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The Human Biology departmental seminar

Dysregulation of alternative splicing in cancer and its modulation as therapy

Abstract
In the past decade, it became clear that epigenetic changes, including alternative splicing, play a major role in cancer development and progression. The contribution of alternative splicing and splicing factors that regulate this process to cancer development and progression has been understudied. Recently multiple studies have revealed altered splicing patterns in cancers and several splicing factors were found to contribute to tumor development. Studies using high throughput genomic analysis have identified mutations in components of the core splicing machinery as well as in splicing factors in several cancers.

In this lecture I will present our recent findings on how oncogenic splicing factors promote cancer development and the metastatic process and our development of splicing modulatory molecules as anti-cancer drugs.

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University of Haifa