

<b>US-4689-14R</b> 4577	<b>Innovative yield mapping system using hyperspectral and thermal imaging for precision tree crop management</b> Lee, W.S. Alchanatis, V. Levi, A.	U Florida ARO, Min. Ag. ARO, Min. Ag.	FL	Agricultural Innovation & Engi App. Duration: 3 years
<b>IS-4693-14R</b> 4578	<b>The economics of crop insurance in the U.S. and Israel</b> Finkelshtain, I. Goodwin, B.K. Bar-Shira, Z.	Hebrew U N Carolina St. U Hebrew U	NC	Ag. Economics & Rural Devel. App. Duration: 3 years
<b>US-4700-14</b>	<b>Transfected <i>Babesia bovis</i> expressing the anti-tick Bm86 antigen as a vaccine to limit tick infestation and protect against virulent challenge</b> Knowles, D. * Leszkowicz Mazuz, M.	WA State U Isr. Vet. Inst.	WA	Animal Health App. Duration: 3 years
<b>IS-4701-14R</b> 4590	<b>Development of sustainable fly management tools in an era of global warming</b> * Chiel, E. Geden, C.J.	U Haifa USDA, ARS	FL	Animal Health App. Duration: 3 years
<b>US-4704-14</b>	<b>The effect of selected lactic acid bacteria on the microbial composition and on the survival of pathogens in the rumen in context with their probiotic effects on ruminants</b> Weinberg, Z.G. Adesogan, A. Mizrahi, I. Sela, S. Jeong, K.C. Vyas, D.	ARO, Min. Ag. U Florida Ben Gurion U ARO, Min. Ag. U Florida U Florida	FL  FL FL FL	Animal Production App. Duration: 3 years
<b>US-4709-14</b>	<b>Improving oocyte competence in dairy cows exposed to heat stress</b> Hansen, P.J. Roth, Z. Block, J.J.	U Florida Hebrew U U Florida	FL  FL	Animal Production App. Duration: 3 years
<b>US-4715-14</b>	<b>Photoperiod effects on milk production in goats: Are they mediated by the molecular clock in the mammary gland?</b> Casey, T. Mabjeesh, S.J Shamay, A. Plaut, K.	Purdue Hebrew U ARO, Min. Ag. Purdue	IN   IN	Animal Production App. Duration: 3 years
<b>IS-4722-14</b>	<b>Evolution of resistance to mating disruption in the pink bollworm moth evidence and possible mechanism</b> Harari, A.R. Jurenka, R.A. Rafaeli, A. Soroker, V.	ARO, Min. Ag. Iowa St. U ARO, Min. Ag. ARO, Min. Ag.	IA	Crop Health App. Duration: 3 years

<b>US-4725-14F</b>	<b>Interactions between Bell pepper endornavirus and acute viruses in bell pepper and effect to the host</b>	Crop Health App. Duration: 1 year
	Valverde, R.A.                      LSU, Ag Center                      LA Dombrovsky, A.                      ARO, Min. Ag. * Sela, N.                              ARO, Min. Ag.	
