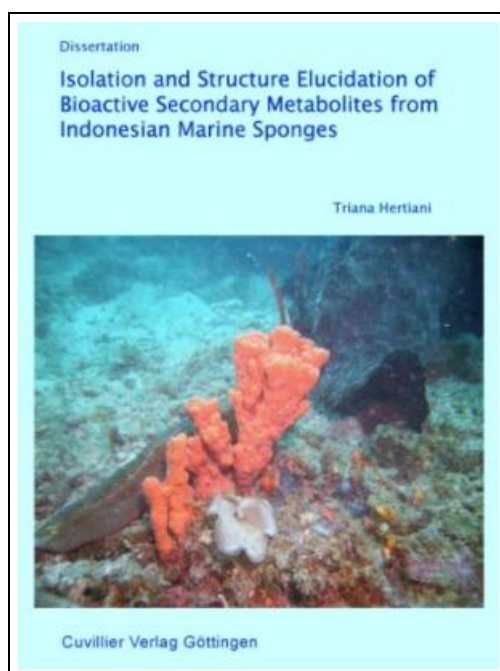


## Isolation and Structure Elucidation of Bioactive Secondary Metabolites from Indonesian Marine Sponges



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***(Lucinda Stiedemann)***

## ISOLATION AND STRUCTURE ELUCIDATION OF BIOACTIVE SECONDARY METABOLITES FROM INDONESIAN MARINE SPONGES

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Cuvillier Verlag Aug 2007, 2007. Taschenbuch. Condition: Neu. Neuware - A total of 35 compounds comprising diverse structural groups of compounds including both alkaloids and terpenes were isolated; fourteen of which are new derivatives. The structures of the new compounds were unambiguously established on the basis of NMR spectroscopic ( $^1\text{H}$ ,  $^{13}\text{C}$ , COSY,  $^1\text{H}$ -detected direct and long range  $^{13}\text{C}$ - $^1\text{H}$  correlations) and mass spectrometric (EI, and ESI) data. The identities of the known compounds were established by comparison with published data. Sponge samples originated from several collection sites in Indonesia. A combination of a chemically-and biologically driven approach for drug discovery was employed. Extracts were screened for antibacterial, antifungal, and cytotoxic activities as well as protein kinase inhibition parallel to the usage of TLC, and HPLC coupled to UV and MS in the isolation of the chemically most interesting substances. Enumerated below are the compounds which have been isolated and structurally elucidated and whose bioactivities have been further characterized. 1. Agelas n.sp. secondary metabolites Extract of the unidentified Agelas sponge from Peniki East Island (Seribu Islands), Jakarta, yielded sixteen structurally related brominated pyrroles, including eleven new congeners. Diverse structures of the brominated pyrroles are elucidated wherein several new functionalities are shown to be introduced in the molecule such as in agelanin A (2), agelanin B (3), and agelanesins (4 to 7). Pronounced cytotoxicity against mouse lymphoma cell (L5178Y) was shown by all agelanesins. The tyramine moiety must be responsible for the cytotoxic activity since other congeners without the tyramine unit displayed no cell-growth inhibition. Less degree of bromination on the pyrrole ring may also play a role in its cytotoxicity, considering that the monobrominated pyrrole-agelanesins, agelanesin A (4) and B (5) display lower IC<sub>50</sub> in comparison to their dibrominated congeners, agelanesin C (6) and D (7). The iodine substituent presumably is not important for...



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