Omer Nadel

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Education:

Bachelor of science (B.Sc.) in Biology and medical science, Haifa University, Israel (2012-2015).

Master of science (M.S.) in marine microbiology, Technion, Haifa, Israel (2016-2018).

Doctor of philosophy (Ph.D.) in marine microbiology, Technion, Haifa, Israel (2019-2023).

Postdoctoral research fellowship in viral ecology, University of Miami, Florida, and San Diego State University, California, USA (2024-to date).

Publications

Omer Nadel, Andrey Rozenberg, José Flores-Uribe, Shirley Larom, Rakefet Schwarz, Oded Béjà. An uncultured marine cyanophage encodes an active phycobilisome proteolysis adaptor protein NblA, Environmental microbiology reports, 2019

Awards and Conferences

The Faculty of Biology Interlaboratory Collaboration grant 2022-2023

Oral presentations

An uncultured marine cyanophage encodes an active phycobilisome proteolysis adaptor protein NblA

Ministry of Agriculture and Rural Development, Volcani Center, Israel, 24.10.2019

Viral encoded NblA proteins are directly involved in degradation of photosynthetic antennas in infected marine cyanobacteria

Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel, 13.3.2022

Targeted degradation of host photosynthetic antenna by a marine cyanophage-encoded protein

ISM 2022, Ben Gurion University of the Negev, Beersheba, Israel, 4-5.7.2022

Targeted degradation of host photosynthetic antenna by a marine cyanophage-encoded protein

10th ILANIT/FISEB Conference, Eilat, Israel, 20-23.2.2023

Targeted degradation of host photosynthetic antenna by a marine cyanophage-encoded protein

Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel, 14.3.2023

Cyanophage auxiliary metabolic protein NblA is directly involved in phycobilisome degradation in infected marine *Synechoccocus*
AVW11, Quebec City, Canada, 23-27.5.2023

Cyanophage auxiliary metabolic protein NblA is directly involved in phycobilisome degradation in infected marine *Synechoccocus*
SAME17, Tartu, Estonia, 20-25.8.2023

Oceanic photosynthesis is directly affected by cyanophage NblA protein
Department of Biology Seminar at the University if Miami, Florida, USA, 26.8.24

Poster presentations

An uncultured marine cyanophage encodes an active phycobilisome proteolysis adaptor protein NblA
Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel,
21-22.2.2018

An uncultured marine cyanophage encodes an active phycobilisome proteolysis adaptor protein NblA
ISME, Leipzig, Germany, 12-17.8.2018

Characterization of the *nblA* gene among marine cyanobacteria and cyanophages
Microbial Ecology symposium for young researchers, Weizmann, Israel, 9.2.2021

Characterization of the *nblA* gene among marine cyanobacteria and cyanophages
Faculty of Biology Retreat, Technion - Israel Institute of Technology, Haifa, Israel,
7-11.3.2021

Podovirus encoded NblA protein is directly involved in phycobilisomes degradation in infected marine *Synechococcus* cells
ProSynFest2020, Cordoba, Spain, 16-19.3.2022, Including travel grant

Key skills

- Molecular biology: DNA and RNA extraction, purification and cloning
- Genetic engineering: Bacteria and bacteriophages gene editing
- Biochemistry: Protein extraction and structural biological complexes
- Biophysics: Light-harvesting antennae and energy transfer
- Ecology: Functional metagenomics and phylogenetics
- Proteomics: Mass spectrometry analysis and sample preparations
- Stress response: Adaptation and acclimation associated with nutrient or light stress

- Virology: Characterization of cultured and uncultured marine viral genes