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## ENZYMOMOLOGY AND MOLECULAR BIOLOGY

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**Antimicrobial activities of seed extracts of *Prunus persica*, *Prunus cerasus*, *Prunus avium* and *Prunus armeniaca*****Tuba Sevgi and Elif Demirkan**  
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Fruits contain phenolic additives which may show more or less antimicrobial effects. Depending on their antioxidant properties phenolic substances, which have effect mostly on color, flavor and durability of fruits and vegetables, are closely related with human health in terms of antimicrobial, anti-carcinogenic and anti-mutagenic activities. In the long term, bacterial resistance against antimicrobial agents may cause problems in fighting against several diseases. Therefore investigation of novel antimicrobial agents derived from new and natural sources have become important. In this study, seeds of some fruits (*Prunus persica*, *Prunus cerasus*, *Prunus avium* and *Prunus armeniaca*) were investigated against some clinically substantial pathogenic bacteria (*Salmonella typhimurium* ATCC 14028, *Klebsiella pneumoniae* ATCC 700603, *E. coli* ATCC 25922, *E. coli* ATCC 35218, *Staphylococcus aureus* ATCC 25923, *Yersinia enterocolitica* ATCC 9610 ve *Enterococcus faecalis* ATCC 29212) by using well diffusion method. For this purpose, seeds from fruits were crushed into small pieces and, were extracted by Soxhlet using methanol as solvent. After incubation, the highest zone diameter (15 mm) was obtained against *E. faecalis* in the sample of *P. cerasus* seed, and also against *S. aureus* in the sample of *P. armeniaca* seed (14 mm). Hence, this shows that the products can be potential new antimicrobial agents pharmacologically.

**Biography**

Tuba Sevgi has completed her MSc from Technical University of Kaiserslautern in Molecular Biotechnology and Systems Biology, Germany. Currently, she is doing her PhD in the Department of Biology, Faculty of Arts and Sciences, Uludag University. She is a Research Assistant in the Department of Biology, Faculty of Arts and Sciences, Uludag University.

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