

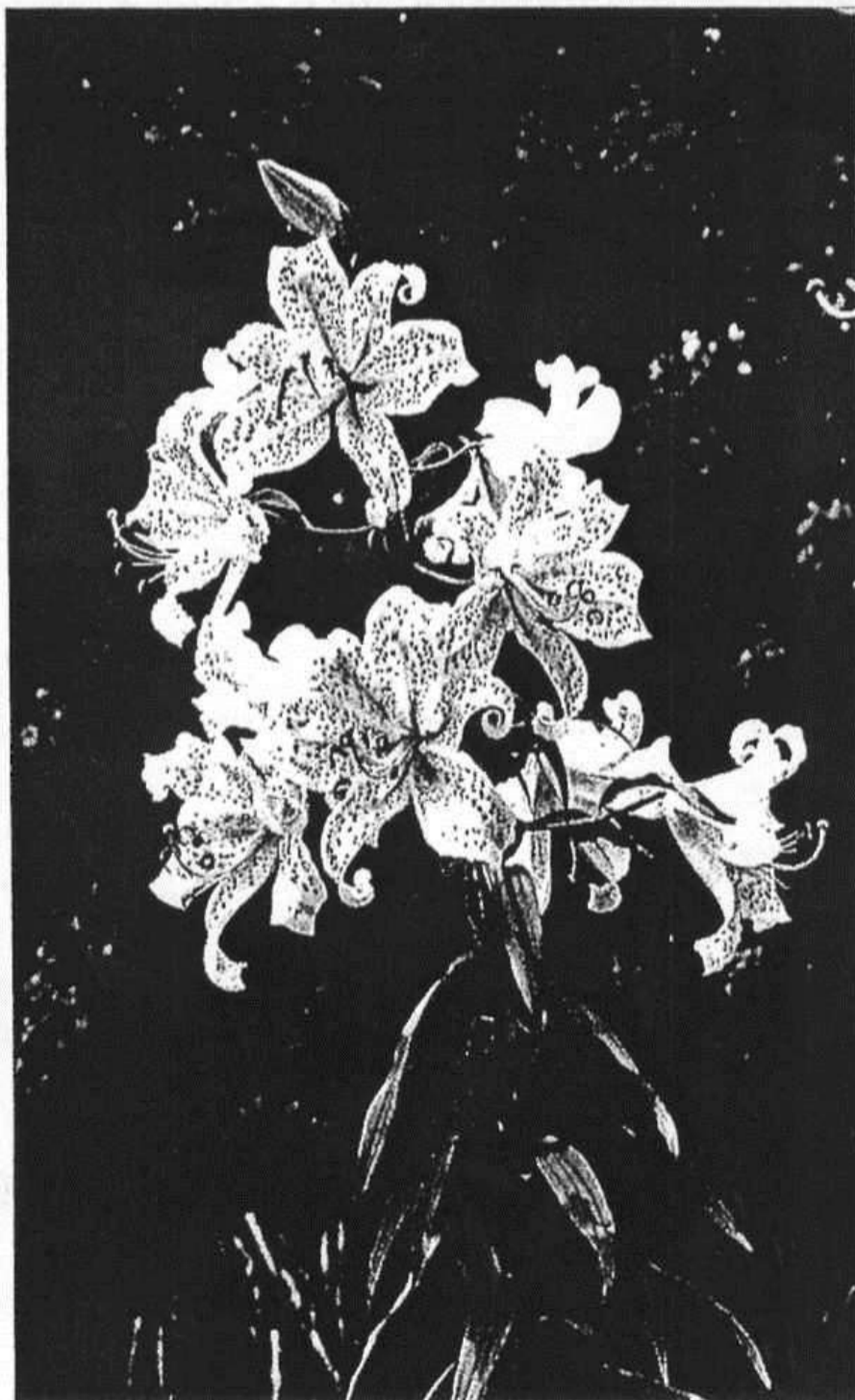


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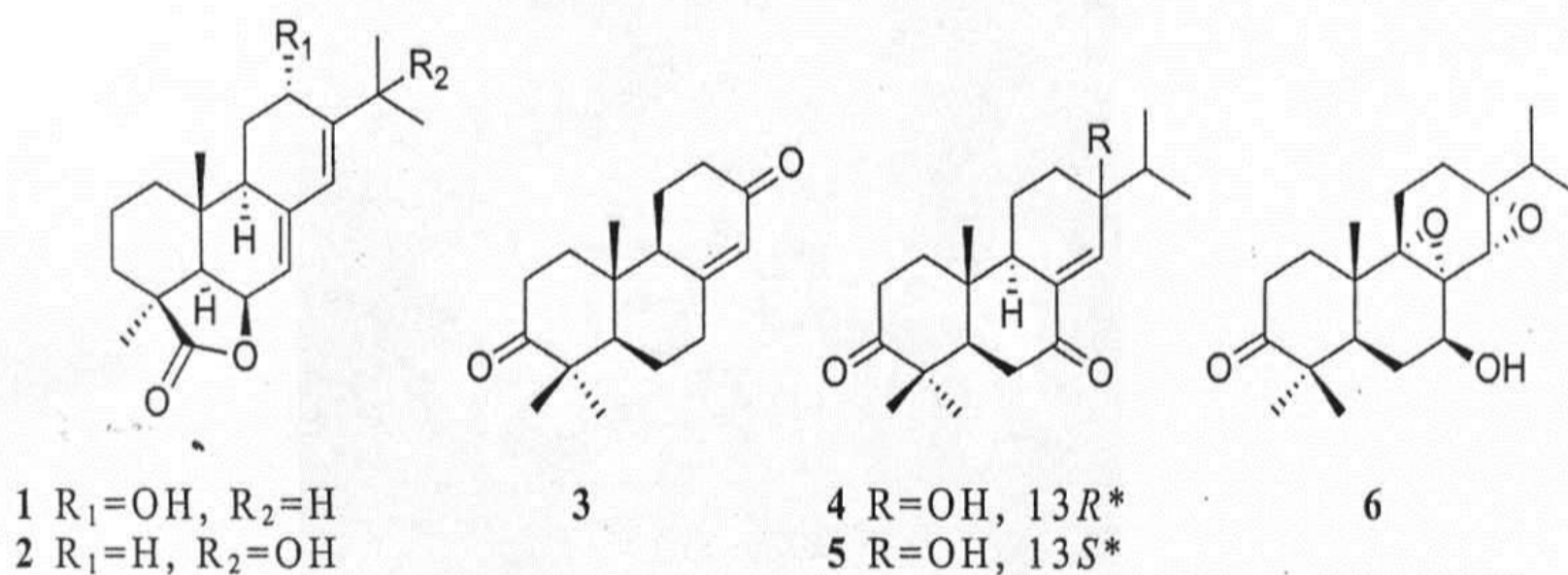
2B-2

New Diterpenoids from *Juniperus sabina*

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【Introduction】 In our research for structurally and biologically interesting natural products, six new diterpenoids, sabiperones A – F (1 – 6) were isolated from *J. sabina*. Their structures were elucidated on the basis of 2D NMR data. They showed in vitro cytotoxicity against three human cell lines.

【Results and discussion】 70 % C₂H₅OH extract of the aerial part of *J. sabina* was partitioned with *n*-hexane, CHCl₃, and *n*-BuOH. The *n*-hexane layer was separated using a silica gel column, a Sephadex LH-20 column, an ODS column, and preparative HPLC to afford six new diterpenoids sabiperones A – F (1 – 6). The structures of six new diterpenoids have been elucidated based on their ¹H- and ¹³C-NMR spectra together with ¹H-¹H COSY, HSQC and HMBC spectra.



【References】 1) Fang, J.-M.; Lee, C.-K.; Cheng, Y.-S. *Phytochemistry* 1993, 33, 1169-1172. 2) Jenis, J.; Nugroho, A.E.; Hirasawa, Y.; Konirhan, B.; and Morita, H. *Heterocycles*, 2011, in press.