

Antibacterial Potential from the Crude Extracts of Hemolymph and Hepatopancreas of *Portunus segnis* and *Grapsus albolineatus*

Authors : Mona Hajirasouli

Abstract : Abstract: introduction: Antimicrobial compounds are important in the first line of the host defense system of many animal species. Material and methods: In the present study antibacterial activity of crude and proteins precipitate of hemolymph and crude hepatopancreas extracts from *Portunus segnis* and *Grapsus albolineatus* against a range of 6 different bacterial strains evaluated. Amoxicillin as a positive control were also used. Results: Maximum activity (15.9 mm) was recorded in male haemolymph of *p.segnis* against *Entrobacter* and minimum activity (7 mm) was recorded against *Serratia marcescens*, *Enterobacter* sp. and *Proteus mirabilis* from different extracts of *Grapsus albolineatus*. Data were analyzed using independent-t in SPSS version 16, and results indicate that there were not any significant differences between hemolymph and hepatopancreas extracts of 2 species. Discussion: Antimicrobial activity has been reported earlier in the hemolymph of some brachyuran crabs such as: blue crab *Callinectes sapidus*, mud crab *Scylla serrata*, *Ocypode macrocera* and *Carcinus maenas*. This study shows that hemolymph and hepatopancreas of *Portunus segnis* and *Grapsus albolineatus* may potential antibiotics.

Keywords : brachyuran, *Portunus segnis*, *Grapsus albolineatus*, hemolymph, hepatopancreas, antibacterial

Conference Title : ICPSP 2017 : International Conference on Pharmaceutical Sciences and Pharmacology

Conference Location : Paris, France

Conference Dates : January 23-24, 2017