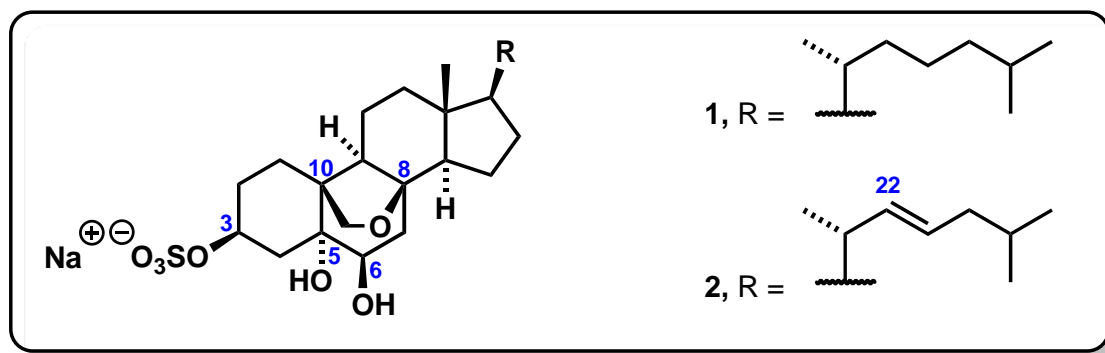


STUDIES TOWARDS THE SYNTHESIS OF EURYSTEROL A

Ö. Taşpınar, H.-G. Schmalz

Department of Chemistry, University of Cologne, Greinstraße 4, DE-50939 Cologne

Eurysterol A (1) and B (2) are cytotoxic and antifungal sulfated sterols from an undescribed sponge of the genus *Euryspongia* collected in Koror, the capital of Palau, in 2000. Both compounds were tested for their cytotoxic activities against human colon tumor cell lines (HTC-116) and for fungal inhibition against wild-type and amphotericin B-resistant strains of *Candida albicans*. Eurysterol A was the more active compound in both cytotoxicity and fungal inhibition assays with an IC_{50} value of 2.9 $\mu\text{g/mL}$ and MIC values of 15.6 $\mu\text{g/mL}$, respectively.^[1]



The combination of their interesting and useful bioactivity and structural uniqueness make Eurysterols worthy candidates for synthesis. Results of our investigations of different strategies towards these compounds will be disclosed.

[1] C. Boonlarpradab, D. J. Faulkner, *J. Nat. Prod.* **2007**, 70, 846–848.