

US-5335-21	Developing mechanical harvesting and improving postharvest treatment of California and Israel's table olive (<i>Olea europaea L.</i>)	Agricultural Innovation & Engi App. Duration: 3 years
	Ehsani, R. UC, Merced Dag, A. ARO, Min. Ag. Ferguson, L. UC, Davis Fishman, A. Technion	CA
US-5336-21	Mitigation of clogging in drip-irrigation emitters: A hydrodynamic approach	Agricultural Innovation & Engi App. Duration: 3 years
	Sauret, A.O. UC, St.Barbara Ramon, G. Technion	CA
US-5343-21	Elucidating carp responses and virulence strategies during CyHV-3 infection of hosts with different susceptibility patterns	Animal Health App. Duration: 3 years
	* Gorgoglione, B. U Michigan St. David, D.L. Hebrew U	MI
IS-5354-21	Mitigation of off flavor in recirculating aquaculture systems	Animal Production App. Duration: 3 years
	Van Rijn, J. Hebrew U Davidson, J.W. Freshwater Inst.	WV
IS-5358-21	Elucidating and manipulating regulatory elements of the tilapia physiological response to extreme temperatures	Animal Production App. Duration: 3 years
	Cnaani, A. ARO, Min. Ag. Kueltz, D. UC, Davis * Biran, J. ARO, Min. Ag.	CA
US-5361-21	Understanding the Citrus tristeza virus interplay with plant immunity for disease control	Crop Health App. Duration: 1 year
	Folimonova, S.Y. U Florida Mawassi, M. ARO, Min. Ag.	FL
IS-5362-21CR 4931 5263	Tomato PP2C phosphatases: negative regulators of plant immunity and biotechnological tools for enhancement of disease resistance	Crop Health App. Duration: 3 years
	Sessa, G. Tel Aviv U Martin, G.B. Boyce Thompson	NY
IS-5386-21R 5271	Deciphering the resistance-breaking mechanism of Tomato brown rugose fruit virus	Crop Health App. Duration: 3 years
	* Spiegelman, Z. ARO, Min. Ag. Dinesh-Kumar, S.P. UC, Davis	CA
US-5389-21C 5029	Gene discovery through systems biology approaches to develop broad-spectrum antiviral strategies in crops	Crop Health App. Duration: 3 years
	Wang, X.F. Virginia Tech Schuldiner, M. Weizmann Inst.	VA

US-5390-21	Adapting soil biosolarization to local by-products and low water inputs by harnessing the indigenous microbiome in lettuce crops	Crop Health App. Duration: 3 years
	Simmons, C. UC, Davis Freilich, S. ARO, Min. Ag. Stapleton, J.J. UC, ANR	CA CA
IS-5393-21	Wild plasmotype diversity for evolving and breeding abiotic stress resilience in barley	Crop Production App. Duration: 3 years
	Fridman, E. ARO, Min. Ag. Koenig, D. UC, Riverside Lenaghan, S. U Tennessee, Knoxville	CA TN
IS-5400-21	Leveraging genomics and temporal high-throughput phenotyping to enhance association mapping and yield prediction of sesame	Crop Production App. Duration: 3 years
	Peleg, Z. Hebrew U Morota, G. Virginia Tech * Herrmann, I. Hebrew U	VA
IS-5403-21CR <small>4822 5291</small>	Elucidating the genes that are involved in the biosynthetic pathway of hydrolyzable tannins in pomegranate	Crop Production App. Duration: 3 years
	Amir, R. MIGAL R&D Tian, L. UC, Davis Holland, D. ARO, Min. Ag.	CA
IS-5430-21	Tree-based multilevel spatial decision support systems to close the yield gap in almond orchards	Environ/Water/Ren. Res. App. Duration: 3 years
	* Baram, S. ARO, Min. Ag. Jin, Y. UC, Davis * Paz-Kagan, T. ARO, Min. Ag. Brown, P.H. UC, Davis	CA CA
US-5434-21	Unraveling the biogeochemical mechanisms of drought and rewetting induced nitric and nitrous oxide emissions from dryland agriculture	Environ/Water/Ren. Res. App. Duration: 3 years
	* Saha, D. U Tennessee, Knoxville * Gelfand, I. Ben Gurion U Schaeffer, S.M. U Tennessee, Knoxville * Jagadamma, S.M. U Tennessee, Knoxville	TN TN TN
US-5439-21	Nutrient recovery in recirculating aquaculture systems: From waste to fertilizer	Environ/Water/Ren. Res. App. Duration: 3 years
	Sengupta, S. U of Mass at Dartmouth * Tal, S. Isr. Ocean. Res. * Yogeve, U. Isr. Ocean. Res.	MA
IS-5443-21R <small>5298</small>	Foliar fertilization with insoluble phosphate: exploration of chemical, structural, and microbial processes that facilitate P acquisition	Environ/Water/Ren. Res. App. Duration: 3 years
	* Erel, R. ARO, Min. Ag. Leveau, J. UC, Davis Gross, A. Ben Gurion U	CA

IS-5444-21	Controlling postharvest fruit decay by antifungal defensin-like peptides	Food Product
	Alkan, N. ARO, Min. Ag.	App. Duration: 3 years
	Shah, D. Danforth Center	MO
IS-5451-21	Leading the way to the future of gas chromatography - mass spectrometry in food safety analysis	Food Product
	Amirav, A. Tel Aviv U	App. Duration: 3 years
	Lehotay, S.J. USDA, ARS	PA
IS-5455-21	The functional microbiome of apple fruit and its interplay with the host metabolome and postharvest pathogens	Food Product
	Droby, S. ARO, Min. Ag.	App. Duration: 3 years
	* Whitehead, S.R. Virginia Tech	VA
	Freilich, S. ARO, Min. Ag.	
	Wisniewski, M.E. Virginia Tech	VA

* Indicates an early career scientist (less than 5 years from first institutional appointment)