

**BARD Approved Projects  
Award Year 2022**

25/05/2022

<b>IS-5465-22CR</b> 5001 5.347	<b>Disrupting the signal: characterization and inhibition of host-parasite sensing apparatus</b>	Animal Health
		Total 310,000 3 years
	Lotan, T. U Haifa	
	Atkinson, S. U Oregon St.	OR
	Bartholomew, J. U Oregon St.	OR
<b>IS-5469-22R</b> 5.345	<b>Does Honey Bee Hygienic Behavior Curtail or Enhance Virus Transmission</b>	Animal Health
		Total 310,000 3 years
	Soroker, V. ARO, Min. Ag.	
	Schroeder, D. U Minnesota	MN
	Spivak, M. U Minnesota	MN
<b>IS-5474-22R</b> 5.351	<b>Morphokinetic selection of embryos for an embryo-transfer system to improve summer fertility of dairy cows</b>	Animal Production
		Total 100,000 1 year
	Roth, Z. Hebrew U	
	Hansen, P.J. U Florida	FL
	Marcondes de Rezende, F U Florida	FL
<b>IS-5478-22</b>	<b>Manipulating dietary sodium and anions to reduce the environmental impacts of dairy cattle: sodium excretion and ammonia emission from manure</b>	Animal Production
		Total 310,000 3 years
	Ben Meir, Y. ARO, Min. Ag.	
	Lee, C. U Ohio St.	OH
<b>IS-5479-22C</b> 4995	<b>Utilization of periphyton biofilter for water treatment and recovery of waste nutrients in recirculating aquaculture systems for intensive production of marine fish</b>	Animal Production
		Total 310,000 3 years
	Guttman, L. Isr. Ocean. Res.	
	Main, K. L. Mote	FL
	Tarnecki, A. Mote	FL
	Brennan, N. Mote	FL
<b>IS-5482-22</b>	<b>Exploring thyroid hormones and GHRH as tools for manipulating growth and puberty in female fish</b>	Animal Production
		Total 310,000 3 years
	Golan, M. ARO, Min. Ag.	
	Zmora, N. UMBC	MD
	Levavi-Sivan, B. Hebrew U	
	Zohar, Y. UMBC	MD
<b>IS-5486-22CR</b> 5023 5.367	<b>A holistic approach towards development of bacterial fruit blotch resistance in cucurbits</b>	Crop Health
		Total 310,000 3 years
	Burdman, S. Hebrew U	
	Walcott, R. U Georgia	GA
	Zhao, B. Virginia Tech	VA
	Welbaum, E. Virginia Tech	VA

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<b>IS-5492-22R</b> 5.366	<b>Co-opting fungal cell death pathways for disease control in agriculture</b>	Crop Health
		Total 310,000 3 years
	Shlezinger, N. Hebrew U Kabbage, M. U Wisconsin	WI
<b>IS-5497-22</b> 0	<b>Targeting Core RxLR-like effectors of phytonematodes to control root knot nematode disease</b>	Crop Health
		Total 100,000 1 year
	Braun Miyara, S. ARO, Min. Ag. Gleason, C. U WA State Sela, N. ARO, Min. Ag.	WA
<b>IS-5499-22</b>	<b>Effector proteases from <i>Clavibacter</i>: identification of plant immune receptors and investigating their influence on host specificity in Solanaceae</b>	Crop Health
		Total 310,000 3 years
	Teper, Doron ARO, Min. Ag. Coaker, G.L. UC, Davis	CA
<b>IS-5502-22C</b> 5033	<b>ABC transporters as potential targets for virulence inhibition in soft rot pectobacteria</b>	Crop Health
		Total 310,000 3 years
	Yedidia, I. ARO, Min. Ag. Charkowski, A.O. U Colorado St. Senderowitz, H. Bar Ilan U	CO
<b>IS-5510-22R</b> 5.402	<b>Developing predictive indicators of reproductive heat stress tolerance in tomato plants</b>	Crop Production
		Total 310,000 3 years
	Miller, G. Bar Ilan U Palanivelu, R. U Arizona Lieberman-Lazarovich, M ARO, Min. Ag. Muday, G.K. U Wake Forest Johnson, M.A. U Brown Harper, J.F. U Nevada	AZ NC RI NV
<b>IS-5512-22</b>	<b>Resilient sweetpotato yield and quality in face of climate change - root architectural traits for consistent storage root formation under drought</b>	Crop Production
		Total 310,000 3 years
	Rachmilevitch, S. Ben Gurion U Villordon, A.Q. LSU, Ag Center Baisakh, N. LSU, Ag Center LaBonte, D.R. LSU, Ag Center Ilani, T. Southern R&D	LA LA LA
<b>US-5515-22C</b> 5191	<b>Molecular characterization and natural variation of 12-oxophytodienoate reductases that modulate wheat root architecture</b>	Crop Production
		Total 310,000 3 years
	Dubcovsky, J. UC, Davis Fahima, T. U Haifa Krugman, T. U Haifa	CA

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<b>IS-5516-22</b>	<b>Regulation of stomata function, ROS formation, water use efficiency and drought tolerance in tomato by ROP GTPase signaling</b>	Yalovsky, S.                      Tel Aviv U Schroeder, J.I.                    UC, San Diego Sade, N.                              Tel Aviv U	CA	Crop Production		
				Total	310,000	3 years
<b>IS-5519-22</b>	<b>Utilizing citrullus spp. genetic resources for enhancing abiotic tolerance in watermelon cultivars</b>	Cochavi, A.                        ARO, Min. Ag. Levi, A.                              USDA, ARS Gur, A.                                ARO, Min. Ag. Fei, Z.                                Boyce Thompson	SC NY	Crop Production		
				Total	306,000	3 years
<b>IS-5524-22</b>	<b>Development of novel approaches to improve fruit quality and shelf-life via tailored and targeted manipulation of cytokinin levels</b>	Goldshmidt, A.                    ARO, Min. Ag. Rose, J.K.                         U Cornell	NY	Crop Production		
				Total	310,000	3 years
<b>IS-5537-22R</b> 5.407	<b>Short term drought-tolerance inducing rhizobacteria (STDiR): a potential for water stress amelioration in wheat</b>	Minz, D.                            ARO, Min. Ag. Green, S.J.                        U Rush Ben-David, R.                    ARO, Min. Ag. Hadar, Y.                         Hebrew U	IL	Environ/Water/Ren. Res.		
				Total	310,000	3 years
<b>US-5545-22R</b> 5.437	<b>Sharing a lignocellulosic dish: exploiting a bi-fungal consortium and its interacting mechanisms for agricultural residues conversion</b>	Zhang, J.                            U Minnesota Hadar, Y.                         Hebrew U Yarden, O.                        Hebrew U	MN	Environ/Water/Ren. Res.		
				Total	310,000	3 years
<b>US-5548-22R</b> 5.440	<b>Remote sensing of wine-grapevine transpiration for improving vine water status</b>	Alfieri, J.G.                        USDA, ARS Agam, N.                            Ben Gurion U Torres-Rua, A.                    U Utah St. Kustas, W.                        USDA, ARS Karnieli, A.                        Ben Gurion U	MD UT MD	Environ/Water/Ren. Res.		
				Total	310,000	3 years
<b>IS-5553-22</b>	<b>Regulating Ripening and Chilling Tolerance of Tomato Fruits Through Autophagy Modulation</b>	Michaeli, S.                        ARO, Min. Ag. Mattoo, A.K.                      USDA, ARS	MD	Food Product		
				Total	310,000	3 years