

**BARD Approved Projects
Award Year 2016**

18/05/2016

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. App. Duration: 3 years
	Just, R. Cornell U Heiman, A. Hebrew U	NY
US-4884-16	Closing the nutrient cycle through sustainable agricultural waste management	Agricultural Innovation & Engi App. Duration: 3 years
	Sengupta, S. U of Mass at Dartmouth Lew, B. ARO, Min. Ag. Blaney, L. UMBC	MA MD
US-4885-16	Improving sustainability of greenhouse production using semi-transparent flexible photovoltaic films	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
IS-4886-16R 4787	Development of a robotic inspection system for early identification and locating of biotic and abiotic stresses in greenhouse crops	Agricultural Innovation & Engi App. Duration: 3 years
	Bechar, A. ARO, Min. Ag. Nof, S.Y. Purdue Tao, Y. U Maryland	IN MD
IS-4892-16CR 4489 4795	Genetic manipulations of MC4R for increased growth and feed efficiency in fish	Animal Production App. Duration: 3 years
	Gothilf, Y. Tel Aviv U Cone, R. Vanderbilt U. Levavi-Sivan, B. Hebrew U Harpaz, S. ARO, Min. Ag.	TN
IS-4899-16R 4803	Fibroblast growth factor signaling requirements for embryonic and placental development in ruminants	Animal Production App. Duration: 1 year
	* Gershon, E. ARO, Min. Ag. Ealy, A. Virginia Tech	VA
IS-4903-16C 4583	Diagnostics and vaccines for containment of TiLV - a novel RNA virus lethal to <i>Tilapia</i>	Animal Health App. Duration: 3 years
	Bacharach, E. Tel Aviv U Lipkin, W.I. Columbia U Eldar, A. Isr. Vet. Inst.	NY
IS-4905-16R 4804	Identification of virulence-associated genes in <i>Mycobacterium avium subsp. paratuberculosis</i> by mutant-library construction	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

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IS-4911-16	Characterization of genetic variation and yield heterosis in <i>Cucumis melo</i>	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
IS-4915-16R	Functional analysis of barley cysteine proteases and their role in nitrogen remobilization from senescing leaves	Crop Production App. Duration: 3 years
4814	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 App. Duration: 3 years
	Dubcovsky, J. UC, Davis Fahima, T. U Haifa Krugman, T. U Haifa * Howell, T. UC, Davis	CA CA
US-4918-16CR	Characterization of the <i>Or</i> regulatory network for carotenoid biofortification in food crops - phase II	Crop Production App. Duration: 3 years
4423 4743	Li, L. USDA, ARS Tadmor, Y. ARO, Min. Ag. Burger, J. ARO, Min. Ag. Portnoy, V. ARO, Min. Ag. Schaffer, A.A. ARO, Min. Ag. Fei, Z. Boyce Thompson	NY NY
IS-4919-16R	Systematic analyses of the roles of <i>Solanum Lycopersicum</i> ABA receptors in environmental stress and development	Crop Production App. Duration: 3 years
4760	* Mosquna, A. Hebrew U Cutler, S. UC, Riverside	CA
IS-4921-16F	Novel strategies to induce male sterility and restore fertility in <i>Brassicaceae</i> crops	Crop Production App. Duration: 1 year
	Ostersetzer-Biran, O. Hebrew U Mower, J. U Nebraska	NE
IS-4926-16R	Understanding the molecular basis of carotenoid synthesis and accumulation in stone fruits: A platform to enhance fruit value	Crop Production App. Duration: 3 years
4811	* Isaacson, Tal ARO, Min. Ag. Gasic, K. Clemson U Bielenberg, D.G. Clemson U Lewinsohn, E. ARO, Min. Ag. Holland, D. ARO, Min. Ag.	SC SC
IS-4929-16FR	Drought adaptation mechanisms in pine hybrids	Crop Production App. Duration: 1 year
4824	* 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 Sessa, G. Martin, G.B.	Tel Aviv U Boyce Thompson	NY	Crop Health App. Duration: 3 years
IS-4932-16	Fungal-specific histone deacetylase inhibitors, novel players in combating pathogenic fungi * Covo, S. Ma, L.J.	Hebrew U U Mass	MA	Crop Health App. Duration: 3 years
IS-4937-16	Molecular dissection of host and pathogen factors in <i>Botrytis cinerea</i> pathogenesis for improved genetic resistance Sharon, A. Mengiste, T.D.	Tel Aviv U Purdue	IN	Crop Health App. Duration: 3 years
US-4947-16R 4838	Basil gene pool enrichment for <i>Downy Mildew</i> resistance and QTL development using genotyping by sequencing Simon, J.E. Cohen, Y.	Rutgers Bar Ilan U	NJ	Crop Health App. Duration: 3 years
IS-4953-16	The molecular mechanism for the <i>Tomato yellow leaf curl virus</i> resistance at the ty-5 locus Lapidot, M. Citovsky, V.	ARO, Min. Ag. NYSU, Stony Brook	NY	Crop Health App. Duration: 3 years
IS-4957-16R 4855	How berry enlargement practices affect the flavor of grapes Lichter, A. Ebeler, S.E. Lewinsohn, E.	ARO, Min. Ag. UC, Davis ARO, Min. Ag.	CA	Food Product App. Duration: 3 years
IS-4960-16FR 4843	The potential use of a highly-stable lactonase from hyperthermophilic archaea for disruption of quorum sensing in soft rot <i>Pectobacteria</i> Helman, Y. * Elias, M. Aksan, A.	Hebrew U U Minnesota U Minnesota	MN MN	Food Product App. Duration: 1 year
US-4962-16R 4854	Developing advanced chemical and computational methods for assessing organoleptic properties of olive oil * Wang, S.C. * Benjamin, O. Dag, A. Tagkopoulos, I.	UC, Davis Tel Hai College ARO, Min. Ag. UC, Davis	CA CA CA	Food Product App. Duration: 3 years
IS-4964-16R 4868	DOM affected behavior of manufactured nanoparticles in soil-plant system Chefetz, B. Xing, B. * Eshed-Williams, L. Polubesova, T. * Unrine, J.M.	Hebrew U U Mass Hebrew U Hebrew U U Kentucky	MA KY	Environ/Water/Ren. Res. App. Duration: 3 years

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IS-4977-16R	Nanocomposite hydrogel membranes for fouling mitigation in wastewater reclamation for agricultural production	Environ/Water/Res. Res.
4874		App. Duration: 3 years
* Bernstein, R.	Ben Gurion U	
Chen, K.L.	Johns Hopkins U	MD
IS-4982-16F	Development of heat-pulse sensors for measuring fluxes of water and solutes under the root zone	Environ/Water/Res. Res.
		App. Duration: 1 year
* Kamai, T.	ARO, Min. Ag.	
Kluitenberg, G. J.	Kansas St. U	KS
Ben-Gal, A.	ARO, Min. Ag.	

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