



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

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הנושא:

Early-life exposure to pesticides and chronic respiratory disease in children

המפגש יתקיים

ביום חמישי, 20 נובמבר 2014, בשעה 10:00

מועדון סגל

(11/20/2014, 10:00, Faculty Club)

Abstract:

The reasons for the rise in chronic respiratory disease are not fully understood. Some environmental agents such as smoking and air pollution have been reported to be associated with the burden of respiratory diseases. Although adverse effect of pesticides on children living in proximity to agricultural fields is biologically plausible, the relationship between pesticides exposure and non-occupational respiratory disease has not been established.

There is a growing body of scientific evidence suggesting that there are critical periods of time extending from conception to puberty when the reproductive, immune, nervous, and endocrine systems in children may be more affected by chemical exposures, and that the fetal environment may impact the future health of both the child and adult.

The talk will present breakthrough results from studies in populations residing near agricultural fields that demonstrate that prolonged exposure to pesticides (organic and conventional) among pregnant mothers is linked to chronic respiratory disease in their children— five and seven years after the exposure. Additionally, exposure during early childhood was also linked to lung function impairment. My research is based on a prospective birth cohort, exposure assessment via state-of-the-art biomarkers, and longitudinal analysis.

סגל וסטודנטים מוזמנים להשתתף

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