

Agricultural Innovation & Engineering Technologies

US-4280-10R **Automated imaging broiler chicksexing for gender-specific and efficient production**

App. Duration: 3 years

4257

Tao, Y.	U Maryland	MD
Mizrach, A.	ARO, Min. Ag.	
Alchanatis, V.	ARO, Min. Ag.	
Shamir, N.	ARO, Min. Ag.	
Porter, T.E.	U Maryland	MD

Animal Health & Invasive Species

IS-4281-10R	Identification of genes involved in virulence of <i>Escherichia coli</i> mastitis by signature tagged mutagenesis	App. Duration: 3 years																					
4189	<table border="0"> <tr> <td>Shpigel, N.Y.</td> <td>Hebrew U</td> <td></td> </tr> <tr> <td>Schukken, Y.H.</td> <td>Cornell U</td> <td>NY</td> </tr> <tr> <td>Rosenshine, I.</td> <td>Hebrew U</td> <td></td> </tr> </table>	Shpigel, N.Y.	Hebrew U		Schukken, Y.H.	Cornell U	NY	Rosenshine, I.	Hebrew U														
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Rosenshine, I.	Hebrew U																						
IS-4287-10	Discovery and reconstitution of cross-reactive vaccine targets for H5 and H9 avian influenza	App. Duration: 3 years																					
	<table border="0"> <tr> <td>Gershoni, J.M.</td> <td>Tel Aviv U</td> <td></td> </tr> <tr> <td>Swayne, D.E.</td> <td>USDA, ARS</td> <td>GA</td> </tr> <tr> <td>Pupko, T.</td> <td>Tel Aviv U</td> <td></td> </tr> <tr> <td>Perk, S.</td> <td>Isr. Vet. Inst.</td> <td></td> </tr> <tr> <td>Panshin, A.</td> <td>Isr. Vet. Inst.</td> <td></td> </tr> <tr> <td>Lublin, A.</td> <td>Isr. Vet. Inst.</td> <td></td> </tr> <tr> <td>Golander, N.</td> <td>Isr. Vet. Inst.</td> <td></td> </tr> </table>	Gershoni, J.M.	Tel Aviv U		Swayne, D.E.	USDA, ARS	GA	Pupko, T.	Tel Aviv U		Perk, S.	Isr. Vet. Inst.		Panshin, A.	Isr. Vet. Inst.		Lublin, A.	Isr. Vet. Inst.		Golander, N.	Isr. Vet. Inst.		
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IS-4290-10	Honeybee modulation of infection with the Israeli acute paralysis virus, in asymptomatic, acutely infected and CCD colonies	App. Duration: 3 years																					
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BARD Approved Projects
Award Year 2010
Crop Health & Invasive Species

6/15/2010

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US-4304-10R 4209	Rickettsia in the whitefly <i>Bemisia tabaci</i>: Phenotypic variants and fitness effects Hunter, M.S. Zchori-Fein, E.	U Arizona ARO, Min. Ag.	AZ	App. Duration: 3 years
US-4309-10	Rootstock delivery of PGIPs for pathogen protection in grafted tomatoes Labavitch, J.M. Edelstein, M. Powell, A.L.T. Fallik, E.	UC, Davis ARO, Min. Ag. UC, Davis ARO, Min. Ag.	CA CA	App. Duration: 1 year
IS-4312-10	The involvement of <i>N</i>-Acylethanolamines in signal transduction of microbial associated molecular pattern (MAMPs) perception Avni, A. Chapman, K.D.	Tel Aviv U U No. Texas	TX	App. Duration: 3 years
IS-4313-10C 3928	The face of interaction of anti-insect selective toxins with receptor site-3 on voltage-gated sodium channels as a platform for design of novel selective insecticides Gurevitz, M. Catterall, W.A. Gordon, D.	Tel Aviv U U Washington Tel Aviv U	WA	App. Duration: 3 years
IS-4314-10C 3784	Role of the viral AlkB homologs in RNA repair Mawassi, M. Dolja, V.V.	ARO, Min. Ag. Oregon St. U	OR	App. Duration: 3 years
US-4318-10R 4220	Biological control of cereal aphids in wheat: Implications of alternative foods and intraguild predation Lundgren, J.G. Coll, M. Seagraves, M. Harwood, J.D.	USDA, ARS Hebrew U USDA, ARS U Kentucky	SD SD KY	App. Duration: 3 years

