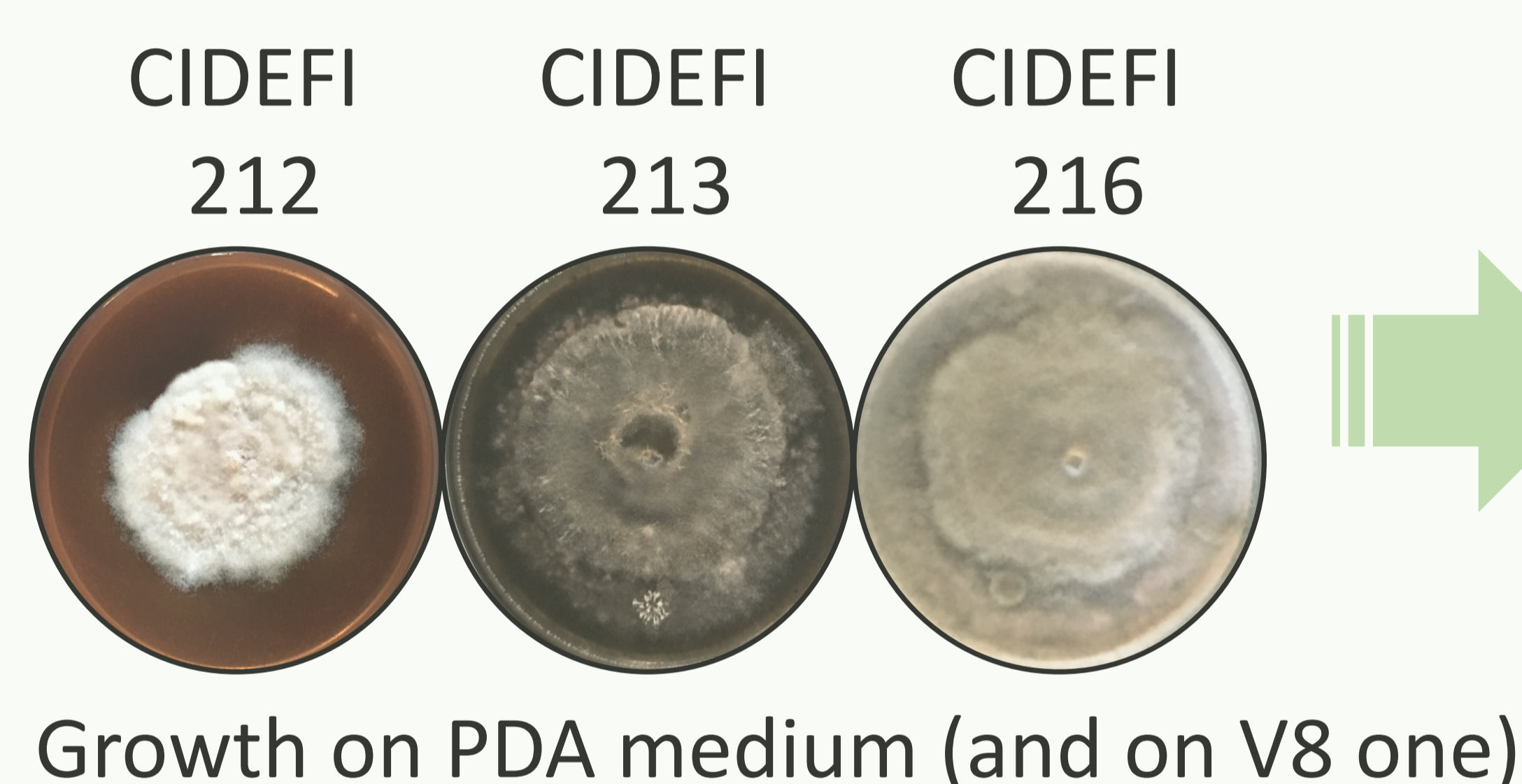


INTRODUCTION

Stemphylium lycopersici (Pleosporales) is one of the causal agents of gray leaf spot in tomato, a disease that provokes severe yield reductions and economic losses in Argentina and worldwide [1]. Low molecular weight secondary metabolites (SMs) secretion could contribute to virulence or pathogenicity of the fungus [2]. Based on its draft genome sequence [3] several SMs gene clusters were predicted within the genome of CIDEFI 216, a *S. lycopersici* isolate [4]. The aim of this work was to study the SMs array in isolates of *S. lycopersici* that differ in their virulence and ability to sporulate.

