

- Steinberger, Y., **Doniger, T.**, Applebaum, I. et al. Effects of Vineyard Agro-management Practices on Soil Bacterial Community Composition, and Diversity. *Microb Ecol* 87, 17 (2024). <https://doi.org/10.1007/s00248-023-02315-6>
- Mutagenesis of the melon Prv gene by CRISPR/Cas9 breaks PRSV resistance and generates an autoimmune allele with constitutive defense responses. Nizan S, Amitzur A, Dahan-Meir T, **Benichou JIC**, Bar-Ziv A, Perl-Treves R. *J Exp Bot*. 2023
- *Cell specialization in cyanobacterial biofilm development revealed by expression of a cell-surface and extracellular matrix protein.* Frenkel A, Zecharia E, Gómez-Pérez D, Sendersky E, Yegorov Y, Jacob A, **Benichou JIC**, Stierhof YD, Parnasa R, Golden SS, Kemen E, Schwarz R. *NPJ Biofilms Microbiomes*. 2023
- Rajan KS, Madmoni H, Bashan A, Taoka M, Aryal S, Nobe Y, **Doniger T**, Galili Kostin B, Blumberg A, Cohen-Chalamish S, Schwartz S, Rivalta A, Zimmerman E, Unger R, Isobe T, Yonath A, Michaeli S. . A single pseudouridine on rRNA regulates ribosome structure and function in the mammalian parasite Trypanosoma brucei. *Nat Commun* 14, 7462 (2023). <https://doi.org/10.1038/s41467-023-43263-6>
- Rinsky Mieka, Aguillon Raphael, Simon-Blecher Noa, **Doniger Tirza**, Appelbaum Lior, Levy Oren (2023) CLOCK evolved in cnidaria to synchronize internal rhythms with circadian environmental cues *eLife* 12:RP89499 <https://doi.org/10.7554/eLife.89499.1>
- Applebaum, I., **Doniger, T.**, & Steinberger, Y. (2023). Temporal dynamics of soil nematode population in an *Acacia saligna* invaded Mediterranean sand dune ecosystem. *Nematology* (published online ahead of print 2023). <https://doi.org/10.1163/15685411-bja10270>
- Rosenberg, Yaeli & **Doniger, Tirza** & Lampert, Sarit & Sinniger, Frederic & Harii, Saki & Levy, Oren. (2023). Daily temporal homeostasis in the coral *Acropora digitifera*. *Frontiers in Marine Science*. 10. 10.3389/fmars.2023.1149490.
- Temporal gene expression patterns in the coral *Euphyllia paradoxa* reveal the complexity of biological clocks in the cnidarian-algal symbiosis. Rinsky M, Weizman E, **Ben-Asher HW**, Eyal G, Zhu B, Levy O. *Sci Adv*. 2022 Sep 16;8(37):eab06467. doi: 10.1126/sciadv.abo6467. Epub 2022 Sep 16. PMID: 36112690
- Dudkevich R, Koh JH, Beaudoin-Chabot C, Celik C, **Lebenthal-Loinger I**, Karako-Lampert S, Ahmad-Albukhari S, Thibault G, Henis-Korenblit S. Neuronal IRE-1 coordinates an organism-wide cold stress response by regulating fat metabolism. *Cell Rep*. 2022 Nov 29;41(9):111739. doi: 10.1016/j.celrep.2022.111739. PMID: 36450261.

- Wasserman-Bartov T, Admati I, **Lebenthal-Loinger I**, Sharabany J, Lerer-Goldshtein T, Appelbaum L. Tsh Induces Agrp1 Neuron Proliferation in Oatp1c1-Deficient Zebrafish. *J Neurosci*. 2022 Nov 2;42(44):8214-8224. doi:10.1523/JNEUROSCI.0002-22.2022. Epub 2022 Sep 23. PMID: 36150888; PMCID: PMC9653277.
- Shmidov E, **Lebenthal-Loinger I**, Roth S, Karako-Lampert S, Zander I, Shoshani S, Danielli A, Banin E. PrrT/A, a *Pseudomonas aeruginosa* Bacterial Encoded Toxin-Antitoxin System Involved in Prophage Regulation and Biofilm Formation. *Microbiol Spectr*. 2022 Jun 29;10(3):e0118222. doi: 10.1128/spectrum.01182-22. Epub 2022 May 16. PMID: 35575497; PMCID: PMC9241795.
- Rozenblat R, Tovin A, Zada D, **Lebenthal-Loinger I**, Lerer-Goldshtein T, Appelbaum L. Genetic and Neurological Deficiencies in the Visual System of Mutant Zebrafish. *Int J Mol Sci*. 2022 Feb 23;23(5):2464. doi: 10.3390/ijms23052464. PMID: 35269606; PMCID: PMC8910067.
- Steinberger, Y., Stein, A., Dorman, M., Svoray, T., **Doniger, T.**, Rinot, O., Gil, E. A sensitive soil biological indicator to changes in land-use in regions with Mediterranean climate. *Sci Rep* 12, 22216 (2022). <https://doi.org/10.1038/s41598-022-26240-9>
- Yosef Steinberger, Dorsaf Kerfahi, **Tirza Doniger**, Chen Sherman, Itaii Applebaum, Gil Eshel. Free-living soil nematode community structure and distribution within soil aggregates under conventional and organic vineyard managements, *Pedosphere*, 2022, ISSN 1002-0160, <https://doi.org/10.1016/j.pedsph.2022.11.002>.
- May Levi, Itaii Applebaum, Chen Sherman, **Tirza Doniger**, Yosef Steinberger, Soil fungal community of wheat *Triticum aestivum* rhizosphere at different phenological stages under a rain-fed management, *Rhizosphere*, 2022, 100605, ISSN 2452-2198, <https://doi.org/10.1016/j.rhisph.2022.100605>.
- Levy N, Simon-Blecher N, Ben-Ezra S, Yuval M, **Doniger T**, Leray M, Lampert-Karako S, Tarazi E, Levy O. Evaluating biodiversity for coral reef reformation and monitoring on complex 3D structures using environmental DNA (eDNA) metabarcoding. *Sci Total Environ*. 2022 Sep 28;:159051.
- Steinberger Y, **Doniger T**, Sherman C, Applebaum I, Eshel G. Effect of Soil Aggregate Size on Vineyard Bacterial Communities under Organic and Conventional Agro-Managements. *Land*. 2022; 11(9):1517. <https://doi.org/10.3390/land11091517>
- Atari N, Rajan KS, Chikne V, Cohen-Chalamish S, **Doniger T**, Orbaum O, Jacob A, Kalt I, Michaeli S, Sarid R. Lytic Reactivation of the Kaposi's Sarcoma-Associated

Herpesvirus (KSHV) Is Accompanied by Major Nucleolar Alterations. *Viruses*. 2022; 14(8):1720. <https://doi.org/10.3390/v14081720>

- Guegan F, Rajan KS, Bento F, Pinto-Neves D, Sequeira M, Gumińska N, Mroczek S, Dziembowski A, Cohen-Chalamish S, **Doniger T**, Galili B, Estévez AM, Notredame C, Michaeli S, Figueiredo LM. A long noncoding RNA promotes parasite differentiation in African trypanosomes. *Sci Adv.* 2022 Jun 17;8(24):eabn2706. doi: 10.1126/sciadv.abn2706. Epub 2022 Jun 15. PMID: 35704590.
- Rajan KS, Adler K, **Doniger T**, Cohen-Chalamish S, Aharon-Hefetz N, Aryal S, Pilpel Y, Tschudi C, Unger R, Michaeli S, Identification and functional implications of pseudouridine RNA modification on small non-coding RNAs in the mammalian pathogen *Trypanosoma brucei*, *Journal of Biological Chemistry* (2022), doi: <https://doi.org/10.1016/j.jbc.2022.102141>.
- **Doniger T**, Kerfahi D, Wachtel C, Marais E, Maggs-Kölling G, Sherman C, Adams JM, Steinberger Y. Plant Gender Affects Soil Fungal Microbiota Associated with *Welwitschia mirabilis*, an Unusual Desert Gymnosperm. *Microb Ecol.* 2022 Jun 1. doi: 10.1007/s00248-022-02039-z. Epub ahead of print. PMID: 35648154.
- Piel L, Rajan KS, Bussotti G, Varet H, Legendre R, Proux C, Douché T, Giai-Gianetto Q, Chaze T, Cokelaer T, Vojtкова B, Gordon-Bar N, **Doniger T**, Cohen-Chalamish S, Rengaraj P, Besse C, Boland A, Sadlova J, Deleuze JF, Matondo M, Unger R, Wolf P, Michaeli S, Pescher P, Späth GF. Experimental evolution links post-transcriptional regulation to *Leishmania* fitness gain. *PLoS Pathog.* 2022 Mar 16;18(3):e1010375. doi: 10.1371/journal.ppat.1010375. Epub ahead of print. PMID: 35294501.
- Applebaum I, Jeyaraman M, Sherman C, **Doniger T**, Steinberger Y. Structure and Function of the Soil Rhizosphere Fungal Communities in Medicinal Plants—A Preliminary Study. *Agriculture*. 2022; 12(2):152. <https://doi.org/10.3390/agriculture12020152>
- Steffen Schlüter, Eshel Gil, **Tirza Doniger**, Itaii Applebaum, Yosef Steinberger. Abundance and community composition of free-living nematodes as a function of soil structure under different vineyard managements. *Applied Soil Ecology*, February 2022.
- Glucocorticoids enhance chemotherapy-driven stress granule assembly and impair granule dynamics, leading to cell death. Schwed-Gross A, Hamiel H, Faber GP, Angel M, Ben-Yishay R, **Benichou JIC**, Ishay-Ronen D, Shav-Tal Y. *J Cell Sci.* 2022

