

中国産制癌活性植物の調査研究

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1993 Fiscal Year Final Research Report Summary

Surveying studies on antitumor active Chinese plants

Research Project

Project/Area Number

05042002

Research Category

Grant-in-Aid for international Scientific Research

Allocation Type

Single-year Grants

Section

Special Cancer Research

Research Institution

Kanazawa University

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Project Period (FY)

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Keywords

Chinese medicines / Chinese plant / Rui Xian Lang Du / Antitumor activity / Gnidimacrin / Stelleramacrin

Research Abstract

We isolated new antitumor agents from *Stellera chamejasme* L. called Rui Xian Lang Du in Chinese or Zuikou Rou Doku in Japanese. They are daphnane series of diterpene compounds which are gnidimacrin and stellamacrin and the former is a known, but the latter a novel compound. They have strong antitumor activity and gnidimacrin showed 79% of ILS(Increase in life span) against murine leukemia P388 at a dose of 0.02mg/kg and stelleramacrin did 70% at 0.5mg/kg. Gnidimacrin has also strong activity against solid tumors, and shows significantly high inhibitory activity against human cancer cell lines approximately one hundred times as high as adriamycin, though it was dependent on a kind of cell lines. In this study it was found that these antitumor compounds could be also isolated from surface parts of the plant and it would be able to collected with a large amount in area of the Lake Qinghai in Qinghai Providence, China. In Chengdu, Shuchan Providence, an information could be gotten that it grew gregariously in Southern part of the Providence. So it is concluded for us to collect a large amount of source materials of our antitumor agents in order to carry out a developmental study.


Dr.Weijing Feng, our co-worker came to Japan to study on the antitumor activity of extracts of Chinese plants and discuss on Chinese plants from September to November, 1993. Prof. Schuchang Yan, our co-worker came to our laboratory of Kanazawa and discussed useful Chinese herbs February, 1994.

Research Products (2 results)

All Other

All Publications (2 results)

[Publications] Tetsuro IKEKAWA et.al.: "Studies on Antitumor Chinese Medicines(III)" Chemical & Pharmaceutical Bulletin. 42. (1994) 

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