



האוניברסיטה העברית - הפקולטה לחקלאות המכון לביוכימיה, מדעי המזון והתזונה



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הנושא:

Neighborly relations: the host and his microbiome in health and disease

המפגש יתקיים

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מועדון סגל

Abstract:

The mammalian gastrointestinal tract harbors one of the highest densities of microorganisms on earth, called the microbiota. In fact, the number of microbial cells in the intestine outnumbers the amount of human cells of the entire organism by a factor of 10. As such, a human being is now perceived as a super-organism consisting of a eukaryotic and a prokaryotic part. The compartment mediating the communication between both parts is the innate immune system and its various microbe-sensing pattern-recognition receptors. Co-evolution of the microbiota with the innate immune system has resulted in elaborate interdependency and feedback mechanisms by which both systems control mutual homeostasis. Moreover, altered host-microbiota interactions are now highlighted to be pivotal mediators of the susceptibility to a variety of common multi-factorial diseases, including infection, auto-inflammation, metabolic disease and cancer.

סגל וסטודנטים מוזמנים להשתתף

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