveals the Impact of APOBECs on Vertebrate Genomes. <i>Molecular Biology and Evolution</i> , 2016, 33, 554-567.	8.9	29
65	A novel homozygous splice site mutation in NALCN identified in siblings with cachexia, strabismus, severe intellectual disability, epilepsy and abnormal respiratory rhythm. <i>European Journal of Medical Genetics</i> , 2016, 59, 204-209.	1.3	28
66	Computational approaches for detection and quantification of A-to-I RNA-editing. <i>Methods</i> , 2019, 156, 25-31.	3.8	28
67	Differential inhibition of LINE1 and LINE2 retrotransposition by vertebrate AID/APOBEC proteins. <i>Retrovirology</i> , 2013, 10, 156.	2.0	25
68	Transcriptome, genetic editing, and microRNA divergence substantiate sympatric speciation of blind mole rat, <i>Spalax</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7584-7589.	7.1	25
69	Characterization of the nodulation plasmid encoded chemoreceptor gene mcpG from <i>Rhizobium leguminosarum</i> . <i>BMC Microbiology</i> , 2003, 3, 1.	3.3	24
70	Increased RNA editing in maternal immune activation model of neurodevelopmental disease. <i>Nature Communications</i> , 2020, 11, 5236.	12.8	24
71	Evidence for abundant transcription of non-coding regions in the <i>Saccharomyces cerevisiae</i> genome. <i>BMC Genomics</i> , 2005, 6, 93.	2.8	23
72	Activation-Induced Cytidine Deaminase Links Ovulation-Induced Inflammation and Serous Carcinogenesis. <i>Neoplasia</i> , 2016, 18, 90-99.	5.3	23

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73	Biallelic DMXL2 mutations impair autophagy and cause Ohtahara syndrome with progressive course. <i>Brain</i> , 2019, 142, 3876-3891.	7.6	23
74	Systematic identification of A-to-I RNA editing in zebrafish development and adult organs. <i>Nucleic Acids Research</i> , 2021, 49, 4325-4337.	14.5	21
75	Deciphering the principles of the RNA editing code via large-scale systematic probing. <i>Molecular Cell</i> , 2021, 81, 2374-2387.e3.	9.7	20
76	Novel mutation in TSPAN12 leads to autosomal recessive inheritance of congenital vitreoretinal disease with intrafamilial phenotypic variability. <i>American Journal of Medical Genetics, Part A</i> , 2014, 164, 2996-3002.	1.2	17
77	Does RNA editing compensate for Alu invasion of the primate genome?. <i>BioEssays</i> , 2015, 37, 175-181.	2.5	17
78	Control and automation of multilayered integrated microfluidic device fabrication. <i>Lab on A Chip</i> , 2017, 17, 557-566.	6.0	17
79	RNA editing contributes to epitranscriptome diversity in chronic lymphocytic leukemia. <i>Leukemia</i> , 2021, 35, 1053-1063.	7.2	17
80	From genome to antivirals: SARS as a test tube. <i>Drug Discovery Today</i> , 2005, 10, 345-352.	6.4	16
81	Integrating networks and comparative genomics reveals retroelement proliferation dynamics in hominid genomes. <i>Science Advances</i> , 2017, 3, e1701256.	10.3	16
82	Characterizing of functional human coding RNA editing from evolutionary, structural, and dynamic perspectives. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3117-3131.	2.6	15
83	DNA and RNA editing of retrotransposons accelerate mammalian genome evolution. <i>Annals of the New York Academy of Sciences</i> , 2015, 1341, 115-125.	3.8	15
84	Adenosine-to-Inosine RNA Editing Within Corticolimbic Brain Regions Is Regulated in Response to Chronic Social Defeat Stress in Mice. <i>Frontiers in Psychiatry</i> , 2019, 10, 277.	2.6	15
85	Connectivity and expression in protein networks: Proteins in a complex are uniformly expressed. <i>Physical Review E</i> , 2006, 73, 031909.	2.1	14
86	Positive correlation between ADAR expression and its targets suggests a complex regulation mediated by RNA editing in the human brain. <i>RNA Biology</i> , 2014, 11, 1447-1456.	3.1	14
87	Clustered mutations in hominid genome evolution are consistent with APOBEC3G enzymatic activity. <i>Genome Research</i> , 2016, 26, 579-587.	5.5	14
88	Global quantification exposes abundant low-level off-target activity by base editors. <i>Genome Research</i> , 2021, 31, 2354-2361.	5.5	14
89	Algorithmic approaches for identification of RNA editing sites. <i>Briefings in Functional Genomics &amp; Proteomics</i> , 2006, 5, 43-45.	3.8	13
90	Evolution of multicellularity in Metazoa: comparative analysis of the subcellular localization of proteins in <i>Saccharomyces</i> , <i>Drosophila</i> and <i>Caenorhabditis</i> . <i>Cell Biology International</i> , 2004, 28, 171-178.	3.0	11

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91	ALU A-to-I RNA Editing: Millions of Sites and Many Open Questions. <i>Methods in Molecular Biology</i> , 2021, 2181, 149-162.	0.9	11
92	Efficiency of complex production in changing environment. <i>BMC Systems Biology</i> , 2009, 3, 3.	3.0	9
93	The importance of alternative splicing in the drug discovery process. <i>Targets</i> , 2003, 2, 109-114.	0.3	8
94	RNA editing of the 5-HT <sub>2C</sub> receptor in the central nucleus of the amygdala is involved in resilience behavior. <i>Translational Psychiatry</i> , 2021, 11, 137.	4.8	6
95	The New RNA-Editing Era – Ethical Considerations. <i>Trends in Genetics</i> , 2021, 37, 685-687.	6.7	4
96	Detection of A-to-I Hyper-edited RNA Sequences. <i>Methods in Molecular Biology</i> , 2021, 2181, 213-227.	0.9	3
97	Expanding preconception carrier screening for the Jewish population using high throughput microfluidics technology and next generation sequencing. <i>BMC Medical Genomics</i> , 2016, 9, 24.	1.5	2
98	Promoting RNA editing by ADAR attraction. <i>Genome Biology</i> , 2017, 18, 196.	8.8	2
99	A-to-I Editing of ALU Repeats. , 0, , 255-279.		0
100	Major Dysregulated Gene Sets and Increased RNA Editing in PolyI:C Treated Mice May Contribute to the Emergence of Major Neurodevelopmental Disorders. <i>Biological Psychiatry</i> , 2020, 87, S304.	1.3	0
101	PO-675-08 A-G RNA EDITING AS A MEDIATOR OF ATRIAL FIBRILLATION. <i>Heart Rhythm</i> , 2022, 19, S342.	0.7	0