

Erez Y Levanon

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

12,837
citations

66250

44
h-index

36203

101
g-index

108
all docs

108
docs citations

108
times ranked

17657
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Inherited retinal diseases: Linking genes, disease-causing variants, and relevant therapeutic modalities. <i>Progress in Retinal and Eye Research</i> , 2022, 89, 101029. | 7.3 | 58 |
| 2 | Landscape of adenosine-to-inosine RNA recoding across human tissues. <i>Nature Communications</i> , 2022, 13, 1184. | 5.8 | 46 |
| 3 | PO-675-08 A-G RNA EDITING AS A MEDIATOR OF ATRIAL FIBRILLATION. <i>Heart Rhythm</i> , 2022, 19, S342. | 0.3 | 0 |
| 4 | RNA editing contributes to epitranscriptome diversity in chronic lymphocytic leukemia. <i>Leukemia</i> , 2021, 35, 1053-1063. | 3.3 | 17 |
| 5 | RNA editing of the 5-HT _{2C} receptor in the central nucleus of the amygdala is involved in resilience behavior. <i>Translational Psychiatry</i> , 2021, 11, 137. | 2.4 | 6 |
| 6 | Systematic identification of A-to-I RNA editing in zebrafish development and adult organs. <i>Nucleic Acids Research</i> , 2021, 49, 4325-4337. | 6.5 | 21 |
| 7 | Deciphering the principles of the RNA editing code via large-scale systematic probing. <i>Molecular Cell</i> , 2021, 81, 2374-2387.e3. | 4.5 | 20 |
| 8 | The New RNA-Editing Era – Ethical Considerations. <i>Trends in Genetics</i> , 2021, 37, 685-687. | 2.9 | 4 |
| 9 | Detection of A-to-I Hyper-edited RNA Sequences. <i>Methods in Molecular Biology</i> , 2021, 2181, 213-227. | 0.4 | 3 |
| 10 | ALU A-to-I RNA Editing: Millions of Sites and Many Open Questions. <i>Methods in Molecular Biology</i> , 2021, 2181, 149-162. | 0.4 | 11 |
| 11 | Global quantification exposes abundant low-level off-target activity by base editors. <i>Genome Research</i> , 2021, 31, 2354-2361. | 2.4 | 14 |
| 12 | A Parkinson's disease Circ RNA s Resource reveals a link between circ SLC8A1 and oxidative stress. <i>EMBO Molecular Medicine</i> , 2020, 12, e11942. | 3.3 | 93 |
| 13 | Major Dysregulated Gene Sets and Increased RNA Editing in Poly:C Treated Mice May Contribute to the Emergence of Major Neurodevelopmental Disorders. <i>Biological Psychiatry</i> , 2020, 87, S304. | 0.7 | 0 |
| 14 | Increased RNA editing in maternal immune activation model of neurodevelopmental disease. <i>Nature Communications</i> , 2020, 11, 5236. | 5.8 | 24 |
| 15 | The cell line A-to-I RNA editing catalogue. <i>Nucleic Acids Research</i> , 2020, 48, 5849-5858. | 6.5 | 47 |
| 16 | Purifying selection of long dsRNA is the first line of defense against false activation of innate immunity. <i>Genome Biology</i> , 2020, 21, 26. | 3.8 | 31 |
| 17 | Biallelic DMXL2 mutations impair autophagy and cause Ohtahara syndrome with progressive course. <i>Brain</i> , 2019, 142, 3876-3891. | 3.7 | 23 |
| 18 | Genome-wide quantification of ADAR adenosine-to-inosine RNA editing activity. <i>Nature Methods</i> , 2019, 16, 1131-1138. | 9.0 | 126 |

