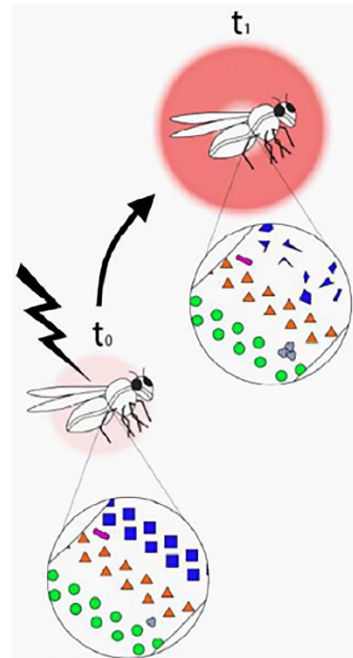


**Position:** Postdoctoral Associate

We are seeking a motivated and passionate scientist to spearhead a new collaborative effort between the labs of Profs. Yoav Soen (Weizmann Institute) and Hanna Salman (University of Pittsburgh). The joint research, titled “***Emergent adaptation in a composite host-microbiome system***”, aims to address the question of how rapid changes in the microbiome might be translated into net benefit to the holobiont system.

The research will involve unique models aimed at in vivo and in vitro investigation of possibilities and requirements for emergent adaptation of a holobiont system due to rapid changes in its resident bacteria.



Research activities include:

- i. Analysis of emergent adaptations in vivo
- ii. Establishment of an artificial host-microbiome system for investigating how feedback from the host might affect acquisition of adaptive capabilities by resident bacteria.
- iii. Depending on the applicant’s skills, the research will include theoretical analysis of potential modes of emergent adaptation that are traditionally considered impossible for standalone hosts and bacteria.

As a new collaboration, the research will require extended periods of work in each lab and may require involvement in both the in vivo and in vitro systems.

**Qualifications:**

Successful applicants are expected to:

- Have completed a Ph.D. in experimental biology or exact sciences (e.g. physics)
- Be creative, resourceful and capable of carrying out research in uncharted territories
- Be responsible, motivated and committed to the research

Ability to step into new fields, wet-lab experience and basic expertise in microfluidics and microscopy and/or theoretical analysis would be an advantage.

**Applications:**

Please send your applications, including a one-page cover letter, full CV with publications record, and names of at least two people willing to provide recommendation letters upon request, via email to: [yoavs@weizmann.ac.il](mailto:yoavs@weizmann.ac.il) and [hsalman@pitt.edu](mailto:hsalman@pitt.edu)