

## **Cytotoxic Sesterterpenoids from Bornean Sponge *Spongia* sp.**

### **ABSTRACT**

Four scalarane sesterterpenoids, scalarolide acetate (1), scalarolide (2), 12-O-deacetyl-12-epi-19-O-methylscalarin (3) and methyl 18-hydroxy-19-norscalar-16-en-20-carboxylate (4) were isolated from the Bornean sponge *Spongia* sp. The distinction between 12 $\alpha$ -OAc and 12 $\beta$ -OAc, and 19-olide and 20-olide in sesterterpenes were revealed as well as previously not assigned relative configuration at 18-OH of 4 is reported herein for the first time. In addition, compounds 1-3 showed strong cytotoxic activities against adult T-cell leukemia (ATL), S1T cells. This is the first record of scalarane sesterterpenes from the Bornean sponge.