

Agricultural Innovation and Engineering

IS-#	Project Title	Budget	Total	Duration
IS-3712-05	Development of Agricultural Sensors Based on Conductive Polymers Bendikov, M. Weizmann Inst. Harmon, T.C. UCA, Merced CA		100,000	1 years
US-3715-05	Enhancement of Sensing Technologies for Selective Tree Fruit Identification and Targeting in Robotic Harvesting Systems Burks, F. U Florida FL Alchanatis, V. ARO, Min. Ag. Dixon, W. U Florida FL Levi, O. Ben Gurion U		365,000	3 years
IS-3861-06	Application of Turbulent Transport Techniques for Quantifying Whole Canopy Evapotranspiration in Large Agricultural Structures: Measurement and Theory Tanny, J. ARO, Min. Ag. Katul, G. Duke U NC Cohen, S. ARO, Min. Ag. Teitel, M. ARO, Min. Ag.		295,000	3 years
IS-3864-06	A Whole-Cell Biosensor Panel for Agricultural Endocrine Disruptors Belkin, S. Hebrew U Daunert, S. U Kentucky KY Wells, M.C. Tenn. Tech. U TN		280,000	3 years
US-3999-07	Simultaneous Treatment of Odorants and Pathogens Emitted from Confined Animal Feeding Operations (CAFOs) by Advanced Oxidation Technologies Koziel, A.J. Iowa St. U IA Laor, Y. ARO, Min. Ag. Zimmerman, J.J. Iowa St. U IA Armon, R. Technion Hoff, S.J. Iowa St. U IA Ravid, U. ARO, Min. Ag.		96,000	1 years
IS-4005-07R	Developing Simulation Tool for the Prediction of Cohesive Behavior Agricultural Materials Using Discrete Element Modeling Shmulevich, I.E. Technion Upadhyaya, S.K. UC, Davis CA Rubinstein, D. Technion Asaf, Z. Technion Mitchell, J.P. UC, Davis CA		352,000	3 years
IS-4122-08R	Enhanced Climate Control of Semi-arid and Arid Greenhouses Equipped with Fogging Systems Linker, R. Technion Kacira, M. U Arizona AZ Arbel, A. ARO, Min. Ag. Giacomelli, G.A. U Arizona AZ Kubota, C. U Arizona AZ		305,000	3 years

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Agriculture Economics and Rural Development

IS-3527-04	The economics of contracts in the US and Israel agricultures		Budget	Total	Duration
				245,000	3 years
	Finkelshtain, I.	Hebrew U			
	Melkonyan, A	U Maryland	MD		
	Kachel, Y.	Hebrew U			
US-4096-08	The Use of Branding and Sampling in Agricultural Fresh Produce		Budget	Total	Duration
				300,000	3 years
	Zilberman, D.	UC, Berkeley	CA		
	Heiman, A.	Hebrew U			
	Jin, Y.	Rutgers	NJ		

Animal Health and Invasive Species

Project ID	Project Title	Budget	Total	Duration
US-3535-04R	Chicken infectious anemia virus: immunosuppression, transmission and impact on other diseases		350,000	3 years
	Schat, K.A. Cornell U NY			
	Davidson, I. Isr. Vet. Inst.			
	Heller, E.D. Hebrew U			
US-3538-04CR 2913	Identification of bovine <i>Neospora caninum</i> cytotoxic T-lymphocyte epitopes for development of peptide-based vaccine		80,000	1 years
	Baszler, T.V. WA State U WA			
	Savitsky, I. Isr. Vet. Inst.			
	Davies, C.J. WA State U WA			
	Staska, L.M. WA State U WA			
	Shkap, V. Isr. Vet. Inst.			
IS-3539-04CR 3166	Diagnostic, eco-epidemiology and control of KHV, a new viral pathogen of koi and common carp		290,000	3 years
	Bercovier, H. Hebrew U			
	Hedrick, R. P. UC, Davis CA			
IS-3673-05C 3413	Identification and Characterization of <i>Mycobacterium paratuberculosis</i> Virulence Genes Expressed in vivo by Negative Selection		300,000	3 years
	Shpigel, N.Y. Hebrew U			
	Barletta, R.G. U Nebraska NE			
	Rosenshine, I. Hebrew U			
IS-3678-05R	A Novel Immunotherapeutic Agent for the Treatment and Prevention of Staphylococcal Mastitis in Dairy Cows		325,000	3 years
	Leitner, G. Isr. Vet. Inst.			
	Balaban, N. Tufts U MA			
	Saperstein, G. Tufts U MA			
	Saran, A. Isr. Vet. Inst.			
IS-3679-05	Avian Influenza Virus H9N2: Characterization and Control Strategies		100,000	1 years
	Perk, S. Isr. Vet. Inst.			
	Garcia, M. U Georgia GA			
	Panshin, A. Isr. Vet. Inst.			
	Banet-Noach, C. Isr. Vet. Inst.			
	Gissin, I. Isr. Vet. Inst.			
	Jackwood, M.W. U Georgia GA			
	Stallknecht, D. U Georgia GA			
IS-3682-05	Generation of Avian Pneumovirus Modified Clones for the Development of Attenuated Vaccines		300,000	3 years
	Bacharach, E. Tel Aviv U			
	Goyal, S.M. U Minnesota MN			

