

**BARD Approved Projects
Award Year 2008**

03/06/2008

IS-4080-08R	Physiological and Biochemical Characterization of the Effects of Oxidant Air Pollutants, Ozone and Gas-phase Nitric Acid, on Plants and Lichens for their Use as Early Warning Biomonitors of these Air Pollutants	Ag. & the Environment App. Duration: 1 year
3954	Hochman, A. Tel Aviv U Nash III, H Arizona St. U Padgett, E. Nat'l Forest Service	AZ DC
IS-4090-08R	Development of Predictive Tools for Contaminant Transport through Variably-Saturated Heterogeneous Composite Porous Formations	Ag. & the Environment App. Duration: 3 years
3957	Russo, D. ARO, Min. Ag. Tartakovsky, D.M. UC, San Diego Neuman, S.P. U Arizona	CA AZ
US-4096-08	The Use of Branding and Sampling in Agricultural Fresh Produce	Ag. Economics & Rural Devel. App. Duration: 3 years
	Zilberman, D. UC, Berkeley Heiman, A. Hebrew U Jin, Y. TX AgriLife Res	CA TX
IS-4100-08C	Characterization and Control Strategies of Low Pathogenic Avian Influenza Virus H9N2	Animal Health App. Duration: 3 years
3679	Perk, S. Isr. Vet. Inst. Mundt, E. U Georgia Panshin, A. Isr. Vet. Inst. Davidson, I. Isr. Vet. Inst. Golander, N. Isr. Vet. Inst. Nagar, S. Isr. Vet. Inst. Garcia, M. U Georgia	GA GA
IS-4105-08	Exploration of the Epidemiology of a Newly Emerging Cattle-Epizootic Hemorrhagic Disease Virus in Israel	Animal Health App. Duration: 3 years
	Klement, E. Hebrew U Howerth, E. U Georgia Wilson, W.C. USDA, ARS Stallknecht, D. U Georgia Mead, D. U Georgia Yadin, H. Isr. Vet. Inst. Lensky, I. Bar Ilan U Galon, N. Haklait	GA WY GA GA
IS-4106-08R	Genomic and Organismal Studies to Elucidate the Mechanisms of Infectivity of Entomopathogenic Fungi to Ticks	Animal Health App. Duration: 3 years
3982	Samish, M. Isr. Vet. Inst. Churchill, A.C.L. Cornell U Glazer, I. ARO, Min. Ag. Gindin, G. ARO, Min. Ag.	NY
US-4113-08	Nutrition of the Developing Chick Embryo: Nutrient Uptake Systems of the Yolk Sac Membrane and Embryonic Intestine	Animal Production App. Duration: 3 years
	Wong, E.A. Virginia Polytech Uni, Z. Hebrew U	VA

US-4117-08R 3993	Development and Use of Leptin Receptor Antagonists to Increase Appetite and Adaptive Metabolism in Ruminants Boisclair, Y. R. Gertler, A.	Cornell U Hebrew U	NY	Animal Production App. Duration: 3 years
IS-4122-08R 4001	Enhanced Climate Control of Semi-arid and Arid Greenhouses Equipped with Fogging Systems Linker, R. Giacomelli, G.A. Arbel, A. Kubota, C.	Technion U Arizona ARO, Min. Ag. U Arizona	AZ AZ	Bioengineering & Sensors App. Duration: 3 years
IS-4125-08C 3332	The Molecular and Biochemical Basis of Terpenoid Aroma Formation in Tomato Lewinsohn, E. Dudareva, N. Sitrit, Y. Pichersky, E.	ARO, Min. Ag. Purdue Ben Gurion U U Michigan	IN MI	Field Crops & Hort. App. Duration: 3 years
US-4128-08	Genetic Linkage Mapping of Basil (<i>Ocimum basilicum</i>) Belanger, F.C. Dudai, N. Katzir, N. Simon, J.E.	Rutgers ARO, Min. Ag. ARO, Min. Ag. Rutgers	NJ NJ	Field Crops & Hort. App. Duration: 1 year
IS-4134-08R 4019	Identification and Allelic Variation of Genes Involved in the Potato Glycoalkaloid Biosynthetic Pathway Ginzberg, I. Veilleux, R.E. Tokuhisa, J.	ARO, Min. Ag. Virginia Polytech Virginia Polytech	VA VA	Field Crops & Hort. App. Duration: 3 years
IS-4137-08	Population Genomics and Association Mapping of Disease Resistance Genes in Israeli Populations of Wild Relatives of Wheat, <i>Triticum dicoccoides</i> and <i>Aegilops speltoides</i> Breiman, A. Dvorak, J. Korol, A.B. Akhunov, E.	Tel Aviv U UC, Davis U Haifa Kansas St. U	CA KS	Field Crops & Hort. App. Duration: 3 years
IS-4140-08C 3453	The Role of GOBLET and Auxin in Controlling Organ Development and Patterning Ori, N. Estelle, M.	Hebrew U Indiana U	IN	Model System & Funct. Biol. App. Duration: 3 years
IS-4141-08	A Novel Lectin Controls Wound-responses in Arabidopsis Fluhr, R. Bar-Peled, M.	Weizmann Inst. U Georgia	GA	Model System & Funct. Biol. App. Duration: 3 years

