



第 333 回つくば分子生命科学セミナー

TSUKUBA MOLECULAR LIFE SCIENCE SEMINAR

演題 (Title) : REVISITING NUCLEAR PHOSPHOLIPASE C
SIGNALLING IN MDS

演者 (Speaker) : Professor Lucio Cocco

Cellular Signalling Laboratory, Department of Anatomical Sciences,
University of Bologna, Italy

日時 (Date) : 2011 年 11 月 21 日 (月) 10:00-11:30

会場 (Place) : 医学学系棟 4 8 2

要旨 (Abstract) : 解剖学で有名なヨーロッパ最古の大学・ボローニャ大学からルッチョ
ココ教授をお招きしました。ココ教授は、解剖学の教授でありながら、シグナル伝達に関す
る基礎研究を精力的に展開しておりますので、ご興味のある方は是非、ご参加下さい。

Phosphoinositide-specific-phospholipase C (PI-PLC) is involved in several cell functions. In addition nuclear signalling elicited by PI-PLC β 1 plays an important role in the control of the balance between cell cycle progression and apoptosis. Recent findings indicate that PI-PLC β 1 is involved in the progression of MDS to AML and strengthens the contention that the nuclear lipid signalling is essential for physiological processes such as cell growth and differentiation in MDS. Moreover, the comprehension of the role of nuclear PI-PLC β 1 might contribute to the further clarification of the therapeutic activity of some drugs currently used in MDS, such as azacitidine and VPA, and possibly pave the way for new therapeutic approaches in these patients, as the quantification of the expression of PI-PLC β 1 could represent an attractive new predictive factor for the responsiveness to demethylating agents. However, further investigations are needed to fully understand the molecular mechanisms underlying the MDS progression into AML, but it is now clear that signal transduction pathways can be considered as innovative therapeutic targets in MDS treatments.

本セミナーは、人間総合科学研究科生命システム医学専攻「医学セミナー」も兼ねており、単位の一環でもあります。また TSMM セミナーは、医科学セミナーIIに関連したセミナー（世話人：久武幸司）でもあります。

連絡先： 人間総合科学研究科 金保 安則（内線 3282）

【筑波分子医学協会（TSMM）主催】 HP <http://www.md.tsukuba.ac.jp/public/tsmm/>

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