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Project ID	Project Title	Budget	Total	Duration
US-3829-06R	Microarray Analysis of <i>Brucella melitensis</i> Pathogenesis		340,000	3 years
	Splitter, G.A. U Wisconsin WI Banai, M. Isr. Vet. Inst.			
IS-3979-07	Replication Defective Cyprinid Herpes Virus-3 (CyHV-3) as a Combined Prophylactic Vaccine in Carps	Budget	Total	Duration
	Kotler, M. Hebrew U Hanson, L. Missi. St U MS Burgess, S.C. Missi. St U MS		280,000	3 years
IS-4100-08C 3679	Characterization and Control Strategies of Low Pathogenic Avian Influenza Virus H9N2	Budget	Total	Duration
	Perk, S. Isr. Vet. Inst. Mundt, E. U Georgia GA 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		315,000	3 years
IS-4105-08	Exploration of the Epidemiology of a Newly Emerging Cattle-Epizootic Hemorrhagic Disease Virus in Israel	Budget	Total	Duration
	Klement, E. Hebrew U Howerth, E. U Georgia GA Wilson, W.C. USDA, ARS WY Stallknecht, D. U Georgia GA Mead, D. U Georgia GA Yadin, H. Isr. Vet. Inst. Lensky, I. Bar Ilan U Galon, N. Haklait		307,000	3 years
IS-4106-08R	Genomic and Organismal Studies to Elucidate the Mechanisms of Infectivity of Entomopathogenic Fungi to Ticks	Budget	Total	Duration
	Samish, M. Isr. Vet. Inst. Churchill, A.C.L. Cornell U NY Glazer, I. ARO, Min. Ag. Gindin, G. ARO, Min. Ag.		345,000	3 years

Animal Production

Project ID	Project Title	Budget	Total	Duration
US-3551-04	Embryo transfer as a tool for improving fertility of heat-stressed dairy cattle		330,000	3 years
	Hansen, P.J. U Florida FL			
	Arav, A. ARO, Min. Ag.			
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		100,000	1 years
	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		340,000	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			
US-3694-05R	Energy Expenditure for Activity in Free Ranging Ruminants: A Nutritional Frontier		310,000	3 years
	Goetsch, A.L. Langston U OK			
	Aharoni, Y. ARO, Min. Ag.			
	Brosh, A. ARO, Min. Ag.			
	Puchala, R. Langston U OK			
	Gipson, A. Langston U OK			
	Henkin, Z. MIGAL R&D			
	Ungar, E.D. ARO, Min. Ag.			
	Dolev, A. MIGAL R&D			
IS-3836-06R	Pre-natal Epigenetic Adaptation to Improve Thermotolerance Acquisition and Performance of Fast-growing Meat-type Chickens		310,000	3 years
	Yahav, S. ARO, Min. Ag.			
	Brake, J.T. N Carolina St. U NC			
	Halevy, O. Hebrew U			
IS-3837-06R	Translational Mechanisms Governing Milk Protein Levels and Composition		310,000	3 years
	Barash, I. ARO, Min. Ag.			
	Rhoads, R.E. LSU Health Sciences Center LA			
US-3986-07	Use of Oocyte and Embryo Survival Factors to Enhance Fertility of Heat-stressed Dairy Cattle		307,000	3 years
	Hansen, P.J. U Florida FL			
	Roth, Z. Hebrew U			

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IS-3987-07R	Deciphering the Luteal Transcriptome: Insights into the Mechanisms Regulating Corpus Luteum Regression	Budget	Total	Duration
			325,000	3 years
	Meidan, R.	Hebrew U		
	Smith, G.W.	Michigan St. U	MI	
IS-3988-07R	Enhancing Sustainability of Cattle Production Systems through Discovery of Biomarkers for Feed Efficiency	Budget	Total	Duration
			330,000	3 years
	Brosh, A.	ARO, Min. Ag.		
	Carstens, G.E.	TX AgriLife Res	TX	
	Johnson, A.	WA State U	WA	
	Shabtay, A.	ARO, Min. Ag.		
	Miron, J.	ARO, Min. Ag.		
	Aharoni, Y.	ARO, Min. Ag.		
	Tedeschi, L.	TX AgriLife Res	TX	
	Halachmi, I.	ARO, Min. Ag.		
	Arieli, A.	Hebrew U		
US-4113-08	Nutrition of the Developing Chick Embryo: Nutrient Uptake Systems of the Yolk Sac Membrane and Embryonic Intestine	Budget	Total	Duration
			300,000	3 years
	Wong, E.A.	Virginia Polytech	VA	
	Uni, Z.	Hebrew U		
US-4117-08R	Development and Use of Leptin Receptor Antagonists to Increase Appetite and Adaptive Metabolism in Ruminants	Budget	Total	Duration
			303,000	3 years
	Boisclair, Y. R.	Cornell U	NY	
	Gertler, A.	Hebrew U		