MATERIALS AND METHODS

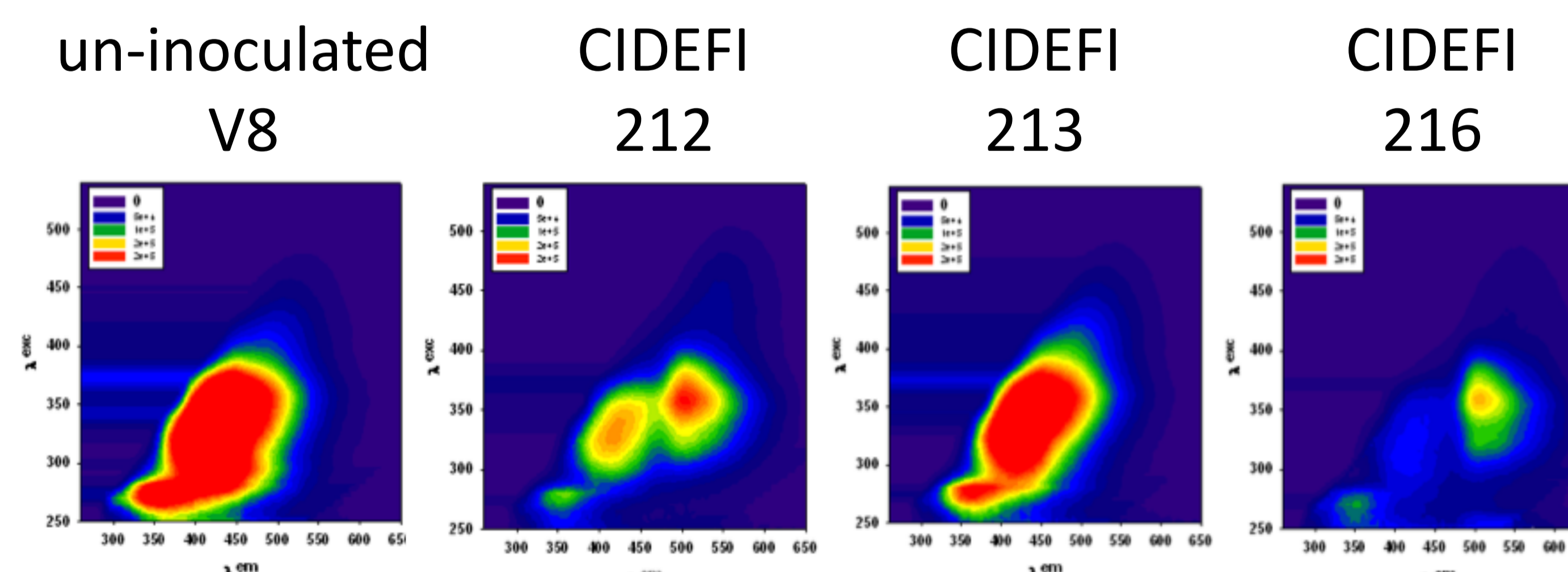
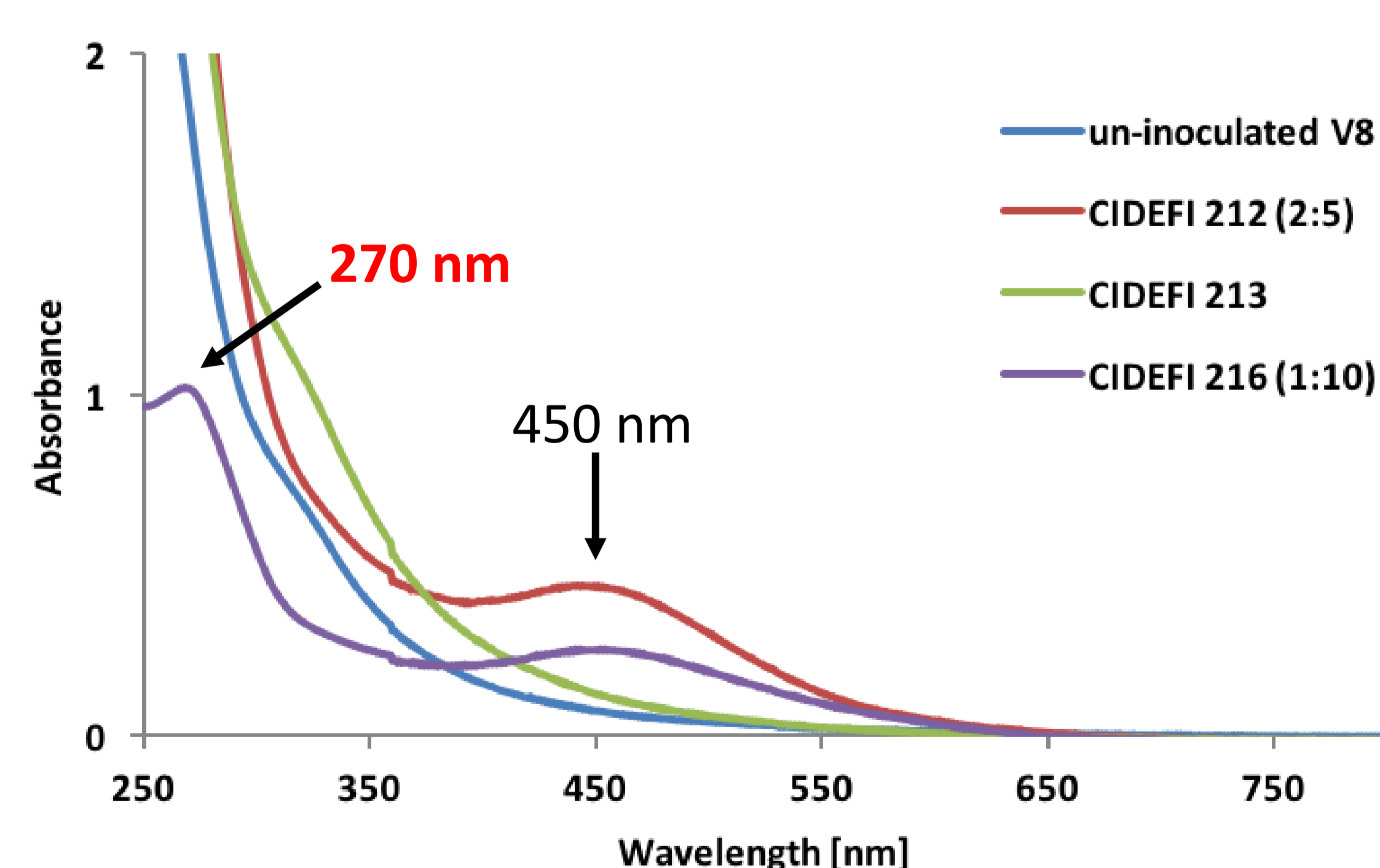
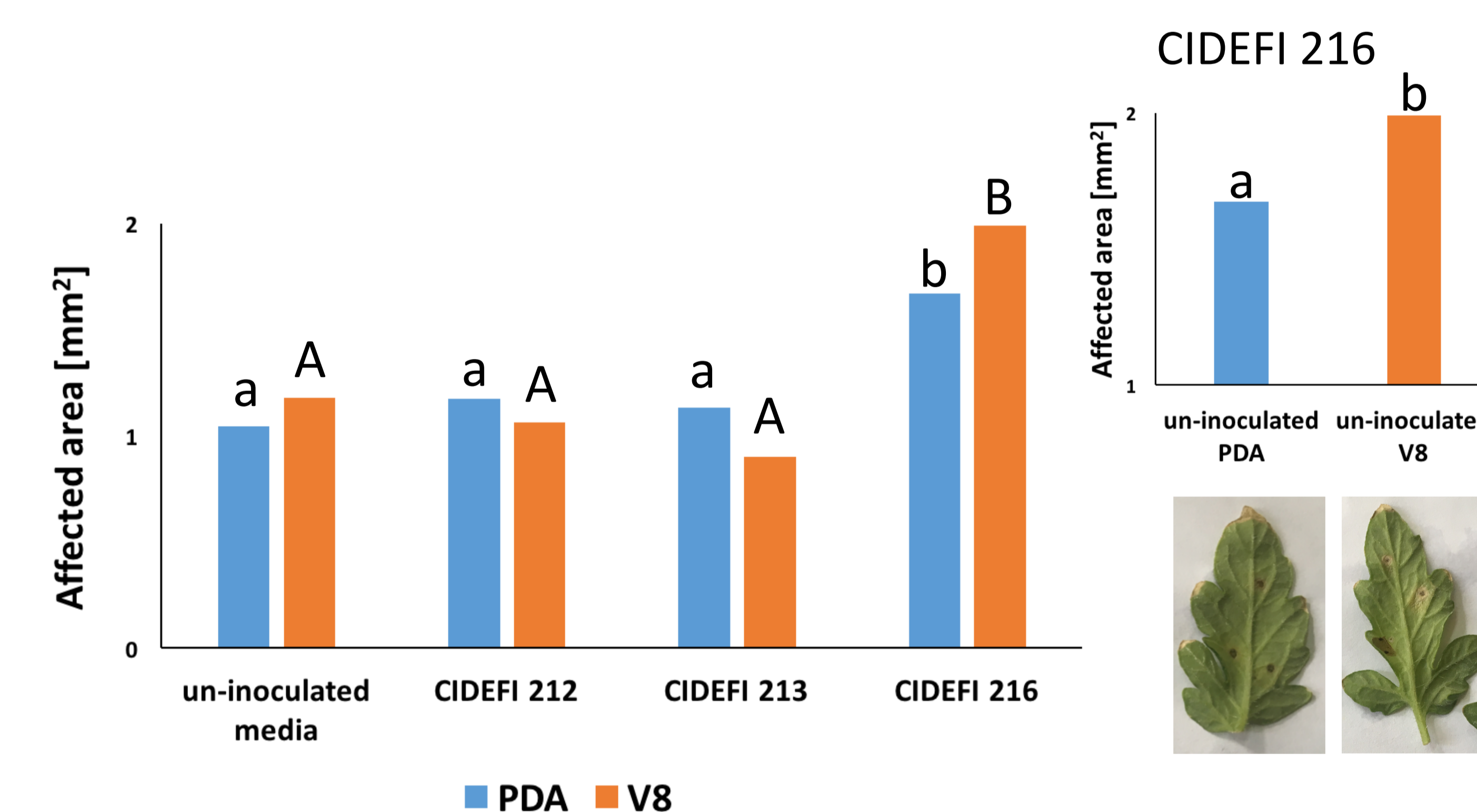
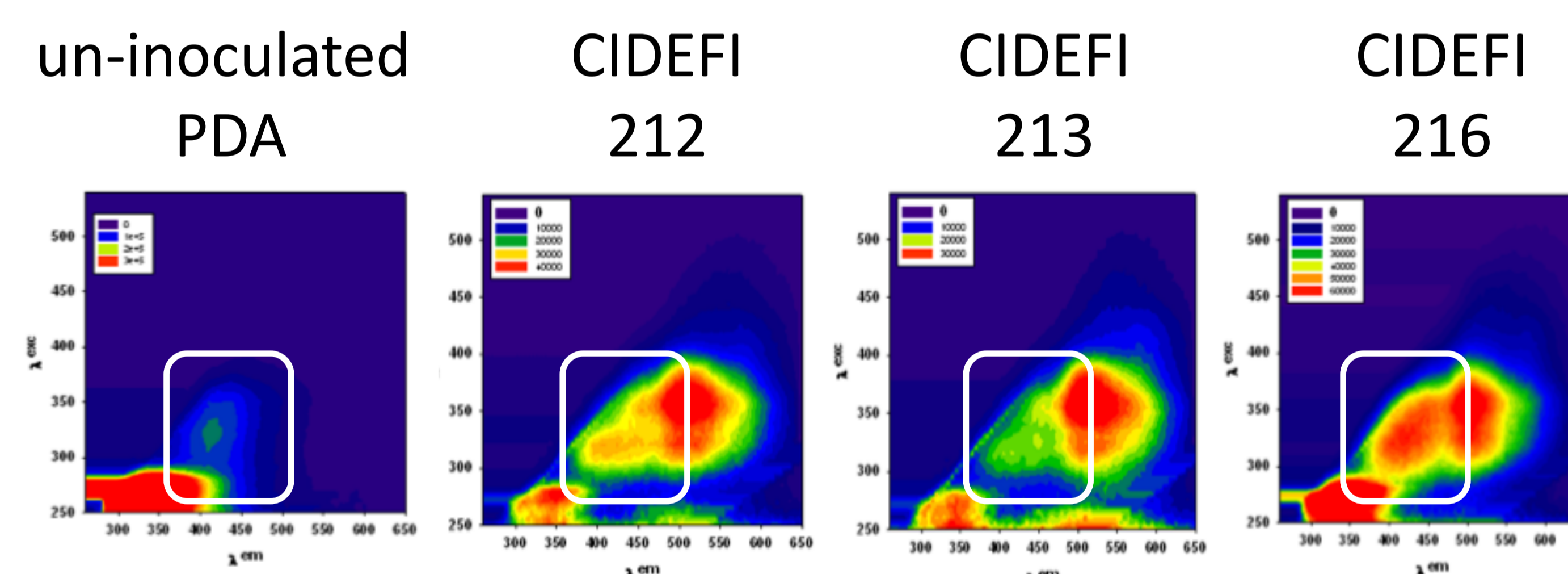
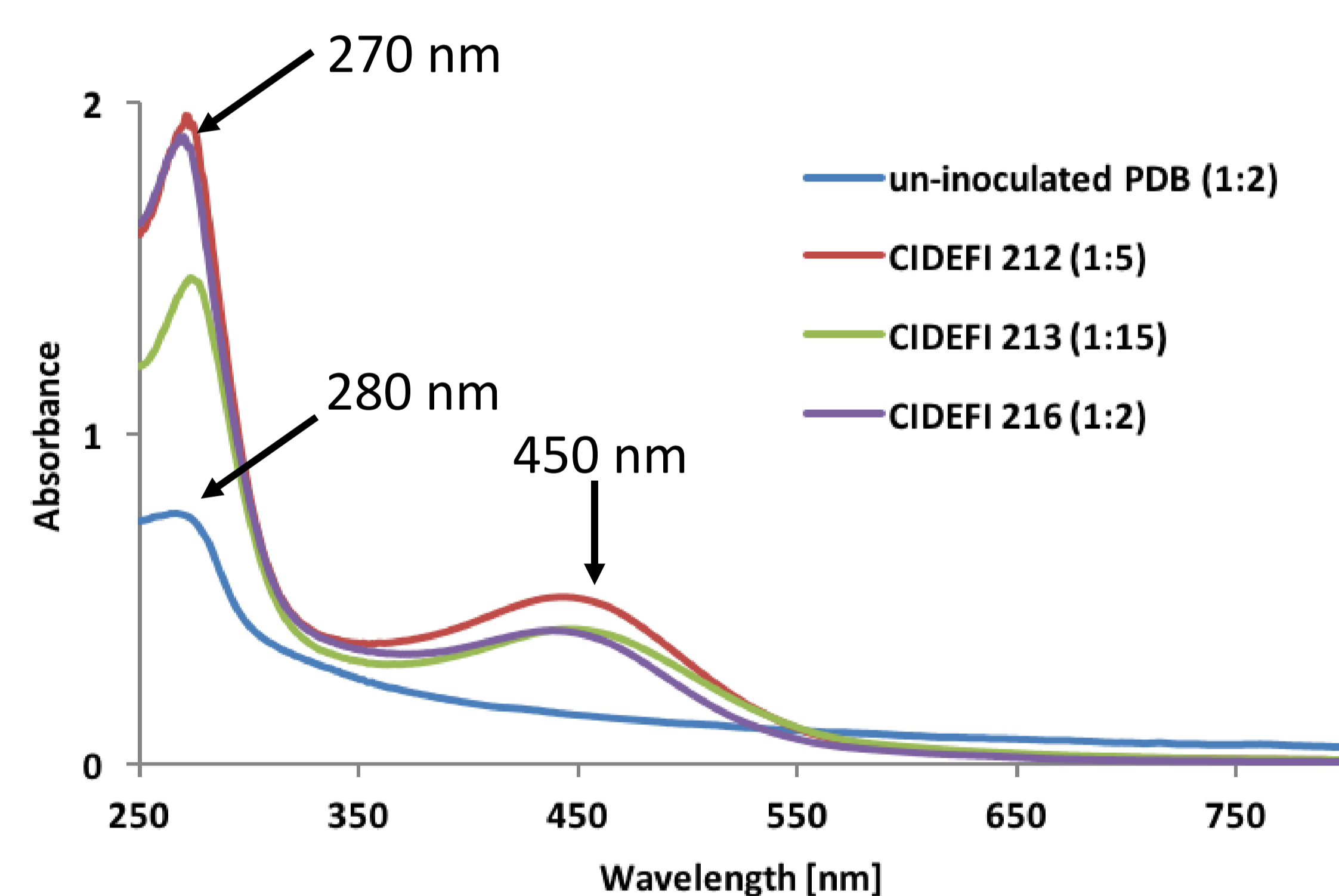


Lyophilization.
300 mg of lyophilized
+
15 ml of sterile water

SMs Extraction [5]
3 hours by sonication
(1000W, 40 kHz).
+
Filtration through
membranes (0.45 µm).

Phytotoxicity:
Detached leaf assay [1, 6].
Analysis of variance (ANOVA) after Fisher test, $p < 0.05$.
Photochemical analysis [7]:
UV-Vis absorption spectra.
Fluorescence-excitation-emission matrices (FEEM).

RESULTS



CONCLUSIONS

- CIDEFI 216 when grown on V8 medium presented a distinctive absorption spectra.
- Fluorescence emission was a function of the fungal isolate and the culture medium.
- Extracts from CIDEFI 216 grown on PDA presented the highest fluorescence emission spectra (400-450 em / 300-360 exc).
- Extracts from CIDEFI 216 provoked lesions on tomato leaflets, and this effect depends on media where the fungus was grown.