

COMPARISON OF THE IN VITRO ANTIMICROBIAL EFFICIENCY OF NATURAL COMPOUNDS WITH SUCH OF ANTIBIOTICS

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1) ReviewScience, 90513 Zirndorf, Fürther Str. 13, Germany 2) 81737 München, Alfred Neumann Anger 17/II

The efficiency of natural antimicrobials is compared to medicinally relevant antibiotics on the basis of therapeutic index calculations. These calculations respect toxicity data obtained following oral, intraperitoneal and dermal administration of the respective compounds as well as their *in vitro* inhibitory data obtained in serial or agar dilution tests towards infectious microorganisms. The data analysis is performed by use of a computer database (1), which stores information of over 4000 compounds collected from over 4000 references.

The relevance of therapeutic index calculations in the selection of promising antimicrobials will be outlined as well as *in vitro* structure-activity relationships resulting thereof.

Reference

1) AMICBASE-EssOil: Database on Natural Antimicrobials; ReviewScience, Germany 2000

Citation:

Pauli, A., Schilcher, H.: Comparison of the *in vitro* Antimicrobial Effectiveness of Natural Compounds with such of Antibiotics; 24th International Symposium on Natural Products Chemistry: "Current Trends in Natural Products", Mexico City, Mexico, Nov. 6 (2001)