- Modulation of intrinsic inhibitory checkpoints using nano-carriers to unleash NK cell activity. Biber G, Sabag B, Raiff A, Ben-Shmuel A, Puthenveetil A, **Benichou JIC**, Jubany T, Levy M, Killner S, Barda-Saad M. EMBO Mol Med. 2022
- Neuronal regulated ire-1-dependent mRNA decay controls germline differentiation in *Caenorhabditis elegans*. Levi-Ferber M, Shalash R, Le-Thomas A, Salzberg Y, Shurgi M, **Benichou JI**, Ashkenazi A, Henis-Korenblit S. Elife. 2021
- The Endosymbiotic Coral Algae Symbiodiniaceae Are Sensitive to a Sensory Pollutant: Artificial Light at Night, ALAN. Ayalon I, **Benichou JIC**, Avisar D, Levy O. Front Physiol. 2021
- Transcriptome Analysis of NPFR Neurons Reveals a Connection Between Proteome Diversity and Social Behavior. Ryvkin J, Bentzur A, Shmueli A, Tannenbaum M, Shallom O, Dokarker S, **Benichou JIC**, Levi M, Shohat-Ophir G. Front Behav Neurosci. 2021
- Early Life Experience Shapes Male Behavior and Social Networks in *Drosophila*. Bentzur A, Ben-Shaanan S, **Benichou JIC**, Costi E, Levi M, Ilany A, Shohat-Ophir G. Curr Biol. 2021
- Early Life Experience Shapes Male Behavior and Social Networks in *Drosophila*. Bentzur A, Ben-Shaanan S, **Benichou JIC**, Costi E, Levi M, Ilany A, Shohat-Ophir G. Curr Biol. 2021
- Coral Gametogenesis Collapse under Artificial Light Pollution. Ayalon I, Rosenberg Y, **Benichou JIC**, Campos CLD, Sayco SLG, Nada MAL, Baquiran JIP, Ligson CA, Avisar D, Conaco C, Kuechly HU, Kyba CCM, Cabaitan PC, Levy O. Curr Biol. 2021
- Giovanni Bussotti, Laura Piel, Pascale Pescher, Malgorzata A. Domagalska, K. Shanmuga Rajan, Smadar Cohen-Chalamish, **Tirza Doniger**, Disha-Gajanan Hiregange, Peter J. Myler, Ron Unger, Shulamit Michaeli, Gerald F. Späth. Genome instability drives epistatic adaptation in the human pathogen *Leishmania*. Proceedings of the National Academy of Sciences Dec 2021, 118 (51) e2113744118; DOI: 10.1073/pnas.2113744118
- Adler-Berke, N.; Goldenberg, Y.; Brotman, Y.; Kovalski, I.; Gal-On, A.; **Doniger, T.**; Harel-Beja, R.; Troadec, C.; Bendahmane, A.; Pitrat, M.; Dogimont, C.; Katzir, N.; Perl-Treves, R. The Melon Zym Locus Conferring Resistance to ZYMV: High Resolution Mapping and Candidate Gene Identification. Agronomy 2021, 11, 2427. <https://doi.org/10.3390/agronomy11122427>

- Eshel Gil, Unc Adrian, Egozi Roey, Shakartchy Efrat, **Doniger Tirza**, Steinberger Yosef. Orchard floor management effect on soil free-living nematode communities. *Soil Research*, November 2021.
- Salvador Rodríguez – Zaragoza, G. Eshel, **Tirza Doniger**, Chen Sherman and Y. Steinberger SOIL PROTISTS COMMUNITY COMPOSITION UNDER DIFFERENT VINEYARD FLOOR MANAGEMENT TYPE. *International Journal of Agriculture and Environmental Research*, vol. 07, no. 04, 2021, pp. 584–597., doi:<https://doi.org/10.51193/IJAER.2021.7403>.
- Rajan KS, Adler K, Madmoni H, Peleg-Chen D, Cohen-Chalamish S, **Doniger T**, Galili B, Gerber D, Unger R, Tschudi C, Michaeli S. Pseudouridines on *Trypanosoma brucei* mRNAs are developmentally regulated: Implications to mRNA stability and protein binding. *Mol Microbiol*. 2021 Jun 24. doi: 10.1111/mmi.14774. Epub ahead of print. PMID: 34165831.
- Rutley N, Poidevin L, **Doniger T**, Tillett RL, Rath A, Forment J, Luria G, Schlauch KA, Ferrando A, Harper JF, Miller G. Characterization of novel pollen-expressed transcripts reveals their potential roles in pollen heat stress response in *Arabidopsis thaliana*. *Plant Reprod*. 2021 Mar;34(1):61–78. doi: 10.1007/s00497-020-00400-1. Epub 2021 Jan 18.
- Roichman A, Elhanati S, Aon MA, Abramovich I, Di Francesco A, Shahar Y, Avivi MY, Shurgi M, Rubinstein A, Wiesner Y, Shuchami A, Petrover Z, **Lebenthal-Loinger I**, Yaron O, Lyashkov A, Ubaida-Mohien C, Kanfi Y, Lerrer B, Fernández-Marcos PJ, Serrano M, Gottlieb E, de Cabo R, Cohen HY. Restoration of energy homeostasis by SIRT6 extends healthy lifespan. *Nat Commun*. 2021 May 28;12(1):3208. doi: 10.1038/s41467-021-23545-7. PMID: 34050173; PMCID: PMC8163764.
- Shmidov E, Zander I, **Lebenthal-Loinger I**, Karako-Lampert S, Shoshani S, Banin E. An Efficient, Counter-Selection-Based Method for Prophage Curing in *Pseudomonas aeruginosa* Strains. *Viruses*. 2021 Feb 21;13(2):336. doi: 10.3390/v13020336. PMID: 33670076; PMCID: PMC7926659.
- Yegorov Y, Sendersky E, Zilberman S, Nagar E, **Waldman Ben-Asher H**, Shimoni E, Simkovsky R, Golden SS, LiWang A, Schwarz R. A Cyanobacterial Component Required for Pilus Biogenesis Affects the Exoproteome. *mBio*. 2021 Mar 16;12(2):e03674-20. doi: 10.1128/mBio.03674-20. PMID: 33727363
- Carmel-Gross I, Levy E, Armon L, Yaron O, **Waldman Ben-Asher H**, Urbach A. Human Pluripotent Stem Cell Fate Regulation by SMARCB1. *Stem Cell Reports*. 2020 Nov 10;15(5):1037-1046. doi: 10.1016/j.stemcr.2020.10.002. Epub 2020 Oct 29.

