



האוניברסיטה העברית בירושלים
הפקולטה לחקלאות, מזון וסביבה ע"ש רוברט ה. סמית
המכון לביוכימיה, מדעי המזון והתזונה



Dr. Yoav Soen

Department of Biological Chemistry
Weizmann Institute of Science

http://www.weizmann.ac.il/Biological_Chemistry/scientist/Soen/home.html

Title:

Bridging Ecology and Evolution by Symbiosis and Epigenesis

המפגש יתקיים

ביום א', 19 אפריל 2015, בשעה 9:00

מועדון סגל

(4/19/2015, 9:00, Faculty Club)

Abstract:

While adaptations to novel environments extend over evolutionary timescales, a new environment can emerge already within a single generation and can immediately impact the physiological and epigenetic state of the organism. Whether and how the initial response might be connected to longer-term establishment of new adaptations are not clear.

We address these questions experimentally by studying how flies cope with novel scenarios of stress. We identified epigenetic- and symbiotic-mediated mechanisms which promote increased developmental plasticity under stress, influence the germline, and contribute to non-Mendelian transfer of variation across generations.

I will discuss these epigenetic- and symbiotic-mediated processes and their potential contribution to the establishment of initial adaptations that can bridge part of the gap between ecological and evolutionary processes.

סגל וסטודנטים מוזמנים להשתתף
לתיאום פגישה: yaelf@savion.huji.ac.il