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|----|---|------|-----------|
| 19 | 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. | 1.3 | 15 |
| 20 | Specific inhibition of splicing factor activity by decoy RNA oligonucleotides. <i>Nature Communications</i> , 2019, 10, 1590. | 5.8 | 70 |
| 21 | RNA editing is abundant and correlates with task performance in a social bumblebee. <i>Nature Communications</i> , 2019, 10, 1605. | 5.8 | 57 |
| 22 | Loss of ADAR1 in tumours overcomes resistance to immune checkpoint blockade. <i>Nature</i> , 2019, 565, 43-48. | 13.7 | 449 |
| 23 | Computational approaches for detection and quantification of A-to-I RNA-editing. <i>Methods</i> , 2019, 156, 25-31. | 1.9 | 28 |
| 24 | A-to-I RNA editing is an immune protector and transcriptome diversifier. <i>Nature Reviews Genetics</i> , 2018, 19, 473-490. | 7.7 | 402 |
| 25 | Increased RNA Editing May Provide a Source for Autoantigens in Systemic Lupus Erythematosus. <i>Cell Reports</i> , 2018, 23, 50-57. | 2.9 | 91 |
| 26 | 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. | 6.5 | 138 |
| 27 | Whole-genome sequencing reveals principles of brain retrotransposition in neurodevelopmental disorders. <i>Cell Research</i> , 2018, 28, 187-203. | 5.7 | 46 |
| 28 | Decreased A-to-I RNA editing as a source of keratinocytes' dsRNA in psoriasis. <i>Rna</i> , 2018, 24, 828-840. | 1.6 | 34 |
| 29 | Identification of ADAR1 adenosine deaminase dependency in a subset of cancer cells. <i>Nature Communications</i> , 2018, 9, 5450. | 5.8 | 157 |
| 30 | A-to-I RNA Editing: An Overlooked Source of Cancer Mutations. <i>Cancer Cell</i> , 2018, 33, 789-790. | 7.7 | 36 |
| 31 | 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. | 3.8 | 42 |
| 32 | RNA editing of Filamin A pre-mRNA regulates vascular contraction and diastolic blood pressure. <i>EMBO Journal</i> , 2018, 37, . | 3.5 | 86 |
| 33 | Control and automation of multilayered integrated microfluidic device fabrication. <i>Lab on A Chip</i> , 2017, 17, 557-566. | 3.1 | 17 |
| 34 | 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. | 1.6 | 40 |
| 35 | A-to-I RNA Editing in the Earliest-Diverging Eumetazoan Phyla. <i>Molecular Biology and Evolution</i> , 2017, 34, 1890-1901. | 3.5 | 45 |
| 36 | Trade-off between Transcriptome Plasticity and Genome Evolution in Cephalopods. <i>Cell</i> , 2017, 169, 191-202.e11. | 13.5 | 268 |

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|----|--|-----|-----------|
| 37 | Integrating networks and comparative genomics reveals retroelement proliferation dynamics in hominid genomes. <i>Science Advances</i> , 2017, 3, e1701256. | 4.7 | 16 |
| 38 | RNA editing by ADAR1 leads to context-dependent transcriptome-wide changes in RNA secondary structure. <i>Nature Communications</i> , 2017, 8, 1440. | 5.8 | 77 |
| 39 | Dynamic hyper-editing underlies temperature adaptation in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2017, 13, e1006931. | 1.5 | 51 |
| 40 | Massive A-to-I RNA editing is common across the Metazoa and correlates with dsRNA abundance. <i>Genome Biology</i> , 2017, 18, 185. | 3.8 | 118 |
| 41 | Promoting RNA editing by ADAR attraction. <i>Genome Biology</i> , 2017, 18, 196. | 3.8 | 2 |
| 42 | Extensive RNA editing and splicing increase immune self-representation diversity in medullary thymic epithelial cells. <i>Genome Biology</i> , 2016, 17, 219. | 3.8 | 67 |
| 43 | A novel homozygous splice site mutation in <i>NALCN</i> 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. | 0.7 | 28 |
| 44 | Clustered mutations in hominid genome evolution are consistent with APOBEC3G enzymatic activity. <i>Genome Research</i> , 2016, 26, 579-587. | 2.4 | 14 |
| 45 | 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. | 0.7 | 2 |
| 46 | 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. | 3.3 | 25 |
| 47 | Activation-Induced Cytidine Deaminase Links Ovulation-Induced Inflammation and Serous Carcinogenesis. <i>Neoplasia</i> , 2016, 18, 90-99. | 2.3 | 23 |
| 48 | Reduced levels of protein recoding by A-to-I RNA editing in Alzheimer's disease. <i>Rna</i> , 2016, 22, 290-302. | 1.6 | 122 |
| 49 | DNA Editing of LTR Retrotransposons Reveals the Impact of APOBECs on Vertebrate Genomes. <i>Molecular Biology and Evolution</i> , 2016, 33, 554-567. | 3.5 | 29 |
| 50 | DNA Editing by APOBECs: A Genomic Preserver and Transformer. <i>Trends in Genetics</i> , 2016, 32, 16-28. | 2.9 | 64 |
| 51 | The majority of transcripts in the squid nervous system are extensively recoded by A-to-I RNA editing. <i>ELife</i> , 2015, 4, . | 2.8 | 124 |
| 52 | Fmrp Interacts with Adar and Regulates RNA Editing, Synaptic Density and Locomotor Activity in Zebrafish. <i>PLoS Genetics</i> , 2015, 11, e1005702. | 1.5 | 76 |
| 53 | Elevated RNA Editing Activity Is a Major Contributor to Transcriptomic Diversity in Tumors. <i>Cell Reports</i> , 2015, 13, 267-276. | 2.9 | 262 |
| 54 | m ⁶ A mRNA methylation facilitates resolution of naïve pluripotency toward differentiation. <i>Science</i> , 2015, 347, 1002-1006. | 6.0 | 1,288 |