PMID: 33125876

- Bier A, Hong X, Cazacu S, Goldstein H, Rand D, Xiang C, Jiang W, **Ben-Asher HW**, Attia M, Brodie A, She R, Poisson LM, Brodie C. miR-504 modulates the stemness and mesenchymal transition of glioma stem cells and their interaction with microglia via delivery by extracellular vesicles. *Cell Death Dis.* 2020 Oct 22;11(10):899. doi: 10.1038/s41419-020-03088-3. PMID: 33093452
- Cohen-Berkman M, Dudkevich R, Ben-Hamo S, Fishman A, Salzberg Y, **Waldman Ben-Asher H**, Lamm AT, Henis-Korenblit S. Endogenous siRNAs promote proteostasis and longevity in germline-less *Caenorhabditis elegans*. *Elife.* 2020 Mar 26;9:e50896. doi: 10.7554/eLife.50896. PMID: 32213289; PMCID: PMC7136021
- Adrian Unc, Gil Eshel , George A. Unc, **Tirza Doniger**, Chen Sherman, Mark Leikin and Yosef Steinberger. Vineyard soil microbial community under conventional, sustainable and organic management practices in a Mediterranean climate. *Soil Research.* December 2020
- K. Shanmuga Rajan, **Tirza Doniger**, Smadar Cohen-Chalamish, Praveenkumar Rengaraj, Beathrice Galili, Saurav Aryal, Ron Unger, Christian Tschudi, Shulamit Michaeli, Developmentally regulated novel non-coding anti-sense regulators of mRNA translation in *Trypanosoma brucei*. *iScience*, 2020
- **Doniger T**, Adams JM, Marais E, Maggs-Kölling G, Sherman C, Kerfahi D, Yang Y, Steinberger Y. The 'fertile island effect' of Welwitschia plants on soil microbiota is influenced by plant gender. *FEMS Microbiol Ecol.* 2020 Sep 23
- **Tirza Doniger**, Oksana Koryachenko, Chen Sherman and Yosef Steinberger. A Preliminary Study on Desert Invertebrate Gut - A Metagenomic Evaluation of Bacteria Community. *ACTA SCIENTIFIC MICROBIOLOGY* (ISSN: 2581-3226) Volume 3 Issue 9 September 2020
- Rajan, K. S., Zhu, Y., Adler, K., **Doniger, T.**, Cohen-Chalamish, S., Srivastava, A., Shalev-Benami, M., Matzov, D., Unger, R., Tschudi, C., Günzl, A., Carmichael, G. G., & Michaeli, S. (2020). The large repertoire of 2'-O-methylation guided by C/D snoRNAs on *Trypanosoma brucei* rRNA. *RNA biology*, 17(7), 1018–1039.  
<https://doi.org/10.1080/15476286.2020.1750842>
- Adi Kedmi, Anna Sloutskin, Natalie Epstein, Lital Gasri-Plotnitsky, Debby Ickowicz, Irit Shoval, **Tirza Doniger**, Eliezer Darmon, Diana Ideses, Ziv Porat, Orly Yaron, Tamar

Juven-Gershon. The TRF2 General Transcription Factor Is a Key Regulator of Cell Cycle Progression. bioRxiv 2020.03.27.011288; doi: <https://doi.org/10.1101/2020.03.27.011288>