<b>IS-4727-14R</b>	<b>Dissecting interactions between root-knot nematode effectors and lipid signaling involved in plant defense</b>	Crop Health App. Duration: 3 years
4613	* Brown Miyara, S.                      ARO, Min. Ag. Davis, E.L.                              N Carolina St. U                      NC * Elling, A.                              WA State U                              WA	
<b>US-4734-14C</b>	<b>Identifying pathogenic determinants of <i>Acidovorax citrulli</i> toward the control of bacterial fruit blotch of cucurbits</b>	Crop Health App. Duration: 3 years
4216	Zhao, B.                              Virginia Tech                              VA Burdman, S.                              Hebrew U Walcott, R.                              U Georgia                              GA Pupko, T.                              Tel Aviv U Welbaum, E                              Virginia Tech                              VA	
<b>IS-4740-14</b>	<b>Agricultural exploitation of the unparalleled growth, photosynthesis and light tolerance of <i>Chlorella ohadii</i></b>	Crop Production App. Duration: 3 years
	Kaplan, A.                              Hebrew U Grossman, A.R.                              Carnegie Inst. of Washington                      CA	
<b>IS-4744-14CR</b>	<b>Population genomics, linkage disequilibrium and association mapping of stripe rust resistance genes in wild emmer wheat, <i>Triticum turgidum ssp. dicoccoides</i></b>	Crop Production App. Duration: 3 years
4137                      4625	* Sela, H.                              Tel Aviv U Akhunov, E.                              Kansas St. U                              KS Steffenson, B.J.                              U Minnesota                              MN	
<b>IS-4745-14R</b>	<b>How temperature stress changes carrot flavor: Elucidating the genetic determinants of undesired taste in carrots</b>	Crop Production App. Duration: 3 years
4635	* Ibdah, M.                              ARO, Min. Ag. Tholl, D.                              Virginia Tech                              VA Simon, P.W.                              USDA, ARS                              WI	
<b>IS-4749-14CR</b>	<b>Controlling water use efficiency and drought tolerance through the GTL1-SDD1 stomatal density switch</b>	Crop Production App. Duration: 3 years
4243                      4626	Fromm, H.                              Tel Aviv U Mickelbart, M.V.                              Purdue                              IN Tadmor, Y.                              ARO, Min. Ag. Hasegawa, P.M.                              Purdue                              IN	
<b>IS-4752-14R</b>	<b>Regulation of pepper fruit color, chloroplasts development and their importance in fruit quality</b>	Crop Production App. Duration: 3 years
4644	Paran, I.                              ARO, Min. Ag. Van Deynze, A.                              UC, Davis                              CA	
<b>IS-4761-14</b>	<b>Mining multidrug-resistant desert soil bacteria for biocontrol activity and biologically-active compounds</b>	Environ/Water/Ren. Res. App. Duration: 1 year
	* Cytryn, E.                              ARO, Min. Ag. Liles, M.R.                              Auburn U                              AL * Frenkel, O.                              ARO, Min. Ag.	

<b>IS-4764-14R</b> 4660	<b>Optimization of advanced greenhouse substrates based on physicochemical characterization, numerical simulations, and tomato growth experiments</b>	Environ/Water/Ren. Res. App. Duration: 3 years
	Tuller, M. U Arizona AZ Bar-Tal, A. ARO, Min. Ag. Heller, H. ARO, Min. Ag. Amichai, M. Ramat Negev Desert R&D	
<b>IS-4768-14R</b> 4663	<b>Responsive, self-cleaning membranes for fouling control in advanced agricultural wastewater treatment</b>	Environ/Water/Ren. Res. App. Duration: 3 years
	* Ramon, G. Technion Wickramasinghe, S.R. U Arkansas AR Qian, X. U Arkansas AR	
<b>US-4771-14R</b> 4666	<b>Uptake of wastewater-derived micropollutants by plants irrigated with reclaimed wastewater</b>	Environ/Water/Ren. Res. App. Duration: 3 years
	Pedersen, J.A. U Wisconsin WI Shenker, M. Hebrew U Karthikeyan, K.G. U Wisconsin WI Chefet, B. Hebrew U Tarchitzky, J. Hebrew U Hedman, C. U Wisconsin WI	
<b>IS-4773-14</b>	<b>The global regulation of mycotoxin accumulation during pathogenicity of <i>Penicillium expansum</i> in postharvest fruits</b>	Food Product App. Duration: 3 years
	Prusky, D. ARO, Min. Ag. Keller, N.P. U Wisconsin WI Sherman, A. ARO, Min. Ag.	
<b>US-4774-14C</b> 4561	<b>Genetic and transcriptomic analysis of postharvest decay resistance in <i>Malus sieversii</i> and the characterization of pathogenicity effectors in <i>Penicillium expansum</i></b>	Food Product App. Duration: 3 years
	Wisniewski, M.E. USDA, ARS WV Droby, S. ARO, Min. Ag. Norelli, J.L. USDA, ARS WV * Sela, N. ARO, Min. Ag. * Levin, E. ARO, Min. Ag.	
<b>IS-4783-14F</b>	<b>The genetic basis for postharvest chilling tolerance in tomato fruit</b>	Food Product App. Duration: 1 year
	Lers, A. ARO, Min. Ag. Foolad, M.R. Penn State U PA Friedman, H. ARO, Min. Ag.	
