



האוניברסיטה העברית - הפקולטה לחקלאות המכון לביוכימיה, מדעי המזון והתזונה



Kobi Simpson-Lavy, PhD

Dept. of Biochemistry and Molecular Genetics
University of Colorado-Denver

הנושא:

Regulation of Glucose Transporter Expression in *S. cerevisiae*

המפגש יתקיים

ביום א', 5 ינואר 2014, בשעה 9:00

מועדון סגל

Abstract:

Conversion of agricultural raw materials into ethanol is of high importance to human nutrition and industry. The yeast *S. cerevisiae* ferments glucose to ethanol and CO₂ even in the presence of oxygen, and utilizes glucose in preference to other carbon sources. The detection of extracellular glucose activates signaling pathways resulting in the suppression of respiration and the replacement of non-glucose transporters with glucose-transporters in the plasma membrane.

A new signaling pathway that links the suppression of respiration to glucose transporter expression has been identified, which utilizes a novel mechanism to regulate the AMP-activated protein kinase (AMPK/Snf1) in *S. cerevisiae*.

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