

BARD Approved Projects

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2014 - 2017

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US-4689-14R 4.577	Innovative yield mapping system using hyperspectral and thermal imaging for precision tree crop management			Agricultural Innovation & Engi
			Total	305,000 3 years
	Lee, W.S.	U Florida		FL
	Alchanatis, V.	ARO, Min. Ag.		
	Levi, A.	ARO, Min. Ag.		
IS-4693-14R 4.578	The economics of crop insurance in the U.S. and Israel			Ag. Economics & Rural Devel.
			Total	275,000 3 years
	Finkelshtain, I.	Hebrew U		
	Goodwin, B.K.	N Carolina St. U		NC
	Bar-Shira, Z.	Hebrew U		
US-4700-14	Transfected <i>Babesia bovis</i> expressing the anti-tick Bm86 antigen as a vaccine to limit tick infestation and protect against virulent challenge			Animal Health
			Total	295,000 3 years
	Knowles, D.	WA State U		WA
	Leszkowicz Mazuz, M.	Isr. Vet. Inst.		
IS-4701-14R 4.590	Development of sustainable fly management tools in an era of global warming			Animal Health
			Total	220,000 3 years
	Chiel, E.	U Haifa		
	Geden, C.J.	USDA, ARS		FL
US-4704-14	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			Animal Production
			Total	320,000 3 years
	Weinberg, Z.G.	ARO, Min. Ag.		
	Adesogan, A.	U Florida		FL
	Mizrahi, I.	Ben Gurion U		
	Sela, S.	ARO, Min. Ag.		
	Jeong, K.C.	U Florida		FL
	Vyas, D.	U Florida		FL
US-4709-14	Improving oocyte competence in dairy cows exposed to heat stress			Animal Production
			Total	275,000 3 years
	Hansen, P.J.	U Florida		FL
	Roth, Z.	Hebrew U		
	Block, J.J.	U Florida		FL
US-4715-14	Photoperiod effects on milk production in goats: Are they mediated by the molecular clock in the mammary gland?			Animal Production
			Total	305,000 3 years
	Casey, T.	Purdue		IN
	Mabjeesh, S.J	Hebrew U		
	Shamay, A.	ARO, Min. Ag.		
	Plaut, K.	Purdue		IN
IS-4722-14	Evolution of resistance to mating disruption in the pink bollworm moth evidence and possible mechanism			Crop Health
			Total	290,000 3 years
	Harari, A.R.	ARO, Min. Ag.		
	Jurenka, R.A.	Iowa St. U		IA
	Rafaeli, A.	ARO, Min. Ag.		
	Soroker, V.	ARO, Min. Ag.		

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US-4725-14	Interactions between Bell pepper endornavirus and acute viruses in bell pepper and effect to the host	Crop Health
		Total 95,000 1 year
	Valverde, R.A. LSU, Ag Center LA	
	Dombrovsky, A. ARO, Min. Ag.	
	Sela, N. ARO, Min. Ag.	
IS-4727-14R 4.613	Dissecting interactions between root-knot nematode effectors and lipid signaling involved in plant defense	Crop Health
		Total 305,000 3 years
	Brown Miyara, S. ARO, Min. Ag.	
	Davis, E.L. N Carolina St. U NC	
	Elling, A. WA State U WA	
US-4734-14C 4216	Identifying pathogenic determinants of <i>Acidovorax citrulli</i> toward the control of bacterial fruit blotch of cucurbits	Crop Health
		Total 290,000 3 years
	Zhao, B. Virginia Tech VA	
	Burdman, S. Hebrew U	
	Walcott, R. U Georgia GA	
	Pupko, T. Tel Aviv U	
	Welbaum, E. Virginia Tech VA	
IS-4740-14	Agricultural exploitation of the unparalleled growth, photosynthesis and light tolerance of <i>Chlorella ohadii</i>	Crop Production
		Total 305,000 3 years
	Kaplan, A. Hebrew U	
	Grossman, A.R. Carnegie Inst. of Washington CA	
IS-4744-14CR 4137 4.625	Population genomics, linkage disequilibrium and association mapping of stripe rust resistance genes in wild emmer wheat, <i>Triticum turgidum ssp. dicoccoides</i>	Crop Production
		Total 300,000 3 years
	Sela, H. Tel Aviv U	
	Akhunov, E. Kansas St. U KS	
	Steffenson, B.J. U Minnesota MN	
IS-4745-14R 4.635	How temperature stress changes carrot flavor: Elucidating the genetic determinants of undesired taste in carrots	Crop Production
		Total 290,000 3 years
	Ibdah, M. ARO, Min. Ag.	
	Tholl, D. Virginia Tech VA	
	Simon, P.W. USDA, ARS WI	
IS-4749-14CR 4243 4.626	Controlling water use efficiency and drought tolerance through the <i>GTL1-SDD1</i> stomatal density switch	Crop Production
		Total 285,000 3 years
	Fromm, H. Tel Aviv U	
	Mickelbart, M.V. Purdue IN	
	Tadmor, Y. ARO, Min. Ag.	
	Hasegawa, P.M. Purdue IN	
IS-4752-14R 4.644	Regulation of pepper fruit color, chloroplasts development and their importance in fruit quality	Crop Production
		Total 300,000 3 years
	Paran, I. ARO, Min. Ag.	
	Van Deynze, A. UC, Davis CA	

