

Shaqed Carasso

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RESEARCH INTERESTS

Bioinformatics, Gut microbiome, Bacterial genomics, Microbial-host interactions, Phage-bacteria dynamics

EDUCATION

- 2021- June 2025 **Ph.D., Bioinformatics** • Technion – Israel Institute of Technology
Thesis: Phase Variations of the Bacteroides Genus.
Main Advisor: Associate Professor Naama Geva-Zatorsky.
Associate Advisor: Dr. Itai Sharon (MIGAL Galilee Research Institute).
- 2018-2021 **M.Sc., Medical Sciences** • Technion – Israel Institute of Technology
Cum Laude
Thesis: Fecal Microbiota Transplantation and Phage Therapy to Eradicate Antibiotic Resistant Bacteria.
Advisor: Assistant Professor Naama Geva-Zatorsky.
- 2014-2018 **B.Sc., Biology** • Technion – Israel Institute of Technology

AWARDS & HONORS

- 2024 Jacobs Outstanding Paper Award • Technion award for best paper
- 2023 Gutwirth Excellence Scholarship
- 2022 Teva's BioInnovation Student Fellowship & Mentorship Program
- 2020-2024 The Faculty of Medicine Excellence Scholarship for graduate students • five times
- 2017 Outstanding bachelor student in the Faculty of Biology award
- 2017-2018 Faculty of Biology Dean's list • three semesters

PUBLICATIONS

Refereed papers in professional journals:

1. #Bar-Yoseph H, #**Carasso S**, Shklar S, Korytny A, Even Dar R, Daoud H, Nassar R, Maharshak N, Hussein K, Geffen Y, Chowder Y, Geva-Zatorsky N, Paul M. Oral capsulized fecal microbiota transplantation for eradication of carbapenemase-producing Enterobacteriaceae colonization with a metagenomic perspective, *Clinical Infectious Diseases*, 2020. # **Equal Contribution**.
2. Ben-Assa N, Coyne MJ, Fomenkov A, Livny J, Robins WP, Muniesa M, Carey V, **Carasso S**, Gefen T, Jofre J, Roberts RJ, Comstock LE, Geva-Zatorsky N, Analysis of a phase-variable restriction modification system of the human gut symbiont Bacteroides fragilis, *Nucleic Acids Research*, 2020.
3. Berkowitz E, Kopelman Y, Kadosh D, **Carasso S**, Tiosano B, Kesler A, Geva-Zatorsky N, "More Guts than Brains?"—The Role of Gut Microbiota in Idiopathic Intracranial Hypertension, *Journal of Neuro-Ophthalmology*, 2021.
4. **Carasso S**, Fishman B, Lask LS, Shochat T, Geva-Zatorsky N, Tauber E, Metagenomic analysis reveals the signature of gut microbiota associated with human chronotypes. *FASEB J.*, 2021.
5. Marai I, Carasso D, **Carasso S**, Carasso S. The Mechanical Cost of Decreasing Conduction Velocity: A Mathematical Model of Pacing-Induced Lower Strain. *J Atr Fibrillation*, 2021.

6. #Hadar Mudrik-Zohar H, **#Carasso S**, Gefen T, Zalmanovich A, Katzir M, Cohen Y, Paitan Y, Geva-Zatorsky N, Chowders M, Microbiome Characterization of Infected Diabetic Foot Ulcers in Association with Clinical Outcomes: Traditional Cultures versus Molecular Sequencing Methods. *Front. Cell. Infect. Microbiol.* 2022.

Equal Contribution.

7. Mandelbaum N, Zhang L, **Carasso S**, Ziv T, Lifshiz-Simon S, Davidovich I, Luz I, Berinstein E, Gefen T, Cooks T, Talmon Y, Balskus E. P., Geva-Zatorsky N, Extracellular vesicles of the Gram-positive gut symbiont *Bifidobacterium longum* induce immune-modulatory, anti-inflammatory effects, *npj Biofilms and Microbiomes*. 2023.

8. #Naddaf R, **#Carasso S**, Reznick-Levi G, Hasnis E, Qarawani A, Maza I, Gefen T, Half E. E., Geva-Zatorsky N, Gut microbial signatures are associated with Lynch syndrome (LS) and cancer history in Druze communities in Israel, *Scientific Reports*. 2023. **# Equal Contribution.**

9. **#Carasso S**, #Zaatry R, #Hajjo H, #Kadosh-Kariti D, Ben-Assa N, Naddaf N, Mandelbaum N, Pressman S, Chowders Y, Gefen T, Jeffrey K.L., Jofre J, Coyne M.J., Comstock L.E., Sharon I, Geva-Zatorsky N, Inflammation and bacteriophages affect DNA inversion states and functionality of the gut microbiota, *Cell Host & Microbe*. 2024.

Equal Contribution.

Preview articles:

10. **Carasso S**, Hajjo H, Geva-Zatorsky N, Phage-Bacteria Associations: Analyze. Match. Develop Therapies. *Cell Host & Microbe*, 2020.

TEACHING & MENTORING EXPERIENCE

2021 – present	Teaching Assistant, Medical Bacteriology Lab (Undergraduate Course, Technion – Israel Institute of Technology) • Developed a dry lab assignment focused on microbiome analysis
2021,2022	Mentored final research projects for two biotechnology bachelor students from Hadassah Academic College in Jerusalem

PRESENTATIONS

Invited talks

February 2023	ILANIT FISEB Experimental Biology Conference • Eilat, Israel
September 2023	EMBL Symposium The human microbiome • Heidelberg, Germany

Posters

June 2023	10 th Annual Broad-ISF Symposium • Jerusalem, Israel
June 2024	10 th International Human Microbiome Consortium Congress (IHMC) • Rome, Italy
September 2024	Israel Society for Microbiology 2024 Annual Meeting • Bar Ilan University, Ramat Gan, Israel

References available upon request.