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Aquaculture

IS-3561-04	Elucidating the molecular pathway of sex determination in cultured Tilapias and use of genetic markers for creating monosex populations	Budget	Total	Duration
			320,000	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	Budget	Total	Duration
			280,000	3 years
	Koven, W.	Isr. Ocean. Res.		
	Grau, E.G.	U Hawaii		HI
	Ron, B.	Isr. Ocean. Res.		
	Hirano, T.	U Hawaii		HI
IS-3703-05	Interactions Between the GH-IGF axis and Myostatin in Regulating Muscle Growth in Sparus aurata	Budget	Total	Duration
			300,000	3 years
	Funkenstein, B.	Isr. Ocean. Res.		
	Du, J.S-J.	UMD Marine BioTech		MD
IS-3853-06R	Production of Seed Stocks for Sustainable Tank Cultivation of the Red Edible Seaweed Porphyra	Budget	Total	Duration
			218,000	3 years
	Israel, A.	Isr. Ocean. Res.		
	Merrill, J.E.	Michigan St. U		MI
IS-3995-07C 3561	Molecular Mechanisms of Sex Determination in Cultured Tilapias	Budget	Total	Duration
			288,000	3 years
	Hulata, G.	ARO, Min. Ag.		
	Kocher, T.D.	U Maryland		MD
	Ron, M.	ARO, Min. Ag.		
	Seroussi, E.	ARO, Min. Ag.		
IS-3997-07	Genetic Basis of Cyprinid Herpes Virus-3 Resistance in Common Carp	Budget	Total	Duration
			320,000	3 years
	David, L.	Hebrew U		
	Palti, Y.	USDA, ARS		WV
	Kotler, M.	Hebrew U		
	Hulata, G.	ARO, Min. Ag.		
	Hallerman, E. M.	Virginia Polytech		VA

Crop Health and Invasive Species

Project ID	Project Title	Budget	Total	Duration
IS-3622-04R	Global functional genomics of plant cell transformation by agrobacterium Ron, E.Z. Tel Aviv U Nester, E.W. U Washington WA		320,000	3 years
US-3623-04	Functional analysis of virus and host components that mediate potyvirus-induced diseases Whitham, S.A. Iowa St. U IA Gal-On, A. ARO, Min. Ag. Arazi, T. ARO, Min. Ag.		325,000	3 years
US-3624-04CR 3094	Involvement of the PKA and MAPK signal transduction pathways in sclerotial morphogenesis in <i>Sclerotinia sclerotiorum</i> Dickman, M.B. U Nebraska NE Yarden, O. Hebrew U Dickman, M.B. TX AgriLife Res TX		290,000	3 years
IS-3633-04R	Biocomplexity and Selective modulation of whitefly symbiont composition Zchori-Fein, E. ARO, Min. Ag. Brown, J.K. U Arizona AZ Katzir, N. ARO, Min. Ag.		100,000	1 years
IS-3634-04C 2978	Molecular characterisation of PBAN-receptors: a basis for the development and screening of antagonists against Pheromone biosynthesis in moth pest species Rafaeli, A. ARO, Min. Ag. Jurenka, R.A. Iowa St. U IA Sander, C. Sloan Kettering NY		310,000	3 years
IS-3636-04	The role of nitrogen-fixing bacteria in survival and reproductive success of <i>Ceratitis capitata</i>, the Mediterranean fruit fly Jurkevitch, E. Hebrew U Lauzon, C.R. CA State U CA Yuval, B. Hebrew U MacCombs, S.D. USDA, ARS HI		100,000	1 years
US-3774-05C 3260	Gene Expression Patterns in Plants Colonized with Pathogenic and Non-pathogenic Gene Disruption Mutants of <i>Colletotrichum</i> Rodriguez, R.J. U Washington WA Freeman, S. ARO, Min. Ag.		285,000	3 years
IS-3783-05C 3357	Potential of Pest Control by Insect Immunosuppression Chejanovsky, N. ARO, Min. Ag. Webb, B.A. U Kentucky KY		290,000	3 years

