

**BARD Approved Projects
1997 - 2007**

03/06/2008

IS-2676-97	Etiology of the Rugose Wood Disease of Grapevine and Molecular Study of the Associated Trichoviruses	Plant Protection
		App. Duration: 3 years
Gafny, R.	ARO, Min. Ag.	
Rao, A.L.N.	UC, Riverside	CA
Tanne, E.	ARO, Min. Ag.	
IS-2679-97	Extracellular Matrix Molecules of the Eggshell as Related to Eggshell Quality	Animal Production
		App. Duration: 3 years
Pines, M.	ARO, Min. Ag.	
Bar, A.	ARO, Min. Ag.	
Carrino, D.A.	Case Western	OH
Caplan, A.I.	Case Western	OH
Dennis, J.E.	Case Western	OH
IS-2680-97	On-line Fault Detection and Diagnosis for Greenhouse Environmental Control	Bioengineering & Sensors
		App. Duration: 3 years
Seginer, I.	Technion	
Albright, L.D.	Cornell U	NY
Langhans, R.W.	Cornell U	NY
IS-2684-97R	Lek Behavior of Mediterranean Fruit Flies: An Experimental Analysis	Plant Protection
²⁵⁶⁷		App. Duration: 3 years
Yuval, B.	Hebrew U	
Shelly, T.E.	U Hawaii	HI
IS-2686-97C	Regulation of Avocado Resistance to Postharvest Pathogens by Modulation of the Biosynthesis of Antifungal Compounds	Postharvest
¹⁹⁶⁰		App. Duration: 3 years
Prusky, D.B.	ARO, Min. Ag.	
Keen, N.T.	UC, Riverside	CA
Browse, J.	WA State U	WA
Leikin-Frenkel, A.I.	ARO, Min. Ag.	
IS-2703-97	Role of Membranes Thermobehavior in Chilling Injury of Bovine Oocyte as an Important Step Toward Cryobanking of Female Genome	Animal Production
		App. Duration: 3 years
Arav, A.	ARO, Min. Ag.	
Crowe, J.H.	UC, Davis	CA
Borochov, A.	Hebrew U	
IS-2707-97R	Molecular Interactions between Herpes and Retroviruses in Dually Infected Chickens and Turkeys	Animal Health
²⁵³⁴		App. Duration: 3 years
Davidson, I.	Isr. Vet. Inst.	
Kung, H.J.	Case Western	OH
Witter, R.L.	USDA, ARS	MI
IS-2708-97	Map Merging and Homology Studies in Cucumis Species	Field Crops & Hort.
		App. Duration: 3 years
Katzir, N.	ARO, Min. Ag.	
Perl-Treves, R.	Bar Ilan U	
Staub, J.E.	USDA, ARS	WI
McCreight, J.D.	USDA, ARS	CA
IS-2709-97	Biotechnology of Tomato Volatiles for Flavor Improvement	Model System & Funct. Biol.
		App. Duration: 3 years
Lewinsohn, E.	ARO, Min. Ag.	
Pichersky, E.	U Michigan	MI
Gepstein, S.	Technion	

BARD Approved Projects 1997 - 2007

2

03/06/2008

IS-2710-97	The Physiological Bases for Impaired Photosynthetic Performance of Chilling-Sensitive Fruit Trees	Field Crops & Hort.
	Shahak, Y. ARO, Min. Ag.	App. Duration: 3 years
	Ort, D.R. USDA, ARS	IL
IS-2711-97C 2346	The Role of Defective RNAs in Citrus Tristeza Virus Diseases	Plant Protection App. Duration: 3 years
	Bar-Joseph, M. ARO, Min. Ag.	
	Dawson, W.O. U Florida	FL
	Mawassi, M. ARO, Min. Ag.	
	Lee, R.F. U Florida	FL
	Karasev, A.V. U Florida	FL
	Garnsey, S.M. USDA, ARS	FL
	Hilf, M.E. USDA, ARS	FL
US-2720-97CR 1894 2544	Functional Analysis of Root-Knot Nematode Surface Coat Proteins to Develop Rational Targets for Plantibodies	Plant Protection App. Duration: 3 years
	McClure, M.A. U Arizona	AZ
	Spiegel, Y. ARO, Min. Ag.	
	Bird, D.M. N Carolina St. U	NC
	Sharon, E. ARO, Min. Ag.	
IS-2726-97	Endoreduplication in Maize Endosperm: An Approach for Increasing Crop Productivity	Field Crops & Hort. App. Duration: 3 years
	Grafi, G. Weizmann Inst.	
	Larkins, B. U Arizona	AZ
IS-2727-97R 2553	Streptococcus iniae Infections in Trout and Tilapia: Host-Pathogen Interactions, the Immune Response Towards the Pathogen and Vaccine Formulation	Aquaculture App. Duration: 3 years
	Eldar, A. Isr. Vet. Inst.	
	Evans, D.L. U Georgia	GA
US-2736-97	An Integrated Approach to Evaluating Inherited Predictors of Resistance to Pulmonary Hypertension Syndrome (Ascites) in Fast Growing Broiler Chickens	Animal Production App. Duration: 3 years
	Wideman, R.F. U Arkansas	AR
	Anthony, N.B. U Arkansas	AR
	Cahaner, A. Hebrew U	
	Shlosberg, A. Isr. Vet. Inst.	
	Bellaiche, M. Isr. Vet. Inst.	
	Roush, W.B. Penn State U	PA
US-2743-97CR 2132 2670	Regulation of Arabidopsis Glutamate Decarboxylase in Response to Heat Stress: Modulation of Enzyme Activity and Gene Expression	Model System & Funct. Biol. App. Duration: 3 years
	Locy, R.D. Auburn U	AL
	Fromm, H. Weizmann Inst.	
	Cherry, J.H. Auburn U	AL
	Singh, N.K. Auburn U	AL
US-2746-97	Manipulation of Gene Expression in the Chloroplast: Molecular Genetic Analysis of mRNA Degradation	Model System & Funct. Biol. App. Duration: 3 years
	Stern, D.B. Boyce Thompson	
	Schuster, G. Technion	NY

**BARD Approved Projects
1997 - 2007**

3

03/06/2008

IS-2747-97	Control of Fertilization-Independent Development by the FIE2 Gene	Model System & Funct. Biol.	
	App. Duration: 3 years		
	Ohad, N. Fischer, R.L.	Tel Aviv U UC, Berkeley CA	
IS-2758-97R	The Use of Composted Waste Materials for Enhanced Ca Migration and Exchange in Sodic Soils and Acidic Minespoils	Ag. & the Environment	
2669	App. Duration: 3 years		
	Avnimelech, Y. Stehouwer, R.C. Chorover, J.	Technion Penn State U Penn State U PA PA	
US-2759-97	Use of Anti-Fungal Gene Synergisms for Improved Foliar and Fruit Disease Tolerance in Transgenic Grapes	Field Crops & Hort.	
	App. Duration: 3 years		
	Reisch, B.I. Kikkert, J.R. Perl, A. Ben-Arie, R. Gollop, R.	Cornell U Cornell U ARO, Min. Ag. ARO, Min. Ag. ARO, Min. Ag. NY NY	
IS-2760-97	Genetic Transformation of Flowering Bulb Crops for Virus Resistance	Plant Protection	
	App. Duration: 3 years		
	Gera, A. Watad, A.A. Zeidan, M. Hsu, H-T. Kamo, K.K. Ueng, P.P.	ARO, Min. Ag. ARO, Min. Ag. ARO, Min. Ag. USDA, ARS USDA, ARS USDA, ARS MD MD MD	
IS-2762-97	Farmers' Time Allocation Decisions in Different Institutional Environments: A Household Perspective	Ag. Economics & Rural Devel.	
	App. Duration: 3 years		
	Kimhi, A. Chalfant, J.A. Sumner, D.A.	Cent Ag Econ Re UC, Davis UC, Davis CA CA	
IS-2767-97	Prediction of Nitrogen Stress Using Reflectance Techniques	Bioengineering & Sensors	
	App. Duration: 3 years		
	Alchanatis, V. Searcy, S.W. Meron, M.	ARO, Min. Ag. Texas A&M MIGAL R&D TX	
IS-2769-97CR	The GH-IGF Axis in Sparus aurata: Possible Applications to Genetic Selection	Aquaculture	
1973	2570	App. Duration: 3 years	
	Funkenstein, B. Duan, C.	Isr. Ocean. Res. U Michigan MI	
IS-2775-97R	Morphogenesis and Light Signal Transduction in Plants: The p71 Subunit of the COP9-Complex and its Possible Role in Regulating Nuclear Transport	Model System & Funct. Biol.	
2548	App. Duration: 3 years		
	Chaimovitz, A.D. Deng, X-W	Tel Aviv U Yale CT	
US-2781-97	Characterization of <i>B. Melinensis</i> REV 1 Attenuated Mutants	Animal Health	
	App. Duration: 3 years		
	Ficht, T.A. Splitter, G.A. Banai, M. Davidson, M.	Texas A&M U Wisconsin Isr. Vet. Inst. Isr. Vet. Inst. TX WI	

**BARD Approved Projects
1997 - 2007**

03/06/2008

US-2783-97	Molecular-Based Analysis of Cellulose Binding Proteins Involved with Adherence to Cellulose by Ruminococcus albus	Animal Production
		App. Duration: 3 years
	Morrison, M. Miron, J.	Ohio St. U ARO, Min. Ag.
		OH
US-2786-97R <small>2663</small>	Controlling Ethylene Responses in Horticultural Crops at the Receptor Level	Field Crops & Hort.
		App. Duration: 3 years
	Sisler, E.C. Goren, R. Apelbaum, A.	N Carolina St. U Hebrew U Hebrew U
		NC
IS-2793-97	Interactions of Cloud Proteins, Pectins and Pectinesterases in Flocculation of Citrus Cloud	Postharvest
		App. Duration: 3 years
	Shomer, I. Wicker, L. Merin, U. Kerr, W.L.	ARO, Min. Ag. U Georgia ARO, Min. Ag. U Georgia
		GA
		GA
US-2794-97	Characterization of Post-Tillage Soil Fragmentation and Rejoining Affecting Soil Pore Space Evolution and Transport Properties	Ag. & the Environment
		App. Duration: 3 years
	Snyder, V.A. Or, D. Hadas, A.	U Puerto Rico Utah St U ARO, Min. Ag.
		PR
		UT
US-2799-97C <small>2238</small>	Control of Bovine Anaplasmosis: Cytokine Enhancement of Vaccine Efficacy	Animal Health
		App. Duration: 3 years
	Palmer, G.H. Shkap, V. Brown, W.C. Knowles, Jr., D. P. Pipano, E.	WA State U Isr. Vet. Inst. WA State U USDA, ARS Isr. Vet. Inst.
		WA
		WA
		WA
US-2805-97	Improving Methionine Content in Transgenic Forage Legumes	Field Crops & Hort.
		App. Duration: 3 years
	Sengupta-Gopalan, C. Galili, S. Amir, R.	N Mexico St. U ARO, Min. Ag. MIGAL R&D
		NM
IS-2806-97CR <small>2162 2481</small>	Molecular Tagging of Drought Resistance in Wheat: Osmotic Adjustment and Plant Productivity	Field Crops & Hort.
		App. Duration: 3 years
	Blum, A. Nguyen, H.T.	ARO, Min. Ag. Texas Tech
		TX
US-2809-97R <small>2593</small>	Interploid Hybridization of Cucumis melo and C. metuliferus	Field Crops & Hort.
		App. Duration: 2 years
	Adelberg, J. Skorupska, H. Rhodes, W.B. Cohen, Y. Perl-Treves, R.	Clemson U Clemson U Clemson U Bar Ilan U Bar Ilan U
		SC
		SC
		SC
US-2814-97	Regulation of Early Events in Hyphal Elongation, Branching and Differentiation of Filamentous Fungi	Plant Protection
		App. Duration: 3 years
	Dickman, M.B. Yarden, O.	U Nebraska Hebrew U
		NE