- Matas D, **Doniger T**, Sarid S, Asfur M, Yadid G, Khokhlova IS, Krasnov BR, Kam M, Allan Degen A, Koren L. Sex differences in testosterone reactivity and sensitivity in a non-model gerbil. *Gen Comp Endocrinol.* 2020 Feb 3;:113418.
- Deep neural network recognition of shallow water corals in the Gulf of Eilat (Aqaba). Raphael A, Dubinsky Z, Iluz D, **Benichou JIC**, Netanyahu NS. *Sci Rep.* 2020
- Contemporary patterns of labor in nulliparous and multiparous women. Ashwal E, Livne MY, **Benichou JIC**, Unger R, Hiersch L, Aviram A, Mani A, Yogeve Y. *Am J Obstet Gynecol.* 2020
- Red Sea corals under Artificial Light Pollution at Night (ALAN) undergo oxidative stress and photosynthetic impairment. Ayalon I, de Barros Marangoni LF, **Benichou JIC**, Avisar D, Levy O. *Glob Chang Biol.* 2019
- Naiman S, Huynh FK, Gil R, Glick Y, Shahar Y, Touitou N, Nahum L, Avivi MY, Roichman A, Kanfi Y, Gertler AA, **Doniger T**, Ilkayeva OR, Abramovich I, Yaron O, Lerrer B, Gottlieb E, Harris RA, Gerber D, Hirshey MD, Cohen HY. SIRT6 Promotes Hepatic Beta-Oxidation via Activation of PPAR $\alpha$ . *Cell Rep.* 2019 Dec 17;29(12):4127-4143.e8. doi: 10.1016/j.celrep.2019.11.067.
- Rosenberg Y, **Doniger T**, Harii S, Sinniger F, Levy O. Demystifying Circalunar and Diel Rhythmicity in Acropora digitifera under Constant Dim Light. *iScience.* 2019 Nov 25;22:477-488.
- Marais, E., Maggs-Kölling, G., Sherman, C., **Doniger, T.**, Liu, R.T., Binu, M. and Steinberger, Y. Profiling a soil free-living nematode community in an extreme desert ecosystem in Namibia. *J Arid Land* 2019 Sept
- Rajan KS, **Doniger T**, Cohen-Chalamish S, Chen D, Semo O, Aryal S, Glick Saar E, Chikne V, Gerber D, Unger R, Tschudi C, Michaeli S Pseudouridines on Trypanosoma brucei spliceosomal small nuclear RNAs and their implication for RNA and protein interactions. *Nucleic Acids Res.* 2019 Aug 22;47(14):7633-7647. doi: 10.1093/nar/gkz477.

- Rosenberg Y, **Doniger T**, Levy O. Sustainability of coral reefs are affected by ecological light pollution in the Gulf of Aqaba/Eilat. *Commun Biol.* 2019 Aug 5;2:289. doi: 10.1038/s42003-019-0548-6. eCollection 2019.
- Unc, A., Maggs-Kölling, G., Marais, E. Sherman, C., **Doniger, T.**, Steinberger, Y. Soil bacterial community associated with the dioecious *Acanthosicyos horridus* in the Namib Desert. *Biol Fertil Soils.* 2019 Mar 30.
- Koryachenko O, Girsowicz R, Dekel Y, **Doniger T**, Steinberger Y. Sedimentary Marl mudstone as a substrate in a xeric environment revealed by microbiome analysis. *Extremophiles.* 2019 Mar 8. doi: 10.1007/s00792-019-01087-7.
- Vaibhav Chikne, K Shanmuga Rajan, Moran Shalev-Benami, Kathryn Decker, Smadar Cohen-Chalamish, Hava Madmoni, Viplov K Biswas, Sachin Kumar Gupta, **Tirza Doniger**, Ron Unger, Christian Tschudi, Elisabetta Ullu, Shulamit Michaeli. Small nucleolar RNAs controlling rRNA processing in *Trypanosoma brucei*. *Nucleic Acids Research*, 03 January 2019
- Levitas-Djerbi T, Sagi D, **Lebenthal-Loinger I**, Lerer-Goldshtein T, Appelbaum L. Neurotensin Enhances Locomotor Activity and Arousal and Inhibits Melanin-Concentrating Hormone Signaling. *Neuroendocrinology.* 2020;110(1-2):35-49. doi: 10.1159/000500590. Epub 2019 Apr 29. PMID: 31030196
- Rajan KS, Chikne V, Decker K, **Waldman Ben-Asher H**, Michaeli S. Unique Aspects of rRNA Biogenesis in Trypanosomatids. *Trends Parasitol.* 2019 Oct;35(10):778-794. doi: 10.1016/j.pt.2019.07.012. Epub 2019 Aug 28. Review. PMID: 31473096.
- Dalit M, Keren ML, Eviatar W, **Hiba WB**, Gal E, Ehud B, Yossi L, Oren L. The Algal Symbiont Modifies the Transcriptome of the Scleractinian Coral *Euphyllia paradvisa* During Heat Stress. *Microorganisms.* 2019 Aug 12;7(8). pii: E256. doi: 10.3390/microorganisms7080256. PMID: 31409030
- Schnytzer Y, Simon-Blecher N, Li J, **Waldman Ben-Asher H**, Salmon-Divon M, Achituv Y, Hughes ME, Levy O. Tidal and diel orchestration of behaviour and gene expression in an intertidal mollusc. *Sci Rep.* 2019 Jul 17;9(1):10534. doi: 10.1038/s41598-019-46787-4. PMID: 31312005