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|----|---|------|-----------|
| 55 | Analysis of Intron Sequences Reveals Hallmarks of Circular RNA Biogenesis in Animals. <i>Cell Reports</i> , 2015, 10, 170-177. | 2.9 | 918 |
| 56 | Does RNA editing compensate for Alu invasion of the primate genome?. <i>BioEssays</i> , 2015, 37, 175-181. | 1.2 | 17 |
| 57 | DNA and RNA editing of retrotransposons accelerate mammalian genome evolution. <i>Annals of the New York Academy of Sciences</i> , 2015, 1341, 115-125. | 1.8 | 15 |
| 58 | Identification of recurrent regulated alternative splicing events across human solid tumors. <i>Nucleic Acids Research</i> , 2015, 43, 5130-5144. | 6.5 | 137 |
| 59 | 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. | 0.7 | 17 |
| 60 | 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. | 1.5 | 14 |
| 61 | A genome-wide map of hyper-edited RNA reveals numerous new sites. <i>Nature Communications</i> , 2014, 5, 4726. | 5.8 | 193 |
| 62 | 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. | 2.4 | 492 |
| 63 | Genome-wide analysis of Alu editability. <i>Nucleic Acids Research</i> , 2014, 42, 6876-6884. | 6.5 | 99 |
| 64 | Characterizing of functional human coding RNA editing from evolutionary, structural, and dynamic perspectives. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3117-3131. | 1.5 | 15 |
| 65 | Genome-wide adaptive complexes to underground stresses in blind mole rats <i>Spalax</i> . <i>Nature Communications</i> , 2014, 5, 3966. | 5.8 | 124 |
| 66 | Mammalian conserved ADAR targets comprise only a small fragment of the human editosome. <i>Genome Biology</i> , 2014, 15, R5. | 13.9 | 152 |
| 67 | Human housekeeping genes, revisited. <i>Trends in Genetics</i> , 2013, 29, 569-574. | 2.9 | 1,091 |
| 68 | Differential inhibition of LINE1 and LINE2 retrotransposition by vertebrate AID/APOBEC proteins. <i>Retrovirology</i> , 2013, 10, 156. | 0.9 | 25 |
| 69 | Activity-Dependent A-to-I RNA Editing in Rat Cortical Neurons. <i>Genetics</i> , 2012, 192, 281-287. | 1.2 | 36 |
| 70 | Large-scale DNA editing of retrotransposons accelerates mammalian genome evolution. <i>Nature Communications</i> , 2011, 2, 519. | 5.8 | 43 |
| 71 | Identification of Widespread Ultra-Edited Human RNAs. <i>PLoS Genetics</i> , 2011, 7, e1002317. | 1.5 | 79 |
| 72 | 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. | 2.2 | 40 |

