

ZOOM ON CANCER



Prof. Daniel Peeper

Department of Molecular Oncology & Immunology at the Netherlands Cancer Institute (NKI), Amsterdam, Netherlands

Towards enhancing immunotherapy - Insights from functional genomics

Sunday, November 10, 2024

13:00

Room 100
Medical School

Notwithstanding major advances made in therapeutic opportunities over the last decade, many patients fail to durably benefit from targeted and immunotherapies, most commonly because of early or late resistance. We employ function-based, genome-wide screens and other advanced technologies to develop concepts for rational combinatorial cancer treatment, targeting both cancer and immune cells more effectively.

On the one hand, we aim to increase our understanding of how cancer cells rewire their signaling networks particularly in the context of immunotherapy, to expose and exploit new pharmacologically tractable susceptibilities. On the other, we manipulate various cell types including T cells from the patient's own immune system to revert their dysfunction and boost specific cytotoxicity towards tumor cells. We complement these studies with analyses of clinical samples in collaboration with our colleagues at NKI-AVL.

In this way, we intend to sensitize tumor cells to T cell elimination while boosting T cell antitumor activity and develop concepts for new rational combinatorial therapies, aiming to achieve more durable clinical responses.

Host

Prof. Carmit Levy

Department of Human Genetics and Biochemistry
Medical School
Tel Aviv University

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