- Parnasa R, Sendersky E, Simkovsky R, **Waldman Ben-Asher H**, Golden SS, Schwarz R. A microcin processing peptidase-like protein of the cyanobacterium *Synechococcus elongatus* is essential for secretion of biofilm-promoting proteins. *Environ Microbiol Rep.* 2019 Jun;11(3):456-463. doi: 10.1111/1758-2229.12751.. PMID: 30868754.
- Sorek M, Schnytzer Y, **Waldman Ben-Asher H**, Caspi VC, Chen CS, Miller DJ, Levy O. Setting the pace: host rhythmic behaviour and gene expression patterns in the facultatively symbiotic cnidarian *Aiptasia* are determined largely by *Symbiodinium*. *Microbiome*. 2018 May 9;6(1):83. doi: 10.1186/s40168-018-0465-9.PMID: 29739445
- Regulatory chromatin landscape in *Arabidopsis thaliana* roots uncovered by coupling INTACT and ATAC-seq. Tannenbaum M, Sarusi-Portuguez A, Krispil R, Schwartz M, Loza O, **Benichou JIC**, Mosquina A, Hakim O. *Plant Methods*. 2018
- Landraces of snake melon, an ancient Middle Eastern crop, reveal extensive morphological and DNA diversity for potential genetic improvement. Omari S, Kamenir Y, **Benichou JIC**, Pariente S, Sela H, Perl-Treves R. *BMC Genet*. 2018.
- Chen Sherman, Adrian Unc, **Tirza Doniger**, Rachel Ehrlich, Yosef Steinberger. The effect of human trampling activity on a soil microbial community at the Oulanka Natural Reserve, Finland. *Applied Soil Ecology* . 2018 Dec.
- Shnaider Y, Mitra D, Miller G, Baniel A, **Doniger T**, Kuhalskaya A, Scossa F, Fernie AR, Brotman Y, Perl-Treves R. Cucumber ovaries inhibited by dominant fruit express a dynamic developmental program, distinct from either senescence-determined or fruit-setting ovaries. *Plant J*. 2018 Jul 30; PMID: 30058228
- Ruben Girsowicz, Oksana Koryachenko, Chen Sherman, Einav Mayzlish-Gati, **Tirza Doniger &** Yosef Steinberger (2018) Impact of Oil-Spill Contamination on a Soil Bacterial Community: A 40-Year History of Rehabilitation in the Arava Valley. *Soil and Sediment Contamination: An International Journal*, 27:3, 175-185,DOI: 10.1080/15320383.2018.1443427
- Gutner-Hoch E, **Waldman Ben-Asher H**, Yam R, Shemesh A, Levy O. Identifying genes and regulatory pathways associated with the scleractinian coral calcification process. *PeerJ*. 2017 Jul 20;5:e3590. doi: 10.7717/peerj.3590. eCollection 2017. PMID: 28740755

- Eliaz D, Kannan S, Shaked H, Arvatz G, Tkacz ID, Binder L, **Waldman Ben-Asher H**, Okalang U, Chikne V, Cohen-Chalamish S, Michaeli S. Exosome secretion affects social motility in *Trypanosoma brucei*. *PLoS Pathog.* 2017 Mar 3;13(3):e1006245.doi: 10.1371/journal.ppat.1006245. eCollection 2017 Mar. PubMed PMID: 28257521;PubMed Central PMCID: PMC5352147.
- **Waldman Ben-Asher H**, Yerushalmi R, Wachtel C, Barbiro-Michaely E, Sompolinsky D, Gerber D. Draft Genome Sequence of the Suttonellaornithocola Bacterium. *Genome Announc.* 2017 Feb 16;5(7). pii: e01592-16. doi: 10.1128/genomeA.01592-16. PubMed PMID: 28209820; PubMed Central PMCID: PMC5313612.
- **Waldman Ben-Asher H**, Yerushalmi R, Wachtel C, Barbiro-Michaely E, Sompolinsky D, Gerber D. Draft Genome Sequence of a New Bacterium Named Rappaport israeli, gen. nov., sp. nov., Isolated from a Blood Culture. *Genome Announc.* 2017 Feb .(6)5;9pii: e01595-16. doi: 0.1128/genomeA.01595-16. PubMed PMID: 28183765;PubMed Central PMCID: PMC5331505.
- Maor-Landaw K, **Waldman Ben-Asher H**, Karako-Lampert S, Salmon-Divon M, Prada F, Caroselli E, Goffredo S, Falini G, Dubinsky Z, Levy O. Mediterranean versus Red sea corals facing climate change, a transcriptome analysis. *Sci Rep.* 2017 Feb .7:42405;9doi: 10.1038/srep42405. PubMed PMID: 28181588; PubMed Central PMCID:PMC5299404.
- Chikne V, Gupta SK, **Doniger T**, Shamugha Rajan K, Cohen-Chalamish S, **Ben-Asher HW**, Kolet L, Yahia NH, Unger R, Ullu E, Kolev NG, Tschudi C, Michaeli S. The canonical poly (A) polymerase PAP1 polyadenylates non-coding RNAs and is essential for snoRNA biogenesis in *Trypanosoma brucei*. *J Mol Biol.* 2017 Apr 26. pii: S0022-2836(17)30191-2.
- Rosenberg Y, **Doniger T**, Harii S, Sinniger F, Levy O. Canonical and cellular pathways timing gamete release in *Acropora digitifera*, Okinawa, Japan. *Mol Ecol.* 2017 Feb 18.
- Hope R, Egarmina K, Voloshin K, **Waldman Ben-Asher H**, Carmi S, Eliaz D, Drori Y, Michaeli S. Transcriptome and proteome analyses and the role of atypical calpain protein and autophagy in the spliced leader silencing pathway in *Trypanosoma brucei*. *Mol Microbiol.* 2016 Oct;102(1):1-21. doi: 10.1111/mmi.13417 .Epub 2016 Aug 31. PubMed PMID: 27161313.