IS-4761-14	Mining multidrug-resistant desert soil bacteria for biocontrol activity and biologically-active compounds	Environ/Water/Ren. Res.
		Total 95,000 1 year
	Cytryn, E. ARO, Min. Ag.	
	Liles, M.R. Auburn U	AL
	Frenkel, O. ARO, Min. Ag.	
IS-4764-14R 4.660	Optimization of advanced greenhouse substrates based on physicochemical characterization, numerical simulations, and tomato growth experiments	Environ/Water/Ren. Res.
		Total 305,000 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	
IS-4768-14R 4.663	Responsive, self-cleaning membranes for fouling control in advanced agricultural wastewater treatment	Environ/Water/Ren. Res.
		Total 280,000 3 years
	Ramon, G. Technion	
	Wickramasinghe, S.R. U Arkansas	AR
	Qian, X. U Arkansas	AR
US-4771-14R 4.666	Uptake of wastewater-derived micropollutants by plants irrigated with reclaimed wastewater	Environ/Water/Ren. Res.
		Total 295,000 3 years
	Pedersen, J.A. U Wisconsin	WI
	Shenker, M. Hebrew U	
	Karthikeyan, K.G. U Wisconsin	WI
	Chefetz, B. Hebrew U	
	Tarchitzky, J. Hebrew U	
	Hedman, C. U Wisconsin	WI
IS-4773-14	The global regulation of mycotoxin accumulation during pathogenicity of <i>Penicillium expansum</i> in postharvest fruits	Food Product
		Total 300,000 3 years
	Prusky, D. ARO, Min. Ag.	
	Keller, N.P. U Wisconsin	WI
	Sherman, A. ARO, Min. Ag.	
US-4774-14C 4561	Genetic and transcriptomic analysis of postharvest decay resistance in <i>Malus sieversii</i> and the characterization of pathogenicity effectors in <i>Penicillium expansum</i>	Food Product
		Total 300,000 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.	
IS-4783-14	The genetic basis for postharvest chilling tolerance in tomato fruit	Food Product
		Total 95,000 1 year
	Lers, A. ARO, Min. Ag.	
	Foolad, M.R. Penn State U	PA
	Friedman, H. ARO, Min. Ag.	