IS-4143-08R 4028	Studying the Involvement of the Linker Protein CWLP and its Homologue in Cytoskeleton-plasma Membrane-cell Wall Continuum and in Drought Tolerance	Model System & Funct. Biol. App. Duration: 3 years
	Zilberstein, A. Tel Aviv U Liu, B. UC, Davis Sadot, E. ARO, Min. Ag.	CA
US-4150-08	Controlling Early Stages of DNA Repair for Gene-targeting Enhancement in Plants	Model System & Funct. Biol. App. Duration: 3 years
	Tzfira, T. U Michigan Levy, A.A. Weizmann Inst.	MI
IS-4152-08C 3605	Integrated Studies of Chloroplast Ribonucleases	Model System & Funct. Biol. App. Duration: 3 years
	Schuster, G. Technion Stern, D.B. Boyce Thompson	NY
IS-4155-08	One Host, Two Associated Pests: Responses of Tomato Plants to Whiteflies and Broad Mites	Plant Protection App. Duration: 1 year
	Perl-Treves, R. Bar Ilan U Walling, L.L. UC, Riverside Soroker, V. ARO, Min. Ag.	CA
US-4158-08	Broad-spectrum Resistance to Root-Knot Nematodes in Transgenic Cucurbits	Plant Protection App. Duration: 3 years
	Davis, E.L. N Carolina St. U Zelcer, A. ARO, Min. Ag. Gal-On, A. ARO, Min. Ag. Oka, Y. ARO, Min. Ag. Wehner, T.C. N Carolina St. U	NC NC
IS-4159-08C 3785	MAP Kinase Cascades Activated by SIMAPKKKε and their Involvement in Tomato Resistance to Bacterial Pathogens	Plant Protection App. Duration: 3 years
	Sessa, G. Tel Aviv U Martin, G.B. Boyce Thompson	NY
IS-4163-08C 3634	Molecular Characterization of PBAN G-protein Coupled Receptors in Moth Pest Species: Design of Antagonists	Plant Protection App. Duration: 3 years
	Rafaeli, A. ARO, Min. Ag. Jurenka, R.A. Iowa St. U	IA
US-4165-08C 3623	Post-transcriptional Regulation of Host Genes Involved with Symptom Expression in Potyviral Infections	Plant Protection App. Duration: 3 years
	Whitham, S.A. Iowa St. U Gal-On, A. ARO, Min. Ag. Gaba, V.P. ARO, Min. Ag.	IA
IS-4167-08C 3793	Fungal Iron Acquisition, Oxidative Stress and Virulence in the Cochliobolus-maize Interaction	Plant Protection App. Duration: 3 years
	Horwitz, B.A. Technion Turgeon, B.G. Cornell U	NY

IS-4169-08R	Identifying <i>Arabidopsis thaliana</i> Defense Genes to Phloem-feeding Insects	Plant Protection App. Duration: 3 years
4058	Morin, S. Hebrew U Walker, G.P. UC, Riverside Walling, L.L. UC, Riverside Aharoni, A. Weizmann Inst.	CA CA
IS-4179-08R	Study of the Physiological, Molecular and Genetic Factors Associated with Postharvest Water Loss in Pepper Fruit	Postharvest App. Duration: 3 years
4071	Fallik, E. ARO, Min. Ag. Jenks, M.A. Purdue Paran, I. ARO, Min. Ag.	IN
IS-4180-08	Analysis of Small RNAs Associated with Plant Senescence	Postharvest App. Duration: 3 years
	Lers, A. ARO, Min. Ag. Green, P.J. U Delaware	DE
IS-4181-08	Application of Pre-storage Short Anaerobiosis to Alleviate Superficial Scald and Bitter Pit in Granny Smith Apples	Postharvest App. Duration: 3 years
	Pesis, E. ARO, Min. Ag. Mitcham, E.J. UC, Davis Ebeler, S.E. UC, Davis Lers, A. ARO, Min. Ag.	CA CA