BARD Approved Projects 1997 - 2007

5

03/06/2008

US-2816-97	The Role of Proteins Secreted by the Hrp-Pathways of <i>Erwinia stewartii</i> and <i>E. herbicola</i> pv. <i>gypsophilae</i> in Eliciting Water-Soaking Symptoms and Initiating Galls	Plant Protection App. Duration: 3 years
	Coplin, D.L. Ohio St. U Barash, I. Tel Aviv U Manulis, S. ARO, Min. Ag.	OH
IS-2824-98R 2678	Thermotolerance Acquisition in Broiler Chickens by Temperature Conditioning Early in Life	Animal Production App. Duration: 3 years
	Yahav, S. ARO, Min. Ag. McMurtry, J.P. USDA, ARS Plavnik, I. ARO, Min. Ag.	MD
IS-2825-98	Epidemiology and Etiology of <i>Colletotrichum</i> Species Causing Strawberry Diseases	Plant Protection App. Duration: 3 years
	Freeman, S. ARO, Min. Ag. Legard, D.E. U Florida	FL
IS-2835-98R 2690	Modifying Solar Radiation to Increase Water Use Efficiency, Yield and Fruit Quality in Citrus	Ag. & the Environment App. Duration: 3 years
	Cohen, S. ARO, Min. Ag. Moreshet, S. ARO, Min. Ag. Goldschmidt, E.E. Hebrew U Syvertsen, J.P. U Florida	FL
IS-2837-98	Manipulation of GA Levels and GA Signal Transduction in Anthers to Generate Male Sterility	Field Crops & Hort. App. Duration: 3 years
	Weiss, D. Hebrew U Borochov, A. Hebrew U Olszewski, N.E. U Minnesota	MN
IS-2839-98	Geometrical Considerations and Interfacial Processes Affecting Electromagnetic Measurement of Soil Water Content by TDR and Remote Sensing Methods	Ag. & the Environment App. Duration: 3 years
	Friedman, S.P. ARO, Min. Ag. Wraith, J.M. Montana St. U Or, D. Utah St U	MT UT
US-2846-98	Temperature Stress and Turkey Reproduction	Animal Production App. Duration: 3 years
	El Halawani, M.E. U Minnesota Rozenboim, I. Hebrew U	MN
IS-2851-98R 2810	Study and Manipulation of the Flavanoid Biosynthetic Pathway in Citrus for Flavor Engineering and Seedless Fruit	Field Crops & Hort. App. Duration: 3 years
	Eyal, Y. ARO, Min. Ag. Moore, G.A. U Florida Lewinsohn, E. ARO, Min. Ag.	FL
US-2855-98	Parasitoid Movement between Habitats and Biological Control of Aphid Pests	Plant Protection App. Duration: 3 years
	Hopper, K.R. USDA, ARS Coll, M. Hebrew U	DE

**BARD Approved Projects
1997 - 2007**

6

03/06/2008

US-2858-98R	A Molecular Approach for Improving the Stability of Insecticidal Nematodes	Plant Protection
2753	Gaugler, R. Rutgers Glazer, I. ARO, Min. Ag. Segal, D. Tel Aviv U Hashmi, S. Rutgers	NJ
		NJ
IS-2859-98	Characterization of Preferential Flow in Spatially Variable Unsaturated Field Soils	Ag. & the Environment
	Russo, D. ARO, Min. Ag. Jury, W.A. UC, Riverside	App. Duration: 3 years
		CA
US-2870-98	Suppression of Potyvirus Infection by a Closterovirus Protein	Plant Protection
2748	Dolja, V.V. Oregon St. U Gal-On, A. ARO, Min. Ag. Gaba, V.P. ARO, Min. Ag.	App. Duration: 3 years
		OR
US-2874-98R	Discovery and Transfer of Genes from Wild Zea Germplasm to Improve Grain Oil and Protein Composition of Temperate Maize	Field Crops & Hort.
2748	Smith, M.E. Cornell U Katzir, N. ARO, Min. Ag. McCouch, S. Cornell U Tadmor, Y. ARO, Min. Ag.	App. Duration: 3 years
		NY
		NY
US-2880-98C	Enhancing Crop Yield through Colonization of the Rhizosphere with Beneficial Microbes	Field Crops & Hort.
2325	Harman, G.E. Cornell U Chet, I. Hebrew U	App. Duration: 3 years
		NY
IS-2887-98R	Estimation of Energy Expenditure of Free Living and Growing Domesticated Ruminants by Heart Rate Measurement	Animal Production
2730	Brosh, A. ARO, Min. Ag. Robertshaw, D. Cornell U Aharoni, Y. ARO, Min. Ag. Holzer, Z. ARO, Min. Ag. Gutman, M. ARO, Min. Ag. Arieli, A. Hebrew U	App. Duration: 3 years
		NY
IS-2894-98	Regulation of Senescence by Sugar Metabolism	Model System & Funct. Biol.
	Granot, D. ARO, Min. Ag. Amasino, R.M. U Wisconsin	App. Duration: 3 years
		WI
IS-2901-98C	Interacting Domains of Anti-Insect Scorpion Toxins and their Sodium Channel Binding Sites: Structure, Cooperative Interactions with Agrochemicals, and Application	Plant Protection
2486	Gurevitz, M. Tel Aviv U Adams, M.E. UC, Riverside	App. Duration: 3 years
		CA

BARD Approved Projects
1997 - 2007

7

03/06/2008

US-2912-98C 2495	Tospoviruses Infecting Bulb Crops: Evolution, Diversity, Vector Specificity and Control	Plant Protection App. Duration: 3 years
	Ullman, D.E. UC, Davis Moyer, J.W. N Carolina St. U Raccah, B. ARO, Min. Ag. Gera, A. ARO, Min. Ag. Klein, M. ARO, Min. Ag. Cohen, J. ARO, Min. Ag.	CA NC
US-2913-98	Vaccine Development for Bovine Neosporosis: Identification of T-Cell Antigens	Animal Health App. Duration: 3 years
	Baszler, T.V. WA State U Pipano, E. Isr. Vet. Inst. Brown, W.C. WA State U Palmer, G.H. WA State U Shkap, V. Isr. Vet. Inst. Perl, S.A. Isr. Vet. Inst.	WA WA WA
US-2914-98	Characterization of Unidentified Potent Flavor Changes during Processing and Storage of Orange and Grapefruit Juices	Postharvest App. Duration: 3 years
	Rousseff, R.L. U Florida Naim, M. Hebrew U	FL
US-2921-98R 2784	Management Strategies to Maximize Skeletal Growth Rate in Dairy Heifers	Animal Production App. Duration: 3 years
	Erdman, R.A. U Maryland Dahl, G.E. U Maryland Barash, H. ARO, Min. Ag. Bruckental, I. ARO, Min. Ag. Shamay, A. ARO, Min. Ag. Capuco, A.V. USDA, ARS	MD MD MD
US-2926-98	Enhancement of Essential Amino Acids in Cereal Seeds: Four Approaches to Increased Lysine Content	Field Crops & Hort. App. Duration: 3 years
	Anderson, O.D. USDA, ARS Galili, G. Weizmann Inst. Blechl, A.E. USDA, ARS	CA CA
US-2944-98	The Role of the Newly Identified Stunting Syndrome Virus in the Enteric Disease Complex of Turkeys	Animal Health App. Duration: 1 year
	Reynolds, D.L. Iowa St. U Weisman, Y. Isr. Vet. Inst. Moon, H.W. Iowa St. U Sell, J.L. Iowa St. U Malkinson, M. Isr. Vet. Inst.	IA IA IA
US-2945-98	Precision Cropping by Remotely Sensed Prorotype Plots and Calibration in the Complex Domain	Bioengineering & Sensors App. Duration: 3 years
	Anderson, G. L. USDA, ARS Peleg, K. Technion	TX
US-2948-98	Nonhomologous DNA End-Joining in Plants: Genes and Mechanisms	Model System & Funct. Biol. App. Duration: 3 years
	Weil, C. F. U Idaho Britt, A. UC, Davis Levy, A.A. Weizmann Inst.	ID CA

BARD Approved Projects 1997 - 2007

8

03/06/2008

IS-2949-98R	Physiological Regulation of Root System Architecture: The Role of Ethylene and Phosphorus	Field Crops & Hort.
2761	Eshel, A. Tel Aviv U Lynch, J. Penn State U Brown, K. Penn State U	PA PA
US-2954-98	Developmental and Evaluation of Advanced Expression Vectors with Both Enhanced Integration and Stable Expression for Transgenic Farmed Fish	Aquaculture
	Liu, J.Z. Auburn U Dunham, A. Auburn U Moav, B. Tel Aviv U	AL AL
US-2960-98	Pectin Cross-Linking Dynamics and Wall Softening during Fruit Ripening	Postharvest
	Carpita, N.C. Purdue Ben-Arie, R. ARO, Min. Ag. Lers, A. ARO, Min. Ag.	IN
US-2962-98	Cryopreservation of Penaeid Shrimp Embryos: Development of a Germplasm Cryo-Bank for Preservation of High Health and Genetically Improved Stocks	Aquaculture
	Browdy, C.L. SC Natr'l Res. Lubzens, E. Isr. Ocean. Res.	SC
US-2964-98	Molecular Genetic Analysis of Flowering in Arabidopsis and Tomato	Model System & Funct. Biol.
	Wagner, D.R. U Oregon Lifschitz, E. Technion Kay, S.A. Scripps Researc	OR CA
US-2968-99C 2138	Attenuated <i>Brucella melitensis</i> Rough Rev 1 Vaccine	Animal Health
	Splitter, G.A. U Wisconsin Banai, M. Isr. Vet. Inst.	WI
US-2969-99CR 2247 2841	Viral and Host Cell Determinants of Nuclear Import and Export of the Tomato Yellow Leaf Curl Virus in Tomato Plants	Model System & Funct. Biol.
	Citovsky, V. NYU, Stony Brook Gafni, Y. ARO, Min. Ag.	NY
IS-2971-99	Genes Controlling Calcium-Enhanced Tolerance to Salinity in Plants	Model System & Funct. Biol.
	Danon, A. Weizmann Inst. Zhu, J.K. U Arizona	AZ
IS-2972-99	Identification of Citrus Fruit-Specific and Pathogen-Induced Promoters and Their Use in Molecular Engineering	Field Crops & Hort.
	Porat, R. ARO, Min. Ag. Holland, D. ARO, Min. Ag. Walling, L.L. UC, Riverside	CA

IS-2978-99R	Isolation, Purification and Sequence Determination of Pheromonotropic-Receptors	Plant Protection
2963	Rafaeli, A. ARO, Min. Ag. Jurenka, R.A. Iowa St. U Segal, D. Tel Aviv U	IA
IS-2979-99	Expression of E.T.E.C. Enterotoxin in Tomato Fruit and Development of a Prototype Transgenic Tomato for Dissemination as an Oral Vaccine in Developing Countries	Field Crops & Hort.
	Friedmann, M. ARO, Min. Ag. Arntzen, C.J. Boyce Thompson Mason, H. S. Boyce Thompson	NY
IS-2980-99	Identification of Impact Aroma Compounds in Tomato: Implications to New Hybrids with Improved Acceptance through Sensory, Chemical, Breeding and Agrotechnical Techniques	Field Crops & Hort.
	Naim, M. Hebrew U Takeoka, G.R. USDA, ARS Rabinowitch, H.D. Hebrew U Buttery, R.G. USDA, ARS	CA
IS-2982-99C 2399	The LX Senescence-Induced Ribonuclease in Tomato: Function and Regulation	Field Crops & Hort.
	Lers, A. ARO, Min. Ag. Keegstra, K. Michigan St. U Green, P.J. Michigan St. U	MI
US-2996-99	Vector Specificity in Potyvirus Transmission: Role of the Helper Component	Plant Protection
	Pirone, T.P. U Kentucky Raccah, B. ARO, Min. Ag. Chejanovsky, N. ARO, Min. Ag.	KY
IS-2999-99	Isolation of Baculoviruses with Expanded Spectrum of Action against Lepidopteran Pests	Plant Protection
	Chejanovsky, N. ARO, Min. Ag. Thiem, S.M. Michigan St. U	MI
IS-3000-99R 2898	Regulation of LH Secretion in the Periovulatory Period as a Strategy to Enhance Ovarian Function and Fertility in Dairy and Beef Cows	Animal Production
	Wolfenson, D. Hebrew U Thatcher, W.W. U Florida Meidan, R. Hebrew U Kinder, J. E. Ohio St. U	FL OH
IS-3008-99	The Epidemiology of Avian Leukosis Virus-subtype J Infection in Broiler Breeder Flocks of Poultry and its Eradication from Pedigree Breeding Stock	Animal Health
	Malkinson, M. Isr. Vet. Inst. Davidson, I. Isr. Vet. Inst. Kotler, M. Hebrew U Witter, R.L. USDA, ARS	MI

BARD Approved Projects
1997 - 2007

10

03/06/2008

IS-3009-99C 2427	Fine Mapping and Genetic Interactions of Nearly-Isogenic Allelic Series Representing Yield and Quality QTLs Derived from Wild Tomato Species	Field Crops & Hort. App. Duration: 3 years
	Zamir, D. Hebrew U Tanksley, S.D. Cornell U	NY
IS-3021-99CR 2317 2934	Molecular Genetic Dissection of Complex Immunocompetence Traits in Broilers	Animal Production App. Duration: 3 years
	Cahaner, A. Hebrew U Lamont, S.J. Iowa St. U Heller, E.D. Hebrew U Hillel, J. Hebrew U	IA
IS-3022-99	Fast Analysis of Pesticide Residues in Agricultural Products	Postharvest App. Duration: 3 years
	Amirav, A. Tel Aviv U Lehotay, S.J. USDA, ARS	MD
IS-3024-99	The Use of Bee-Borne Attractants for Pollination of Nonrewarding Flowers: Model System of Male-Sterile Tomato Flowers	Plant Protection App. Duration: 3 years
	Hefetz, A. Tel Aviv U Schmidt, J.O. USDA, ARS Buchmann, S.L. USDA, ARS	AZ AZ
US-3030-99	Importance of Endobiotics in Defense against Protozoan Ectoparasites of Fish	Aquaculture App. Duration: 3 years
	Noga, E.J. N Carolina St. U Colorni, A. Isr. Ocean. Res. Levy, M.G. N Carolina St. U Avtalion, R.R. Bar Ilan U	NC NC
US-3033-99	The Role of Proteases in Regulating Gene Expression and Assembly Processes in the Chloroplast	Model System & Funct. Biol. App. Duration: 3 years
	Barkan, A. U Oregon Adam, Z. Hebrew U	OR
US-3034-99R 2951	Genomics Tools for Legume Agronomic Gene Mapping and Cloning, and Genome Analysis: Chickpea as a Model	Field Crops & Hort. App. Duration: 3 years
	Zhang, H. Texas A&M Bonfil, D.J. ARO, Min. Ag. Abbo, S. Hebrew U	TX
US-3038-99R 2881	Regulation and Action of Leptin in Pregnant and Lactating Dairy Cows.	Animal Production App. Duration: 1 year
	Boisclair, Y. R. Cornell U Bell, A. W. Cornell U Shamay, A. ARO, Min. Ag.	NY NY
US-3039-99	Redox Climate in Quiescence and Pathogenicity of Postharvest Fungal Pathogens	Postharvest App. Duration: 3 years
	Bostock, R.M. UC, Davis Prusky, D.B. ARO, Min. Ag. Dickman, M.B. U Nebraska	CA NE