Crop Health and Invasive Species

Project ID	Project Title	Budget	Total	Duration
IS-3784-05	Role of RNA Silencing Suppression in the Pathogenicity and Host Specificity of the Grapevine Virus A Mawassi, M. ARO, Min. Ag. Dolja, V.V. Oregon St. U OR		300,000	3 years
IS-3785-05C 3237	Role of GRAS Transcription Factors in Tomato Disease Resistance and Basal Defense Sessa, G. Tel Aviv U Martin, G.B. Boyce Thompson NY		315,000	3 years
US-3789-05R	Genetically Engineered Microbial Agents for Biocontrol of Plant Fungal Diseases 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		310,000	3 years
IS-3793-05	Secondary Metabolites, Stress, and Signaling: Roles and Regulation of Peptides Produced by Non-ribosomal Peptide Synthetases Horwitz, B.A. Technion Turgeon, B.G. Cornell U NY		340,000	3 years
US-3917-06C 3347	Suppression of RNA Silencing by TYLCV During Viral Infection Citovsky, V. NYSU, Stony Brook NY Gafni, Y. ARO, Min. Ag.		300,000	3 years
IS-3922-06R	A Functional Genomics Approach to Identify Signaling Components Involved in Defense Responses Induced by the Ethylene Inducing Xylanase Elicitor Avni, A. Tel Aviv U Mysore, K.S. Noble Foundation OK		310,000	3 years
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 Gurevitz, M. Tel Aviv U Catterall, W.A. U Washington WA Gordon, D. Tel Aviv U		295,000	3 years
US-3929-06	Elucidating the Functions of Type III Effectors from Necrogenic and Tumorigenic Bacterial Pathogens Alfano, J.R. U Nebraska NE Barash, I. Tel Aviv U Clemente, T. U Nebraska NE Staswick, P.E. U Nebraska NE Sessa, G. Tel Aviv U Manulis, S. ARO, Min. Ag.		100,000	1 years

Crop Health and Invasive Species

IS-#	Project Title	Budget	Total	Duration
IS-3930-06R	Geminivirus-resistant Tomato Plants: Combining Transgenic and Conventional Strategies for Multi-viral Resistance		345,000	3 years
	Lapidot, M. ARO, Min. Ag.			
	Hanley-Bowdoin, L. N Carolina St. U NC			
	Polston, J.E. U Florida FL			
	Reuveni, J. Hebrew U			
	Reuveni, M. ARO, Min. Ag.			
IS-3934-06C 3636	Bacteria - Medfly Interactions: a Spatial, Temporal and Functional Study	Budget	Total	Duration
	Jurkevitch, E. Hebrew U		270,000	3 years
	Lauzon, C.R. CA State U CA			
	Yuval, B. Hebrew U			
	McCombs, S.D. USDA, ARS HI			
US-4041-07C 3624	Modulation of the Redox Climate and Phosphatase Signaling in a Necrotroph: an Axis for Inter- and Intra-cellular Communication that Regulates Development and Pathogenicity	Budget	Total	Duration
	Dickman, M.B. TX AgriLife Res TX		290,000	3 years
	Yarden, O. Hebrew U			
IS-4047-07	Molecular Interactions of <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> with Tomato	Budget	Total	Duration
	Manulis, S. ARO, Min. Ag.		280,000	3 years
	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	Characterization and Chemistry of Sexual Communication in Two Psyllid Pests of Pears (Homoptera: Psyllidae)	Budget	Total	Duration
	Horton, D.R. USDA, ARS WA		273,000	3 years
	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	Budget	Total	Duration
	Ghanim, M. ARO, Min. Ag.		275,000	3 years
	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	Budget	Total	Duration
	Gordon, D. Tel Aviv U		270,000	3 years
	Dong, K.E. Michigan St. U MI			
	Gurevitz, M. Tel Aviv U			

Crop Health and Invasive Species

IS-#	Project Title	Budget	Total	Duration
IS-4067-07	Genomic Approaches for Understanding Virulence and Resistance in the Sunflower-Orobanche Host-Parasite Interaction Joel, D.M. ARO, Min. Ag. Knapp, S.J. U Georgia GA Tadmor, Y. ARO, Min. Ag.		305,000	3 years
IS-4155-08	One Host, Two Associated Pests: Responses of Tomato Plants to Whiteflies and Broad Mites Perl-Treves, R. Bar Ilan U Walling, L.L. UC, Riverside CA Soroker, V. ARO, Min. Ag.		117,000	1 years
US-4158-08	Broad-spectrum Resistance to Root-Knot Nematodes in Transgenic Cucurbits Davis, E.L. N Carolina St. U NC Zelcer, A. ARO, Min. Ag. Gal-On, A. ARO, Min. Ag. Oka, Y. ARO, Min. Ag. Wehner, T.C. N Carolina St. U NC		322,000	3 years
IS-4159-08C 3785	MAP Kinase Cascades Activated by SIMAPKKKε and their Involvement in Tomato Resistance to Bacterial Pathogens Sessa, G. Tel Aviv U Martin, G.B. Boyce Thompson NY		275,000	3 years
IS-4163-08C 3634	Molecular Characterization of PBAN G-protein Coupled Receptors in Moth Pest Species: Design of Antagonists Rafaeli, A. ARO, Min. Ag. Jurenka, R.A. Iowa St. U IA		285,000	3 years
US-4165-08C 3623	Post-transcriptional Regulation of Host Genes Involved with Symptom Expression in Potyviral Infections Whitham, S.A. Iowa St. U IA Gal-On, A. ARO, Min. Ag. Gaba, V.P. ARO, Min. Ag.		307,000	3 years
IS-4167-08C 3793	Fungal Iron Acquisition, Oxidative Stress and Virulence in the Cochliobolus-maize Interaction Horwitz, B.A. Technion Turgeon, B.G. Cornell U NY		285,000	3 years
IS-4169-08R	Identifying <i>Arabidopsis thaliana</i> Defense Genes to Phloem-feeding Insects Morin, S. Hebrew U Walker, G.P. UC, Riverside CA Walling, L.L. UC, Riverside CA Aharoni, A. Weizmann Inst.		345,000	3 years

