

Project title: Management of Powdery Mildew in Greenhouse and High Tunnel Tomatoes by Using Ultraviolet C Light



Fig. 1. UV-C cart assembled for this project with parts procured from multiple suppliers.



Fig. 2. Optimization of UV-C exposure time that can effectively suppress powdery mildew with minimum phytotoxic effect; A) One minute exposure time that was found to cause severe phytotoxicity; B) 45 second exposure time that caused moderate phytotoxicity; C) 20 seconds exposure time that caused minor phytotoxicity but effectively controlled powdery mildew.

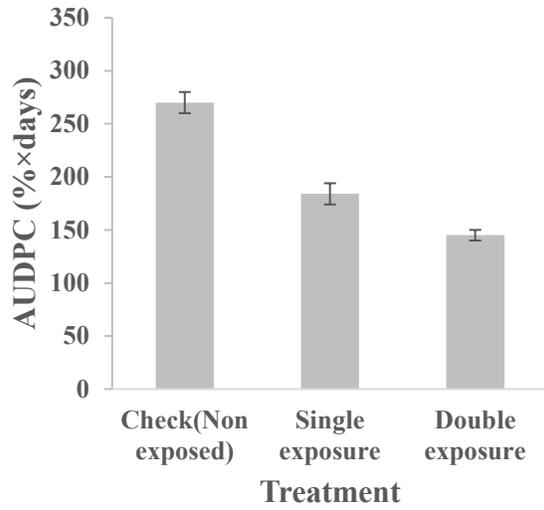


Fig. 3. Area under powdery mildew disease progress curve at two UV-C exposure regimes compared to non-exposure. Vertical bars with different letters are significantly different according to Tukey's HSD test (P=0.05).

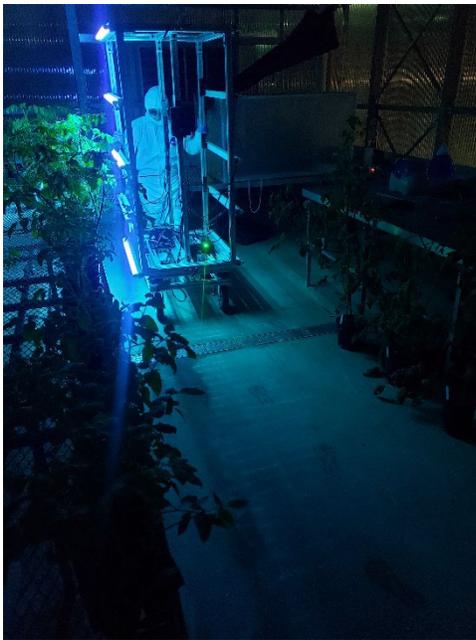


Fig. 4. Manual movement of UV-C cart in the greenhouse by project personnel.