

Institut Lady Davis de recherches médicales | Lady Davis Institute for Medical Research

DISTINGUISHED LECTURE SERIES



Yitzhak Pilpel, PhD

Professor

Molecular Genetics

Weizmann Institute of Science

CHROMOSOMAL ANEUPLOIDY - A RAPID TRANSIENT STEP TOWARDS ADAPTATION TO STRESS.

Friday, October 28, 2011

From: 12:00 P.M. - 1:00 P.M.

BLOOMFIELD LECTURE HALL

3999, Chemin de la Côte-Ste-Catherine (corner of Légaré)

Montréal, Québec H3T 1E2 CANADA

Prof. Yitzhak Pilpel received his Ph.D. with distinction from the Weizmann Institute of Science (1999), followed by a post-doc in the Dept. of Genetics at Harvard. His research specializes in computer-based studies of genes and their products, to analyze complex cellular networks. He develops computational tools, backed-up by lab experiments, to analyze the structure and underlying logic of genetic regulatory networks. In parallel, he applies systems biology strategies to study genetic circuits that process information in cells, to define the entire pathways through which proteins affect changes in gene expression. His research activities have many potential clinical applications. For example, he has developed algorithms that enable scientists to rank mutations according to the likelihood that they cause disease. This could lead to more “personalized” medicine and help advance preventative health measures based on individual profiles.

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