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Project ID	Project Title	Budget	Total	Duration
US-3573-04C 3224	Validation of a candidate gene for increased grain protein content in wheat		305,000	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	Citric acid metabolism and mobilization in citrus fruit		325,000	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		325,000	3 years
	Ginzberg, I. ARO, Min. Ag.			
	De Jong, W.S. Cornell U NY			
IS-3721-05R	Remote Sensing of Crop Physiological Parameters for Improved Nitrogen Management in Semi-Arid Wheat Production Systems		280,000	3 years
	Bonfil, D.J. ARO, Min. Ag.			
	Long, D.S. USDA, ARS OR			
	Cohen, Y. ARO, Min. Ag.			
IS-3723-05	Enhancing the Rate of Meiotic Crossing-Over for Plant Breeding		310,000	3 years
	Levy, A.A. Weizmann Inst.			
	Weil, C. F. Purdue IN			
	Pawlowski, P. Cornell U NY			
IS-3733-05R	Increasing Starch Accumulation via Genetic Modification of the ADP-glucose Pyrophosphorylase		355,000	3 years
	Schaffer, A.A. ARO, Min. Ag.			
	Preiss, J. Michigan St. U MI			
	Petreikov, M. ARO, Min. Ag.			
	Levin, I. ARO, Min. Ag.			
US-3735-05C 3139	Ethylene Mediated Regulation of Cucumis Reproduction - from Sex Expression to Fruit Set		295,000	3 years
	Grumet, R. Michigan St. U MI			
	Perl-Treves, R. Bar Ilan U			
	Staub, J.E. USDA, ARS WI			
IS-3738-05R	Molecular Identification and Characterization of Heat-Stress-Responsive Microgametogenesis Genes in Tomato and Sorghum - A Feasibility Study		100,000	1 years
	Firon, N. ARO, Min. Ag.			
	Chourey, P.S. USDA, ARS FL			
	Pressman, E. ARO, Min. Ag.			
	Hartwell, A.L. USDA, ARS FL			
	Boote, K.J. U Florida FL			

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Project ID	Project Title	Budget	Total	Duration
US-3746-05R	Structural and Functional Genomic Approaches for Marking and Identifying Genes that Control Chilling Requirement in Apricot and Peach Trees		310,000	3 years
	Abbott, A.G. Clemson U SC			
	Holland, D. ARO, Min. Ag.			
	Bielenberg, D.G. Clemson U SC			
	Reighard, L. Clemson U SC			
IS-3869-06	Tomato Natural Insecticides: Elucidation of the Complex Pathway of Methylketone Biosynthesis		315,000	3 years
	Fridman, E. Hebrew U			
	Pichersky, E. U Michigan MI			
US-3870-06C 3034	Integrative Physical and Genetic Mapping of the Chickpea Genome for Fine Mapping and Analysis of Agronomic Traits		300,000	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	Building Consensus Genetic Maps for Maize and Wheat		283,000	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	Genomic Approach to the Improvement of Fruit Quality in Melon (<i>Cucumis melo</i>) and Related Cucurbit Crops II: Functional Genomics		290,000	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	Plasticity in the Mechanisms of Phloem Loading		324,000	3 years
	Wolf, S. Hebrew U			
	Turgeon, R. Cornell U NY			
IS-3886-06R	Molecular Analyses of Soma-clonal Variation in Date Palm and Banana for Early Identification and Control of Off-types Generation		284,000	3 years
	Cohen, Y. ARO, Min. Ag.			
	Cullis, C.A. Case Western OH			
	Lavi, U. ARO, Min. Ag.			