**BARD Approved Projects
1997 - 2007**

03/06/2008

IS-3048-99	A Novel Approach to Parasitic Weed Control Based on Inducible Expression of Cecropin in Transgenic Plants	Plant Protection
		App. Duration: 3 years
	Aly, R. ARO, Min. Ag.	
	Westwood, J.H. Virginia Polytech	VA
	Cramer, C.L. Virginia Polytech	VA
US-3065-99R	Modeling Plant Response to Deficit Irrigation with Saline Water: Separating the Effects of Water and Salt Stress in the Root Uptake Function	Ag. & the Environment
2942		App. Duration: 3 years
	Dudley, L.M. Utah St U	UT
	Shani, U. Hebrew U	
	Shenker, M. Hebrew U	
US-3067-99	The Economics of Marketing and Diffusion of Agricultural Inputs	Ag. Economics & Rural Devel.
		App. Duration: 3 years
	Zilberman, D. UC, Berkeley	CA
	Heiman, A. Hebrew U	
US-3068-99	Identification of Avian Infectious Bronchitis Virus Variant Serotypes and Subtypes by PCR Product Cycle Sequencing for the Rational Selection of Effective Vaccines	Animal Health
		App. Duration: 3 years
	Gelb, Jr., J. U Delaware	DE
	Weisman, Y. Isr. Vet. Inst.	
	Ladman, B.S. U Delaware	DE
	Meir, R. Isr. Vet. Inst.	
IS-3093-00	Enhancement of Meat Production by Monochromatic Light Stimuli During Embryogenesis: Effect on Muscle Development & Post-Hatch Growth	Animal Production
		App. Duration: 3 years
	Halevy, O. Hebrew U	
	Reuveni, Z. U Washington	WA
	Rozenboim, I. Hebrew U	
US-3094-00CR	Phosphorylative Transduction of Developmental and Pathogenicity-Related Cues in Sclerotinia Sclerotiorum	Plant Protection
2232	2970	App. Duration: 3 years
	Dickman, M.B. U Nebraska	NE
	Yarden, O. Hebrew U	
IS-3103-00CR	Determination of Allele Frequencies for Quantitative Trait Loci in Commercial Animal Populations	Animal Production
2383	2984	App. Duration: 3 years
	Weller, J.I. ARO, Min. Ag.	
	Ron, M. ARO, Min. Ag.	
	Lewin, H.A. U Illinois	IL
IS-3105-00	Translational Mechanisms that Govern Milk Protein Levels and Composition	Animal Production
		App. Duration: 3 years
	Barash, I. ARO, Min. Ag.	
	Rhoads, R.E. LSU Health Sciences Center	LA
US-3106-00C	Molecular Analysis of Cellulosome Organization in Ruminococcus Albus and Fibrobacter Intestinalis for Optimization of Fiber Digestibility in Ruminants	Animal Production
2783		App. Duration: 3 years
	Morrison, M. Ohio St. U	OH
	Miron, J. ARO, Min. Ag.	
	Bayer, E.A. Weizmann Inst.	

BARD Approved Projects 1997 - 2007

12

03/06/2008

US-3108-00	Microbial Communities Active in Soil-Induced Systemic Plant Disease Resistance	Plant Protection
	Michel Jr., F.C. Ohio St. U OH	
	Hoitink, H.A.J. Ohio St. U OH	
	Hadar, Y. Hebrew U	
	Minz, D. ARO, Min. Ag.	
IS-3109-00	The Rugose Wood Disease of Grapevine, Etiology and Virus Resistance in Transgenic Vines	Plant Protection
	Mawassi, M. ARO, Min. Ag.	
	Rowhani, A. UC, Davis CA	
	Golino, D.A. UC, Davis CA	
	Perl, A. ARO, Min. Ag.	
	Tanne, E. ARO, Min. Ag.	
	Gafny, R. ARO, Min. Ag.	
IS-3110-00CR 2664 3077	Breed Improvement of Tilapia: Selective Breeding for Cold Tolerance and for Growth Rate in Fresh and Saline Water	Aquaculture
	Hulata, G. ARO, Min. Ag.	
	Gall, G.A.E. UC, Davis CA	
IS-3111-00	Developing Remote Sensing Based-Techniques for the Evaluation of Soil Infiltration Rate and Surface Roughness	Ag. & the Environment
	Agassi, M.A. Isr. Min. Agr.	
	Singer, J. UC, Davis CA	
	Ben-Dor, E. Tel Aviv U	
	Goldshleger, N. Isr. Min. Agr.	
	Rundquist, D.C. U Nebraska NE	
	Blumberg, D. G. Ben Gurion U	
	Benyaminini, Y. Isr. Min. Agr.	
IS-3115-00	The Development of Sodium Alginate Encapsulation of Diatom Concentrates as a Nutrient Delivery System to Enhance Growth and Survival of Post-Larvae Abalone	Aquaculture
	Shpigel, M. Isr. Ocean. Res.	
	Place, A.R. U Maryland MD	
	Koven, W. Isr. Ocean. Res.	
	Zmora, O. Isr. Ocean. Res.	
	Harpaz, S. ARO, Min. Ag.	
	Harel, M. UMD Marine BioTech MD	
IS-3117-00R 3004	Enhancement of Postharvest Biocontrol Activity of the Yeast <i>Candida oleophila</i> by Overexpression of Lytic Enzymes	Postharvest
	Droby, S. ARO, Min. Ag.	
	Goldway, M. MIGAL R&D	
	Wisniewski, M.E. USDA, ARS WV	
	Janisiewicz, W.J. USDA, ARS WV	
	Wilson, C.L. USDA, ARS WV	
IS-3120-00R 3057	The Role of Binding to the Root Surface and Electrostatic Attraction in the Uptake of Heavy Metal by Plants	Ag. & the Environment
	Yermiyahu, U ARO, Min. Ag.	
	Kinraide, T.B. USDA, ARS WV	
	Mingelgrin, U. ARO, Min. Ag.	

IS-3123-00C 2775	<p>Developmental Regulation and Light Signal Transduction in Plants: The Fus5 Subunit of the Cop9 Signalosome</p> <p>Chaimovitz, A.D. Tel Aviv U Deng, X-W Yale</p>	<p>Model System & Funct. Biol. App. Duration: 3 years</p> <p>CT</p>
IS-3126-00	<p>Targeted Molecular Typing of Pathogenic Avian Mycoplasmas</p> <p>Levisohn, S. Isr. Vet. Inst. Garcia, M. U Georgia Yogev, D. Hebrew U Kleven, S.H. U Georgia</p>	<p>Animal Health App. Duration: 3 years</p> <p>GA GA</p>
US-3132-00	<p>Enhancing Quality Attributes of Potato and Tomato by Modifying and Controlling their Oxidative Stress Outcome</p> <p>Handa, A.K. Purdue Eshdat, Y. ARO, Min. Ag. Perl, A. ARO, Min. Ag. Watkins, B.A. Purdue Holland, D. ARO, Min. Ag. Levy, D. ARO, Min. Ag.</p>	<p>Field Crops & Hort. App. Duration: 3 years</p> <p>IN IN</p>
IS-3133-00C 2434	<p>Inhibition of the Gravitropic Shoot Bending in Stored Cut Flowers Through Control of Their Graviperception: Involvement of the Cytoskeleton and Cytosolic Calcium</p> <p>Philosoph-Hadas, S. ARO, Min. Ag. Kaufman, P.B. U Michigan Meir, S. ARO, Min. Ag. Halevy, A.H. Hebrew U</p>	<p>Postharvest App. Duration: 3 years</p> <p>MI</p>
IS-3134-00R 3003	<p>Roles of Endothelin 1 and Tumor Necrosis Factor-A in Determining Responsiveness of the Bovine Corpus Luteum to Prostaglandin F2a</p> <p>Meidan, R. Hebrew U Pate, J.L. Ohio St. U</p>	<p>Animal Production App. Duration: 3 years</p> <p>OH</p>
US-3135-00	<p>Plant Adaptation to Light Stress: Genetic Regulatory Mechanisms</p> <p>Christopher, D.A. U Hawaii Danon, A. Weizmann Inst.</p>	<p>Model System & Funct. Biol. App. Duration: 3 years</p> <p>HI</p>
IS-3137-00	<p>Male Song as a Tool for Trapping Female Fruit Flies</p> <p>Mizrahi, A. ARO, Min. Ag. Mazor, M. ARO, Min. Ag. Hetzroni, A. ARO, Min. Ag. Grinshpun, J. ARO, Min. Ag. Mankin, R. USDA, ARS Shuman, D. USDA, ARS Epsky, N.D. USDA, ARS Heath, R.R. USDA, ARS</p>	<p>Bioengineering & Sensors App. Duration: 1 year</p> <p>FL FL FL FL</p>
IS-3139-00	<p>Ethylene Mediated Regulation of Sex Expression in Cucumis</p> <p>Perl-Treves, R. Bar Ilan U Grumet, R. Michigan St. U Katzir, N. ARO, Min. Ag. Staub, J.E. USDA, ARS</p>	<p>Field Crops & Hort. App. Duration: 3 years</p> <p>MI WI</p>

**BARD Approved Projects
1997 - 2007**

14

03/06/2008

US-3155-00	Development of A Real-Time, In-Situ Nitrate Sensor	Bioengineering & Sensors
		App. Duration: 1 year
	Upadhyaya, S.K. Shaviv, A.G. Katzir, A. Shmulevich, I.E. Slaughter, D.C.	UC, Davis Technion Tel Aviv U Technion UC, Davis
		CA
		CA
IS-3158-00C <small>2747</small>	Regulation of Fertilization-Independent Endosperm Development by Polycomb Proteins	Model System & Funct. Biol.
		App. Duration: 3 years
	Ohad, N. Fischer, R.L.	Tel Aviv U UC, Berkeley
		CA
US-3159-00C <small>2727</small>	Streptococcus Iniae Infection in Trout and Tilapia: Host-Pathogen Interactions, the Immune Response Towards the Pathogen and Vaccine Formulation	Aquaculture
		App. Duration: 3 years
	Evans, D.L. Eldar, A. Jaso-Friedmann, L. Bercovier, H.	U Georgia Isr. Vet. Inst. U Georgia Hebrew U
		GA
		GA
IS-3162-00R <small>2997</small>	Redox Processes in Soils Irrigated with Reclaimed Sewage Effluents: Field Cycles and Basic Mechanism	Ag. & the Environment
		App. Duration: 3 years
	Banin, A. Stucki, J.W. Kostka, J.E.	Hebrew U U Illinois Florida St. U
		IL
		FL
US-3165-00R <small>3085</small>	The Involvement of Antioxidant Enzymes and Genes in the Resistance Mechanism to Postharvest Superficial Scald Development	Postharvest
		App. Duration: 3 years
	Watkins, C.B. Lurie, S. Lers, A. Conklin, P.L.	Cornell U ARO, Min. Ag. ARO, Min. Ag. Boyce Thompson
		NY
		NY
US-3166-00	Characterization and Control of KHV, A New Herpes Viral Pathogen of Koi and Common Carp	Aquaculture
		App. Duration: 3 years
	Hedrick, R. P. Bercovier, H.	UC, Davis Hebrew U
		CA
US-3171-00C <small>2711</small>	Creating an Ally from an Adversary: Genetic Manipulation of Citrus Tristeza	Plant Protection
		App. Duration: 3 years
	Dawson, W.O. Bar-Joseph, M.	U Florida ARO, Min. Ag.
		FL
US-3177-00C <small>2746</small>	Manipulating Chloroplast Gene Expression: A Genetic and Mechanistic Analysis of Processes that Control RNA Stability	Model System & Funct. Biol.
		App. Duration: 3 years
	Stern, D.B. Schuster, G.	Boyce Thompson Technion
		NY

