

**BARD Approved Projects
Award Year 2009**

25/05/2009

IS-4185-09	Might Bacterial Symbionts Influence Vectorial Capacity of Biting Midges for Ruminant Viruses?	Animal Health App. Duration: 1 year
	Gottlieb, Y. Hebrew U Mullens, B. UC, Riverside	CA
US-4187-09C 3315	Control of Bovine Anaplasmosis: Protective Capacity of the MSP2 Allelic Repertoire	Animal Health App. Duration: 3 years
	Brayton, K. WA State U Shkap, V. Isr. Vet. Inst. Palmer, G.H. WA State U Brown, W.C. WA State U Molad, T. Isr. Vet. Inst.	WA WA WA
US-4190-09R 8717	Development of Fish Edible Vaccines on the Yeast and Redmicroalgae Platforms	Animal Health App. Duration: 3 years
	Vakharia, V.N. UMD Marine BioTech Arad, S. Ben Gurion U Zohar, Y. UMD Marine BioTech Weinstein, Y. Ben Gurion U Abramovitch-Gottlib, L. Ben Gurion U	MD MD
IS-4192-09	Development of a Plasmid-Based Reverse Genetics System for the Bluetongue and Epizootic Hemorrhagic Disease Viruses to Allow a Comparative Characterization of the Function of the NS3 Viroprotein in Viral Egress	Animal Health App. Duration: 3 years
	Ehrlich, M. Tel Aviv U Parker, J.S.L. Cornell U Dermody, T.S. Vanderbilt U.	NY TN
IS-4198-09C 3836	Development of Strategic Pre-Natal Cycling Thermal Treatments to Improve Livability and Productivity of Heavy Broilers	Animal Production App. Duration: 3 years
	Yahav, S. ARO, Min. Ag. Brake, J.T. N Carolina St. U Meiri, N. ARO, Min. Ag.	NC
IS-4199-09R 4111	Epigenetic Adaptation: The Regulatory Mechanisms of Hypothalamic Plasticity that Determine Stress-Response Set Point	Animal Production App. Duration: 3 years
	Meiri, N. ARO, Min. Ag. Denbow, D.M. Virginia Polytech Denbow, C.J. Virginia Polytech	VA VA
IS-4201-09	Genome-Wide Association Study of Copy Number Variation and QTL for Economic Traits in Holstein Cattle	Animal Production App. Duration: 1 year
	Seroussi, E. ARO, Min. Ag. Liu, G. USDA, ARS	MD
IS-4202-09R 3858	Control of Synchronization of Puberty in the Russian Sturgeon	Animal Production App. Duration: 3 years
	Sivan, B. Hebrew U Doroshov, S.I. UC, Davis Chapman, F.A. U Florida Degani, G. MIGAL R&D Van Eenennaam, J. UC, Davis	CA FL CA

IS-4205-09C 3356	Rational Design of Insect Control Agent Prototypes Based on Pyrokinin/PBAN Neuropeptide Antagonists Altstein, M. ARO, Min. Ag. Nachman, R.J. USDA, ARS	Crop Health App. Duration: 3 years TX
IS-4210-09	IQD1 Function in Defense Responses Levy, M. Hebrew U Zielinski, R. U Illinois Reddy, A.S. Colorado St. U	Crop Health App. Duration: 3 years IL CO
IS-4211-09	Targeting of Strigolactones Associated Pathways for Conferring Orobanche Resistant Traits in Tomato and Medicago Kapulnik, Y. ARO, Min. Ag. Harrison, M.J. Boyce Thompson Koltai, H. ARO, Min. Ag. Hershenhoren, J. ARO, Min. Ag.	Crop Health App. Duration: 1 year NY
US-4216-09	Control of Bacterial Fruit Blotch of Cucurbits Using the Maize Non-Host Disease Resistance Gene Rxo1 Zhao, B. Virginia Polytech Burdman, S. Hebrew U Walcott, R. U Georgia Welbaum, G. Virginia Polytech	Crop Health App. Duration: 3 years VA GA VA
IS-4222-09C 3123	Chemical Genetics of the COP9 Signalosome: Identification of Novel Regulators of Plant Development Chamovitz, A.D. Tel Aviv U Yang, Z. UC, Riverside	Crop Production App. Duration: 1 year CA
IS-4223-09C 3877	System Approach to Understanding the Metabolic Diversity in Melon Katzir, N. ARO, Min. Ag. Giovannoni, J. Boyce Thompson Aharoni, A. Weizmann Inst. Fei, Z. Boyce Thompson Lewinsohn, E. ARO, Min. Ag. Schaffer, A.A. ARO, Min. Ag. Tadmor, Y. ARO, Min. Ag.	Crop Production App. Duration: 3 years NY NY
US-4228-09	The Role of FtsH11 Protease in Chloroplast Biogenesis and Maintenance at Elevated Temperatures in Model and Crop Plants Chen, J. USDA, ARS Adam, Z. Hebrew U Admon, A. Technion	Crop Production App. Duration: 3 years TX
IS-4229-09	Structure, Function and Utilization of Plant Photosynthetic Reaction Centers Nelson, N. Tel Aviv U Yocum, C.F. U Michigan	Crop Production App. Duration: 3 years MI
IS-4234-09	Understanding Cuticle Development in Tomato through the Study of Novel Germplasm with Malformed Cuticles Schaffer, A.A. ARO, Min. Ag. Rose, J.K. Cornell U	Crop Production App. Duration: 3 years NY