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IS-4784-14	Waste to Worth: Active antimicrobial and health-beneficial food coating from byproducts of mushroom industry		Food Product
			Total 280,000 3 years
	Poverenov, E.	ARO, Min. Ag.	
	McHugh, T.	USDA, ARS	CA
	Rodov, V.	ARO, Min. Ag.	
US-4791-15R 4.694	Development of a universal volatile compound detection technology for early recognition of pests and diseases in fruit trees		Agricultural Innovation & Engi
			Total 100,000 1 year
	Davis, C.	UC, Davis	CA
	Hetzroni, A.	ARO, Min. Ag.	
	Aksenov, A.	UC, Davis	CA
	Delwiche, M.J.	UC, Davis	CA
	Soroker, V.	ARO, Min. Ag.	
	Alchanatis, V.	ARO, Min. Ag.	
IS-4794-15R 4.707	Determination of actual polymorphisms responsible for economic trait variation in dairy cattle		Animal Production
			Total 300,000 3 years
	Weller, J.I.	ARO, Min. Ag.	
	Bickhart, D.M.	USDA, ARS	MD
	Ron, M.	ARO, Min. Ag.	
	Seroussi, E.	ARO, Min. Ag.	
	Liu, G.	USDA, ARS	MD
	Wiggans, G.R.	USDA, ARS	MD
IS-4799-15	Mechanisms involved in rescue of the corpus luteum during early pregnancy in lactating dairy cows		Animal Production
			Total 300,000 3 years
	Meidan, R.	Hebrew U	
	Wiltbank, M.C.	U Wisconsin	WI
IS-4800-15R 4.711	Optimization of tilapia nutrition by understanding the mechanistic basis of amino-acid/peptide transport in their gut		Animal Production
			Total 300,000 3 years
	Cnaani, A.	ARO, Min. Ag.	
	Kueltz, D.	UC, Davis	CA
	Harpaz, S.	ARO, Min. Ag.	
IS-4801-15C 4390	Uncovering rumen microbiome components shaping feed efficiency in dairy cows		Animal Production
			Total 290,000 3 years
	Mizrahi, I.	Ben Gurion U	
	White, B.A.	U Illinois	IL
US-4813-15C 4429	DELLA, ABA and drought tolerance in tomato		Crop Production
			Total 270,000 3 years
	Olszewski, N.E.	U Minnesota	MN
	Weiss, D.	Hebrew U	
IS-4818-15	Optimization of shoot architecture for the agricultural field		Crop Production
			Total 305,000 3 years
	Eshed, Y.	Weizmann Inst.	
	Lippman, Z.B.	Cold Spring Harbor	NY

IS-4822-15R 4.751	Elucidating the genetic pathways involved in shikimate, anthocyanin and hydrolyzable tannin accumulation in pomegranate	Amir, R. Tian, L. Holland, D. Borochoy-Neori, H.	MIGAL R&D UC, Davis ARO, Min. Ag. Southern Arava R&D	CA	Crop Production		
					Total	300,000	3 years
IS-4827-15	Mechanisms underlying root system architecture adaptation to low phosphate environment	Savaldi-Goldstein, S. Brady, S.M.	Technion UC, Davis	CA	Crop Production		
					Total	300,000	3 years
US-4828-15	What shapes the crossover landscape in maize and wheat and how can we modify it	Pawlowski, W.P. Levy, A.A.	Cornell U Weizmann Inst.	NY	Crop Production		
					Total	305,000	3 years
IS-4829-15	Introgression of stripe rust resistance genes from <i>Aegilops speltoides</i> into wheat with a novel introgression methodology	Distelfeld, A. Dvorak, J. Sela, H.	Tel Aviv U UC, Davis Tel Aviv U	CA	Crop Production		
					Total	305,000	3 years
US-4833-15C 4414	Characterization of the chorismate mutase effector (SsCm1) from <i>Sclerotinia sclerotiorum</i>	Dickman, M.B. Yarden, O.	TX AgriLife Res Hebrew U	TX	Crop Health		
					Total	275,000	3 years
US-4839-15R 4.614	The role of asymptomatic secondary hosts in the epidemiology of Verticillium wilt	Milgroom, M.G. Frenkel, O. Tsrer, L. Jimenez-Gasco, M.d.M.	Cornell U ARO, Min. Ag. ARO, Min. Ag. Penn State U	NY PA	Crop Health		
					Total	100,000	1 year
IS-4841-15	Novel strategies and methodologies to control and study <i>Candidatus Liberibacter</i> diseases	Bahar, O. De La Fuente, L. Falk, B. W. Sela, N.	ARO, Min. Ag. Auburn U UC, Davis ARO, Min. Ag.	AL CA	Crop Health		
					Total	100,000	1 year
IS-4842-15R 4.719	Proteomic investigation of a tomato receptor like protein recognizing fungal pathogens	Avni, A. Coaker, G.L.	Tel Aviv U UC, Davis	CA	Crop Health		
					Total	290,000	3 years
US-4846-15C 4505	Investigation of growth regulation by maize benzoxazinoid breakdown products	Jander, G. Chamovitz, A.D.	Boyce Thompson Tel Aviv U	NY	Crop Health		
					Total	275,000	3 years