BARD Approved Projects
1997 - 2007

15

03/06/2008

US-3189-01	Comparing the performance of naturally ventilated and fan-ventilated greenhouses		Bioengineering & Sensors
	Willits, D.H.	N Carolina St. U	NC
	Teitel, M.	ARO, Min. Ag.	
	Tanny, J.	ARO, Min. Ag.	
	Peet, M.M.	N Carolina St. U	NC
	Cohen, S.	ARO, Min. Ag.	
	Matan, E.	Isr. Min. Agr.	
US-3190-01	X-ray and stereo imaging method for sensitive detection of bone fragments and hazardous materials in de-boned poultry fillets		Bioengineering & Sensors
	Tao, Y.	U Maryland	MD
	Alchanatis, V.	ARO, Min. Ag.	
	Chen, Y.R.	USDA, ARS	MD
US-3199-01CR 2643 3150	Placental lactogen enhances production efficiency in sheep		Animal Production
	Spencer, T.E.	Texas A&M	TX
	Gootwine, E.	ARO, Min. Ag.	
	Gertler, A.	Hebrew U	
	Bazer, F.W.	Texas A&M	TX
US-3201-01R 3178	Environmental manipulation during the dry period of ruminants: strategies to enhance subsequent lactation		Animal Production
	Dahl, G.E.	U Illinois	IL
	Mabjeesh, S.J.	Hebrew U	
	McFadden, T.B.	U Vermont	VT
	Shamay, A.	ARO, Min. Ag.	
US-3205-01R 3102	Characterization of bee viruses and an investigation of their mode of spread		Animal Health
	Cameron, C.E.	Penn State U	PA
	Sela, I.	Hebrew U	
	Yakobson, B.A.	Isr. Vet. Inst.	
	deMiranda, J.R.	Penn State U	PA
	Slabezki, Y.	Isr. Min. Agr.	
IS-3214-01	Altering GnRH neuron development as a method to induce hypogonadism and sterility in farmed fish: a feasibility study		Aquaculture
	Gothilf, Y.	Tel Aviv U	
	Zohar, Y.	UMD Marine BioTech	MD
	Wray, S.	NIH	MD
IS-3215-01	The function of protein farnesylation in early events of ABA signal transduction in stomatal guard cells of Arabidopsis		Model System & Funct. Biol.
	Yalovsky, S.	Tel Aviv U	
	Schroeder, J.I.	UC, San Diego	CA
IS-3222-01C 2636	Mechanisms of intra- and intercellular targeting and movement of tobacco mosaic virus.		Model System & Funct. Biol.
	Epel, B.L.	Tel Aviv U	
	Beachy, R.N.	Danforth Center	MO
			App. Duration: 3 years
			App. Duration: 3 years
			App. Duration: 1 year
			App. Duration: 3 years
			App. Duration: 3 years

BARD Approved Projects
1997 - 2007

16

03/06/2008

US-3223-01C 2948	DNA damage, repair and recombination in plants	Model System & Funct. Biol.
		App. Duration: 3 years
Weil, C. F. Levy, A.A. Britt, A. Simchen, G.	Purdue Weizmann Inst. UC, Davis Hebrew U	IN CA
US-3224-01R 3064	Positional cloning of a gene responsible for high grain protein content in tetraploid wheat	Field Crops & Hort.
		App. Duration: 3 years
Dubcovsky, J. Fahima, T. Blechl, A.E.	UC, Davis U Haifa USDA, ARS	CA CA
IS-3225-01C 2389	Genetics and comparative molecular mapping of biochemical and morphological fruit characters in Capsicum	Field Crops & Hort.
		App. Duration: 3 years
Paran, I. Jahn, M.	ARO, Min. Ag. Cornell U	NY
US-3231-01R 3160	Biotechnology approaches to enhance phosphorus acquisition of tomato plants	Field Crops & Hort.
		App. Duration: 3 years
Raghothama, K.G. Silber, A. Levy, A.A.	Purdue ARO, Min. Ag. Weizmann Inst.	IN
IS-3237-01	A functional genomics approach to dissect resistance of tomato to bacterial spot disease	Field Crops & Hort.
		App. Duration: 3 years
Sessa, G. Martin, G.B.	Tel Aviv U Boyce Thompson	NY
US-3240-01	Effects of root zone temperature, oxygen concentration, and moisture content on actual vs. potential growth of greenhouse crops	Field Crops & Hort.
		App. Duration: 3 years
Lieth, J.H. Raviv, M. Burger, D.W.	UC, Davis ARO, Min. Ag. UC, Davis	CA CA
US-3245-01	Regulated expression of site-specific DNA recombination for precision genetic engineering of apple	Field Crops & Hort.
		App. Duration: 3 years
Norelli, J.L. Flaishman, M.A. Aldwinckle, H.S. Gidoni, D.	USDA, ARS ARO, Min. Ag. Cornell U ARO, Min. Ag.	WV NY
IS-3255-01	Inhibition of geminiviruses nuclear import: a novel approach for combating virus diseases in plants	Plant Protection
		App. Duration: 3 years
Loyer, A. Gilbertson, R.L. Lucas, W.J.	Hebrew U UC, Davis UC, Davis	CA CA
US-3256-01	Manipulation of the post-teneral environment to increase sexual competitiveness and survival of male Mediterranean fruit flies	Plant Protection
		App. Duration: 3 years
Shelly, T.E. Yuval, B. McInnis, D.O.	U Hawaii Hebrew U USDA, ARS	HI HI

BARD Approved Projects
1997 - 2007

17

03/06/2008

IS-3259-01	Determination of the architectural features sodium channel receptors that bind anti-insect selective toxins for design of environmentally safe pesticides	Model System & Funct. Biol. App. Duration: 3 years
	Gordon, D. Tel Aviv U Kallen, R.G. U Penn Gurevitz, M. Tel Aviv U	PA
US-3260-01C 2520	Characterization of fungal symbiotic lifestyle expression in <i>Colletotrichum</i> and generating non-pathogenic mutants that confer disease resistance, drought tolerance, and growth enhancement to plant hosts	Plant Protection App. Duration: 3 years
	Rodriguez, R.J. U Washington Freeman, S. ARO, Min. Ag.	WA
US-3265-01C 2816	The roles Hrp-dependent effector proteins and hrp gene regulation as determinants of virulence and host-specificity in <i>Erwinia stewartii</i> and <i>E. herbicola</i> pvs. <i>gypsophilae</i> and <i>betae</i>.	Plant Protection App. Duration: 3 years
	Coplin, D.L. Ohio St. U Manulis, S. ARO, Min. Ag. Barash, I. Tel Aviv U	OH
IS-3271-01R 3118	Ethanol for postharvest decay control of table grapes: application and mode of action	Postharvest App. Duration: 3 years
	Lichter, A. ARO, Min. Ag. Smilanick, J.L. USDA, ARS Margosan, D.A. USDA, ARS Lurie, S. ARO, Min. Ag.	CA
US-3276-01	Disinfestation of Mediterranean and Mexican fruit flies in citrus using radio and microwave energy	Postharvest App. Duration: 3 years
	Tang, J. WA State U Gazit, Y. Citrus Marketing Rossler, Y. Citrus Marketing Lurie, S. ARO, Min. Ag. Hallman, G.J. USDA, ARS Sheppard, W.S. WA State U	WA TX WA
IS-3280-01	Spices, medicinal plants and yeasts as dietary sources for antioxidants, lipid lowering and hypoglycemic materials	Postharvest App. Duration: 3 years
	Mirsky, N. U Haifa Anderson, USDA, ARS Yannai, S. Technion	MD
IS-3282-01R 3107	Effect of different water regimes on plant development, fruiting and water relations in three vine cacti crops	Ag. & the Environment App. Duration: 3 years
	Mizrahi, Y. Ben Gurion U Nobel, P.S. UCA, Los Angeles Ben-Asher, J. Ben Gurion U Nerd, A. Ben Gurion U	CA

BARD Approved Projects
1997 - 2007

18

03/06/2008

IS-3284-01	Influence of hydraulic properties of rootstocks and the rootstock-scion graft on water use and productivity of apple trees	Ag. & the Environment App. Duration: 1 year
	Cohen, S. ARO, Min. Ag. Tyree, M. VT USDA NFS Naor, A. MIGAL R&D Lakso, A.N. Cornell U NY Robinson, T. Cornell U NY Cohen, Y. ARO, Min. Ag.	VT
US-3287-01R 2967	Scale-dependency and spatial variability of soil hydraulic properties	Ag. & the Environment App. Duration: 3 years
	Zhang, R. U Wyoming Russo, D. ARO, Min. Ag.	WY
IS-3291-02	The dynamics of off-farm employment, farm size, and farm structure	Ag. Economics & Rural Devel. App. Duration: 3 years
	Kimhi, A. Hebrew U Goodwin, B. N Carolina St. U Mishra, A.K. USDA, ARS Ahituv, A. U Haifa Kislev, Y. Cent Ag Econ Re	NC DC
US-3293-02C 3155	A mid-IR based soil nitrate sensor for real-time applications	Bioengineering & Sensors App. Duration: 3 years
	Upadhyaya, S.K. UC, Davis Shaviv, A.G. Technion Katzir, A. Tel Aviv U Slaughter, D.C. UC, Davis Shmulevich, I.E. Technion	CA CA
US-3296-02R 3278	Rapid detection of food borne pathogens and non-pathogens in fresh produce using FT-IRS and raman spectroscopy	Bioengineering & Sensors App. Duration: 1 year
	Irudayaraj, J.M.K. Penn State U Schmilovitch, Z. ARO, Min. Ag. Mizrach, A. ARO, Min. Ag. Kritzman, G. ARO, Min. Ag. DebRoy, C. Penn State U	PA PA
IS-3297-02	The effect of lactic acid bacteria silage inoculants on the ruminal ecosystem, fiber digestibility and animal performance	Animal Production App. Duration: 1 year
	Weinberg, Z.G. ARO, Min. Ag. Muck, R.E. USDA, ARS Gollop, N. ARO, Min. Ag. Ashbell, G. ARO, Min. Ag. Weimer, P.J. USDA, ARS Kung, Jr., L. U Delaware	WI WI DE
IS-3311-02	Enhancement of development of broilers and poults by in ovo feeding	Animal Production App. Duration: 3 years
	Uni, Z. Hebrew U Ferket, P.R. N Carolina St. U	NC

BARD Approved Projects
1997 - 2007

19

03/06/2008

US-3315-02C 2799	Control of bovine anaplasmosis: cytokine enhancement of vaccine efficacy	WA State U Isr. Vet. Inst. WA State U Isr. Vet. Inst.	WA WA	Animal Health App. Duration: 3 years
IS-3319-02R 3210	Inland mariculture of reef corals amenable for the ornamental trade	Isr. Ocean. Res. U Hawaii	HI	Aquaculture App. Duration: 3 years
IS-3326-02C 2894	Mutual effects of hexose phosphorylation enzymes and phosphorous on plant development	ARO, Min. Ag. U Wisconsin Silber, A.	WI	Model System & Funct. Biol. App. Duration: 3 years
US-3327-02	DNA transfer by Agrobacterium: a cooperative interaction of ssDNA, virulence proteins, and plant host factors	Tzfira, T. Elbaum, M. Wolf, S.	NY	Model System & Funct. Biol. App. Duration: 3 years
IS-3328-02	Regulation of plants lateral organs shape and size by the KANADI-mediated signaling pathway	Eshed, Y. Bowman, J.L.	CA	Model System & Funct. Biol. App. Duration: 3 years
IS-3331-02	Molecular, biochemical and genetic dissection of the regulatory role of casein kinase 2 in lysine catabolism in plants	Galili, G. Tobin, E.M. Green, R.M.	CA	Field Crops & Hort. App. Duration: 3 years
IS-3332-02C 2709	Functional genomics of citral biosynthesis in aromatic plants: Pathway elucidation and applications.	Lewinsohn, E. Pichersky, E. Simon, J.E. Dudai, N.	MI NJ	Field Crops & Hort. App. Duration: 3 years
IS-3333-02	Genomic approach to the improvement of fruit quality in melon (<i>Cucumis melo</i>) and related cucurbit crops	Katzir, N. Giovannoni, J. Burger, Y.	NY	Field Crops & Hort. App. Duration: 3 years
IS-3337-02	Saturation mutagenesis in tomato: an integrated infrastructure for functional genomics	Zamir, D. Chetelat, R.T. Tanksley, S.D.	CA NY	Field Crops & Hort. App. Duration: 3 years

IS-3340-02R <small>3247</small>	Exploring mechanisms involved in grape bud dormancy: Large-scale analysis of expression reprogramming following controlled dormancy induction and dormancy release	Or, E. Galbraith, D.W. Fennell, A.	ARO, Min. Ag. U Arizona S Dakota St U	AZ SD	Field Crops & Hort. App. Duration: 3 years
US-3345-02R <small>3246</small>	Enhancement of avocado pollination and productivity - an interdisciplinary approach	Arpaia, M.L. Shafir, S. Davenport, T.L. Dag, A.	UC, Riverside Hebrew U U Florida ARO, Min. Ag.	CA FL NY	Field Crops & Hort. App. Duration: 3 years
IS-3347-02C <small>2969</small>	Molecular interactions of TYLCV capsid protein during assembly of viral particles	Gafni, Y. Citovsky, V.	ARO, Min. Ag. NYSU, Stony Brook	NY	Plant Protection App. Duration: 3 years
US-3353-02	Optimizing nematode management by defining natural chemical bases of behavior	Phillips, D.A. Spiegel, Y. Ferris, H.	UC, Davis ARO, Min. Ag. UC, Davis	CA CA	Plant Protection App. Duration: 3 years
IS-3356-02	Rationally designed insect neuropeptide agonists and antagonists: application for the characterization of the pyrokinin/Pban mechanisms of action in insects	Altstein, M. Nachman, R.J.	ARO, Min. Ag. USDA, ARS	TX	Plant Protection App. Duration: 3 years
IS-3357-02	Potentiation of pest control by insect immunosuppression	Chejanovsky, N. Webb, B.A.	ARO, Min. Ag. U Kentucky	KY	Plant Protection App. Duration: 1 year
IS-3363-02	Modulation of pathogenicity of postharvest pathogens by environmental pH	Prusky, D.B. Rollins, J. Fluhr, R.	ARO, Min. Ag. U Florida Weizmann Inst.	FL	Postharvest App. Duration: 3 years
IS-3366-02C <small>2518</small>	Prolonged bitter taste in agricultural food products: mechanisms and inhibition using a multi disciplinary approach	Naim, M. Spielman, A.I. Breslin, P. Duzgunes, N. Nir, S.	Hebrew U New York U Monell Chemical U Pacific Hebrew U	NY PA CA	Postharvest App. Duration: 3 years

