"Fire and Water are Good Servants but Bad Masters"

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Abstract

It has become clear that tumorigenesis results from much more than just the activation of an oncogene and/or the inactivation of a tumor-suppressor gene, and that the cancer cell genome contains many more alterations than can be specifically targeted at once. This observation has led our group to a search for alternative ways to kill cancer cells (while sparing normal cells) by focusing on properties unique to the former. Future anti-cancer therapeutics will have to be based on exploiting the balances of various biological processes. Three approaches with the potential to generate new anticancer therapies: combatting the tactics by which cancers evade antitumor immune responses, targeting metabolic adaptations that tumor cells use to survive conditions that would kill normal cells, manipulating, and exploiting aneuploidy. This seminar describes our progress to date on these fronts.

Tak Mak 博士は、がん、免疫など、生命科学の領域で、世界のトップランナーとして活躍している研究者です。また、ナノ生命科学研究所のアドバイザリーボードメンバーに就任いただいています。せっかくの機会ですので、奮ってご参加ください。

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