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IS-4850-15R 4.780	Plant cell cultures for the production of health promoting metabolites		Food Product
			Total 330,000 3 years
	Oren-Shamir, M.I.	ARO, Min. Ag.	
	Sinclair, D.A.	Harvard College	MA
	Fait, A.	Ben Gurion U	
	Galili, G.	Weizmann Inst.	
	Or, E.	ARO, Min. Ag.	
IS-4851-15R 4.777	Increasing the value of mushrooms as functional foods: induction of alpha and beta glucan content via novel cultivation methods		Food Product
			Total 310,000 3 years
	Schwartz, B.	Hebrew U	
	Vetvicka, V.	U Louisville	KY
	Danai, O.	MIGAL R&D	
	Hadar, Y.	Hebrew U	
IS-4858-15	Elucidating the mechanism of pit formation in cherries for improving storage capacity		Food Product
			Total 295,000 3 years
	Friedman, H.	ARO, Min. Ag.	
	Mitcham, E.J.	UC, Davis	CA
	Sela, N.	ARO, Min. Ag.	
IS-4862-15R 4.621	Effect of plant systemic resistance and role of type III secretion system in colonization of basil and lettuce by <i>Salmonella enterica</i>		Food Product
			Total 300,000 3 years
	Manulis, S.	ARO, Min. Ag.	
	Brandl, M.T.	USDA, ARS	CA
	Barash, I.	Tel Aviv U	
	Chalupowicz, L.	ARO, Min. Ag.	
	McClelland, M.	UCA, Irvine	CA
	Bostock, R.M.	UC, Davis	CA
	Elad, Y.	ARO, Min. Ag.	
	Sessa, G.	Tel Aviv U	
IS-4864-15	Postharvest sweetening of potato seed tubers and effects on their yield performance		Food Product
			Total 100,000 1 year
	Eshel, D.	ARO, Min. Ag.	
	Jiang, J.	U Wisconsin	WI
IS-4870-15R 4.653	Phosphorus capture recycling and utilization for sustainable agriculture using Al/organic composite water treatment residuals		Environ/Water/Ren. Res.
			Total 295,000 3 years
	Litaor, M.	MIGAL R&D	
	Ippolito, J.	Colorado St. U	CO
	Zohar, I.	MIGAL R&D	
	Massey, M.S.	CA State U East Bay	CA
US-4877-15	Investigation of particulate flow behavior in a continuous, high solids, leach-bed biogasification system		Environ/Water/Ren. Res.
			Total 300,000 3 years
	Pullammanappallil, P.C.	U Florida	FL
	Kalman, H.	Ben Gurion U	
	Curtis, J.	U Florida	FL

US-4880-16	Building local brand for fresh fruits and vegetables: A strategic approach aimed at strengthening the local agricultural sector	Ag. Economics & Rural Devel.
	Just, R. Cornell U Heiman, A. Hebrew U	NY
		Total 275,000 3 years
US-4884-16	Closing the nutrient cycle through sustainable agricultural waste management	Agricultural Innovation & Engi
	Sengupta, S. U of Mass at Dartmouth Lew, B. ARO, Min. Ag. Blaney, L. UMBC	MA MD
		Total 300,000 3 years
US-4885-16	Improving sustainability of greenhouse production using semi-transparent flexible photovoltaic films	Agricultural Innovation & Engi
	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
		Total 315,000 3 years
IS-4886-16R 4.787	Development of a robotic inspection system for early identification and locating of biotic and abiotic stresses in greenhouse crops	Agricultural Innovation & Engi
	Bechar, A. ARO, Min. Ag. Nof, S.Y. Purdue Tao, Y. U Maryland	IN MD
		Total 310,000 3 years
IS-4892-16CR 4489 4.795	Genetic manipulations of MC4R for increased growth and feed efficiency in fish	Animal Production
	Gothilf, Y. Tel Aviv U Cone, R. U Michigan Levavi-Sivan, B. Hebrew U Harpaz, S. ARO, Min. Ag.	MI
		Total 290,000 3 years
IS-4899-16R 4.803	Fibroblast growth factor signaling requirements for embryonic and placental development in ruminants	Animal Production
	Gershon, E. ARO, Min. Ag. Ealy, A. Virginia Tech	VA
		Total 100,000 1 year
IS-4903-16C 4583	Diagnostics and vaccines for containment of TiLV - a novel RNA virus lethal to <i>Tilapia</i>	Animal Health
	Bacharach, E. Tel Aviv U Lipkin, W.I. Columbia U Eldar, A. Isr. Vet. Inst.	NY
		Total 265,000 3 years
IS-4905-16R 4.804	Identification of virulence-associated genes in <i>Mycobacterium avium subsp. paratuberculosis</i> by mutant-library construction	Animal Health
	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
		Total 200,000 2 years