IS-3368-02	Understanding the hardening syndrome of potato (<i>Solanum tuberosum L.</i>) tuber tissue to eliminate textural defects in fresh and fresh-peeled/cut products	Postharvest App. Duration: 3 years
	Shomer, I. ARO, Min. Ag. Stark, R.E. CSI, CUNY Gaba, V.P. ARO, Min. Ag. Batteas, J. CSI, CUNY	NY NY
US-3377-02	Physical processes affecting microbial habitats and activity in unsaturated agricultural soils	Ag. & the Environment App. Duration: 3 years
	Or, D. U Connecticut Friedman, S.P. ARO, Min. Ag. Norton, J. Utah St U	CT UT
US-3381-02	Improving nutrient availability in alkaline coal combustion by-products amended with composted animal manures	Ag. & the Environment App. Duration: 3 years
	Dick, W.A. Ohio St. U Chen, Y. Hebrew U Watson, M. Ohio St. U	OH OH
IS-3385-03R <small>3375</small>	Sorption of hydrophobic pesticides to aliphatic components of soil organic matter	Ag. & the Environment App. Duration: 3 years
	Chefetz, B. Hebrew U Xing, B. U Mass	MA
US-3393-03R <small>3379</small>	Synchrotron CMT-measured soil physical properties influenced by soil compaction	Ag. & the Environment App. Duration: 1 year
	Gantzer, C.J. U Missouri Assouline, S. ARO, Min. Ag. Anderson, S. U Missouri	MO MO
IS-3397-03R <small>3292</small>	Dynamic intraseasonal irrigation management under water scarcity, water quality, irrigation technology and environmental constraints	Ag. Economics & Rural Devel. App. Duration: 3 years
	Tsur, Y. Hebrew U Zilberman, D. UC, Berkeley Shani, U. Hebrew U Zemel, A. Ben Gurion U Sunding, D. UC, Berkeley	CA CA
US-3399-03C <small>2846</small>	Environmental factors affecting the decline in reproductive efficiency of turkey hens: Mediation by vasoactive intestinal peptide	Animal Production App. Duration: 3 years
	El Halawani, M.E U Minnesota Rozenboim, I. Hebrew U	MN
IS-3403-03R <small>3301</small>	Disordered angiogenesis in tibial dyschondroplasia: the role of dithiocarbamates.	Animal Production App. Duration: 3 years
	Monsonego-Ornan, E. Hebrew U Leach, R.M. Penn State U Gay, C. V. Penn State U Pines, M. ARO, Min. Ag. Yahav, S. ARO, Min. Ag.	PA PA

IS-3404-03C 2540	The role of surface lipoproteins in pathogenesis of <i>Mycoplasma bovis</i> disease in cows and their application in diagnosis and control	Animal Health App. Duration: 3 years
	Yoge, D. Hebrew U Brown, M. U Florida Levisohn, S. Isr. Vet. Inst. Lysnyansky, I. Isr. Vet. Inst.	FL
US-3406-03R 3300	High resolution linkage disequilibrium mapping of QTL affecting milk production traits in Israel Holstein dairy cattle	Animal Production App. Duration: 3 years
	Medrano, J.F. UC, Davis Friedmann, A. Hebrew U Soller, M. Hebrew U Lipkin, E. Hebrew U Korol, A.B. U Haifa	CA
US-3408-03C 3021	Genes and immunological mechanisms that provide protection against important pathogens of poultry	Animal Health App. Duration: 3 years
	Lamont, S.J. Iowa St. U Pitcovski, J. MIGAL R&D Cahaner, A. Hebrew U Heller, E.D. Hebrew U	IA
IS-3413-03	Identification and characterization of <i>Mycobacterium paratuberculosis</i> virulence genes expressed in vivo by negative selection	Animal Health App. Duration: 1 year
	Shpigel, N.Y. Hebrew U Barletta, R.G. U Nebraska Rosenshine, I. Hebrew U Chaffer, M. Isr. Vet. Inst.	NE
US-3422-03R 3308	Peripartum dietary supplementation to enhance fertility in high yielding dairy cows	Animal Production App. Duration: 3 years
	Butler, W.R. Cornell U Moallem, U. ARO, Min. Ag. Arieli, A. Hebrew U Gilbert, R.O. Cornell U Sklan, D. Hebrew U	NY NY
IS-3424-03	Anaerobic ammonia oxidation as a novel approach for water treatment in marine and freshwater aquaculture recirculating systems	Aquaculture App. Duration: 3 years
	Van Rijn, J. Hebrew U Schreier, H.J. UMD Marine BioTech Tal, Y. UMD Marine BioTech	MD MD
IS-3428-03C 3214	Inducing sterility in farmed fish by disrupting the development of the GnRH System.	Aquaculture App. Duration: 3 years
	Gothilf, Y. Tel Aviv U Zohar, Y. UMD Marine BioTech Wray, S. NIH Rosenfeld, H. Isr. Ocean. Res.	MD MD
IS-3434-03	Molecular mechanisms of plant reproductive adaptation to aridity gradients	Field Crops & Hort. App. Duration: 3 years
	Samach, A. Hebrew U Cook, D. R. UC, Davis Kigel, J. Hebrew U	CA

US-3437-03	Integrating biochemical and genomic approaches to elucidate C6-C2 volatile production: improvement of floral scent and fruit aroma	Dudareva, N. Purdue Vainstein, A. Hebrew U Pichersky, E. U Michigan Weiss, D. Hebrew U	IN MI	Field Crops & Hort. App. Duration: 3 years
IS-3441-03	Modulating phytonutrient content in tomatoes combining engineered polyamine metabolism with photomorphogenic mutants	Levin, I. ARO, Min. Ag. Handa, A.K. Purdue Lalazar, A. ARO, Min. Ag. Mattoo, A.K. USDA, ARS	IN MD	Field Crops & Hort. App. Duration: 3 years
IS-3451-03	Translational regulation and light signal transduction in plants: the link between eIF3 and the COP9 signalosome	Chaimovitz, A.D. Tel Aviv U Von Arnim, A.G. U Tennessee	TN	Model System & Funct. Biol. App. Duration: 3 years
IS-3453-03	Similarities and differences in KNOX function	Ori, N. Hebrew U Hake, S. USDA, ARS	CA	Model System & Funct. Biol. App. Duration: 3 years
IS-3454-03	Harnessing the genetic diversity engendered by alternative gene splicing	Fluhr, R. Weizmann Inst. Brendel, V. Iowa St. U	IA	Model System & Funct. Biol. App. Duration: 3 years
IS-3460-03	A functional genomic screen for new plant cytoskeletal proteins and the determination of their role in actin mediated functions and guard cells regulation	Sadot, E. ARO, Min. Ag. Staiger, C.J. Purdue Kam, Z. Weizmann Inst.	IN	Model System & Funct. Biol. App. Duration: 1 years
IS-3479-03	Functional genomics characterization of the whitefly Bemisia tabaci begomovirus interaction: an EST and array-based transcript profiling approach.	Czosnek, H.H. Hebrew U Shatters, R.G. USDA, ARS Mckenzie, C. USDA, ARS Brown, J.K. U Arizona	FL FL AZ	Plant Protection App. Duration: 3 years
IS-3480-03	Sensitivity of a wide array of insect sodium channels to anti-insect selective toxins: a key for preventing resistance buildup to pyrethroids	Gurevitz, M. Tel Aviv U Dong, K.E. Michigan St. U Gordon, D. Tel Aviv U	MI	Plant Protection App. Duration: 3 years
US-3483-03C 3171	Creating an ally from an adversary: genetic manipulation of Citrus tristeza virus	Dawson, W.O. U Florida Bar-Joseph, M. ARO, Min. Ag. Carmi, N. ARO, Min. Ag.	FL	Plant Protection App. Duration: 3 years

US-3491-03	Comparative studies of fungal pathogeneses in two hemibiotrophs: Magnaporthe grisea and Colletotrichum gloeosporioides	Plant Protection App. Duration: 3 years
	Xu, J.R. Sharon, A.	Purdue Tel Aviv U IN
IS-3492-03	Success and failure in insect fertilization and reproduction - the role of the female accessory glands	Plant Protection App. Duration: 3 years
	Heifetz, Y. Bender, M.	Hebrew U U Georgia GA
IS-3493-03CR <small>2786 3373</small>	Development of novel ethylene antagonists for the control of production processes in agricultural crops	Postharvest App. Duration: 3 years
	Goldschmidt, E.E. Sisler, E.C. Riov, J. Goren, R. Apelbaum, A.	Hebrew U N Carolina St. U Hebrew U Hebrew U Hebrew U NC
IS-3494-03	Characterization of the biochemical basis of host specificity of Penicillium digitatum and Penicillium italicum on citrus fruit	Postharvest App. Duration: 3 years
	Droby, S. Gottwald, T.R. Stange, R. Lewinsohn, E. McCollum, T.G.	ARO, Min. Ag. USDA, ARS USDA, ARS ARO, Min. Ag. USDA, ARS FL
IS-3499-03R <small>3367</small>	Identification and characterization of genes involved in the acquisition of chilling tolerance in citrus fruit	Postharvest App. Duration: 3 years
	Porat, R. McCollum, T.G. Lers, A. Guy, C.L.	ARO, Min. Ag. USDA, ARS ARO, Min. Ag. U Florida FL
US-3500-03	Fast, practical, and effective approach for the analysis of hazardous chemicals in the food supply	Postharvest App. Duration: 3 years
	Lehotay, S.J. Amirav, A.	USDA, ARS Tel Aviv U PA
US-3507-04R <small>3383</small>	Enhancement of plant disease resistance and productivity through use of root symbiotic fungi	Ag. & the Environment App. Duration: 3 years
	Harman, G.E. Chet, I. Viterbo, A.	Cornell U Hebrew U Weizmann Inst. NY
IS-3512-04	Ecology of seed-colonizing microbial communities: influence of soil and plant factors and implications for rhizosphere microbiology	Ag. & the Environment App. Duration: 3 years
	Minz, D. Nelson, E.B. Hadar, Y.	ARO, Min. Ag. Cornell U Hebrew U NY

BARD Approved Projects
1997 - 2007

25

03/06/2008

IS-3517-04R 3387	<p>Effects of soil properties and organic residues management on C sequestration and N losses</p> <p>Bar-Tal, A. ARO, Min. Ag. Bloom, P.R. U Minnesota MN Fine, P. ARO, Min. Ag. Clapp, C.E. USDA, ARS MN Hadas, A. ARO, Min. Ag. Venterea, R.T. USDA, ARS MN Zohar, D. Isr. Min. Agr. Chen, D. U Minnesota MN Molina, J.E. U Minnesota MN</p>	Ag. & the Environment App. Duration: 3 years
IS-3522-04R 8002	<p>Elimination of emissions of ammonia and hydrogen sulfide from confined animal and feeding operations (CAFO) using an adsorption/liquid-redox process with biological regeneration</p> <p>Lahav, O. Technion IN Heber, A.J. Purdue IN Broday, D. Technion</p>	Ag. & the Environment App. Duration: 3 years
IS-3527-04	<p>The economics of contracts in the US and Israel agricultures</p> <p>Finkelshtain, I. Hebrew U MD Melkonyan, A. U Maryland MD Kachel, Y. Hebrew U</p>	Ag. Economics & Rural Devel. App. Duration: 3 years
US-3535-04R 3402	<p>Chicken infectious anemia virus: immunosuppression, transmission and impact on other diseases</p> <p>Schat, K.A. Cornell U NY Davidson, I. Isr. Vet. Inst. NY Heller, E.D. Hebrew U</p>	Animal Health App. Duration: 3 years
US-3538-04CR 2913 3410	<p>Identification of bovine <i>Neospora caninum</i> cytotoxic T-lymphocyte epitopes for development of peptide-based vaccine</p> <p>Baszler, T.V. WA State U WA Savitsky, I. Isr. Vet. Inst. WA Davies, C.J. WA State U WA Staska, L.M. WA State U WA Shkap, V. Isr. Vet. Inst.</p>	Animal Health App. Duration: 1 year
IS-3539-04CR 3166 3426	<p>Diagnostic, eco-epidemiology and control of KHV, a new viral pathogen of koi and common carp</p> <p>Bercovier, H. Hebrew U CA Hedrick, R. P. UC, Davis</p>	Animal Health App. Duration: 3 years
US-3551-04	<p>Embryo transfer as a tool for improving fertility of heat-stressed dairy cattle</p> <p>Hansen, P.J. U Florida FL Arav, A. ARO, Min. Ag.</p>	Animal Production App. Duration: 3 years

