

**Project Title** : The Studies on The Detection and Control of Fungal Diseases of Leafy Vegetables in İzmir Province

**Start Date** : 2013

**Supporting Body** : GDAR

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**Summary** : Vegetables, sources of macro and micronutrients such as carbohydrate, fat, protein, vitamin and minerals are important for human nutrition. Combating the diseases which cause significant economic losses to vegetable production, particular importance must given to plant protection. The aim of this project is to detect and control the fungal diseases that mainly damage the production of spinach, parsley, dill, arugula and cress. In terms of total production area (64 608 da) and total production amount (74 007 tonnes) İzmir province is the largest cultivator of these leafy vegetables in Aegean region. This study, performed for the first time in Aegean region, will reveal the incidence and prevalence of fungal diseases of mentioned leafy vegetables. Survey studies will be carried out in İzmir province (Menemen, Foça, Torbalı and Ödemiş) in 2013. Identification of the fungal pathogens and creation of appropriate disease control programs of economically important fungal diseases will be conducted. Since there is no licensed preparation against the fungal diseases of these vegetables in Turkey, during field trials in 2014-2015 priority will be given to biological fungicides, which are proved to be effective in foreign countries. This project will show the extent of fungal diseases of mentioned leafy vegetables. Studies, that will be performed to develop suitable control measures for the fungal diseases which are found to be significant, will prevent unconscious spraying.