- Martirosyan V, Unc A, Miller G, **Doniger T**, Wachtel C, Steinberger Y. Desert Perennial Shrubs Shape the Microbial-Community Miscellany in Laimosphere and Phyllosphere Space. *Microb Ecol.* 2016 Jul 23.
- Chikne V, **Doniger T**, Rajan KS, Bartok O, Eliaz D, Cohen-Chalamish S, Tschudi C, Unger R, Hashem Y, Kadener S, Michaeli S. A pseudouridylation switch in rRNA is implicated in ribosome function during the life cycle of *Trypanosoma brucei*. *Sci Rep.* 2016 May 4;6:25296. doi: 10.1038/srep25296.
- Levy O, Karako-Lampert S, **Waldman Ben-Asher H**, Zoccola D, Pag'§ G, Ferrier-Pag'§ C. Molecular assessment of the effect of light and heterotrophy in the scleractinian coral *Stylophora pistillata*. *Proc Biol Sci.* 2016 Apr .(1829)283;27pii: 20153025. doi: 10.1098/rspb.2015.3025. PubMed PMID: 27122555 ;PubMed Central PMCID: PMC4855378.
- Sloutskin A, Danino YM, Orenstein Y, Zehavi Y, **Doniger T**, Shamir R, Juven-Gershon T. ElemeNT: a computational tool for detecting core promoter elements. *Transcription.* 2015 May 27;6(3):41-50.
- Genome-wide analysis of small nucleolar RNAs of *Leishmania major* reveals a rich repertoire of RNAs involved in modification and processing of rRNA. Eliaz D, **Doniger T**, Tkacz ID, Gupta SK, Kolev NG, Unger R, Ullu E, Tschudi C, Michaeli S. *RNA Biol.* 2015 May 13;:0.
- Markus A, **Lebenthal-Loinger I**, Yang IH, Kinchington PR, Goldstein RS. An in vitro model of latency and reactivation of varicella zoster virus in human stem cell-derived neurons. *PLoS Pathog.* 2015 Jun 4;11(6):e1004885. doi: 10.1371/journal.ppat.1004885. PMID: 26042814; PMCID: PMC4456082.
- Giladi ND, Ziv-Av A, Lee HK, Finniss S, Cazacu S, Xiang C, **Waldman Ben-Asher H**, deCarvalho A, Mikkelsen T, Poisson L, Brodie C. RTVP-1 promotes mesenchymal transformation of glioma via a STAT-3/IL-6-dependent positive feedback loop. *Oncotarget.* 2015 Sep 8;6(26):22680-97. PubMed PMID: 26267319; PubMed Central PMCID: PMC4673191.
- Madar R, Rotter A, **Waldman Ben-Asher H**, Mughal MR, Arumugam TV, Wood WH 3rd, Becker KG, Mattson MP, Okun E. Postnatal TLR2 activation impairs learning and memory in adulthood.

Brain Behav Immun. 2015 Aug;48:301-12. doi/10.1016/j.bbi.2015.04.020. Epub 2015 May 27. PubMed PMID: 26021559; PubMed Central PMCID: PMC4508200.

- Kedmi A, Zehavi Y, Glick Y, Orenstein Y, Ideses D, Wachtel C, **Doniger T**, **Waldman Ben-Asher H**, Muster N, Thompson J, Anderson S, Avrahami D, Yates JR 3rd ,Shamir R, Gerber D, Juven-Gershon T. *Drosophila TRF2 is a preferential core promoter regulator.* Genes Dev. 2014 Oct 1;28(19):2163-74. doi/10.1101/gad.245670.114. Epub 2014 Sep 15. PubMed PMID: 25223897; PubMed Central PMCID: PMC4180977.
- Gupta SK, Chikne V, Eliaz D, Tkacz ID, Naboishchikov I, Carmi S, **Waldman Ben-Asher H**, Michaeli S. Two splicing factors carrying serine-arginine motifs, TSR1 and TSR1IP, regulate splicing, mRNA stability, and rRNA processing in *Trypanosoma brucei*. RNA Biol. 2014;11(6):715-31. Epub 2014 May 13. PubMed PMID ;24922194: PubMed Central PMCID: PMC4156503.
- Maoz N, Gabay O, **Waldman Ben-Asher H**, Cohen HY. The yeast forkhead HCM1 controls life span independent of calorie restriction. J Gerontol A Biol Sci Med Sci. 2015 Apr;70(4):444-53. doi: 10.1093/gerona/glu059. Epub 2014 May 15. PubMed PMID: 24835838.
- Markus A, **Waldman Ben-Asher H**, Kinchington PR, Goldstein RS. Cellular transcriptome analysis reveals differential expression of pro- and antiapoptosis genes by varicella-zoster virus-infected neurons and fibroblasts. J Virol. 2014 Jul;88(13):7674-7. doi: 10.1128/JVI.00500-14. Epub 2014 Apr 16. PubMed PMID ;24741086:PubMed Central PMCID: PMC4054417.
- Maor-Landaw K, Karako-Lampert S, **Waldman Ben-Asher H**, Goffredo S, Falini G, Dubinsky Z, Levy O. Gene expression profiles during short-term heat stress in the red sea coral *Stylophora pistillata*. Glob Chang Biol. 2014 Oct;20(10):3026-35. doi: 10.1111/gcb.12592. Epub 2014 May 31. PubMed PMID: 24706387.
- Draft Genome Sequence of *Pseudoalteromonas* sp. Strain PLSV, an Ulvan-Degrading Bacterium.Kopel M, Helbert W, Henrissat B, **Doniger T**, Banin E. Genome Announc. 2014 Dec 11;2(6). pii: e01257-14. doi: 10.1128/genomeA.01257-14.
- Draft Genome Sequences of Two Ulvan-Degrading Isolates, Strains LTR and LOR, That Belong to the *Alteromonas* Genus. Moran Kopel, William Helbert, Bernard Henrissat, **Tirza Doniger**, and Ehud Banin. Genome Announc. 2014; 2(5): p. e01081-14