<b>IS-4784-14</b>	<b>Waste to Worth: Active antimicrobial and health-beneficial food coating from byproducts of mushroom industry</b>	Food Product App. Duration: 3 years
	* Poverenov, E. ARO, Min. Ag. McHugh, T. USDA, ARS CA Rodov, V. ARO, Min. Ag.	

<b>US-4791-15R</b> 4694	<b>Development of a universal volatile compound detection technology for early recognition of pests and diseases in fruit trees</b> Davis, C. Hetzroni, A. * Aksenov, A. Delwiche, M.J. Soroker, V. Alchanatis, V.	UC, Davis ARO, Min. Ag. UC, Davis UC, Davis ARO, Min. Ag. ARO, Min. Ag.	CA  CA CA  	Agricultural Innovation & Engi App. Duration: 1 year
<b>IS-4794-15R</b> 4707	<b>Determination of actual polymorphisms responsible for economic trait variation in dairy cattle</b> Weller, J.I. * Bickhart, D.M. Ron, M. Seroussi, E. Liu, G. Wiggans, G.R.	ARO, Min. Ag. USDA, ARS ARO, Min. Ag. ARO, Min. Ag. USDA, ARS USDA, ARS	  MD  MD MD	Animal Production App. Duration: 3 years
<b>IS-4799-15</b>	<b>Mechanisms involved in rescue of the corpus luteum during early pregnancy in lactating dairy cows</b> Meidan, R. Wiltbank, M.C.	Hebrew U U Wisconsin	 WI	Animal Production App. Duration: 3 years
<b>IS-4800-15R</b> 4711	<b>Optimization of tilapia nutrition by understanding the mechanistic basis of amino-acid/peptide transport in their gut</b> Cnaani, A. Kueltz, D. Harpaz, S.	ARO, Min. Ag. UC, Davis ARO, Min. Ag.	 CA	Animal Production App. Duration: 3 years
<b>IS-4801-15C</b> 4390	<b>Uncovering rumen microbiome components shaping feed efficiency in dairy cows</b> * Mizrahi, I. White, B.A.	Ben Gurion U U Illinois	 IL	Animal Production App. Duration: 3 years
<b>US-4813-15C</b> 4429	<b>DELLA, ABA and drought tolerance in tomato</b> Olszewski, N.E. Weiss, D.	U Minnesota Hebrew U	 MN	Crop Production App. Duration: 3 years
<b>IS-4818-15</b>	<b>Optimization of shoot architecture for the agricultural field</b> Eshed, Y. Lippman, Z.B.	Weizmann Inst. Cold Spring Harbor	 NY	Crop Production App. Duration: 3 years
<b>IS-4822-15R</b> 4751	<b>Elucidating the genetic pathways involved in shikimate, anthocyanin and hydrolyzable tannin accumulation in pomegranate</b> Amir, R. Tian, L. Holland, D. Borochoy-Neori, H.	MIGAL R&D UC, Davis ARO, Min. Ag. Southern Arava R&D	 CA	Crop Production App. Duration: 3 years
<b>IS-4827-15</b>	<b>Mechanisms underlying root system architecture adaptation to low phosphate environment</b> Savaldi-Goldstein, S. Brady, S.M.	Technion UC, Davis	 CA	Crop Production App. Duration: 3 years

<b>US-4828-15</b>	<b>What shapes the crossover landscape in maize and wheat and how can we modify it</b>	Crop Production App. Duration: 3 years
	Pawlowski, W.P.                      Cornell U Levy, A.A.                              Weizmann Inst.	NY
<b>IS-4829-15</b>	<b>Introgression of stripe rust resistance genes from <i>Aegilops speltoides</i> into wheat with a novel introgression methodology</b>	Crop Production App. Duration: 3 years
	* Distelfeld, A.                      Tel Aviv U Dvorak, J.                              UC, Davis * Sela, H.                              Tel Aviv U	CA
<b>US-4833-15C</b> 4414	<b>Characterization of the chorismate mutase effector (SsCm1) from <i>Sclerotinia sclerotiorum</i></b>	Crop Health App. Duration: 3 years
	Dickman, M.B.                      TX AgriLife Res Yarden, O.                              Hebrew U	TX
<b>US-4839-15FR</b> 4614	<b>The role of asymptomatic secondary hosts in the epidemiology of Verticillium wilt</b>	Crop Health App. Duration: 1 year