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IS-4911-16	Characterization of genetic variation and yield heterosis in <i>Cucumis melo</i>		Crop Production
			Total 287,000 3 years
	Gur, A.	ARO, Min. Ag.	
	Buckler, E.S.	Cornell U	NY
	Burger, J.	ARO, Min. Ag.	
	Tadmor, Y.	ARO, Min. Ag.	
	Klapp, I.	ARO, Min. Ag.	
IS-4915-16R 4.814	Functional analysis of barley cysteine proteases and their role in nitrogen remobilization from senescing leaves		Crop Production
			Total 305,000 3 years
	Fluhr, R.	Weizmann Inst.	
	Fischer, A.	Montana St. U	MT
US-4916-16	Positional cloning of a rye QTL responsible for water stress resistance in wheat based on radiation mapping and comparative genomics		Crop Production
			Total 285,000 3 years
	Dubcovsky, J.	UC, Davis	CA
	Fahima, T.	U Haifa	
	Krugman, T.	U Haifa	
	Howell, T.	UC, Davis	CA
US-4918-16CR 4423 4.743	Characterization of the <i>Or</i> regulatory network for carotenoid biofortification in food crops - phase II		Crop Production
			Total 275,000 3 years
	Li, L.	USDA, ARS	NY
	Tadmor, Y.	ARO, Min. Ag.	
	Burger, J.	ARO, Min. Ag.	
	Portnoy, V.	ARO, Min. Ag.	
	Schaffer, A.	ARO, Min. Ag.	
	Fei, Z.	Boyce Thompson	NY
IS-4919-16R 4.760	Systematic analyses of the roles of <i>Solanum Lycopersicum</i> ABA receptors in environmental stress and development		Crop Production
			Total 300,000 3 years
	Mosquna, A.	Hebrew U	
	Cutler, S.	UC, Riverside	CA
IS-4921-16	Novel strategies to induce male sterility and restore fertility in <i>Brassicaceae</i> crops		Crop Production
			Total 100,000 1 year
	Ostersetzer-Biran, O.	Hebrew U	
	Mower, J.	U Nebraska	NE
IS-4926-16R 4.811	Understanding the molecular basis of carotenoid synthesis and accumulation in stone fruits: A platform to enhance fruit value		Crop Production
			Total 300,000 3 years
	Isaacson, Tal	ARO, Min. Ag.	
	Gasic, K.	Clemson U	SC
	Bielenberg, D.G.	Clemson U	SC
	Lewinsohn, E.	ARO, Min. Ag.	
	Holland, D.	ARO, Min. Ag.	
IS-4929-16R 4.824	Drought adaptation mechanisms in pine hybrids		Crop Production
			Total 98,000 1 year
	David-Schwartz, R.	ARO, Min. Ag.	
	Neale, D.B.	UC, Davis	CA

