

## 2025 RESEARCH - PROJECT LIST

CTRI GROWER FUNDED RESEARCH: 2025			
2025 TOTAL AFTER FINAL BOARD DECISIONS & COST SHARING: \$757,178			
Broomrape Containment, Control and Management		Research Lead	Institution
2020 Start	Broomrape: Devt. of Long Term Mgmt. Options: CA Commercial Field Conditions & Contained Research Facility Ongoing Work	Brad Hanson	UC Davis
2021 Start	Developing best equipment sanitation practices for broomrape and other high-profile soil borne pathogens; to mitigate field-to-field spread* - CLFP Co-Funding	Cassandra Swett	UC Davis
2022 Start	Determining the population structure of <i>Phelipanche ramosa</i> and <i>Orobanche aegyptiaca</i> field detections in California	Adam Schneider	UW-LaCrosse
2022 Start	Developing Tomato Lines Resistant to Branched Broomrape, a Critical California Pest	Neelima Sinha	UC Davis
2022 Start	Inducible Suberin for Tomato Drought Tolerance (root architecture)	Siobhan Brady	UC Davis
2023 Start	Training and Refinement of Broomrape Detection Model using Satellite Imagery	Alireza Pourezza	UC Davis
2025 Start	Targeting Strigolactone Receptors in Branched Broomrape ( <i>Phelipanche ramosa</i> )	Marco Burger	Salk Institute
2025 Start	Broomrape resistant, climate resilient tomato rootstocks for grafted processing tomatoes	Ryan Lefers	iyris
2025 Start	AgCeption In-Field Broomrape Detection System Development* - CDFA Broomrape Board Co-Funding	Chris Laudando	L&A
Agronomic/Water/Nutrient Management			
2025 Start	Exploring causal factors for the yield gap between “new” and “old” tomato fields	Patricia Lazicki	UC Extension
Germplasm and Variety Development			
1991 Start	C. M. Rick Tomato Genetic Resource Center	Roger Chetelat	UC Davis
2024 Start	Leveraging germplasm resources for genetic discovery and deployment of salt stress resilience	Greg Vogel	Cornell
2025 Start	Engineering broad and durable disease resistance: Genome Editing to modulate susceptibility genes against Fusarium wilt in tomato.	Daniel Rodriguez-Leal	University of Maryland
2025 Start	Marker-trait association study to develop DNA markers for RB-TSWV resistance in tomatoes	Reza Shekasteband	NCSU
Insect & Invertebrate Management			
2025 Start	Evaluation of management programs for Conspense stink bug management	Tom Turini	UC Extension
Pathogen Management			
2017 Start	Disease diagnosis, pathogen movement / emergence monitoring, new pathogen ID and F4 monitoring for the CA processing tomato industry	Cassandra Swett	UC Davis
2018 Start	Developing an integrated mgmt. strategy for F. falciforme vine decline in processing tomato, including co-management with Fusarium wilt	Cassandra Swett	UC Davis / UC Extension
2023 Start	Integrated solutions to address the issue of fusarium stem rot and vine decline (FRD) in processing tomato* - USDA IR-4 Funded	Patricia Lazicki	UC Extension
2025 Start	Evaluating the potential of Trichoderma biofungicides as preventative measurements for Fusarium stem rot and vine decline in processing tomato	Zheng Wang	UC Extension
2017 Start	Viral Diagnostics* - CDFA BCTV Control Board Co-Funding	Robert Gilbertson	UC Davis / UC Extension
2024 Start	Evaluation of Insecticide Programs in Processing Tomatoes for the MGMT of BCTV and TSWV Vectors and Viruses	Tom Turini	UC Extension
Weed Control and Management			
2025 Start	Evaluating chemigated rimsulfuron herbicide on field bindweed suppression in processing tomatoes	Scott Stoddard	UC Extension