IS-4237-09C 3917	Inactivation of SGS3 as Molecular Basis for RNA Silencing Suppression by TYLCV V2 Gafni, Y. Citovsky, V.	ARO, Min. Ag. NYSU, Stony Brook	NY	Crop Production App. Duration: 3 years
IS-4243-09R 4146	Calcium-regulated Transcription Factors Mediating Carbon Metabolism in Response to Drought Fromm, H. Hasegawa, P.M. Fait, A.	Tel Aviv U Purdue Ben Gurion U	IN	Crop Production App. Duration: 3 years
IS-4245-09	Type IV Secretion System of <i>Agrobacterium tumefaciens</i>: Components and Structures Elbaum, M. Christie, P.J.	Weizmann Inst. U Texas, Houston	TX	Crop Production App. Duration: 3 years
IS-4246-09	Precise Mapping of Growth Hormone Effects by Cell-Specific Gene Activation Response Savaldi-Goldstein, S. Mockler, T.	Technion Oregon St. U	OR	Crop Production App. Duration: 3 years
IS-4248-09R 4068	The Role of Cysteine Partitioning into Glutathione and Methionine Synthesis During Normal and Stress Conditions Amir, R. Oliver, D.J. Galili, G. Shanks, J.V.	MIGAL R&D Iowa St. U Weizmann Inst. Iowa St. U	IA IA	Crop Production App. Duration: 3 years
IS-4249-09	Exploring General and Specific Regulators of Phase Transitions for Crop Improvement Eshed, Y. Hake, S.	Weizmann Inst. USDA, ARS	CA	Crop Production App. Duration: 3 years
IS-4255-09	Fusion of Hyper-Spectral and Thermal Images for Evaluating Nitrogen and Water Status in Potato Fields for Variable Rate Application Cohen, Y. Rosen, C.J. Alchanatis, V. Mulla, D.J. Heuer, B. Dar, Z.	ARO, Min. Ag. U Minnesota ARO, Min. Ag. U Minnesota ARO, Min. Ag. Isr. Min. Agr.	MN MN	Ag Innovation & Eng App. Duration: 3 years
US-4262-09	Separating Components of Evapotranspiration to Improve Efficiency in Vineyard Water Management Heitman, J.L. Ben-Gal, A. Sauer, T. Agam, N. Havlin, J.	N Carolina St. U ARO, Min. Ag. USDA, ARS ARO, Min. Ag. N Carolina St. U	NC MD NC	Environment/Water App. Duration: 3 years
US-4264-09	Shaping Plant Beneficial Rhizosphere Communities Crowley, D.E. Minz, D. Hadar, Y.	UC, Riverside ARO, Min. Ag. Hebrew U	CA	Environment/Water App. Duration: 3 years

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US-4266-09R	The Effect of Combined Solarization and in Solum	Environment/Water
4085	Compost Decomposition on Soil Health	App. Duration: 3 years
	VanderGheynst, J.S. UC, Davis	CA
	Raviv, M. ARO, Min. Ag.	
	Stapleton, J.J. UCA, Kearney Ag Center	CA
	Minz, D. ARO, Min. Ag.	
IS-4267-09	Desiccation Tolerance in Salmonella and its Implications	Food Product
		App. Duration: 3 years
	Sela, S. ARO, Min. Ag.	
	McClelland, M. SKC Research Inst	CA
IS-4268-09	The Role of Reactive Oxygen Species (ROS) in	Food Product
	Tritrophic Interactions in Postharvest Biocontrol	App. Duration: 3 years
	Systems	
	Droby, S. ARO, Min. Ag.	
	Wisniewski, M.E. USDA, ARS	WV
	Porat, R. ARO, Min. Ag.	
	Macarasin, D. USDA, ARS	WV
US-4273-09	Ultra-Fast Methods and Instrumentation for the Analysis	Food Product
	of Hazardous Chemicals in the Food Supply	App. Duration: 3 years
	Lehotay, S.J. USDA, ARS	PA
	Amirav, A. Tel Aviv U	