



第 427 回 つくば分子生命科学セミナー

TSUKUBA MOLECULAR LIFE SCIENCE SEMINAR

Title : Plants for the future as anticancer applications.

Speaker : Professor Hany A. El-Shemy

Cairo University Research Park (CURP)

Biochemistry Department, Faculty of Agriculture

Cairo University

Date : August 2, 2016 10:00-11:00

Venue : Seminar Room 483 (Igakukei-tou 4th floor)

Abstract :

The relationship between treatments with plant-derived drugs and leukemia-associated (immuno) phenotypes (LAIPs) of clinically-isolated leukemia cells is not well-established in the Egyptian population. The objective of the present study was two-fold: 1) to develop a preliminary clinical prognostic map for commonly-expressed LAIPs in Egyptian patients clinically-diagnosed with leukemia, and 2) to assess the potential implication of LAIPs in the response rate to ten natural products of plant origin. Increased expression of LAIPs: CD4, CD14, CD33 and CD34 is considered as a surrogate marker of the desired response of leukemia cells to treatment with plant-derived drugs. Whereas, the increased expression of two particular LAIPs, namely: MPO and DR, was associated with poor prognostic outcomes following treatment with the plant-derived drugs. Our data present evidence that five out of the ten plant-derived drugs tested elicit the expression of several desirable LAIPs biomarkers. These findings clearly highlight the potential treatment efficacy of some plant-derived drugs against some selected Egyptian leukemic cell types.

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