## CTRI ANNUAL RESEARCH FUNDING: FINAL 2024 PROJECT LIST

2024 TOTAL AFTER FINAL BOARD DECISIONS: ~\$680,000		
Broomrape Containment, Control and Management	Research Lead	Institution
2020 Broomrape: Devt. of Long Term Mgmt. Options: CA Commercial Field Conditions & Contained Research Facility Start Ongoing Work	Brad Hanson	UC Davis
2020 Start Broomrape: Devt. of Long Term Mgmt. Options: Chilean Commercial Field Conditions *	Juan Carlos	UC Davis - Chile
2021 Developing best equipment sanitation practices for broomrape and other high-profile soil borne pathogens; to Start mitigate field-to-field spread*	Cassandra Swett	UC Davis
2022 Determining the population structure of Phelipanche ramosa and Orobanche aegyptiaca field detections in Start 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 Detection of Broomrape Infestations with Remote Sensing*	Alireza Pourezza	UC Davis
2023 Start Screening of a VOC Sensor to Identify Broomrape Infestations*	Cristina Davis	UC Davis
Agronomic/Water/Nutrient Management		
2022 Start Adapting the 'CropManage' weather-based irrigation decision-support tool – Further Investigation	Zheng Wang	UC Extension
2023 Evaluation of materials to mitigate negative effects of salinity and high temperatures on yields of processing Start tomatoes	Tom Turini	UC Extension
2023 Start Climate Smart Mgmt. Innovations for Improved Soil Quality, and Productivity of CA Processing Tomatoes	Amelie Gaudin	UC Davis / UC Extension
2023 Start KPAM in Soils with RKN AND Fungal Challenges - Impacts on Yield and Disease Severity	Patricia Lazicki	UC Extension
2024 New     Assessment of Novel Transplanter Performance and Economics	Patricia Lazicki	UC Extension
Germplasm and Variety Development		
1991   Start   C. M. Rick Tomato Genetic Resource Center	Roger Chetelat	UC Davis
2024 New     Leveraging germplasm resources for genetic discovery and deployment of salt stress resilience	Greg Vogel	Cornell
2021 Start Marker-assisted breeding for polygenic tomato spotted wilt resistance in tomatoes*	Reza Shekasteband	NCSU
Insect & Invertebrate Management		
2024 Decoding Resistance-Breaking Root-Knot Nematodes: A Statewide Survey and the Path to Diagnostic Tools in New California's Tomato Fields	Shahid Siddique	UC Davis
2011 Evaluation of Alternative Nematicides for the Control of Root-Knot Nematodes of Processing Tomatoes - with Start addition of novel biocarriers *	Jaspreet Sidhu	UC Extension
Pathogen Management		
2017 Disease diagnosis, pathogen movement / emergence monitoring, new pathogen ID and F4 monitoring for the CA Start processing tomato industry	Cassandra Swett	UC Davis
2018 Developing an integrated mgmt. strategy for F. falciforme vine decline in processing tomato, including co- Start management with Fusarium wilt	Cassandra Swett	UC Davis / UC Extension
2020 Developing an integrated mgmt. strategy for F. falciforme vine decline in processing tomato, including co- Start management with Fusarium wilt	Brenna Aegerter	UC Extension
2024 New Evaluation of Insecticide Programs in Processing Tomatoes for the MGMT of BCTV and TSWV Vectors and Viruses	Tom Turini	UC Extension
2017 Start Viral Diagnostics*	Robert Gilbertson	UC Davis / UC Extension
Weed Control and Management		
2023 Evaluation of new automated weeders in processing tomatoes	Scott Stoddard	UC Extension
2024 New Controlling in-row weeds with post plant applications of pre-emergent herbicides	Scott Stoddard	UC Extension
* Denotes a project which is ongoing with the review and confidence of the CTRI, but with 100% outside funding		