	Milgroom, M.G.                      Cornell U * Frenkel, O.                      ARO, Min. Ag. Tsrer, L.                              ARO, Min. Ag. Jimenez-Gasco, M.d.M.              Penn State U	NY  PA
<b>IS-4841-15F</b>	<b>Novel strategies and methodologies to control and study <i>Candidatus Liberibacter</i> diseases</b>	Crop Health App. Duration: 1 year
	* Bahar, O.                              ARO, Min. Ag. De La Fuente, L.                      Auburn U Falk, B. W.                              UC, Davis * Sela, N.                              ARO, Min. Ag.	AL CA
<b>IS-4842-15R</b> 4719	<b>Proteomic investigation of a tomato receptor like protein recognizing fungal pathogens</b>	Crop Health App. Duration: 3 years
	Avni, A.                              Tel Aviv U Coaker, G.L.                      UC, Davis	CA
<b>US-4846-15C</b> 4505	<b>Investigation of growth regulation by maize benzoxazinoid breakdown products</b>	Crop Health App. Duration: 3 years
	Jander, G.                              Boyce Thompson Chamovitz, A.D.                      Tel Aviv U	NY
<b>IS-4850-15R</b> 4780	<b>Plant cell cultures for the production of health promoting metabolites</b>	Food Product App. Duration: 3 years
	Oren-Shamir, M.I.                      ARO, Min. Ag. Sinclair, D.A.                      Harvard Medical School Fait, A.                              Ben Gurion U Galili, G.                              Weizmann Inst. Or, E.                              ARO, Min. Ag.	MA
<b>IS-4851-15R</b> 4777	<b>Increasing the value of mushrooms as functional foods: induction of alpha and beta glucan content via novel cultivation methods</b>	Food Product App. Duration: 3 years
	Schwartz, B.                              Hebrew U Vetvicka, V.                      U Louisville Danai, O.                              MIGAL R&D Hadar, Y.                              Hebrew U	KY

<b>IS-4858-15</b>	<b>Elucidating the mechanism of pit formation in cherries for improving storage capacity</b>	Food Product App. Duration: 3 years
	Friedman, H.                      ARO, Min. Ag. Mitcham, E.J.                    UC, Davis * Sela, N.                         ARO, Min. Ag.	CA
<b>IS-4862-15R</b>	<sup>4621</sup> <b>Effect of plant systemic resistance and role of type III secretion system in colonization of basil and lettuce by <i>Salmonella enterica</i></b>	Food Product App. Duration: 3 years
	Manulis, S.                        ARO, Min. Ag. Brandl, M.T.                      USDA, ARS Barash, I.                         Tel Aviv U Chalupowicz, L.                 ARO, Min. Ag. McClelland, M.                 UCA, Irvine Bostock, R.M.                  UC, Davis Elad, Y.                         ARO, Min. Ag. Sessa, G.                         Tel Aviv U	CA  CA CA CA
<b>IS-4864-15F</b>	<b>Postharvest sweetening of potato seed tubers and effects on their yield performance</b>	Food Product App. Duration: 1 year
	Eshel, D.                         ARO, Min. Ag. Jiang, J.                         U Wisconsin	WI
<b>IS-4870-15R</b>	<sup>4653</sup> <b>Phosphorus capture recycling and utilization for sustainable agriculture using Al/organic composite water treatment residuals</b>	Environ/Water/Ren. Res. App. Duration: 3 years
	Litaor, M.                        MIGAL R&D Ippolito, J.                      Colorado St. U * Zohar, I.                        MIGAL R&D * Massey, M.S.                 CA State U East Bay	CO CA
<b>US-4877-15</b>	<b>Investigation of particulate flow behavior in a continuous, high solids, leach-bed biogasification system</b>	Environ/Water/Ren. Res. App. Duration: 3 years
