OP297 Fungal Biodiversity of Strawberry Fields in Aydın, TURKEY

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Aim of the study: Strawberry is a kind of delicious and aromatic fruit which can be consumed as fresh and also is suitable for industry. However, strawberry is exposed to many fungal diseases. The aim of this study is to determine the fungi that infect strawberries in the field.

Material and Methods: Three hundered forty seven strains were obtained from the sick plants which are collected from five different areas in April 2015. Different fungal strains were isolated on RBA and PDA. After incubation period morphological identification of species was realized. For molecular identification, ITS-PCR was used. DNA isolation was made according to Hillis and Moritz (1990). ITS-PCR was carried out with universal ITS primers. PCR products were sent to sequencing and sequence results were aligned using BLAST software.

Results: From these 347 samples 11 morfologically different kinds were identified according to morphological and molecular methods. These species were *Rhizopus oryzae*, *Alternaria alternata*, *Fusarium* sp, *Aspergillus niger*, *Trichoderma atroviride*, *Cladosporium cladosporioides*, *Talaromyces* sp, *Lichtheimia corymbifera*, *Syncephalastrum monosporum*, *Syncephalastrum* sp *and Bortytis cinerea*.

Acknowledgements: This study was realized in Adnan Menderes University Biology Department, Microbiology laboratory and financially supported by Adnan Menderes University Scientific Research Projects Department (Project No:FEF-14019.). Also we want to thank Assoc.Prof.Dr. Can YILMAZ for his technical help.

Keywords: Fungal Biodiversity, Strawberry, ITS-PCR, Aydın, Turkey.