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Project ID	Project Title	Budget	Total	Duration
US-4010-07C 3575	Sugar and Acid Homeostasis in Citrus Fruit		322,000	3 years
	Blumwald, E. UC, Davis CA Sadka, A. ARO, Min. Ag.			
IS-4012-07	Regulation of Tomato Fruit Development by Interacting MYB Proteins		275,000	3 years
	Barg, R. ARO, Min. Ag. Grotewold, E. Ohio St. U OH Salts, Y. ARO, Min. Ag.			
US-4015-07	Molecular and Anatomical Characterization of Sweetpotato Storage Root Formation		295,000	3 years
	LaBonte, D.R. Louisiana St. U LA Pressman, E. ARO, Min. Ag. Firon, N. ARO, Min. Ag. Villordon, A. Louisiana St. U LA			
IS-4017-07	Role of Polyploidy in Vine Cacti Speciation and Crop Domestication		272,000	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		355,000	3 years
	Or, E. ARO, Min. Ag. Sun, T.P. Duke U NC Lichter, A. ARO, Min. Ag. Perl, A. ARO, Min. Ag.			
US-4024-07	Map-based Cloning of High-temperature Adult Plant Stripe Rust Resistance Gene Yr36 from Wheat		267,000	3 years
	Dubcovsky, J. UC, Davis CA Fahima, T. U Haifa Blechl, A.E. USDA, ARS CA SanMiguel, P. Purdue IN			
IS-4125-08C 3332	The Molecular and Biochemical Basis of Terpenoid Aroma Formation in Tomato		305,000	3 years
	Lewinsohn, E. ARO, Min. Ag. Dudareva, N. Purdue IN Sitrit, Y. Ben Gurion U Pichersky, E. U Michigan MI			
US-4128-08	Genetic Linkage Mapping of Basil (<i>Ocimum basilicum</i>)		100,000	1 years
	Belanger, F.C. Rutgers NJ Dudai, N. ARO, Min. Ag. Katzir, N. ARO, Min. Ag. Simon, J.E. Rutgers NJ			

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IS-4134-08R	Identification and Allelic Variation of Genes Involved in the Potato Glycoalkaloid Biosynthetic Pathway			Budget	Total	Duration
					318,000	3 years
	Ginzberg, I.	ARO, Min. Ag.				
	Veilleux, R.E.	Virginia Polytech	VA			
	Tokuhisa, J.	Virginia Polytech	VA			
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>			Budget	Total	Duration
					341,000	3 years
	Breiman, A.	Tel Aviv U				
	Dvorak, J.	UC, Davis	CA			
	Korol, A.B.	U Haifa				
	Akhunov, E.	Kansas St. U	KS			

Environment/Water/Renewable Resources

			Budget	Total	Duration
US-3507-04R	Enhancement of plant disease resistance and productivity through use of root symbiotic fungi			310,000	3 years
	Harman, G.E.	Cornell U			NY
	Chet, I.	Hebrew U			
	Viterbo, A.	Weizmann Inst.			
IS-3512-04	Ecology of seed-colonizing microbial communities: influence of soil and plant factors and implications for rhizosphere microbiology			330,000	3 years
	Minz, D.	ARO, Min. Ag.			
	Nelson, E.B.	Cornell U			NY
	Hadar, Y.	Hebrew U			
IS-3517-04R	Effects of soil properties and organic residues management on C sequestration and N losses			340,000	3 years
	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
IS-3522-04R	Elimination of emissions of ammonia and hydrogen sulfide from confined animal and feeding operations (CAFO) using an adsorption/liquid-redox process with biological regeneration			330,000	3 years
	Lahav, O.	Technion			
	Heber, A.J.	Purdue			IN
	Broday, D.	Technion			
IS-3656-05R	Novel Herbicide Formulations for Conservation-Tillage			345,000	3 years
	Assouline, S.	ARO, Min. Ag.			
	Potter, T.	USDA, ARS			GA
	Wauchope, R.D.	USDA, ARS			GA
	Bosch, D.D.	USDA, ARS			GA
	Strickland, T.	USDA, ARS			GA
	Truman, C.T.	USDA, ARS			GA
	Webster, T.	USDA, ARS			GA
	Gerstl, Z.	ARO, Min. Ag.			
	Rubin, B.	Hebrew U			
	Nir, S.	Hebrew U			
	Mishael, Y.G.	Hebrew U			
	Tal, A.	Hebrew U			

Environment/Water/Renewable Resources

Project ID	Project Title	Budget	Total	Duration
US-3662-05R	Multi-Dimensional Infiltration and Distribution of Water of Different Qualities and Solutes Related Through Artificial Neural Networks		365,000	3 years
	Warrick, A.W. U Arizona AZ			
	Oron, G. Ben Gurion U			
	Poulton, M. U Arizona AZ			
	Wallach, R. Hebrew U			
	Furman, A. Technion			
IS-3822-06	Sorption and Mobility of Pharmaceutical Compounds in Soils Irrigated with Treated Wastewater	Budget	Total	Duration
			315,000	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	Budget	Total	Duration
			344,000	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	Budget	Total	Duration
			100,000	1 years
	Shani, U. Hebrew U			
	Dudley, L.M. Florida St. U FL			
	Ben-Gal, A. ARO, Min. Ag.			
	Moshelion, M. Hebrew U			
	Wu, Y. Utah St U UT			
IS-3962-07	Unstable Flow in Repellent and Sub-critically Repellent Soils: Theory and Management Implications	Budget	Total	Duration
			327,000	3 years
	Wallach, R. Hebrew U			
	Steenhuis, T. Cornell U NY			
	Graber, E.R. ARO, Min. Ag.			
	DiCarlo, D. U Texas at Austin TX			
	Parlange, J.Y. Cornell U NY			
IS-3963-07	The Fate of Phosphorus Originated from Treated Wastewater and Biosolids in Soils: Speciation, Transport, and Accumulation	Budget	Total	Duration
			335,000	3 years
	Shenker, M. Hebrew U			
	Bloom, P.R. U Minnesota MN			
	Shaviv, A.G. Technion			
	Paytan, A. UCA, Santa Cruz CA			
	Cade-Menun, B. Stanford U CA			
	Chen, Y. Hebrew U			
	Tarchitzky, J. Isr. Min. Agr.			