	Pullammanappallil, P.C.      U Florida Kalman, H.                      Ben Gurion U Curtis, J.                         U Florida	FL FL
<b>US-4880-16</b>	<b>Building local brand for fresh fruits and vegetables: A strategic approach aimed at strengthening the local agricultural sector</b>	Ag. Economics & Rural Devel. App. Duration: 3 years
	Just, R.                         Cornell U Heiman, A.                      Hebrew U	NY
<b>US-4884-16</b>	<b>Closing the nutrient cycle through sustainable agricultural waste management</b>	Agricultural Innovation & Engi App. Duration: 3 years
	Sengupta, S.                      U of Mass at Dartmouth Lew, B.                         ARO, Min. Ag. Blaney, L.                        UMBC	MA MD
<b>US-4885-16</b>	<b>Improving sustainability of greenhouse production using semi-transparent flexible photovoltaic films</b>	Agricultural Innovation & Engi App. Duration: 3 years
	Kacira, M.                        U Arizona Teitel, M.                        ARO, Min. Ag. Yehia, I.                         Triangle R&D Geoola, F.                        ARO, Min. Ag. Levi, A.                         ARO, Min. Ag. Gnayem, N.                      Triangle R&D Kubota, C.                        U Arizona	AZ  AZ

<b>IS-4886-16R</b> 4787	<b>Development of a robotic inspection system for early identification and locating of biotic and abiotic stresses in greenhouse crops</b>	Agricultural Innovation & Engi App. Duration: 3 years
	Bechar, A.                      ARO, Min. Ag. Nof, S.Y.                        Purdue Tao, Y.                            U Maryland	IN MD
<b>IS-4892-16CR</b> 4489      4795	<b>Genetic manipulations of MC4R for increased growth and feed efficiency in fish</b>	Animal Production App. Duration: 3 years
	Gothilf, Y.                      Tel Aviv U Cone, R.                         U Michigan Levavi-Sivan, B.                Hebrew U Harpaz, S.                        ARO, Min. Ag.	MI
<b>IS-4899-16R</b> 4803	<b>Fibroblast growth factor signaling requirements for embryonic and placental development in ruminants</b>	Animal Production App. Duration: 1 year
	* Gershon, E.                  ARO, Min. Ag. Ealy, A.                          Virginia Tech	VA
<b>IS-4903-16C</b> 4583	<b>Diagnostics and vaccines for containment of TiLV - a novel RNA virus lethal to <i>Tilapia</i></b>	Animal Health App. Duration: 3 years
	Bacharach, E.                 Tel Aviv U Lipkin, W.I.                    Columbia U Eldar, A.                        Isr. Vet. Inst.	NY
<b>IS-4905-16R</b> 4804	<b>Identification of virulence-associated genes in <i>Mycobacterium avium subsp. paratuberculosis</i> by mutant-library construction</b>	Animal Health App. Duration: 1 year
	* Barkan, D.                    Hebrew U Chang, Y.F.                     Cornell U McDonough, L                 Cornell U Fubini, S.                        Cornell U Gleed, R.                         Cornell U	NY NY NY NY
<b>IS-4911-16</b>	<b>Characterization of genetic variation and yield heterosis in <i>Cucumis melo</i></b>	Crop Production App. Duration: 3 years
	* Gur, A.                         ARO, Min. Ag. Buckler, E.S.                    Cornell U Burger, J.                        ARO, Min. Ag. Tadmor, Y.                        ARO, Min. Ag. * Klapp, I.                        ARO, Min. Ag.	NY
<b>IS-4915-16R</b> 4814	<b>Functional analysis of barley cysteine proteases and their role in nitrogen remobilization from senescing leaves</b>	Crop Production App. Duration: 3 years
	Fluhr, R.                         Weizmann Inst. Fischer, A.                        Montana St. U	MT
