

# 日本薬学会九州支部講演会<sup>7</sup><sub>76</sub>

演題 Chemical Constituents and Bioactivities  
of *Euphorbia fischeriana*

演者 秦 国偉 教授 (上海薬物研究所)

日時 18年7月11日(火) 16:00 - 17:00

場所 九州大学大学院薬学研究院 2F 会議室

主催 日本薬学会九州支部

天然物化学の領域では世界的に有名な上海薬物研究所の秦国偉 (Qin Gu-Wei) 教授は長年漢方薬や薬用植物から創薬を目指す研究を展開され、ユネスコアジア委員の代表にもなられており、アジアを中心にヨーロッパ、アメリカとのパイプ役として天然薬物の領域で活躍中です。近年製薬企業で、創薬には天然物が重要との再認識が強まっていますので、秦教授のご講演は時を得たものと考えられます。万障お繰り合わせの上ご参集下さい。

Abstract *Euphorbia fischeriana* Steud (Euphorbiaceae) is perennial herbaceous plant distributed widely in northeast of mainland China. The dried plant roots, named "lang-Du (狼毒)" in traditional Chinese medicine, are used as remedy for treatment of edema, ascites, and cancer. The chemical constituents of the roots have been investigated and a variety of diterpenoids have been reported. Two ent-abietane diterpenoids, jolkinolides A and B, the major components of the roots, showed cytotoxic activities towards sarcoma 180, Ehrlich ascites and Hela cells. Recently it has been shown that 12-deoxyphorbol-13-acetate (i.e. Prostratin), a known tricyclic diterpenoid found in *E. fischeriana* and in other species of Euphorbiaceae, is a protein kinase C activator, potentially useful in the treatment of HIV, as it affects viral reservoirs in latently infected CD4+ T-cells. These results encouraged us to re-investigate the roots of *E. fischeriana* for additional new bioactive compounds, which has led to the isolation of seven new diterpenoids (1-7) and two known diterpenoids (8 and 9). The compounds isolated were evaluated the cytotoxicity against Ramos B and other cancer cells.

*Paris quadrifolia.*

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