

## عنوان مقاله:

In vitro Investigation on Biocontrol of *Xanthomonas axonopodis* pv. *citri* Cause of Citrus Bacterial Canker by Citrus Antagonistic Bacteria

## محل انتشار:

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## خلاصه مقاله:

Citrus Bacterial Canker disease caused by *Xanthomonas axonopodis* pv. *citri* is one of the most important diseases of citrus in south of Iran. In this research, the samples of bacterial flora of citrus leaves were collected from various citrus growing areas of Hormozgan, Jiroft and Mazandaran. The epiphytic bacteria were isolated from those leaves during 2000 and 2001 years. From 453 isolates, 26 strains inhibited growth of *Xanthomonas axonopodis* pv. *citri* under in vitro conditions. The bacterial strains were analyzed based on physiological and biochemical characteristics such as fluorescent pigment production on king B media, oxidase and catalase reaction, gelatin, casein and tween 80 hydrolysis, levan production and utilization of hydrocarbon sources. Based on the these characteristics they were grouped on five classes including *Pseudomonas fluorescens* I, *P. fluorescens* V, *P. viridiflava* and *P. syringae*. The last group was aerobic and gram positive bacteria that produced spore and identified as *Bacillus* spp.

## کلمات کلیدی:

Citrus bacterial canker, *Xanthomonas axonopodis* pv. *citri*, Biological control, Epiphytic bacteria, Antagonist

## لینک ثابت مقاله در پایگاه سیویلیکا:

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