Non-Mendelian inheritance and stress responses symposium: An open discussion across the tree of life
24 January 2023  9:00-15:30
The Steinhardt Museum of Natural History, Tel Aviv University

9:00-9:30  Arrival and registration
9:30-9:35  Welcome address  Judith Berman
9:35-10:05 Keynote talk  Dan Jarosz
Protein self-assembly as a driver of stress-induced adaptation from molecules to ecosystems

**Session 1: Mediators of non-mendelian inheritance**
10:05-10:15  Session overview  Tzachi Pilpel
10:15-10:30  Oded Rehavi  Transgenerational Small RNA Inheritance
10:30-10:45  Dan Mishmar  Mitochondrial-nuclear co-evolution and coregulation in health and disease
10:45-11:00  Markus Ralser  Emerging roles of metabolic cell-cell interactions in generating phenotypic heterogeneity

11:00-11:20  Discussion
11:20-11:45  Coffee break

**Session 2: Mechanisms of stress responses**
11:45-11:55  Session overview  Shula Michaeli
11:55-12:05  Ruth Hirschberg  Dynamics of bacterial adaptation under prolonged resource exhaustion
12:05-12:20  Uri Ben David  Aneuploidy as stress inducer and stress reducer in human cancer
12:20-12:45  Amir Mitchell  Microbiome adaptation to chemotherapy drugs and its potential impact on the treated host
12:45-13:05  Discussion
13:05-14:00  Lunch and speed dating

**Session 3: Persistence, Tolerance, Resistance**
14:00-14:10  Session overview  Uri Alon
14:10-14:25  Yossi Yarden  The bacterial SOS Response: relevance to treatment of patients with lung cancer
14:25-14:40  Nathalie Balaban  Understanding drug response in the framework of the disrupted cell
14:40-14:55  Ronen Ben-Ami  Lost in translation: what will it take to introduce microbial tolerance and persistence into clinical trials
14:55-15:15  Discussion
15:20-15:25  Concluding remarks  Yaara Oren