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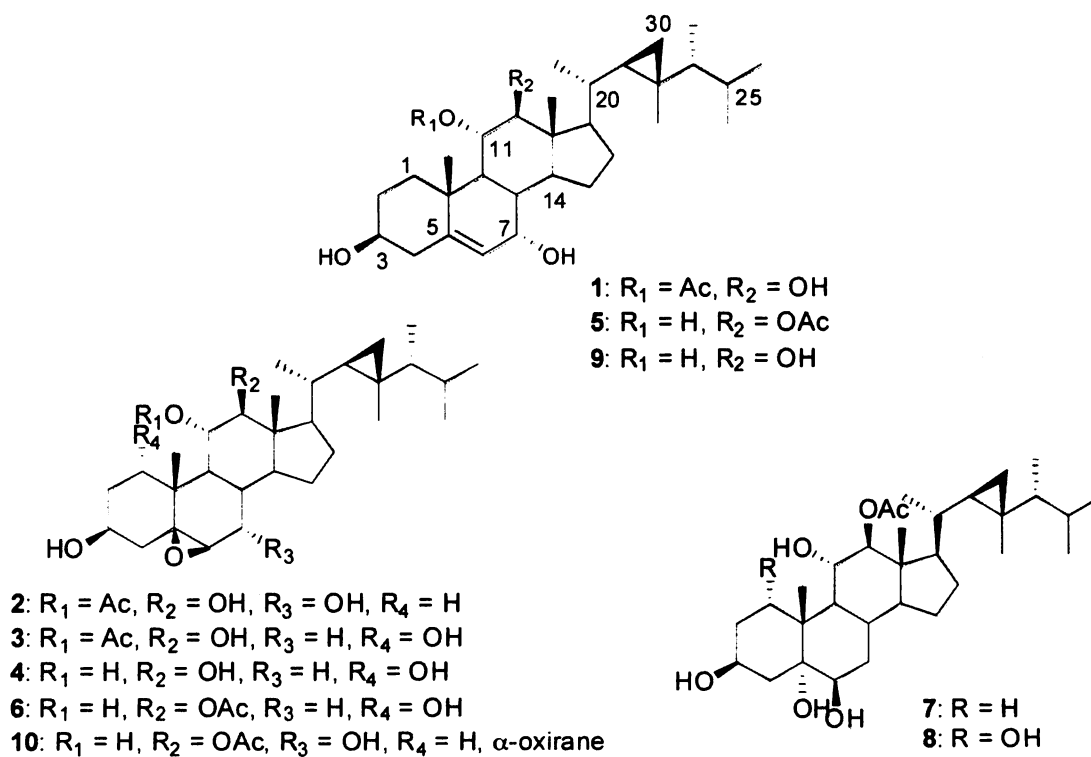
Polyoxygenated gorgosterols from the gorgonian Isis hippuris

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| メタデータ | 言語: 出版者: 琉球大学21世紀COEプログラム 公開日: 2009-04-16 キーワード (Ja): キーワード (En): 作成者: Uddin, Mohammad Helal, Tanaka, Junichi メールアドレス: 所属: |
| URL | http://hdl.handle.net/20.500.12000/9842 |

Mohammad Helal Uddin and Junichi Tanaka

University of the Ryukyus, Nishihara, Okinawa 903-0213, Japan

Marine organisms have proven to be rich sources of polyoxygenated sterols with a variety of biological activities. Among the organisms, the gorgonian *Isis hippuris* has been found to contain unique sterols: hippuristanols as cytotoxins and selective inhibitors against RNA helicase¹ and polyoxygenated gorgosterols as modulators of multidrug resistance.² In our continuous chemical investigation on the title gorgonian, we obtained four new gorgosterols (**1-4**) together with four known ones (**5-8**). In this poster we will present isolation, structure elucidation, and biological activity of the sterols:



1. Bordeleau, M.-E. et al. *Nat. Chem. Biol.* **2006**, 2, 213-220.

2. Tanaka, J. et al., *Tetrahedron* **2002**, 58, 6259-6266.