IS-3553-04	Controlling the bovine ovarian cycle by disrupting the endothelin system in <i>corpora lutea</i> and follicles with novel approaches: RNA interference (RNAi) and intra-luteal Atrigel implants			Animal Production App. Duration: 1 year
	Meidan, R.	Hebrew U		
	Flores, J.A.	U West Virginia	WV	
	Inskeep, E.K.	U West Virginia	WV	
	Wolfenson, D.	Hebrew U		
IS-3555-04	Goats for maximal efficacy of brush control			Animal Production App. Duration: 3 years
	Landau, S.Y.	ARO, Min. Ag.		
	Walker, J.	Texas A&M	TX	
	Perevolotsky, A.	ARO, Min. Ag.		
	Ungar, E.D.	ARO, Min. Ag.		
	Taylor, B.	Texas A&M	TX	
	Waldron, D.F.	Texas A&M	TX	
IS-3561-04	Elucidating the molecular pathway of sex determination in cultured Tilapias and use of genetic markers for creating monosex populations			Aquaculture App. Duration: 3 years
	Hulata, G.	ARO, Min. Ag.		
	Kocher, T.D.	U New Hampshire	NH	
	Ron, M.	ARO, Min. Ag.		
IS-3565-04	Improving fry quality, survival and growth in commercially farmed fish by dietary stimulation of thyroid hormone production in premetamorphosing larvae			Aquaculture App. Duration: 3 years
	Koven, W.	Isr. Ocean. Res.		
	Grau, E.G.	U Hawaii	HI	
	Ron, B.	Isr. Ocean. Res.		
	Hirano, T.	U Hawaii	HI	
US-3573-04C <small>3224</small>	Validation of a candidate gene for increased grain protein content in wheat			Field Crops & Hort. App. Duration: 3 years
	Dubcovsky, J.	UC, Davis	CA	
	Fahima, T.	U Haifa		
	Blechl, A.E.	USDA, ARS	CA	
	San Miguel, P.	Purdue	IN	
US-3575-04R <small>3433</small>	Citric acid metabolism and mobilization in citrus fruit			Field Crops & Hort. App. Duration: 3 years
	Blumwald, E.	UC, Davis	CA	
	Sadka, A.	ARO, Min. Ag.		
IS-3581-04	Molecular genetic and anatomical characterization of potato tuber skin appearance			Field Crops & Hort. App. Duration: 3 years
	Ginzberg, I.	ARO, Min. Ag.		
	DeJong, W.S.	Cornell U	NY	
IS-3604-04CR <small>3158 3463</small>	Regulation of plant development by polycomb group proteins			Model System & Funct. Biol. App. Duration: 3 years
	Ohad, N.	Tel Aviv U		
	Fischer, R.L.	UC, Berkeley	CA	

**BARD Approved Projects
1997 - 2007**

27

03/06/2008

IS-3605-04CR	Integration of phosphorus and chloroplast mRNA metabolism through regulated ribonucleases	Model System & Funct. Biol.
3177	3459	App. Duration: 3 years
Schuster, G. Stern, D.B.	Technion Boyce Thompson	NY
IS-3622-04R	Global functional genomics of plant cell transformation by agrobacterium	Plant Protection
3465	Ron, E.Z. Nester, E.W.	App. Duration: 3 years
Tel Aviv U U Washington	WA	
US-3623-04	Functional analysis of virus and host components that mediate potyvirus-induced diseases	Plant Protection
	Whitham, S.A. Gal-On, A. Arazi, T.	App. Duration: 3 years
Iowa St. U ARO, Min. Ag. ARO, Min. Ag.	IA	
US-3624-04CR	Involvement of the PKA and MAPK signal transduction pathways in sclerotial morphogenesis in <i>Sclerotinia sclerotiorum</i>	Plant Protection
3094	3477	App. Duration: 3 years
Dickman, M.B. Yarden, O. Dickman, M.B.	U Nebraska Hebrew U TX AgriLife Res	NE TX
IS-3633-04R	Biocomplexity and Selective modulation of whitefly symbiont composition	Plant Protection
3490	Zchori-Fein, E. Brown, J.K. Katzir, N.	App. Duration: 1 year
ARO, Min. Ag. U Arizona ARO, Min. Ag.	AZ	
IS-3634-04C	Molecular characterisation of PBAN-receptors: a basis for the development and screening of antagonists against Pheromone biosynthesis in moth pest species	Plant Protection
2978	Rafaeli, A. Jurenka, R.A. Sander, C.	App. Duration: 3 years
ARO, Min. Ag. Iowa St. U Sloan Kettering	IA NY	
IS-3636-04	The role of nitrogen-fixing bacteria in survival and reproductive success of <i>Ceratitis capitata</i>, the Mediterranean fruit fly	Plant Protection
	Jurkevitch, E. Lauzon, C.R. Yuval, B. MacCombs, S.D.	App. Duration: 1 year
Hebrew U CA State U Hebrew U USDA, ARS	CA HI	
IS-3645-04	Study of the regulatory mechanism involved in dark-induced Postharvest leaf senescence	Postharvest
	Lers, A. Susheng, G.	App. Duration: 3 years
ARO, Min. Ag. Cornell U	NY	
IS-3647-04CR	Improvement of quality and nutritional value of muscle foods	Postharvest
1644	3498	App. Duration: 3 years
Kanner, J. Richards, M.P. Kohen, R. Reed, J.D.	ARO, Min. Ag. U Wisconsin Hebrew U U Wisconsin	WI WI

**BARD Approved Projects
1997 - 2007**

28

03/06/2008

US-3655-04R	Entrapment and controlled release of nutraceuticals from double emulsions stabilized by pectin-protein hybrids	Postharvest
3505		App. Duration: 3 years
	Wicker, L.	U Georgia
	Garti, N.	Hebrew U
IS-3656-05R	Novel Herbicide Formulations for Conservation-Tillage	Ag. & the Environment
3378		App. Duration: 3 years
	Assouline, S.	ARO, Min. Ag.
	Potter, T.	USDA, ARS
	Wauchope, R.D.	USDA, ARS
	Bosch, D.D.	USDA, ARS
	Strickland, T.	USDA, ARS
	Truman, C.T.	USDA, ARS
	Webster, T.	USDA, ARS
	Gerstl, Z.	ARO, Min. Ag.
	Rubin, B.	Hebrew U
	Nir, S.	Hebrew U
	Mishael, Y.G.	Hebrew U
	Tal, A.	Hebrew U
US-3662-05R	Multi-Dimensional Infiltration and Distribution of Water of Different Qualities and Solutes Related Through Artificial Neural Networks	Ag. & the Environment
3515		App. Duration: 3 years
	Warrick, A.W.	U Arizona
	Oron, G.	Ben Gurion U
	Poulton, M.	U Arizona
	Wallach, R.	Hebrew U
	Furman, A.	Technion
IS-3673-05C	Identification and Characterization of <i>Mycobacterium paratuberculosis</i> VirulenceGenes Expressed in vivo by Negative Selection	Animal Health
3413		App. Duration: 3 years
	Shpigel, N.Y.	Hebrew U
	Barletta, R.G.	U Nebraska
	Rosenshine, I.	Hebrew U
IS-3678-05R	A Novel Immunotherapeutic Agent for the Treatment and Prevention of Staphylococcal Mastitis in Dairy Cows	Animal Health
3533		App. Duration: 3 years
	Leitner, G.	Isr. Vet. Inst.
	Balaban, N.	Tufts U
	Saperstein, G.	Tufts U
	Saran, A.	Isr. Vet. Inst.
IS-3679-05	Avian Influenza Virus H9N2: Characterization and Control Strategies	Animal Health
		App. Duration: 1 year
	Perk, S.	Isr. Vet. Inst.
	Garcia, M.	U Georgia
	Panshin, A.	Isr. Vet. Inst.
	Banet-Noach, C.	Isr. Vet. Inst.
	Gissin, I.	Isr. Vet. Inst.
	Jackwood, M.W.	U Georgia
	Stallknecht, D.	U Georgia
IS-3682-05	Generation of Avian Pneumovirus Modified Clones for the Development of Attenuated Vaccines	Animal Health
		App. Duration: 3 years
	Bacharach, E.	Tel Aviv U
	Goyal, S.M.	U Minnesota
		MN

BARD Approved Projects
1997 - 2007

29

03/06/2008

US-3694-05R	Energy Expenditure for Activity in Free Ranging Ruminants: A Nutritional Frontier	Animal Production App. Duration: 3 years
3549	Goetsch, A.L. Langston U Aharoni, Y. ARO, Min. Ag. Brosh, A. ARO, Min. Ag. Puchala, R. Langston U Gipson, A. Langston U Henkin, Z. MIGAL R&D Ungar, E.D. ARO, Min. Ag. Dolev, A. MIGAL R&D	OK OK OK
IS-3703-05	Interactions Between the GH-IGF axis and Myostatin in Regulating Muscle Growth in <i>Sparus aurata</i>	Aquaculture App. Duration: 3 years
	Funkenstein, B. Isr. Ocean. Res. Du, J.S-J. UMD Marine BioTech	MD
IS-3712-05	Development of Agricultural Sensors Based on Conductive Polymers	Bioengineering & Sensors App. Duration: 1 year
	Bendikov, M. Weizmann Inst. Harmon, T.C. UCA, Merced	CA
US-3715-05	Enhancement of Sensing Technologies for Selective Tree Fruit Identification and Targeting in Robotic Harvesting Systems	Bioengineering & Sensors App. Duration: 3 years
	Burks, F. U Florida Alchanatis, V. ARO, Min. Ag. Dixon, W. U Florida Levi, O. Ben Gurion U	FL FL
IS-3721-05R	Remote Sensing of Crop Physiological Parameters for Improved Nitrogen Management in Semi-Arid Wheat Production Systems	Field Crops & Hort. App. Duration: 3 years
3588	Bonfil, D.J. ARO, Min. Ag. Long, D.S. USDA, ARS Cohen, Y. ARO, Min. Ag.	OR
IS-3723-05	Enhancing the Rate of Meiotic Crossing-Over for Plant Breeding	Field Crops & Hort. App. Duration: 3 years
	Levy, A.A. Weizmann Inst. Weil, C. F. Purdue Pawlowski, P. Cornell U	IN NY
IS-3733-05R	Increasing Starch Accumulation via Genetic Modification of the ADP-glucose Pyrophosphorylase	Field Crops & Hort. App. Duration: 3 years
3596	Schaffer, A.A. ARO, Min. Ag. Preiss, J. Michigan St. U Petreikov, M. ARO, Min. Ag. Levin, I. ARO, Min. Ag.	MI
US-3735-05C	Ethylene Mediated Regulation of <i>Cucumis</i> Reproduction - from Sex Expression to Fruit Set	Field Crops & Hort. App. Duration: 3 years
3139	Grumet, R. Michigan St. U Perl-Treves, R. Bar Ilan U Staub, J.E. USDA, ARS	MI WI

BARD Approved Projects
1997 - 2007

30

03/06/2008

IS-3738-05R 3577	Molecular Identification and Characterization of Heat-Stress-Responsive Microgametogenesis Genes in Tomato and Sorghum - A Feasibility Study	Firon, N. Chourey, P.S. Pressman, E. Hartwell, A.L. Boote, K.J.	ARO, Min. Ag. USDA, ARS ARO, Min. Ag. USDA, ARS U Florida	FL FL FL	Field Crops & Hort. App. Duration: 1 year
US-3746-05R 3584	Structural and Functional Genomic Approaches for Marking and Identifying Genes that Control Chilling Requirement in Apricot and Peach Trees	Abbott, A.G. Holland, D. Bielenberg, D.G. Reighard, L.	Clemson U ARO, Min. Ag. Clemson U Clemson U	SC SC SC	Field Crops & Hort. App. Duration: 3 years
US-3756-05	Mechanism of Internal Initiation of Translation in Plants	Belostotsky, D.A. Elroy-Stein, O.	U Missouri - KC Tel Aviv U	MO	Model System & Funct. Biol. App. Duration: 3 years
IS-3764-05	Nuclear Encoded RNA Splicing Factors in Plant Mitochondria	Ostersetzer, O. Barkan, A.	ARO, Min. Ag. U Oregon	OR	Model System & Funct. Biol. App. Duration: 3 years
IS-3767-05C 3328	Harnessing Fine Scale Tuning of Endogenous Plant Regulatory Processes for Manipulation of Organ Growth	Eshed, Y. Bowman, J.L.	Weizmann Inst. UC, Davis	CA	Model System & Funct. Biol. App. Duration: 3 years
US-3774-05C 3260	Gene Expression Patterns in Plants Colonized with Pathogenic and Non-pathogenic Gene Disruption Mutants of Colletotrichum	Rodriguez, R.J. Freeman, S.	U Washington ARO, Min. Ag.	WA	Plant Protection App. Duration: 3 years
IS-3783-05C 3357	Potentiation of Pest Control by Insect Immunosuppression	Chejanovsky, N. Webb, B.A.	ARO, Min. Ag. U Kentucky	KY	Plant Protection App. Duration: 3 years
IS-3784-05	Role of RNA Silencing Suppression in the Pathogenicity and Host Specificity of the Grapevine Virus A	Mawassi, M. Dolja, V.V.	ARO, Min. Ag. Oregon St. U	OR	Plant Protection App. Duration: 3 years
IS-3785-05C 3237	Role of GRAS Transcription Factors in Tomato Disease Resistance and Basal Defense	Sessa, G. Martin, G.B.	Tel Aviv U Boyce Thompson	NY	Plant Protection App. Duration: 3 years