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IS-4931-16C 4510	The role of FLS3 and BSK830 in pattern-triggered immunity in tomato		Crop Health
	Sessa, G.	Tel Aviv U	Total 280,000 3 years
	Martin, G.B.	Boyce Thompson	NY
IS-4932-16	Fungal-specific histone deacetylase inhibitors, novel players in combating pathogenic fungi		Crop Health
	Covo, S.	Hebrew U	Total 305,000 3 years
	Ma, L.J.	U Mass	MA
IS-4937-16	Molecular dissection of host and pathogen factors in <i>Botrytis cinerea</i> pathogenesis for improved genetic resistance		Crop Health
	Sharon, A.	Tel Aviv U	Total 305,000 3 years
	Mengiste, T.D.	Purdue	IN
US-4947-16R 4.838	Basil gene pool enrichment for <i>Downy Mildew</i> resistance and QTL development using genotyping by sequencing		Crop Health
	Simon, J.E.	Rutgers	Total 295,000 3 years
	Cohen, Y.	Bar Ilan U	NJ
IS-4953-16	The molecular mechanism for the <i>Tomato yellow leaf curl virus</i> resistance at the ty-5 locus		Crop Health
	Lapidot, M.	ARO, Min. Ag.	Total 295,000 3 years
	Citovsky, V.	NYSU, Stony Brook	NY
IS-4957-16R 4.855	How berry enlargement practices affect the flavor of grapes		Food Product
	Lichter, A.	ARO, Min. Ag.	Total 300,000 3 years
	Ebeler, S.E.	UC, Davis	CA
	Lewinsohn, E.	ARO, Min. Ag.	
IS-4960-16R 4.843	The potential use of a highly-stable lactonase from hyperthermophilic archaea for disruption of quorum sensing in soft rot <i>Pectobacteria</i>		Food Product
	Helman, Y.	Hebrew U	Total 100,000 1 year
	Elias, M.	U Minnesota	MN
	Aksan, A.	U Minnesota	MN
US-4962-16R 4.854	Developing advanced chemical and computational methods for assessing organoleptic properties of olive oil		Food Product
	Wang, S.C.	UC, Davis	Total 305,000 3 years
	Benjamin, O.	Tel Hai College	CA
	Dag, A.	ARO, Min. Ag.	
	Tagkopoulos, I.	UC, Davis	CA
IS-4964-16R 4.868	DOM affected behavior of manufactured nanoparticles in soil-plant system		Environ/Water/Ren. Res.
	Chefetz, B.	Hebrew U	Total 310,000 3 years
	Xing, B.	U Mass	MA
	Eshed-Williams, L.	Hebrew U	
	Polubesova, T.	Hebrew U	
	Unrine, J.M.	U Kentucky	KY

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IS-4977-16R 4.874	Nanocomposite hydrogel membranes for fouling mitigation in wastewater reclamation for agricultural production	Bernstein, R. Elimelech, M. Chen, K.L.	Ben Gurion U Yale Johns Hopkins U	CT MD	Environ/Water/Ren. Res.
					Total
IS-4982-16	Development of heat-pulse sensors for measuring fluxes of water and solutes under the root zone	Kamai, T. Kluitenberg, G. J. Ben-Gal, A.	ARO, Min. Ag. Kansas St. U ARO, Min. Ag.	KS	Environ/Water/Ren. Res.
					Total
US-4986-17	Assessing the economics of processed natural resources - the case of seaweed	Zilberman, D. Palatnik, R. Golberg, A.	UC, Berkeley Yezreel Valley College Tel Aviv U	CA	Ag. Economics & Rural Devel.
					Total
US-4991-17	Using remote sensing to develop dynamic irrigation management zones	Snider, J.L. Cohen, Y. Vellidis, G. Saranga, Y. Porter, M. Perry, C. Liakos, V. Rud, R. Shaked, B. Rosenfeld, L.	U Georgia ARO, Min. Ag. U Georgia Hebrew U U Georgia U Georgia U Georgia ARO, Min. Ag. ARO, Min. Ag. ARO, Min. Ag.	GA GA GA GA GA GA GA	Agricultural Innovation & Engi
					Total
IS-4995-17R 4.981	Use of plant based biofilters to create sustainable mariculture systems	Guttman, L. Main, K. L. Brennan, N. Tarnecki, A. Shpigel, M.	Isr. Ocean. Res. Mote Mote Mote Isr. Ocean. Res.	FL FL FL	Animal Production
					Total
US-4997-17	Genetic analyses of recombination and PRDM9 alleles and their implications in dairy cattle breeding	Liu, G. Seroussi, E. Ma, L.	USDA, ARS ARO, Min. Ag. U Maryland	MD MD	Animal Production
					Total
US-5000-17R 4.897	Genotypes and phenotypes of telomere length in Holstein cattle: Actors or reporters	Dechow, C.D. Shabtay, A. Tzfati, Y. Ott, T. Soller, M. Liu, W. Cohen-Zinder, M. Lipkin, E.	Penn State U ARO, Min. Ag. Hebrew U Penn State U Hebrew U Penn State U ARO, Min. Ag. Hebrew U	PA PA PA	Animal Production
					Total