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|----|---|------|-----------|
| 73 | Consistent levels of A-to-I RNA editing across individuals in coding sequences and non-conserved Alu repeats. BMC Genomics, 2010, 11, 608. | 1.2 | 33 |
| 74 | Adenosine-to-inosine RNA editing shapes transcriptome diversity in primates. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12174-12179. | 3.3 | 155 |
| 75 | A Survey of Genomic Traces Reveals a Common Sequencing Error, RNA Editing, and DNA Editing. PLoS Genetics, 2010, 6, e1000954. | 1.5 | 40 |
| 76 | Sequence based identification of RNA editing sites. RNA Biology, 2010, 7, 248-252. | 1.5 | 35 |
| 77 | Evidence for large diversity in the human transcriptome created by Alu RNA editing. Nucleic Acids Research, 2009, 37, 6905-6915. | 6.5 | 58 |
| 78 | Efficiency of complex production in changing environment. BMC Systems Biology, 2009, 3, 3. | 3.0 | 9 |
| 79 | Genome-Wide Identification of Human RNA Editing Sites by Parallel DNA Capturing and Sequencing. Science, 2009, 324, 1210-1213. | 6.0 | 483 |
| 80 | Intronic Alus Influence Alternative Splicing. PLoS Genetics, 2008, 4, e1000204. | 1.5 | 129 |
| 81 | Altered adenosine-to-inosine RNA editing in human cancer. Genome Research, 2007, 17, 1586-1595. | 2.4 | 292 |
| 82 | RNA-editing-mediated exon evolution. Genome Biology, 2007, 8, R29. | 13.9 | 174 |
| 83 | RNA editing level in the mouse is determined by the genomic repeat repertoire. Rna, 2006, 12, 1802-1809. | 1.6 | 135 |
| 84 | Algorithmic approaches for identification of RNA editing sites. Briefings in Functional Genomics & Proteomics, 2006, 5, 43-45. | 3.8 | 13 |
| 85 | Connectivity and expression in protein networks: Proteins in a complex are uniformly expressed. Physical Review E, 2006, 73, 031909. | 0.8 | 14 |
| 86 | Letter from the editor: adenosine-to-inosine RNA editing in Alu repeats in the human genome. EMBO Reports, 2005, 6, 831-835. | 2.0 | 51 |
| 87 | From genome to antivirals: SARS as a test tube. Drug Discovery Today, 2005, 10, 345-352. | 3.2 | 16 |
| 88 | Is abundant A-to-I RNA editing primate-specific?. Trends in Genetics, 2005, 21, 77-81. | 2.9 | 125 |
| 89 | Is there any sense in antisense editing?. Trends in Genetics, 2005, 21, 544-547. | 2.9 | 42 |
| 90 | Evidence for abundant transcription of non-coding regions in the Saccharomyces cerevisiae genome. BMC Genomics, 2005, 6, 93. | 1.2 | 23 |

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|-----|---|-----|-----------|
| 91 | Identification of RNA editing sites in the SNP database. <i>Nucleic Acids Research</i> , 2005, 33, 4612-4617. | 6.5 | 48 |
| 92 | Evolutionarily conserved human targets of adenosine to inosine RNA editing. <i>Nucleic Acids Research</i> , 2005, 33, 1162-1168. | 6.5 | 177 |
| 93 | Systematic identification of abundant A-to-I editing sites in the human transcriptome. <i>Nature Biotechnology</i> , 2004, 22, 1001-1005. | 9.4 | 740 |
| 94 | 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. | 1.4 | 11 |
| 95 | The importance of alternative splicing in the drug discovery process. <i>Targets</i> , 2003, 2, 109-114. | 0.3 | 8 |
| 96 | Characterization of the nodulation plasmid encoded chemoreceptor gene <i>mcpG</i> from <i>Rhizobium leguminosarum</i> . <i>BMC Microbiology</i> , 2003, 3, 1. | 1.3 | 24 |
| 97 | Cloaked similarity between HIV-1 and SARS-CoV suggests an anti-SARS strategy. <i>BMC Microbiology</i> , 2003, 3, 20. | 1.3 | 69 |
| 98 | Human housekeeping genes are compact. <i>Trends in Genetics</i> , 2003, 19, 362-365. | 2.9 | 612 |
| 99 | Widespread occurrence of antisense transcription in the human genome. <i>Nature Biotechnology</i> , 2003, 21, 379-386. | 9.4 | 607 |
| 100 | Preferential Attachment in the Protein Network Evolution. <i>Physical Review Letters</i> , 2003, 91, 138701. | 2.9 | 183 |
| 101 | A-to-I Editing of ALU Repeats. , 0, , 255-279. | | 0 |