Environment/Water/Renewable Resources

IS-#	Project Title	Budget	Total	Duration
IS-4002-07C 3712	Development of Agricultural Sensors Based on Conductive Polymers Bendikov, M. Weizmann Inst. Harmon, T.C. UCA, Merced CA		312,000	3 years
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 Hochman, A. Tel Aviv U Nash III, H. Arizona St. U AZ Padgett, Pamela USDA-FS CA		100,000	1 years
IS-4090-08R	Development of Predictive Tools for Contaminant Transport through Variably-Saturated Heterogeneous Composite Porous Formations Russo, D. ARO, Min. Ag. Tartakovsky, D.M. UC, San Diego CA Neuman, S.P. U Arizona AZ		294,000	3 years

Food Product-Safety, Security, Quality

IS-#	Project Title	Budget	Total	Duration
IS-3645-04	Study of the regulatory mechanism involved in dark-induced Postharvest leaf senescence Lers, A. ARO, Min. Ag. Susheng, G. Cornell U NY		295,000	3 years
IS-3647-04CR 1644	Improvement of quality and nutritional value of muscle foods Kanner, J. ARO, Min. Ag. Richards, M.P. U Wisconsin WI Kohen, R. Hebrew U Reed, J.D. U Wisconsin WI		300,000	3 years
US-3655-04R	Entrapment and controlled release of nutraceuticals from double emulsions stabilized by pectin-protein hybrids Wicker, L. U Georgia GA Garti, N. Hebrew U		320,000	3 years
IS-3802-05	A Novel Approach to Mycotoxin Detoxification in Farm Animals Using Probiotics Added to Feed Stuffs 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		365,000	3 years
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 Friedman, H. ARO, Min. Ag. Vrebalov, J. Boyce Thompson NY Giovannoni, J. Boyce Thompson NY Pesis, E. ARO, Min. Ag.		280,000	3 years
IS-3815-05	Molecular Studies of Postharvest Leaf and Flower Abscission 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.		100,000	1 years
IS-3945-06R	Host Ammonification by Postharvest Pathogens and its Contribution to Fungal Colonization and Symptom Development Prusky, D.B. ARO, Min. Ag. Vaillancourt, L.J. U Kentucky KY Fluhr, R. Weizmann Inst.		330,000	3 years

Food Product-Safety, Security, Quality

IS-#	Project Title	Budget	Total	Duration
IS-3947-06	Identification of Genetic Determinants that Facilitate Development of <i>B. cinerea</i> at Low Temperature and its Postharvest Pathogenicity		324,000	3 years
	Lichter, A. ARO, Min. Ag.			
	Davis, M.R. U Alabama AL			
	Podila, G.K. U Alabama AL			
US-3949-06	<i>Salmonella enterica</i> Interactions with Fresh Produce	Budget	Total	Duration
			324,000	3 years
	Brandl, M.T. USDA, ARS CA			
	Sela, S. ARO, Min. Ag.			
	Parker, C. USDA, ARS CA			
	Rodov, V. ARO, Min. Ag.			
US-4027-07	A Biological Systems Approach to Developing Mealiness-free Peach and Nectarine Fruit	Budget	Total	Duration
			314,000	3 years
	Crisosto, C. UC, Davis CA			
	Lurie, S. ARO, Min. Ag.			
	Friedman, H. ARO, Min. Ag.			
	Ogundiwin, E. UC, Davis CA			
	Peace, C. UC, Davis CA			
	Manganaris, G. UC, Davis CA			
IS-4072-07R	Do Saponins Present in Model Systems and Legume Bread Modulate Cholesterol Absorption <i>in vitro</i> and <i>in vivo</i>?	Budget	Total	Duration
			330,000	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 3815	Molecular Studies of Postharvest Leaf and Flower Senescence	Budget	Total	Duration
			290,000	3 years
	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-4179-08R	Study of the Physiological, Molecular and Genetic Factors Associated with Postharvest Water Loss in Pepper Fruit	Budget	Total	Duration
			312,000	3 years
	Fallik, E. ARO, Min. Ag.			
	Jenks, M.A. Purdue IN			
	Paran, I. ARO, Min. Ag.			
IS-4180-08	Analysis of Small RNAs Associated with Plant Senescence	Budget	Total	Duration
			305,000	3 years
	Lers, A. ARO, Min. Ag.			
	Green, P.J. U Delaware DE			

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Food Product-Safety, Security, Quality

IS-4181-08

**Application of Pre-storage Short Anaerobiosis to
Alleviate Superficial Scald and Bitter Pit in Granny
Smith Apples**

Budget

Total

Duration

300,000

3 years

Pesis, E.