- Kopel M, Helbert W, Henrissat B, **Doniger T**, Banin E. Draft Genome Sequence of Nonlabens ulvanivorans, an Ulvan-Degrading Bacterium. *Genome Announc.* 2014 Aug 14;2(4). pii: e00793-14. doi: 10.1128/genomeA.00793-14. PubMed PMID: 25125644; PubMed Central PMCID: PMC4132620.
- Barda S, Yoge L, Paz G, Yavetz H, Lehavi O, Hauser R, **Doniger T**, Breitbart H, Kleiman SE. BRDT gene sequence in human testicular pathologies and the implication of its single nucleotide polymorphism (rs3088232) on fertility. *Andrology.* 2014 Jul;2(4):641-7. doi: 10.1111/j.2047-2927.2014.00230.x. Epub 2014 May 28. PubMed PMID: 24865796.
- Feldstein O, Nizri T, **Doniger T**, Jacob J, Rechavi G, Ginsberg D. The long non-coding RNA ERIC is regulated by E2F and modulates the cellular response to DNA damage. *Mol Cancer.* 2013 Oct 29;12(1):131. doi: 10.1186/1476-4598-12-131. PubMed PMID: 24168400.
- Gupta SK, Kolet L, **Doniger T**, Biswas VK, Unger R, Tzfati Y, Michaeli S. The Trypanosoma brucei telomerase RNA (TER) homologue binds core proteins of the C/D snoRNA family. *FEBS Lett.* 2013 May 2;587(9):1399-404. doi: 10.1016/j.febslet.2013.03.017. Epub 2013 Mar 21. PubMed PMID: 23523918.
- Brotman Y, Normantovich M, Goldenberg Z, Zvirin Z, Kovalski I, Stovbun N, **Doniger T**, Bolger AM, Troadec C, Bendahmane A, Cohen R, Katzir N, Pitrat M, Dogimont C, Perl-Treves R. Dual resistance of melon to Fusarium oxysporum races 0 and 2 and to Papaya ring-spot virus is controlled by a pair of head-to-head-oriented NB-LRR genes of unusual architecture. *Mol Plant.* 2013 Jan;6(1):235-8. doi: 10.1093/mp/sss121. Epub 2012 Oct 25. PubMed PMID: 23100482.
- Gupta SK, Kosti I, Plaut G, Pivko A, Tkacz ID, Cohen-Chalamish S, Biswas DK, Wachtel C, **Waldman Ben-Asher H**, Carmi S, Glaser F, Mandel-Gutfreund Y, Michaeli S. 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 Res.* 2013 Jul;41(13):6577-94. doi: 10.1093/nar/gkt369. Epub 2013 May 10. PubMed PMID: 23666624; PubMed Central PMCID: PMC3711420.
- Gupta SK, Carmi S, **Waldman Ben-Asher H**, Tkacz ID, Naboishchikov I, Michaeli S. Basal splicing factors regulate the stability of mature mRNAs in trypanosomes. *J Biol*

Chem. 2013 Feb 15;288(7):4991-5006. doi: 10.1074/jbc.M112.416578. Epub 2013 Jan 2. PubMed PMID: 23283975; PubMed Central PMCID: PMC3576102

- Chmelnitsky I, **Doniger T**, Shklyar M, Naparstek L, Banin E, Edgar R, Carmeli Y. Draft genome sequence of an extremely drug-resistant KPC-producing *Klebsiella pneumoniae* ST258 epidemic strain. J Bacteriol. 2012 Nov;194(21):6014. doi:10.1128/JB.01546-12. PubMed PMID: 23045514; PubMed Central PMCID: PMC3486106.
- Michaeli S, **Doniger T**, Gupta SK, Wurtzel O, Romano M, Visnovezky D, Sorek R, Unger R, Ullu E. RNA-seq analysis of small RNPs in *Trypanosoma brucei* reveals a rich repertoire of non-coding RNAs. Nucleic Acids Res. 2012 Feb;40(3):1282-98. doi: 10.1093/nar/gkr786. Epub 2011 Oct 5. PubMed PMID: 21976736; PubMed Central PMCID: PMC3273796