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FASCIOSPONGIDES A, B, AND C, NEW MANOALIDE DERIVATIVES FROM THE SPONGE *FASCIOSPONGIA* SP.

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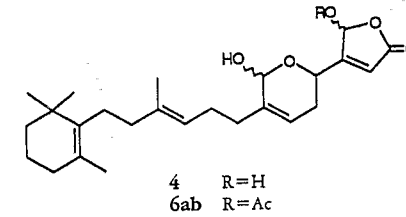
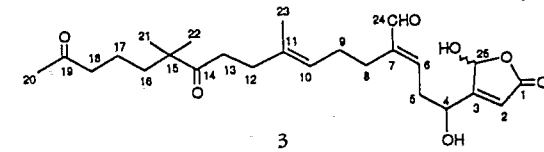
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ABSTRACT.—Three new manoalide-related sesterterpenes, fasciospongides A [1], B [2], and C [3], have been isolated from the sponge *Fasciospongia* sp. and their structures elucidated by spectral methods.

In the course of our search for biologically active compounds from New Caledonian marine organisms, we have isolated from the CH₂Cl₂ extract of the sponge *Fasciospongia* sp. (family Thorex-

from manoalide by de Silva and Scheuer (1), were also found in the sponge. One of these acetates has also been isolated from the sponge *Thorectandra excavatus* (5).



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TABLE I. ^{13}C - (62.5 MHz) and ^1H - (400 MHz) Nmr Data for Fasciospongides A [1], B [2] and C [3].^a

Position	1		2		3	
	δC	δH (J, Hz)	δC	δH (J, Hz)	δC	δH (J, Hz)
1	171.5		171.3		171.0	
2	117.6	6.08 ^b	117.3	6.06 ^b	118.7	6.12 ^b
3	168.2		167.8		170.3	

by HMQC helped identify two spin systems of two and three CH_2 units, respectively, with one CH_2 of each adjacent to a carbonyl group as deduced from the observed chemical shifts (δ_{H} 2.56, CH_2 -13 and 2.42, CH_2 -18). The HMBC spectrum (see arrows in the structure of 2)

ments Trio 2000; nmr, Bruker AC 250 (^1H - and ^{13}C -nmr spectra), AM 400 (2D spectra). Uv spectra were recorded in MeOH. Gc was performed using Si gel Merck H 60 and prep. hplc over a Waters Delta prep. 3000 apparatus.

ANIMAL MATERIAL.—The sponge *Fasciospongia* sp. (order Dictyoceratida; family Thorectidae) was collected at Récif de Beaupré, Ouvéa, New Caledonia, by the CNRS

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those recorded for *cis*-methyl groups in related compounds (5-7). The upfield shifts of the remaining two vinyl methyl groups, other than those of the isonro-

in the reference collection, Zoology Department, University of Auckland.

ISOLATION OF NATURAL PRODUCTS.—
Freeze-dried *Fasciobanania* sp. (27 2 a 1—)