## **OP293**

## Detection of Bean common mosaic virus in Bean (Phaseolus vulgaris) seeds growing in Antalya Province, Turkey

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**Aim of the study:** In this study, detection of *Bean common mosaic virus* (BCMV) in bean seeds which is important for fresh consumption and seedling was investigated. 59 seed samples were collected from producers in Antalya province for the investigation.

**Material and Methods**: Bean common mosaic virus (BCMV) was identified by applying Double Antibody Sandwich Enzyme Linked Immunosorbent Assay (DAS-ELISA) and Immunocapture Reverse Transcriptase-Polymerase Chain Reaction (IC-RT-PCR).

**Results:** As a result of the study, BCMV was detected in a total of 51 seed samples. Some of the seed samples which were positive in DAS-ELISA tests were used for IC-RT-PCR for the identification of BCMV. In IC-RT-PCR method, approximately 850 bp of the coat protein gene was amplified with specific primers and BCMV specific bands were obtained at the expected levels.

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**Keywords:** Bean, seeds, BCMV, DAS-ELISA, IC-RT-PCR.