

Synthesis of New Derivatives of Aminosteroids as Antimicrobial Active Substances

Matthias Rost^a, Manuela Dubs^a, Angela Gobel^a, Ute Mollmann^b, Reimar Krieg^c, Bruno Schonecker^a

^a *Institut für Organische und Makromolekulare Chemie der Friedrich- Schiller- Universität Jena, Humboldtstr.10,*

D- 07743 Jena, Germany, E-mail: cht@pop3.uni-jena.de , Fax: ++49- 03641- 948212

^b *Hans-Knoll- Institut für Naturstoffforschung, Jena, Germany*

^c *Institut für Anatomie/ Anatomie II, Klinikum der Friedrich- Schiller- Universität Jena, Germany*

For stereochemical and biological investigations new derivatives of steroids with chelating properties were synthesized. The pathway of synthesis and analytical data are presented. Condensation of 3-, 16- and 17-aminosteroids with cinnamaldehyde, salicylic aldehyde, ferrocene carbaldehyde and α -pyridine carbaldehyde as well as Michael addition of α -vinylpyridine to the amines or amino alcohols gave the corresponding derivatives. Their biological data are presented.

Basic steroids:

