

Workshop

NEW HORIZONS IN TRANSLATION REGULATION

In honor of Prof. Nahum Sonenberg – Honorary PhD recipient for 2022

Dean's podium Faculty of Natural Sciences and Department of Life Sciences Seminar

May 18, 2022

Ben-Gurion University of the Negev, Marcus Family Campus, Beer Sheva - Building No 41

Supported by the Ben-Gurion University of the Negev and the Israel Ministry of Science and Technology

09:20-09:30 Greetings

Session I - Chair Raz Zarivach

09:30-09:50 Irit Sagi – Weizmann Institute of Science

Understanding PNN brain pathophysiological proteolysis

09:50-10:10 Kobi Rosenblum – Haifa University

Regulation at Initiation or Elongation Phases of mRNA Translation in Neurons in the Mature Brain Underlies Different and Vital Functions

10:10-10:30 Adi Kimchi - Weizmann Institute of Science

Non canonical mechanisms of mRNA translation driven by DAP5 shape the fate of cancer stem cells

10:30-10:50 Coffee Break

10:50-11:10 Daphna Nachmani – Hebrew University

Ribosomes as Determinants of Cellular Function and Identity

11:10-11:30 Rotem Karni – Hebrew University

A long noncoding RNA that activates a splicing factor leading to translational regulation of tumor metabolism

11:30—11:50 Yoav Arava - Technion

Translation regulation through mimicry in RNA binding to aminoacyl tRNA synthetases

12:10-13:00 Nahum Sonenberg McGill University

mRNA translation: from affinity labeling to metformin

Lunch 13:00-13:40

Session II – chair – Meir Wilchek

13:40-14:00 Rivka Dikstein - Weizmann Institute of Science

Ribosome specialization: Rps26 RNA-binding integrates the translational response to energy stress

14:00-14:20 Shula Michaeli – Bar-Ilan University

The role of rRNA modification on translation-lessons from trypanosomatids

14:20-14:40 Noam Stern-Ginosar - Weizmann Institute of Science

Translational remodeling by SARS-CoV-2 infection

14:40-15:10 Coffee break

Session III Chair - Anat Ben Zvi

15:10-15:30 Barak Rotblat – Ben-Gurion University of the Negev

4EBP promotes survival during energetic stress by regulating fatty acid synthesis

15:30-15:50 Michal Shapira – Ben-Gurion University of the Negev

Functional diversity of cap binding complexes in *Leishmania*

15:50-16:10 Etta Livneh – Ben-Gurion University of the Negev

An uORF-encoded micropeptide is a novel kinase inhibitor

16:10-16:35 Tanaya Bose - Weizmann Institute of Science

Glimpse into origin of life: From RNA to protein

Organizers: Michal Shapira and Raz Zarivach

For Further information:

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