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## The Isolation and Identification of Rose Dieback causal agents and the Isolation and study of Inhibition effect of Rose Endophytes as opposed to these causal pathogens in in-vitro condition

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## **Abstract**

management of this disease seems necessary. Common endophytes. methods of managing this disease are both non-chemical Biography repeated spraying, pollution will be minimized and costs will Roses in several greenhouses over the last several years). be significantly reduced. To do this, after isolating and

identifying the pathogens and proving their pathogenicity using For a long time, roses have been the most popular cut flower Koch principles, also Isolation and study of Inhibition effect of in the world. Numerous diseases have been seen in these Rose Endophytes as opposed to these causal agents in in-vitro plants, the most important of which is Dieback. Some condition using the dual culture method, The endophytes that greenhouses are infected with this disease to a great extent form the Inhibition effect are isolated and identified as biological and the economic damage is very high. Studies on this control agents. Due to the non-applicability of chemical disease have been very limited and the study and methods, we should try to greatly reduce the possibility of identification of these pathogens as a first step in the developing this disease by soaking rose cuttings with

and chemical, but these methods are not very effective. One Parvin Zare has completed her BS.c at the age of 23 years of the strategies for managing diseases is to biologically from Urmia University and MS.c studies from Shiraz University control them using antagonist microorganisms. The at the age of 27 years. She is an experienced Technical interaction between plants and microorganism helps plants Assistant with a demonstrated history of working in the Plant to be in the process of ecosystem recovery. These protection clinic. Skilled in RNA-Seq and transcriptome data interactions can increase the plant's ability to utilize soil analysis, DNA extraction, Determining the quantity and quality nutrients by increasing root development, nitrate uptake, and of DNA using Nanodrop device, Gene Expression, DNA inhibition of soil pathogens. Many endophytes have inhibitory Electrophoresis, Tissue Culture, Cell Culture, Real-Time properties against pathogens such as fungi and bacteria. Polymerase Chain Reaction (qPCR), Polymerase Chain, Endophytes seem to be promising alternatives to fertilizers Reaction (PCR), Biotechnology, Microscopy, RNAseq. Direct a and chemical pesticides in an organic and sustainable research program of managing plant diseases in cut flower farming system. In this case, there will be no need for production (Studied fresh-cut flower production, specially cut