

**BARD Approved Projects
Award Year 2011**

06/06/2011

IS-4374-11C 3861	Micrometeorological methods for inferring whole canopy evapotranspiration in large agricultural structures: measurements and modeling Tanny, J. ARO, Min. Ag. Katul, G. Duke U Cohen, S. ARO, Min. Ag. Teitel, M. ARO, Min. Ag.	Ag Innov. & Eng. Tech. App. Duration: 3 years NC
US-4378-11	Brucella second messenger coordinates stages of infection Splitter, G.A. U Wisconsin Banai, M. Isr. Vet. Inst. Harms, J.S. U Wisconsin	Animal Health App. Duration: 3 years WI WI
US-4379-11	Antigenic cartography of H9 avian influenza virus and its application to vaccine selection Spackman, E. USDA, ARS Davidson, I. Isr. Vet. Inst.	Animal Health App. Duration: 3 years GA
IS-4380-11C 4185	An investigation of the role of bacterial symbionts in regulating the biology and vector competence of Culicoides vectors of animal viruses * Gottlieb, Y. Hebrew U Mullens, B. UC, Riverside Stouthamer, R. UC, Riverside	Animal Health App. Duration: 3 years CA CA
IS-4390-11	Exploring the role of the rumen microbiota in determining the feed efficiency of dairy cows * Mizrahi, I. ARO, Min. Ag. White, B.A. U Illinois	Animal Production App. Duration: 3 years IL
IS-4394-11R 4293	Optimization of methodology for genomic selection of moderate and large dairy cattle populations Weller, J.I. ARO, Min. Ag. Misztal, I. U Georgia Ron, M. ARO, Min. Ag.	Animal Production App. Duration: 3 years GA
IS-4403-11C 4047	Clavibacter michiganensis subsp. michiganensis-tomato interactions: expression and function of virulence factors, plant defense responses and pathogen movement Manulis, S. ARO, Min. Ag. Smart, C.D. Cornell U Barash, I. Tel Aviv U Chalupowicz, L. Tel Aviv U Sessa, G. Tel Aviv U Burr, T.J. Cornell U	Crop Health App. Duration: 3 years NY NY
IS-4409-11R 4315	Fine mapping, functional analysis and pyramiding of genes controlling begomovirus resistance in tomato Levin, I. ARO, Min. Ag. Scott, J.W. U Florida Lapidot, M. ARO, Min. Ag. Reuveni, M. ARO, Min. Ag.	Crop Health App. Duration: 3 years FL

US-4410-11C 4048	Optimization and field-testing of synthetic sex attractants for two psyllid pests of pears (<i>Hemiptera: Psyllidae</i>) Horton, D.R. USDA, ARS Soroker, V. ARO, Min. Ag. Landolt, P.J. USDA, ARS Millar, J. UC, Riverside	Crop Health App. Duration: 3 years WA WA CA
US-4414-11C 4041	Genetic and chemical intervention in ROS signaling pathways affecting development and pathogenicity of <i>Sclerotinia sclerotiorum</i> Dickman, M.B. TX AgriLife Res Yarden, O. Hebrew U	Crop Health App. Duration: 3 years TX
IS-4418-11R 4316	Functional genomics of reproduction and division of labor in a key non-<i>Apis</i> pollinator Bloch, G. Hebrew U Robinson, G.E. U Illinois Band, M. U Illinois	Crop Health App. Duration: 3 years IL IL
US-4423-11	Characterization of the <i>Or</i> regulatory network in melon for carotenoid biofortification in food crops Li, L. USDA, ARS Burger, Y. ARO, Min. Ag. Katzir, N. ARO, Min. Ag. Tadmor, Y. ARO, Min. Ag. Schaffer, A.A. ARO, Min. Ag. Fei, Z. Boyce Thompson	Crop Production App. Duration: 3 years NY NY
IS-4427-11C 3870	Winter chickpea; towards a new winter pulse for the semiarid Pacific Northwest and wider adaptation in the Mediterranean basin Abbo, S. Hebrew U Zhang, H. Texas A&M Coyne, C. USDA, ARS Sherman, A. ARO, Min. Ag. Shtienberg, D. ARO, Min. Ag. Vandemark, G.J. USDA, ARS	Crop Production App. Duration: 3 years TX WA WA
IS-4428-11F	Wild wheat: a genetic resource for wheat breeding * Distelfeld, A. Tel Aviv U Dvorak, J. UC, Davis Steffenson, B.J. U Minnesota	Crop Production App. Duration: 1 year CA MN
IS-4429-11C 3896	Gibberellin signaling in tomato: a possible DELLA-independent response pathway Weiss, D. Hebrew U Olszewski, N.E. U Minnesota	Crop Production App. Duration: 3 years MN
US-4443-11	New factors and approaches for in vitro reconstitution of higher plant Rubisco Stern, D.B. Boyce Thompson Schuster, G. Technion Azem, A. Tel Aviv U	Crop Production App. Duration: 3 years NY

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IS-4447-11F	Efficient allele mining in a model sequenced crop via the compressed sequencing approach * Shental, N. Open U Xin, Z. USDA, ARS * Erlich, Y. Whitehead Inst. Fridman, E. Hebrew U	Crop Production App. Duration: 1 year TX MA
US-4453-11	Development of near zero-discharge land-based recirculated mariculture systems: recycling solid waste for bioenergy Sowers, K. UMBC Gross, A. Ben Gurion U Ronen, R. Ben Gurion U Zilberg, D. Ben Gurion U Mozes, N. Fisheries and Aquaculture Department	Environ/Water/Res. Res. App. Duration: 3 years MD
US-4455-11	Desalination of brackish water for agricultural application via novel bio-electrochemical approaches * He, Z. U Wisconsin-Milwaukee Dosoretz, C.G. Technion Semiat, R. Technion	Environ/Water/Res. Res. App. Duration: 3 years WI
US-4465-11	Novel streaming potential and thermal sensor techniques for monitoring water and nutrient fluxes in the vadose zone Jones, S.B. Utah St U Friedman, S.P. ARO, Min. Ag. Communar, G. ARO, Min. Ag.	Environ/Water/Res. Res. App. Duration: 3 years UT
IS-4469-11R 4367	Mechanisms activated by fungal-based host pH modulators during quiescent infections and active postharvest disease development Prusky, D. ARO, Min. Ag. Mengiste, T.D. Purdue Fluhr, R. Weizmann Inst.	Food Product App. Duration: 3 years IN
US-4471-11F	Antimicrobial and antioxidant functionalized nanoparticles for enhancing food safety and quality: proof of concept * Choudhary, R. So Illin U Rodov, V. ARO, Min. Ag. Kohli, P. So Illin U Haddock, J. So Illin U Droby, S. ARO, Min. Ag.	Food Product App. Duration: 1 year IL IL IL
IS-4473-11	The therapeutic potential of a desert plant and its active compounds for Alzheimer`s Disease * Elmann, A. ARO, Min. Ag. Lazarov, O. U Illinois Kashman, J. Tel Aviv U Ofir, R. Tamar Regional Council	Food Product App. Duration: 3 years IL

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IS-4476-11	The role of potassium in quality of grapes after harvest	Food Product
		App. Duration: 3 years
	Lichter, A.	ARO, Min. Ag.
	Smilanick, J.L.	USDA, ARS CA
	Obenland, D.	USDA, ARS CA
	Bernstein, N.	ARO, Min. Ag.
	Hashim, J.	UC, Davis CA

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