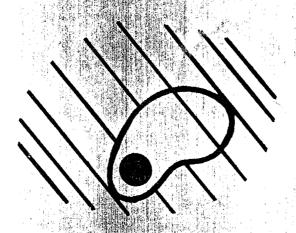
DRUŠTVO BIOFIZIČARA BOSNE I HERCEGOVINE JUGOSLOVENSKO DRUŠTVO ZA BIOFIZIKU BIOPHYSICITS' SOCIETY OF BOSNIA AND HERZEGOVINA YOGOSLAV SOCIETY FOR BIOPHYSICS

XIX JUGOSLOVENSKI SIMPOZIJUM IZ BIOFIZIKE I SATELITSKI SIMPOZIJUM "MEDICINSKA BIOAKUSTIKA" XIX YUGOSLAV SYMPOSIUM ON BIOPHYSICS and SATTELITE SYMPOSIUM "MEDICAL BIOACUSTICS"



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QSAR STUDIES IN ANTIMICROBIAL ACTIVITY OF N-SUBSTITUTED--2-METHYL-3-CARBETHOXY-5-PYRROLINONES AND THEIR C(4)-BEN-ZYLIDEN DERIVATIVES

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A number of topological indices (the Zagreb Group indices, the Randić connectivity index, the Platt's number, the Gordon-Scantleburry's index, the Wiener number, the Altenburg's polynomial, the Balaban's index, the mean square distance indices) have been used for QSAR studies in antimicrobial activity of N-substituted-2-methyl-3-carbethoxy-5-pyrrolinones and their C(4)-benzy-liden derivatives. The best correlation was found between topological indices of these compounds and their corresponding antibacterial activity on Escherichia coli and Pseudomonas aeruginosa.