

Department of Biological Regulation

Special Guest Seminar



Prof. Tal Burstyn-Cohen

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TAM Tyrosine Kinase Receptor Signaling in Cancer: Unexpected Roles in the Tumor microenvironment

12th December
Thursday 2019

14:00

Candiotty Auditorium

Host macrophages contribute to tumor growth and metastasis, through modulation of inflammation and by promoting cancer cell aggressiveness. Protein S (PROS1) expressed by immune cells, activates TYRO3, AXL and MERTK (TAM) receptor tyrosine kinases to suppress inflammation in immune cells. At the same time, immune-derived TAM agonists may activate TAM-dependent oncogenic signaling within tumor cells. Therefore, their inactivation within immune cells is expected to promote a significant anti-tumor effect: to attenuate oncogenic signaling in cancer cells and to potentiate an anti-cancer inflammatory and immune response at the same time. Surprisingly, deletion of PROS1 from immune cells resulted in enhanced metastasis, thus revealing an unexpected anti-metastatic role for the TAM agonist PROS1, and highlighting the complexity of TAM signaling in cancer. The functional and molecular characterization of PROS1 in tumor cells and in the TME will be discussed.

Host

Prof. Yosef Yarden

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**For more information and assistance with accessibility issues,
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