<b>US-4916-16</b>	<b>Positional cloning of a rye QTL responsible for water stress resistance in wheat based on radiation mapping and comparative genomics</b>	Crop Production App. Duration: 3 years
	Dubcovsky, J.                  UC, Davis Fahima, T.                        U Haifa Krugman, T.                      U Haifa * Howell, T.                      UC, Davis	CA CA

<b>US-4918-16CR</b> 4423 4743	<b>Characterization of the <i>Or</i> regulatory network for carotenoid biofortification in food crops - phase II</b> Li, L. Tadmor, Y. Burger, J. Portnoy, V. Schaffer, A. Fei, Z.	USDA, ARS ARO, Min. Ag. ARO, Min. Ag. ARO, Min. Ag. ARO, Min. Ag. Boyce Thompson	NY     NY	Crop Production App. Duration: 3 years
<b>IS-4919-16R</b> 4760	<b>Systematic analyses of the roles of <i>Solanum Lycopersicum</i> ABA receptors in environmental stress and development</b> * Mosquna, A. Cutler, S.	Hebrew U UC, Riverside	CA	Crop Production App. Duration: 3 years
<b>IS-4921-16F</b>	<b>Novel strategies to induce male sterility and restore fertility in <i>Brassicaceae</i> crops</b> Ostersetzer-Biran, O. Mower, J.	Hebrew U U Nebraska	NE	Crop Production App. Duration: 1 year
<b>IS-4926-16R</b> 4811	<b>Understanding the molecular basis of carotenoid synthesis and accumulation in stone fruits: A platform to enhance fruit value</b> * Isaacson, Tal Gasic, K. Bielenberg, D.G. Lewinsohn, E. Holland, D.	ARO, Min. Ag. Clemson U Clemson U ARO, Min. Ag. ARO, Min. Ag.	SC SC	Crop Production App. Duration: 3 years
<b>IS-4929-16FR</b> 4824	<b>Drought adaptation mechanisms in pine hybrids</b> * David-Schwartz, R. Neale, D.B.	ARO, Min. Ag. UC, Davis	CA	Crop Production App. Duration: 1 year
<b>IS-4931-16C</b> 4510	<b>The role of FLS3 and BSK830 in pattern-triggered immunity in tomato</b> Sessa, G. Martin, G.B.	Tel Aviv U Boyce Thompson	NY	Crop Health App. Duration: 3 years
<b>IS-4932-16</b>	<b>Fungal-specific histone deacetylase inhibitors, novel players in combating pathogenic fungi</b> * Covo, S. Ma, L.J.	Hebrew U U Mass	MA	Crop Health App. Duration: 3 years
<b>IS-4937-16</b>	<b>Molecular dissection of host and pathogen factors in <i>Botrytis cinerea</i> pathogenesis for improved genetic resistance</b> Sharon, A. Mengiste, T.D.	Tel Aviv U Purdue	IN	Crop Health App. Duration: 3 years
<b>US-4947-16R</b> 4838	<b>Basil gene pool enrichment for <i>Downy Mildew</i> resistance and QTL development using genotyping by sequencing</b> Simon, J.E. Cohen, Y.	Rutgers Bar Ilan U	NJ	Crop Health App. Duration: 3 years



<b>IS-4953-16</b>	<b>The molecular mechanism for the <i>Tomato yellow leaf curl virus</i> resistance at the ty-5 locus</b>	Crop Health App. Duration: 3 years
	Lapidot, M.                      ARO, Min. Ag. Citovsky, V.                    NYSU, Stony Brook	NY
<b>IS-4957-16R</b>	<b>How berry enlargement practices affect the flavor of grapes</b>	Food Product App. Duration: 3 years
4855	Lichter, A.                      ARO, Min. Ag. Ebeler, S.E.                    UC, Davis Lewinsohn, E.                  ARO, Min. Ag.	CA
<b>IS-4960-16FR</b>	<b>The potential use of a highly-stable lactonase from hyperthermophilic archaea for disruption of quorum sensing in soft rot <i>Pectobacteria</i></b>	Food Product App. Duration: 1 year
4843	Helman, Y.                      Hebrew U * Elias, M.                      U Minnesota Aksan, A.                        U Minnesota	MN MN
<b>US-4962-16R</b>	<b>Developing advanced chemical and computational methods for assessing organoleptic properties of olive oil</b>	Food Product App. Duration: 3 years
