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# Spray inoculation of peach trees or leaves with the plant pathogen *Xanthomonas arboricola* pv. *pruni*.

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Daniela Negrete-Moreno<sup>1</sup>, Annabel Miller<sup>1</sup>, Elizabeth Cieniewicz<sup>1</sup>

<sup>1</sup>Clemson University



Daniela Negrete-Moreno

Clemson University

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**Protocol status:** Working

**We use this protocol and it's working**

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**Keywords:** Spray-inoculations, Xap, detached leaf assays, and potted tree assays

## Abstract

### Description:

Potted tree experiments and detached leaf assays are used for many purposes, including:

1. observing the effects of a single pathogen on a host cultivar,
2. observing the effects of multiple pathogen interactions on a host cultivar
3. comparing the defense responses and tolerance of different cultivars to pathogen attack.

### Abstract:

South Carolina is the leading peach-producing state in the southeastern United States, where multiple pests and pathogens regularly threaten orchards. Here, we describe a methodology for controlled inoculations of potted peach trees or detached peach leaves with the bacterium *Xanthomonas arboricola* pv. *pruni* (*Xap*). This protocol is used primarily to study interactions between *Xap* and viruses in peach. To further understand the effects of a bacterial-viral co-infection, detached leaf assays serve as a controlled representation of what happens in the field. Hence, we report developing a *Xap*-specific spray inoculation method that inoculates a medium directly from bacterial colonies.

## Attachments



Bacterial Spot Inocu...

2.9MB



1

2

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