DIPARTIMENTO DI CHIMICA, BIOLOGIA E BIOTECNOLOGIE

UNIVERSITÀ DEGLI STUDI DI PERUGIA

SEMINAR

Prof. Ahmed M. Abdel-Azeem

Suez Canal University, Ismailia – Egypt

Endophyte bioprospecting for antimicrobial metabolites

Endophytic fungi are symbiotically associated biota of living plant tissues that induce symptomless disease to their hosts and are non-host specific. Over last decade, scientists have focused their investigations on bioprospecting naturally occurring chemical compounds and biological material, especially in extreme diverse environments. Medicinal plants and microbiota are the most consistent and generative sources of 'first-in-class' drugs. Recently, remarkable pharmacological agents have been generated from endophytic fungi. More than 50% of previously unknown biologically active substances have been isolated from endophytes. Endophytes have been the source of a number of bio-pharmacological compounds including those with antimicrobial, antitumor, anti-inflammatory, and antiviral activities. In Egypt, endophytic fungi from aquatic, halophilic, medicinal plants, and marine resources have been studied by various investigators.

On Monday 16th May 2022

3:00 pm - Room A1.1

Department of Chemistry, Biology and Biotechnology – Via del Giochetto 6, building A, first floor

DIPARTIMENTO di ECCELLENZA 2018 2022

AMIS project