

## Bastadins and Related Compounds from the Marine Sponges Ianthella basta and Callyspongia sp:



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*This is an amazing publication i actually have at any time go through. It is actually rally interesting throug reading throug period. Its been developed in an exceptionally straightforward way which is merely following i finished reading throug this publication where actually altered me, modify the way in my opinion.*

**(Noah Padberg)**

## BASTADINS AND RELATED COMPOUNDS FROM THE MARINE SPONGES IANTHELLA BASTA AND CALLYSPONGIA SP:



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Cuvillier Verlag Jun 2008, 2008. Taschenbuch. Condition: Neu. Neuware - Sponges are soft bodied and sessile animals, which lack spine and shell (Armstrong & Quigley 1999). For their defence against fouling organisms, predators, and neighbours competing for space, sponges rely on bioactive natural products instead (Proksch et al. 2002). In this project the marine sponge Ianthella basta Oken, 1815, belonging to the order Verongida Bergquist, 1978, was investigated. Species of the order Verongida are biochemically characterised by the production of brominated tyrosine derivatives. (Bergquist & Cook 2002) Several bastadins and a brominated phenyl acetic acid were isolated. One other sponge was investigated too, Callyspongia 'blue', which yielded a brominated diphenyl ether (compound 5). Bastadins are characteristic secondary metabolites of the sponge I. basta. They are tyrosine-derived, brominated, oxime-bearing macro bis-diaryl ether tetrapeptides, which can be either cyclic or linear. 36 bastadin and hemibastadin derivatives are known; additional to these one new congener named bastadin-24 was isolated during this work. The bastadins do not only inhibit barnacle larval settlement, thrombocyte aggregation, display cytotoxicity, inhibit bacterial growth as well as protein kinases, as described in this thesis, but do also show for example antagonistic effects on the ryanodin receptor and calcium channels in the endoplasmatic reticulum (Mack et al. 1994, Chen et al. 1999) In this project ten bastadins (bastadin-2, -3, -4, -6, -7, -9, -10, -11, -16, -24), one hemibastadin (hemibastadin-1), one phenyl acetic acid and one brominated diphenyl ether were isolated and elucidated. In addition to these three hemibastadin-1 congeners, were synthesized (L-tyrosine-tyramide, norbromohemibastadin-1 and 6,6'-dibromohemibastadin-1) for SAR studies. All compounds (isolated and synthesized) were tested in following assays: i) barnacle antifouling assay, ii) human thrombocyte aggregation, iii) cytotoxicity, iv) antibiotic activity, and v) inhibition of different protein kinases. Biofouling causes significant economical and environmental losses worldwide through reducing boat speeds and increasing fuel...



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