מכון ויצמן למדע
WEIZMANN INSTITUTE OF SCIENCE

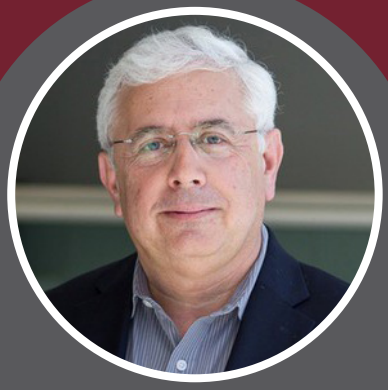
Moross
Integrated Cancer Center (MICC)
המרכז הבינתחומי לחקר סרטן ע"ש מוחס

Dwek Institute for Cancer Therapy Research

Department of Biological Regulation and Dwek Institute for Cancer Therapy Research

ZOOM ON CANCER

HYBRID LECTURE



Melanoma addiction to GCDH defines NRF2 tumor suppressor function

Prof. Ze'ev Ronai

Director, NCI designated Cancer Center

Jeanne and Gary Herberger Leadership Chair in Cancer Research

Sanford-Burnham-Prebys

Medical Discovery Institute

18th November Thursday 2021

14:00 Candiotty Auditorium

Light refreshments will be served from 13:45

Tumor dependency on specific metabolic signals has guided numerous therapeutic approaches. Here we identify melanoma addiction to the lysine metabolism pathway, which defines NRF2 tumor suppressor function. Inhibition of select lysine catabolism components, either genetically, or by newly identified small molecules, effectively attenuates NRF2 tumor suppressor function and induces melanoma cell death, seen in culture as in inhibition of melanoma in mice. Addiction to lysine catabolism is independent of genetic driver mutations. Addiction to lysine catabolism pathway components, which define NRF2 tumor suppressor function, offers a new paradigm for the control of NRF2 oncogenic vs. tumor suppressor activities, while highlighting a novel therapeutic modality for treatment of melanoma.

To join the meeting click here
weizmann.zoom.us/j/5065402023

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Host

Prof. Yardena Samuels

Incumbent of the Knell Family Professorial Chair

Director, the EKARD Institute for Cancer Diagnosis Research

Department of Molecular Cell Biology

For more information and assistance with accessibility issues, please contact

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