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IS-5001-17C 4576	A proteomics and transcriptomics study into Myxozoan parasite infection mechanisms	Animal Health	
		Total	290,000 3 years
	Lotan, T.	U Haifa	
	Atkinson, S.	Oregon St. U	OR
	Bartholomew, J.	Oregon St. U	OR
IS-5005-17R 4.904	Novel vaccination strategies to combat chicken arthritis/tenosynovitis reoviruses in US and Israel	Animal Health	
		Total	310,000 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
US-5009-17	Cucumis fruit surface biology: Genetic analysis of fruit exocarp features in melon (<i>C. melo</i>) and cucumber (<i>C. sativus</i>)	Crop Production	
		Total	310,000 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.	
IS-5010-17	Improving fleshy fruit set by dissecting the AGL6 regulatory pathway	Crop Production	
		Total	310,000 3 years
	Arazi, T.	ARO, Min. Ag.	
	Grotewold, E.	Michigan St. U	MI
IS-5020-17	The molecular dissection of the crop maturation trait in peanut	Crop Production	
		Total	310,000 3 years
	Hovav, R.	ARO, Min. Ag.	
	Ozias-Akins, P.	U Georgia	GA
IS-5023-17C 4734	Bacterial fruit blotch: Elucidating the mechanisms of fruit infection by <i>Acidovorax citrulli</i>	Crop Health	
		Total	290,000 3 years
	Burdman, S.	Hebrew U	
	Walcott, R.	U Georgia	GA
	Zhao, B.	Virginia Tech	VA
	Welbaum, E	Virginia Tech	VA
IS-5024-17R 4.944	Identifying unique and overlapping roles of reactive oxygen species in rice blast and Southern corn leaf blight	Crop Health	
		Total	310,000 3 years
	Horwitz, B.	Technion	
	Donofrio, M.	U Delaware	DE
IS-5027-17C 4513	The role and control of the RNA-dependent RNA polymerase 1 gene family in cucumber virus defense	Crop Health	
		Total	290,000 3 years
	Gal-On, A.	ARO, Min. Ag.	
	Ding, S.W.	UC, Riverside	CA

**BARD Approved Projects
2014 - 2017**

22/04/2018

US-5029-17	Systems biology approaches to dissect virus-host interactions to develop crops with broad-spectrum virus resistance		Crop Health
			Total 310,000 3 years
	Wang, X.F.	Virginia Tech	VA
	Schuldiner, M.	Weizmann Inst.	
IS-5033-17	Small molecule cocktails designed to impair virulence targets in soft rot Erwinias		Crop Health
			Total 309,000 3 years
	Yedidia, I.	ARO, Min. Ag.	
	Charkowski, A.O.	Colorado St. U	CO
	Senderowitz, H.	Bar Ilan U	
IS-5038-17C 4864	Postharvest sweetening of potato seed tubers and effects on their yield performance		Food Product
			Total 310,000 3 years
	Eshel, D.	ARO, Min. Ag.	
	Jiang, J.	Michigan St. U	MI
IS-5040-17	Microbial networks on harvested apples and the design of antagonistic consortia to control postharvest pathogens		Food Product
			Total 310,000 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.	
IS-5042-17C 4773	Mechanisms governing the global regulation of mycotoxin production and pathogenicity by <i>Penicillium expansum</i> in postharvest fruits		Food Product
			Total 290,000 3 years
	Sionov, E.	ARO, Min. Ag.	
	Keller, N.P.	U Wisconsin	WI
	Barad-Kotler, S.	ARO, Min. Ag.	
US-5046-17R 4,966	Metabolic network approaches for deciphering microbial functions in amendment-based solutions for soil-borne disease suppression		Environ/Water/Ren. Res.
			Total 310,000 3 years
	Mazzola, M.	USDA, ARS	WA
	Freilich, S.	ARO, Min. Ag.	
	Faigenboim, A.	ARO, Min. Ag.	
US-5051-17	Energy, nutrient and water recovery from dairy waste		Environ/Water/Ren. Res.
			Total 304,000 3 years
	Jassby, D.	UCA, Los Angeles	CA
	Gross, A.	Ben Gurion U	
	Walker, S.	UC, Riverside	CA
	Tester, W.	Cornell U	NY