

# Omer Nadel

## Skills

Molecular biology: DNA and RNA extraction, purification and cloning  
Genetic engineering: bacteria and bacteriophages gene editing  
Biophysics: light spectrometry  
Data analysis: functional metagenomics and phylogenetics  
Proteomics: protein extraction, sample preparation, and mass spectrometry analysis  
Biochemistry: pigment extraction, purification, and analysis  
Culturing: cyanobacteria culture maintenance, cyanophage infection experiments

## Education

- Postdoc research fellowship: Viral ecology at the University of Miami in Antoni Luque's lab and at the San Diego State University in the Forest Rohwer's lab
- Ph.D.: Marine microbiology under the supervision of Prof. Oded Béjà  
Technion - Institute of Technology, Israel, 2019 - 2024  
Teaching Assistant in Zoology laboratories, Technion - Institute of Technology, Israel, 2020 – 2023
- M.Sc.: Marine microbiology under the supervision of Prof. Oded Béjà  
Technion - Institute of Technology, Israel, 2016 - 2018
- B.Sc.: Biology and medical science. Haifa University, Israel, 2012 – 2015

## Experience

Specialized research assistant in cyanobacteria cultivation in Shany Barath lab, Faculty of Architecture and city planning, Technion - Institute of Technology, Israel, 2023  
Teaching Assistant in Zoology laboratories, Technion - Institute of Technology, Israel, 2020 – 2023

## Grants and awards

The Faculty of Biology Interlaboratory-Collaboration Award, Technion, 2022  
Traveling grant for presenting and participating ProSynFest2020, 2022

## Published articles

O. Nadel, A. Rozenberg, J. Flores-Urbe, S. Larom, R. Schwarz, O. Béjà. An uncultured marine cyanophage encodes an active phycobilisome proteolysis adaptor protein NblA. Environmental Microbiology Reports, 2019

## Articles under preparation

- O. Nadel, R. Hanna, A. Rozenberg, D. Shitrit, R. Tahan, I. Pakarsky, O. Kleifeld, D. Lindell, O. Béjà.  
Oceanic photosynthesis is directly affected by viral NblA mediated degradation of cyanobacterial phycobilisomes.
- O. Nadel, R. Hanna, M. Suissa-Szlej, A. Rozenberg, N. Adir, O. Béjà, O. Kleifeld.  
An abundant uncultured marine cyanophage family encodes two distinct NblA proteins with differential activities toward different cyanobacterial phycobiliprotein subunits.
- O. Nadel, A. Rozenberg, L. Saied, J. P. Solanki, O. Béjà, N. F. Dinkel, G. Schuster, N. Adir, O. Kleifeld.  
Multiplicity of marine cyanobacteria NblA proteins involved in chromatic acclimation in addition to nutrient stress.

## Conference presentations

Department of Biology Seminar, University of Miami, Florida, USA, 2024  
SAME17, Tartu, Estonia, 2023  
AVW11, Quebec City, Canada, 2023  
Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel, 2023  
The 10th ILANIT/FISEB Conference, Eilat, Israel, 2023  
ISM, Ben Gurion University of the Negev, Beersheba, Israel, 2022  
Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel, 2022  
ProSynFest2020, Cordoba, Spain, 2022  
Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel, 2021  
The 2th MicroEco Symposium for Young Researchers, Weizmann Institute, Israel, 2021  
Ministry of Agriculture and Rural Development, Volcani Center, Israel, 2019  
ISME, Leipzig, Germany, 2018  
Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel, 2018

## Contact

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## Languages

Hebrew - Proficient (C2)  
English - Proficient (C2)  
Spanish - Advanced (C1)