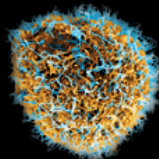




۶ تا ۱۱ شهریور ۱۴۰۰



بیست و دومین کنگره بین المللی
میکروب شناسی ایران (مجازی)

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چاپ مقاله

Title: Prediction of potential drug targets and vaccine candidates against antibiotic-resistant *Pseudomonas aeruginosa*

Presentation Type: Oral

Subject: بیوتکنولوژی میکروبی

Others:

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Abstract Original Research

Background and Aim : *Pseudomonas aeruginosa* is one of the leading causes of nosocomial infections, characterized with increasing antibiotic resistance, severity and mortality. Therefore, numerous efforts have been made nowadays to identify new therapeutic targets. The aim of this study was to find novel and common bacterial targets in drug resistant strains of *Pseudomonas aeruginosa*.

Methods: Extensive antibiotic resistant and carbapenem-resistant strains of *Pseudomonas aeruginosa* with complete genome were selected and ten common hypothetical proteins (HPs) containing more than 200 amino acids were obtained. The structural, functional and immunological predictions of these HPs were performed with the utility of bioinformatics approaches.

Results: Two common HPs (Gene ID: 2877781645 and 2877781936) among other investigated proteins were revealed as potential candidates for pharmaceutical and vaccine purposes based on structural and physicochemical properties, functional domains, subcellular localizations, peptide signals, toxicity, virulence factor, antigenicity, allergenicity and immunoinformatic predictions.

Conclusion: The consequent of this predictive study will assist in novel drug and vaccine design through experimental investigations.

Keywords: *Pseudomonas aeruginosa*, hypothetical proteins, drug resistance



فراخوان
مقاله

مهلت ارسال تا

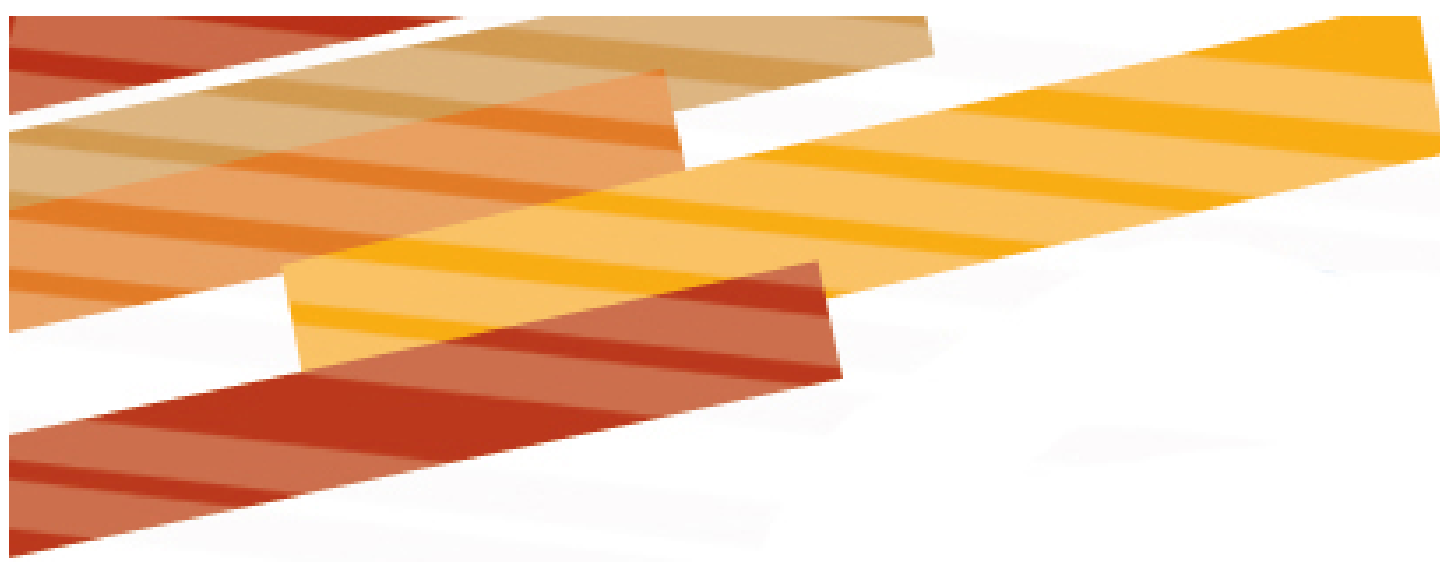


کد اختصاصی:

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