4854	* Wang, S.C.                    UC, Davis * Benjamin, O.                Tel Hai College Dag, A.                            ARO, Min. Ag. Tagkopoulos, I.                UC, Davis	CA CA
<b>IS-4964-16R</b>	<b>DOM affected behavior of manufactured nanoparticles in soil-plant system</b>	Environ/Water/Ren. Res. App. Duration: 3 years
4868	Chefetz, B.                      Hebrew U Xing, B.                          U Mass * Eshed-Williams, L.        Hebrew U Polubesova, T.                Hebrew U * Unrine, J.M.                U Kentucky	MA KY
<b>IS-4977-16R</b>	<b>Nanocomposite hydrogel membranes for fouling mitigation in wastewater reclamation for agricultural production</b>	Environ/Water/Ren. Res. App. Duration: 3 years
4874	* Bernstein, R.                Ben Gurion U Chen, K.L.                      Johns Hopkins U Elimelech, M.                Yale	MD CT
<b>IS-4982-16F</b>	<b>Development of heat-pulse sensors for measuring fluxes of water and solutes under the root zone</b>	Environ/Water/Ren. Res. App. Duration: 1 year
	* Kamai, T.                      ARO, Min. Ag. Kluitenberg, G. J.            Kansas St. U Ben-Gal, A.                      ARO, Min. Ag.	KS
<b>US-4986-17F</b>	<b>Assessing the economics of processed natural resources - the case of seaweed</b>	Ag. Economics & Rural Devel. App. Duration: 1 year
	Zilberman, D.                UC, Berkeley Palatnik, R.                    Yezreel Valley College * Golberg, A.                Tel Aviv U	CA

<b>US-4991-17</b>	<b>Using remote sensing to develop dynamic irrigation management zones</b>	Agricultural Innovation & Engi
		App. Duration: 3 years
	* Snider, J.L. U Georgia	GA
	Cohen, Y. ARO, Min. Ag.	
	Vellidis, G. U Georgia	GA
	Saranga, Y. Hebrew U	
	* Porter, M. U Georgia	GA
	Perry, C. U Georgia	GA
	* Liakos, V. U Georgia	GA
	Rud, R. ARO, Min. Ag.	
	Shaked, B. ARO, Min. Ag.	
	Rosenfeld, L. ARO, Min. Ag.	
<b>IS-4995-17R</b>	<b>Use of plant based biofilters to create sustainable mariculture systems</b>	Animal Production
4981		App. Duration: 3 years
	* Guttman, L. Isr. Ocean. Res.	
	Main, L. Mote	FL
	Brennan, N. Mote	FL
	* Tarnecki, A. Mote	FL
	Shpigel, M. Isr. Ocean. Res.	
<b>US-4997-17</b>	<b>Genetic analyses of recombination and PRDM9 alleles and their implications in dairy cattle breeding</b>	Animal Production
		App. Duration: 3 years
	Liu, G. USDA, ARS	MD
	Seroussi, E. ARO, Min. Ag.	
	* Ma, L. U Maryland	MD
<b>US-5000-17R</b>	<b>Genotypes and phenotypes of telomere length in Holstein cattle: Actors or reporters</b>	Animal Production
4897		App. Duration: 3 years
	Dechow, C.D. Penn State U	PA
	Shabtay, A. ARO, Min. Ag.	
	Tzfati, Y. Hebrew U	
	Ott, T. Penn State U	PA
	Soller, M. Hebrew U	
	Liu, W. Penn State U	PA
	* Cohen-Zinder, M. ARO, Min. Ag.	
	Lipkin, E. Hebrew U	
<b>IS-5001-17C</b>	<b>A proteomics and transcriptomics study into Myxozoan parasite infection mechanisms</b>	Animal Health
4576		App. Duration: 3 years
	Lotan, T. U Haifa	
	* Atkinson, S. Oregon St. U	OR
	Bartholomew, J. Oregon St. U	OR
<b>IS-5005-17R</b>	<b>Novel vaccination strategies to combat chicken arthritis/tenosynovitis reoviruses in US and Israel</b>	Animal Health
4904		App. Duration: 3 years
	Lublin, A. Isr. Vet. Inst.	
	Goyal, S.M. U Minnesota	MN
	Porter, E. U Minnesota	MN
	Ly, H. U Minnesota	MN
	Farnoushi, Y. Isr. Vet. Inst.	
	* Mor, S. U Minnesota	MN

<b>US-5009-17</b>	<b>Cucumis fruit surface biology: Genetic analysis of fruit exocarp features in melon (<i>C. melo</i>) and cucumber (<i>C. sativus</i>)</b>	Crop Production App. Duration: 3 years
	Grumet, R. Michigan St. U MI	
	Schaffer, A. ARO, Min. Ag.	
