Antibacterial and Cytotoxic Natural and Synthesized Hydroquinones from Sponge *Ircinia spinosula*  
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*Z. Naturforsch.* **54c**, 417–423 (1999); received January 29/March 9, 1999  

*Ircinia spinosula*, Polyprenylated Hydroquinone, Synthetic Derivative, Antitumoral Activity, Antibacterial Activity  
In order to check the structure-activity relationship and find more potent derivatives of the natural products 1 and 2 obtained from sponge *Ircinia spinosula*, a series of oxidation, hydrogenation, acetylation and methylation derivatives was prepared. All compounds (natural and synthetic ones) were screened for their cytotoxic and antibacterial activities. The biological studies showed a wide range of antibacterial activity even though only 2 and 2d showed a moderate cytotoxicity against the clone C98. The oxidation of the hydroquinone to quinone and the hydrogenation of the side-chain increased the antibacterial effect of the molecules.  

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