BARD Approved Projects
1997 - 2007

31

03/06/2008

US-3789-05R	Genetically Engineered Microbial Agents for Biocontrol of Plant Fungal Diseases	Plant Protection App. Duration: 3 years
	3617	
	Thomashow, L.S. USDA, ARS	WA
	Chernin, L. Hebrew U	
	Chet, I. Weizmann Inst.	
	Weller, D. USDA, ARS	WA
	Mavrodi, D.V. WA State U	WA
IS-3793-05	Secondary Metabolites, Stress, and Signaling: Roles and Regulation of Peptides Produced by Non-ribosomal Peptide Synthetases	Plant Protection App. Duration: 3 years
	Horwitz, B.A. Technion	
	Turgeon, B.G. Cornell U	NY
IS-3802-05	A Novel Approach to Mycotoxin Detoxification in Farm Animals Using Probiotics Added to Feed Stuffs	Postharvest App. Duration: 3 years
	Shapira, R. Hebrew U	
	Grizzle, J.M. U Tennessee	TN
	Paster, N. ARO, Min. Ag.	
	Pines, M. ARO, Min. Ag.	
	Mendis-Handagama, C. U Tennessee	TN
IS-3803-05	Unravelling the Mode of Action of Ripening-Specific MADS-box Genes for Development of Tools to Improve Banana Fruit Shelf-life and Quality	Postharvest App. Duration: 3 years
	Friedman, H. ARO, Min. Ag.	
	Vrebalov, J. Boyce Thompson	NY
	Giovannoni, J. Boyce Thompson	NY
	Pesis, E. ARO, Min. Ag.	
IS-3815-05	Molecular Studies of Postharvest Leaf and Flower Abscission	Postharvest App. Duration: 1 year
	Meir, S. ARO, Min. Ag.	
	Reid, M.S. UC, Davis	CA
	Jiang, C. UC, Davis	CA
	Lers, A. ARO, Min. Ag.	
	Philosoph-Hadas, S. ARO, Min. Ag.	
IS-3822-06	Sorption and Mobility of Pharmaceutical Compounds in Soils Irrigated with Treated Wastewater	Ag. & the Environment App. Duration: 3 years
	Chefetz, B. Hebrew U	
	Chorover, J. U Arizona	AZ
IS-3823-06	Soil Environmental Effects on Root Growth and Uptake Dynamics for Irrigated Systems	Ag. & the Environment App. Duration: 3 years
	Furman, A. Technion	
	Hopmans, J.W. UC, Davis	CA
	Assouline, S. ARO, Min. Ag.	
	Simunek, J. UC, Riverside	CA
	Richards, J.H. UC, Davis	CA

IS-3826-06	Root Conductance, Root-soil Interface Water Potential, Water and Ion Channel Function, and Tissue Expression Profile as Affected by Environmental Conditions	Ag. & the Environment App. Duration: 1 year
	Shani, U. Hebrew U Dudley, L.M. Florida St. U Ben-Gal, A. ARO, Min. Ag. Moshelion, M. Hebrew U Wu, Y. Utah St U	FL UT
US-3829-06R	Microarray Analysis of <i>Brucella melitensis</i> Pathogenesis	Animal Health App. Duration: 3 years
3675	Splitter, G.A. U Wisconsin Banai, M. Isr. Vet. Inst.	WI
IS-3836-06R	Pre-natal Epigenetic Adaptation to Improve Thermotolerance Acquisition and Performance of Fast-growing Meat-type Chickens	Animal Production App. Duration: 3 years
3688	Yahav, S. ARO, Min. Ag. Brake, J.T. N Carolina St. U Halevy, O. Hebrew U	NC
IS-3837-06R	Translational Mechanisms Governing Milk Protein Levels and Composition	Animal Production App. Duration: 3 years
3691	Barash, I. ARO, Min. Ag. Rhoads, R.E. LSU Health Sciences Center	LA
IS-3853-06R	Production of Seed Stocks for Sustainable Tank Cultivation of the Red Edible Seaweed Porphyra	Aquaculture App. Duration: 3 years
3707	Israel, A. Isr. Ocean. Res. Merrill, J.E. Michigan St. U	MI
IS-3861-06	Application of Turbulent Transport Techniques for Quantifying Whole Canopy Evapotranspiration in Large Agricultural Structures: Measurement and Theory	Bioengineering & Sensors App. Duration: 3 years
	Tanny, J. ARO, Min. Ag. Katul, G. Duke U Cohen, S. ARO, Min. Ag. Teitel, M. ARO, Min. Ag.	NC
IS-3864-06	A Whole-Cell Biosensor Panel for Agricultural Endocrine Disruptors	Bioengineering & Sensors App. Duration: 3 years
	Belkin, S. Hebrew U Daunert, S. U Kentucky Wells, M.C. Tenn. Tech. U	KY TN
IS-3869-06	Tomato Natural Insecticides: Elucidation of the Complex Pathway of Methylketone Biosynthesis	Field Crops & Hort. App. Duration: 3 years
	Fridman, E. Hebrew U Pichersky, E. U Michigan	MI

US-3870-06C 3034	<p>Integrative Physical and Genetic Mapping of the Chickpea Genome for Fine Mapping and Analysis of Agronomic Traits</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Zhang, H.</td><td>Texas A&M</td><td style="text-align: right;">TX</td></tr> <tr> <td>Abbo, S.</td><td>Hebrew U</td><td></td></tr> <tr> <td>Chen, W.</td><td>USDA, ARS</td><td style="text-align: right;">WA</td></tr> <tr> <td>Sherman, A.</td><td>ARO, Min. Ag.</td><td></td></tr> <tr> <td>Shtienberg, D.</td><td>ARO, Min. Ag.</td><td></td></tr> <tr> <td>Muehlbauer, F.J.</td><td>USDA, ARS</td><td style="text-align: right;">WA</td></tr> </tbody> </table>	Zhang, H.	Texas A&M	TX	Abbo, S.	Hebrew U		Chen, W.	USDA, ARS	WA	Sherman, A.	ARO, Min. Ag.		Shtienberg, D.	ARO, Min. Ag.		Muehlbauer, F.J.	USDA, ARS	WA	Field Crops & Hort. App. Duration: 3 years
Zhang, H.	Texas A&M	TX																		
Abbo, S.	Hebrew U																			
Chen, W.	USDA, ARS	WA																		
Sherman, A.	ARO, Min. Ag.																			
Shtienberg, D.	ARO, Min. Ag.																			
Muehlbauer, F.J.	USDA, ARS	WA																		
US-3873-06	<p>Building Consensus Genetic Maps for Maize and Wheat</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Schnable, P.S.</td><td>Iowa St. U</td><td style="text-align: right;">IA</td></tr> <tr> <td>Ronin, Y.I.</td><td>U Haifa</td><td></td></tr> <tr> <td>Aluru, S.</td><td>Iowa St. U</td><td style="text-align: right;">IA</td></tr> <tr> <td>Mester, I.D.</td><td>U Haifa</td><td></td></tr> </tbody> </table>	Schnable, P.S.	Iowa St. U	IA	Ronin, Y.I.	U Haifa		Aluru, S.	Iowa St. U	IA	Mester, I.D.	U Haifa		Field Crops & Hort. App. Duration: 3 years						
Schnable, P.S.	Iowa St. U	IA																		
Ronin, Y.I.	U Haifa																			
Aluru, S.	Iowa St. U	IA																		
Mester, I.D.	U Haifa																			
IS-3877-06CR 3333 3736	<p>Genomic Approach to the Improvement of Fruit Quality in Melon (<i>Cucumis melo</i>) and Related Cucurbit Crops II: Functional Genomics</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Katzir, N.</td><td>ARO, Min. Ag.</td><td></td></tr> <tr> <td>Giovannoni, J.</td><td>Boyce Thompson</td><td style="text-align: right;">NY</td></tr> <tr> <td>Binzel, M.L.</td><td>Texas A&M</td><td style="text-align: right;">TX</td></tr> <tr> <td>Lewinsohn, E.</td><td>ARO, Min. Ag.</td><td></td></tr> <tr> <td>Burger, Y.</td><td>ARO, Min. Ag.</td><td></td></tr> <tr> <td>Schaffer, A.A.</td><td>ARO, Min. Ag.</td><td></td></tr> </tbody> </table>	Katzir, N.	ARO, Min. Ag.		Giovannoni, J.	Boyce Thompson	NY	Binzel, M.L.	Texas A&M	TX	Lewinsohn, E.	ARO, Min. Ag.		Burger, Y.	ARO, Min. Ag.		Schaffer, A.A.	ARO, Min. Ag.		Field Crops & Hort. App. Duration: 3 years
Katzir, N.	ARO, Min. Ag.																			
Giovannoni, J.	Boyce Thompson	NY																		
Binzel, M.L.	Texas A&M	TX																		
Lewinsohn, E.	ARO, Min. Ag.																			
Burger, Y.	ARO, Min. Ag.																			
Schaffer, A.A.	ARO, Min. Ag.																			
IS-3884-06	<p>Plasticity in the Mechanisms of Phloem Loading</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Wolf, S.</td><td>Hebrew U</td><td></td></tr> <tr> <td>Turgeon, R.</td><td>Cornell U</td><td style="text-align: right;">NY</td></tr> </tbody> </table>	Wolf, S.	Hebrew U		Turgeon, R.	Cornell U	NY	Field Crops & Hort. App. Duration: 3 years												
Wolf, S.	Hebrew U																			
Turgeon, R.	Cornell U	NY																		
IS-3886-06R 3595	<p>Molecular Analyses of Soma-clonal Variation in Date Palm and Banana for Early Identification and Control of Off-types Generation</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Cohen, Y.</td><td>ARO, Min. Ag.</td><td></td></tr> <tr> <td>Cullis, C.A.</td><td>Case Western</td><td style="text-align: right;">OH</td></tr> <tr> <td>Lavi, U.</td><td>ARO, Min. Ag.</td><td></td></tr> </tbody> </table>	Cohen, Y.	ARO, Min. Ag.		Cullis, C.A.	Case Western	OH	Lavi, U.	ARO, Min. Ag.		Field Crops & Hort. App. Duration: 3 years									
Cohen, Y.	ARO, Min. Ag.																			
Cullis, C.A.	Case Western	OH																		
Lavi, U.	ARO, Min. Ag.																			
US-3896-06	<p>The Role of Serine/Threonine O-GlcNAc Modifications in Signaling Networks</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Olszewski, N.E.</td><td>U Minnesota</td><td style="text-align: right;">MN</td></tr> <tr> <td>Weiss, D.</td><td>Hebrew U</td><td></td></tr> </tbody> </table>	Olszewski, N.E.	U Minnesota	MN	Weiss, D.	Hebrew U		Model System & Funct. Biol. App. Duration: 3 years												
Olszewski, N.E.	U Minnesota	MN																		
Weiss, D.	Hebrew U																			
IS-3897-06	<p>Role of Fructokinases in the Development and Function of the Vascular System</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Granot, D.</td><td>ARO, Min. Ag.</td><td></td></tr> <tr> <td>Holbrook, N.M</td><td>Harvard U</td><td style="text-align: right;">MA</td></tr> </tbody> </table>	Granot, D.	ARO, Min. Ag.		Holbrook, N.M	Harvard U	MA	Model System & Funct. Biol. App. Duration: 3 years												
Granot, D.	ARO, Min. Ag.																			
Holbrook, N.M	Harvard U	MA																		
IS-3901-06C 3451	<p>eIF3 Complexes and the eIF3e Subunit in <i>Arabidopsis</i> Development and Translation Initiation</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Chaimovitz, A.D.</td><td>Tel Aviv U</td><td></td></tr> <tr> <td>Von Arnim, A.G.</td><td>U Tennessee</td><td style="text-align: right;">TN</td></tr> </tbody> </table>	Chaimovitz, A.D.	Tel Aviv U		Von Arnim, A.G.	U Tennessee	TN	Model System & Funct. Biol. App. Duration: 3 years												
Chaimovitz, A.D.	Tel Aviv U																			
Von Arnim, A.G.	U Tennessee	TN																		

