Composition of Lipophylic Extracts from Two Tunicates, *Styela* sp. and *Phallusia* sp. from the Eastern Mediterranean

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Sterols, Tunicates, Volatiles

Sterols, volatiles and lipids were isolated and identified from lipophylic extracts from two tunicates, *Styela* sp. and *Phallusia* sp., occurring in the Eastern Mediterranean. Seventeen sterols were identified. The sterol composition of the two organisms appeared to be similar except for the concentrations of 5α-stanols. Both tunicates were characterized by the presence of sterols with a (22*Z*)-double bond. In the volatiles significant amounts of chlorinated compounds were found (phenols in *Styela* sp. and hydrocarbons in *Phallusia* sp.). The fatty acid composition of triacylglycerols and phospholipids of the two tunicates showed significant differences.