	Barry, C. Michigan St. U MI	
	Burger, J. ARO, Min. Ag.	
	* Gur, A. ARO, Min. Ag.	
	Tadmor, Y. ARO, Min. Ag.	
<b>IS-5010-17</b>	<b>Improving fleshy fruit set by dissecting the AGL6 regulatory pathway</b>	Crop Production App. Duration: 3 years
	Arazi, T. ARO, Min. Ag.	
	Grotewold, E. Michigan St. U MI	
<b>IS-5020-17</b>	<b>The molecular dissection of the crop maturation trait in peanut</b>	Crop Production App. Duration: 3 years
	Hovav, R. ARO, Min. Ag.	
	Ozias-Akins, P. U Georgia GA	
<b>IS-5023-17C</b> 4734	<b>Bacterial fruit blotch: Elucidating the mechanisms of fruit infection by <i>Acidovorax citrulli</i></b>	Crop Health App. Duration: 3 years
	Burdman, S. Hebrew U	
	Walcott, R. U Georgia GA	
	Zhao, B. Virginia Tech VA	
	Welbaum, E. Virginia Tech VA	
<b>IS-5024-17R</b> 4944	<b>Identifying unique and overlapping roles of reactive oxygen species in rice blast and Southern corn leaf blight</b>	Crop Health App. Duration: 3 years
	Horwitz, B. Technion	
	Donofrio, M. U Delaware DE	
<b>IS-5027-17C</b> 4513	<b>The role and control of the RNA-dependent RNA polymerase 1 gene family in cucumber virus defense</b>	Crop Health App. Duration: 3 years
	Gal-On, A. ARO, Min. Ag.	
	Ding, S.W. UC, Riverside CA	
<b>US-5029-17</b>	<b>Systems biology approaches to dissect virus-host interactions to develop crops with broad-spectrum virus resistance</b>	Crop Health App. Duration: 3 years
	Wang, X.F. Virginia Tech VA	
	Schuldiner, M. Weizmann Inst.	
<b>IS-5033-17</b>	<b>Small molecule cocktails designed to impair virulence targets in soft rot <i>Erwinias</i></b>	Crop Health App. Duration: 3 years
	Yedidia, I. ARO, Min. Ag.	
	Charkowski, A.O. Colorado St. U CO	
	Senderowitz, H. Bar Ilan U	
<b>IS-5038-17C</b> 4864	<b>Postharvest sweetening of potato seed tubers and effects on their yield performance</b>	Food Product App. Duration: 3 years
	Eshel, D. ARO, Min. Ag.	
	Jiang, J. Michigan St. U MI	

<b>IS-5040-17</b>	<b>Microbial networks on harvested apples and the design of antagonistic consortia to control postharvest pathogens</b>	Food Product App. Duration: 3 years
	Droby, S.                      ARO, Min. Ag.	
	Wisniewski, M.E.            USDA, ARS	WV
	Freilich, S.                    ARO, Min. Ag.	
	Norelli, J.L.                  USDA, ARS	WV
	Faigenboim, A.                ARO, Min. Ag.	
<b>IS-5042-17C</b> 4773	<b>Mechanisms governing the global regulation of mycotoxin production and pathogenicity by <i>Penicillium expansum</i> in postharvest fruits</b>	Food Product App. Duration: 3 years
	Sionov, E.                      ARO, Min. Ag.	
	Keller, N.P.                    U Wisconsin	WI
	* Barad-Kotler, S.              ARO, Min. Ag.	
<b>US-5046-17R</b> 4966	<b>Metabolic network approaches for deciphering microbial functions in amendment-based solutions for soil-borne disease suppression</b>	Environ/Water/Ren. Res. App. Duration: 3 years
	Mazzola, M.                    USDA, ARS	WA
	* Freilich, S.                    ARO, Min. Ag.	
	* Doron-Faigenboim, A.        ARO, Min. Ag.	
<b>US-5051-17</b>	<b>Energy, nutrient and water recovery from dairy waste</b>	Environ/Water/Ren. Res. App. Duration: 3 years
	Jassby, D.                      UC, Riverside	CA
	Gross, A.                        Ben Gurion U	
	Walker, S.                        UC, Riverside	CA
	Tester, W.                        Cornell U	NY

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