US-3910-06	Genetic, Genomic and Biochemical Analysis of <i>Arabidopsis Threonine Aldolase</i> and Associated Molecular and Metabolic Networks			Model System & Funct. Biol. App. Duration: 3 years
	Jander, G. Galili, G. Shachar-Hill, Y.	Boyce Thompson Weizmann Inst. Michigan St. U	NY MI	
US-3917-06C <small>3347</small>	Suppression of RNA Silencing by TYLCV During Viral Infection			Plant Protection App. Duration: 3 years
	Citovsky, V. Gafni, Y.	NYSU, Stony Brook ARO, Min. Ag.	NY	
IS-3922-06R <small>3771</small>	A Functional Genomics Approach to Identify Signaling Components Involved in Defense Responses Induced by the Ethylene Inducing Xylanase Elicitor			Plant Protection App. Duration: 3 years
	Avni, A. Mysore, K.S.	Tel Aviv U Noble Foundation	OK	
IS-3928-06	Learning from Nature How to Design Anti-insect Selective Pesticides - Clarification of the Interacting Face between Insecticidal Toxins and their Na-channel Receptors			Plant Protection App. Duration: 3 years
	Gurevitz, M. Catterall, W.A. Gordon, D.	Tel Aviv U U Washington Tel Aviv U	WA	
US-3929-06	Elucidating the Functions of Type III Effectors from Necrogenic and Tumorigenic Bacterial Pathogens			Plant Protection App. Duration: 1 year
	Alfano, J.R. Barash, I. Clemente, T. Staswick, P.E. Sessa, G. Manulis, S.	U Nebraska Tel Aviv U U Nebraska U Nebraska Tel Aviv U ARO, Min. Ag.	NE NE NE	
IS-3930-06R <small>3787</small>	Geminivirus-resistant Tomato Plants: Combining Transgenic and Conventional Strategies for Multi-viral Resistance			Plant Protection App. Duration: 3 years
	Lapidot, M. Hanley-Bowdoin, L. Polston, J.E.	ARO, Min. Ag. N Carolina St. U U Florida	NC FL	
IS-3934-06C <small>3636</small>	Bacteria - Medfly Interactions: a Spatial, Temporal and Functional Study			Plant Protection App. Duration: 3 years
	Jurkovich, E. Lauzon, C.R. Yuval, B. McCombs, S.D.	Hebrew U CA State U Hebrew U USDA, ARS	CA HI	
IS-3945-06R <small>3807</small>	Host Ammonification by Postharvest Pathogens and its Contribution to Fungal Colonization and Symptom Development			Postharvest App. Duration: 3 years
	Prusky, D.B. Vaillancourt, L.J. Fluhr, R.	ARO, Min. Ag. U Kentucky Weizmann Inst.	KY	

IS-3947-06	Identification of Genetic Determinants that Facilitate Development of <i>B. cinerea</i> at Low Temperature and its Postharvest Pathogenicity	Lichter, A. ARO, Min. Ag. Davis, M.R. U Alabama Podila, G.K. U Alabama	AL AL	Postharvest App. Duration: 3 years
US-3949-06	Salmonella enterica Interactions with Fresh Produce	Brandl, M.T. USDA, ARS Sela, S. ARO, Min. Ag. Parker, C. USDA, ARS Rodov, V. ARO, Min. Ag.	CA CA	Postharvest App. Duration: 3 years
IS-3962-07	Unstable Flow in Repellent and Sub-critically Repellent Soils: Theory and Management Implications	Wallach, R. Hebrew U Steenhuis, T. Cornell U Graber, E.R. ARO, Min. Ag. DiCarlo, D. U Texas Parlange, J.Y. Cornell U	NY TX NY	Ag. & the Environment App. Duration: 3 years
IS-3963-07	The Fate of Phosphorus Originated from Treated Wastewater and Biosolids in Soils: Speciation, Transport, and Accumulation	Shenker, M. Hebrew U Bloom, P.R. U Minnesota Shaviv, A.G. Technion Paytan, A. UCA, Santa Cruz Cade-Menun, B. Stanford U Chen, Y. Hebrew U Tarchitzky, J. Isr. Min. Agr.	MN CA CA	Ag. & the Environment App. Duration: 3 years
IS-3979-07	Replication Defective Cyprinid Herpes Virus-3 (CyHV-3) as a Combined Prophylactic Vaccine in Carps	Kotler, M. Hebrew U Hanson, L. Missi. St U Burgess, S.C. Missi. St U	MS MS	Animal Health App. Duration: 3 years
US-3986-07	Use of Oocyte and Embryo Survival Factors to Enhance Fertility of Heat-stressed Dairy Cattle	Hansen, P.J. U Florida Roth, Z. Hebrew U	FL	Animal Production App. Duration: 3 years
IS-3987-07R 3841	Deciphering the Luteal Transcriptome: Insights into the Mechanisms Regulating Corpus Luteum Regression	Meidan, R. Hebrew U Smith, G.W. Michigan St. U	MI	Animal Production App. Duration: 3 years
IS-3988-07R 3695	Enhancing Sustainability of Cattle Production Systems through Discovery of Biomarkers for Feed Efficiency	Brosh, A. ARO, Min. Ag. Carstens, G.E. TX AgriLife Res Johnson, A. WA State U Shabtay, A. ARO, Min. Ag. Miron, J. ARO, Min. Ag. Aharoni, Y. ARO, Min. Ag. Tedeschi, L. TX AgriLife Res Halachmi, I. ARO, Min. Ag.	TX WA TX	Animal Production App. Duration: 3 years

BARD Approved Projects
1997 - 2007

36

03/06/2008

IS-3995-07C 3561	Molecular Mechanisms of Sex Determination in Cultured Tilapias	Aquaculture App. Duration: 3 years
	Hulata, G. ARO, Min. Ag. Kocher, T.D. U Maryland Ron, M. ARO, Min. Ag. Seroussi, E. ARO, Min. Ag.	MD
IS-3997-07	Genetic Basis of Cyprinid Herpes Virus-3 Resistance in Common Carp	Aquaculture App. Duration: 3 years
	David, L. Hebrew U Palti, Y. USDA, ARS Kotler, M. Hebrew U Hulata, G. ARO, Min. Ag. Hallerman, E. M. Virginia Polytech	WV VA
US-3999-07	Simultaneous Treatment of Odorants and Pathogens Emitted from Confined Animal Feeding Operations (CAFOs) by Advanced Oxidation Technologies	Bioengineering & Sensors App. Duration: 1 year
	Koziel, A.J. Iowa St. U Laor, Y. ARO, Min. Ag. Zimmerman, J.J. Iowa St. U Armon, R. Technion Hoff, S.J. Iowa St. U Ravid, U. ARO, Min. Ag.	IA IA IA
IS-4002-07C 3712	Development of Agricultural Sensors Based on Conductive Polymers	Ag. & the Environment App. Duration: 3 years
	Bendikov, M. Weizmann Inst. Harmon, T.C. UCA, Merced	CA
IS-4005-07R 3863	Developing Simulation Tool for the Prediction of Cohesive Behavior Agricultural Materials Using Discrete Element Modeling	Bioengineering & Sensors App. Duration: 3 years
	Shmulevich, I.E. Technion Upadhyaya, S.K. UC, Davis Rubinstein, D. Technion Asaf, Z. Technion Mitchell, J.P. UC, Davis	CA CA CA
US-4010-07C 3575	Sugar and Acid Homeostasis in Citrus Fruit	Field Crops & Hort. App. Duration: 3 years
	Blumwald, E. UC, Davis Sadka, A. ARO, Min. Ag.	CA
IS-4012-07	Regulation of Tomato Fruit Development by Interacting MYB Proteins	Field Crops & Hort. App. Duration: 3 years
	Barg, R. ARO, Min. Ag. Grotewold, E. Ohio St. U Salts, Y. ARO, Min. Ag.	OH
US-4015-07	Molecular and Anatomical Characterization of Sweetpotato Storage Root Formation	Field Crops & Hort. App. Duration: 3 years
	LaBonte, D.R. Louisiana St. U Pressman, E. ARO, Min. Ag. Firon, N. ARO, Min. Ag. Villordon, A. Louisiana St. U	LA LA

IS-4017-07	Role of Polyploidy in Vine Cacti Speciation and Crop Domestication	Field Crops & Hort. App. Duration: 3 years
	Tel-Zur, N. Ben Gurion U Doyle, J. Cornell U	NY
IS-4018-07R	Characterization and Manipulation of the Primary Components in Gibberellin Signaling in the Grape Berry	Field Crops & Hort. App. Duration: 3 years
3881	Or, E. ARO, Min. Ag. Sun, T.P. Duke U Lichter, A. ARO, Min. Ag. Perl, A. ARO, Min. Ag.	NC
US-4024-07	Map-based Cloning of High-temperature Adult Plant Stripe Rust Resistance Gene Yr36 from Wheat	Field Crops & Hort. App. Duration: 3 years
	Dubcovsky, J. UC, Davis Fahima, T. U Haifa Blechl, A.E. USDA, ARS SanMigel, P. Purdue	CA CA IN
US-4027-07	A Biological Systems Approach to Developing Mealiness-free Peach and Nectarine Fruit	Postharvest App. Duration: 3 years
	Crisosto, C. UC, Davis Lurie, S. ARO, Min. Ag. Friedman, H. ARO, Min. Ag. Ogundiwin, E. UC, Davis Peace, C. UC, Davis Manganaris, G. UC, Davis	CA CA CA
IS-4030-07R	The Molecular and <i>in vivo</i> Functions of the Chloroplast Chaperonins	Model System & Funct. Biol. App. Duration: 3 years
3906	Azem, A. Tel Aviv U Lorimer, G.H. U Maryland Breiman, A. Tel Aviv U	MD
IS-4032-07	Elucidating Mechanisms that Connect Activation of ROP GTPases, Membrane Dynamics and Signaling in Cell Growth and Stress Responses	Model System & Funct. Biol. App. Duration: 3 years
	Yalovsky, S. Tel Aviv U McCormick, S.M. USDA, ARS	CA
IS-4033-07	MicroRNA Targeted Transcription Factors for Fruit Quality Improvement	Model System & Funct. Biol. App. Duration: 1 year
	Arazi, T. ARO, Min. Ag. Irish, V.F. Yale Aharoni, A. Weizmann Inst.	CT
IS-4038-07	Studies of Novel Cytoskeletal Regulatory Proteins that are Involved in Abiotic Stress Signaling.	Model System & Funct. Biol. App. Duration: 3 years
	Sadot, E. ARO, Min. Ag. Staiger, C.J. Purdue Abu-Abied, M. ARO, Min. Ag.	IN
US-4041-07C	Modulation of the Redox Climate and Phosphatase Signaling in a Necrotroph: an Axis for Inter- and Intra-cellular Communication that Regulates Development and Pathogenicity	Plant Protection App. Duration: 3 years
3624	Dickman, M.B. TX AgriLife Res Yarden, O. Hebrew U	TX

IS-4047-07	Molecular Interactions of <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> with Tomato	Plant Protection App. Duration: 3 years
	Manulis, S. ARO, Min. Ag.	
	Smart, C.D. Cornell U	NY
	Barash, I. Tel Aviv U	
	Sessa, G. Tel Aviv U	
	Hoch, H. C. NY Agr. Exp. St	NY
US-4048-07R <small>3925</small>	Characterization and Chemistry of Sexual Communication in Two Psyllid Pests of Pears (Homoptera: Psyllidae)	Plant Protection App. Duration: 3 years
	Horton, D.R. USDA, ARS	WA
	Soroker, V. ARO, Min. Ag.	
	Landolt, P.J. USDA, ARS	WA
	Zada, A. ARO, Min. Ag.	
IS-4062-07	Dissection of Whitefly-geminivirus Interactions at the Transcriptomic, Proteomic and Cellular Levels	Plant Protection App. Duration: 3 years
	Ghanim, M. ARO, Min. Ag.	
	Cicero, J. U Arizona	AZ
	Brown, J.K. U Arizona	AZ
	Czosnek, H.H. Hebrew U	
IS-4066-07	The Unexpected Specificity of a Sea Anemone Small Toxin for Insect Na-channels and its Synergic Effects with Various Insecticidal Ligands: A New Model to Mimic	Plant Protection App. Duration: 3 years
	Gordon, D. Tel Aviv U	
	Dong, K.E. Michigan St. U	MI
	Gurevitz, M. Tel Aviv U	
IS-4067-07	Genomic Approaches for Understanding Virulence and Resistance in the Sunflower-Orobanche Host-Parasite Interaction	Plant Protection App. Duration: 3 years
	Joel, D.M. ARO, Min. Ag.	
	Knapp, S. U Georgia	GA
	Tadmor, Y. ARO, Min. Ag.	
IS-4072-07R <small>3950</small>	Do Saponins Present in Model Systems and Legume Bread Modulate Cholesterol Absorption <i>in vitro</i> and <i>in vivo</i>?	Postharvest App. Duration: 3 years
	Kerem, Z. Hebrew U	
	Vodovotz, Y. Ohio St. U	OH
	Bonfil, D.J. ARO, Min. Ag.	
	Schwartz, S.J. Ohio St. U	OH
	Failla, M. Ohio St. U	OH
IS-4073-07C <small>3815</small>	Molecular Studies of Postharvest Leaf and Flower Senescence	Postharvest App. Duration: 3 years
	Meir, S. ARO, Min. Ag.	
	Reid, M.S. UC, Davis	CA
	Jiang, C. UC, Davis	CA
	Lers, A. ARO, Min. Ag.	
	Philosop-Hadas, S. ARO, Min. Ag.	