ARO, Min. Ag.

Mitcham, E.J.

UC, Davis

CA

Ebeler, S.E.

UC, Davis

CA

Lers, A.

ARO, Min. Ag.

**Model System and Functional Biology in the Service of
Agriculture**

Project ID	Project Title	Budget	Total	Duration
IS-3604-04CR 3158	Regulation of plant development by polycomb group proteins Ohad, N. Tel Aviv U Fischer, R.L. UC, Berkeley CA		300,000	3 years
IS-3605-04CR 3177	Integration of phosphorus and chloroplast mRNA metabolism through regulated ribonucleases Schuster, G. Technion Stern, D.B. Boyce Thompson NY		290,000	3 years
US-3756-05	Mechanism of Internal Initiation of Translation in Plants Belostotsky, D.A. U Missouri - KC MO Elroy-Stein, O. Tel Aviv U		285,000	3 years
IS-3764-05	Nuclear Encoded RNA Splicing Factors in Plant Mitochondria Ostersetzer, O. ARO, Min. Ag. Barkan, A. U Oregon OR		285,000	3 years
IS-3767-05C 3328	Harnessing Fine Scale Tuning of Endogenous Plant Regulatory Processes for Manipulation of Organ Growth Eshed, Y. Weizmann Inst. Bowman, J.L. UC, Davis CA		285,000	3 years
US-3896-06	The Role of Serine/Threonine O-GlcNAc Modifications in Signaling Networks Olszewski, N.E. U Minnesota MN Weiss, D. Hebrew U		342,000	3 years
IS-3897-06	Role of Fructokinases in the Development and Function of the Vascular System Granot, D. ARO, Min. Ag. Holbrook, N.M. Harvard U MA		285,000	3 years
IS-3901-06C 3451	eIF3 Complexes and the eIF3e Subunit in Arabidopsis Development and Translation Initiation Chaimovitz, A.D. Tel Aviv U Von Arnim, A.G. U Tennessee TN		280,000	3 years
US-3910-06	Genetic, Genomic and Biochemical Analysis of Arabidopsis Threonine Aldolase and Associated Molecular and Metabolic Networks Jander, G. Boyce Thompson NY Galili, G. Weizmann Inst. Shachar-Hill, Y. Michigan St. U MI		330,000	3 years

**Model System and Functional Biology in the Service of
Agriculture**

IS-#	Project Title	Budget	Total	Duration
IS-4030-07R	The Molecular and <i>in vivo</i> Functions of the Chloroplast Chaperonins		275,000	3 years
	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	Budget	Total	Duration
	Yalovsky, S. Tel Aviv U McCormick, S.M. USDA, ARS		290,000	3 years
				CA
IS-4033-07	MicroRNA Targeted Transcription Factors for Fruit Quality Improvement	Budget	Total	Duration
	Arazi, T. ARO, Min. Ag. Irish, V.F. Yale Aharoni, A. Weizmann Inst.		110,000	1 years
				CT
IS-4038-07	Studies of Novel Cytoskeletal Regulatory Proteins that are Involved in Abiotic Stress Signaling.	Budget	Total	Duration
	Sadot, E. ARO, Min. Ag. Staiger, C.J. Purdue Abu-Abied, M. ARO, Min. Ag.		275,000	3 years
				IN
IS-4140-08C 3453	The Role of GOBLET and Auxin in Controlling Organ Development and Patterning	Budget	Total	Duration
	Ori, N. Hebrew U Estelle, M. UC, San Diego		285,000	3 years
				CA
IS-4141-08	A Novel Lectin Controls Wound-responses in Arabidopsis	Budget	Total	Duration
	Fluhr, R. Weizmann Inst. Bar-Peled, M. U Georgia		324,000	3 years
				GA
IS-4143-08R	Studying the Involvement of the Linker Protein CWLP and its Homologue in Cytoskeleton-plasma Membrane-cell Wall Continuum and in Drought Tolerance	Budget	Total	Duration
	Zilberstein, A. Tel Aviv U Liu, B. UC, Davis Sadot, E. ARO, Min. Ag.		300,000	3 years
				CA
US-4150-08	Controlling Early Stages of DNA Repair for Gene-targeting Enhancement in Plants	Budget	Total	Duration
	Tzfira, T. U Michigan Levy, A.A. Weizmann Inst.		333,000	3 years
				MI
IS-4152-08C 3605	Integrated Studies of Chloroplast Ribonucleases	Budget	Total	Duration
	Schuster, G. Technion Stern, D.B. Boyce Thompson		272,000	3 years
				NY

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