

عنوان مقاله:

FIRST REPORT OF MICROCYSTIN PRODUCING BY TWO TERRESTRIAL CYANOBACTERIA OF THE GENERA FISCHERELLA SP. F29 AND NOSTOC SP. N27 FROM IRAN

محل انتشار:

نوزدهمین کنگره بین المللی میکروب شناسی ایران (سال: 1397)

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خلاصه مقاله:

Background and Aim: Cyanobacteria produce an unparalleled variety of toxins that can cause severe health problems or even death in humans and wild or domestic animals. The most frequently reported cyanobacterial toxin is hepatotoxin microcystin. Microcystin is predominantly produced by different genera of freshwater cyanobacteria, including *Microcystis*, *Planktothrix* and *Anabaena*, although it has also been detected in terrestrial strains of the genera. **Methods:** As there have been no reports of toxicity from terrestrial cyanobacteria of Iran, we decided to conduct a preliminary study of the molecular toxicology in order to identify the possible toxic cyanobacteria strains. In this study, we detected the presence of *mcyG* in twenty five cyanobacteria strains collected from fifty different agricultural areas in Kermanshah province by means of PCR. **Results:** The results of molecular toxicology and phylogenetic analysis the genes responsible for the production of secondary metabolites showed the occurrence of .only two microcystin producers. **Conclusion:** This is the first report of cyanotoxin-producing strain in Iran

کلمات کلیدی:

Cyanobacteria microcystin molecular toxicology

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