Crop Production

IS-4321-10	A three crops test for the ODO breeding method	App. Duration: 3 years
	Tadmor, Y. ARO, Min. Ag.	
	Lippman, Z.B. Cold Spring Harbor NY	
	Jackson, D. Cold Spring Harbor NY	
	Zamir, D. Hebrew U	
US-4322-10	Scent biosynthesis in petunia flowers under normal and adverse environmental conditions	App. Duration: 3 years
	Pichersky, E. U Michigan MI	
	Vainstein, A. Hebrew U	
	Dudareva, N. Purdue IN	
US-4323-10C 4024	Molecular characterization and deployment of the high-temperature adult plant stripe rust resistance gene Yr36 from wheat	App. Duration: 3 years
	Dubcovsky, J. UC, Davis CA	
	Fahima, T. U Haifa	
	Blechl, A.E. USDA, ARS CA	
IS-4325-10	Towards improved grape nutrition and defense: The regulation of stilbene metabolism under drought	App. Duration: 3 years
	Fait, A. Ben Gurion U	
	Cramer, G.R. U Nevada NV	
	Perl, A. ARO, Min. Ag.	
US-4334-10	Protection of the photosynthetic apparatus during desiccation in resurrection plants	App. Duration: 3 years
	Kirchhoff, H. WA State U WA	
	Reich, Z. Weizmann Inst.	
IS-4336-10R 4242	Genetic and cellular networks regulating cell fate at the shoot apical meristem	App. Duration: 3 years
	Eshed-Williams, L. Hebrew U	
	Zilberman, D. UC, Berkeley CA	
IS-4341-10	Whole genome approach for genetic analysis in cucumber: Fruit size as a test case	App. Duration: 3 years
	Sherman, A. ARO, Min. Ag.	
	Grumet, R. Michigan St. U MI	
	Ophir, R. ARO, Min. Ag.	
	Katzir, N. ARO, Min. Ag.	
	Weng, Y. USDA, ARS WI	

BARD Approved Projects
Award Year 2010
Environment/Water/Renewable Resources

6/15/2010

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IS-4353-10	Interactions of engineered nanoparticles with dissolved organic matter (DOM) and organic contaminants in water	App. Duration: 3 years
	Chefetz, B. Hebrew U	
	Xing, B. U Mass MA	
	Chen, Y. Hebrew U	
IS-4356-10	Role of microbiological and geochemical heterogeneity in the fate and transport of nitrogen through the vadose zone	App. Duration: 3 years
	Furman, A. Technion	
	Harter, T. UC, Davis CA	
	Weisbrod, N. Ben Gurion U	
	Parikh, S.J. UC, Davis CA	
	Scow, K.M. UC, Davis CA	
	Shaviv, A.G. Technion	
IS-4360-10	A novel physical-chemical-biological treatment process for swine wastes	App. Duration: 3 years
	Lahav, O. Technion	
	Ergas, S.J. U So Florida FL	
	Green, M. Technion	
	Cunningham, J. U So Florida FL	

BARD Approved Projects
Award Year 2010
Food Product-Safety, Security, Quality

6/15/2010

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IS-4368-10 **Identification of key aroma compounds and optimization of postharvest handling procedures in order to improve sensory quality of mandarins**

App. Duration: 3 years

Porat, R.	ARO, Min. Ag.	
Plotto, A.	USDA, ARS	FL
Baldwin, E.A.	USDA, ARS	FL
McCollum, T.G.	USDA, ARS	FL
Arpaia, M.L.	UC, Riverside	CA
Obenland, D.	USDA, ARS	CA
Lewinsohn, E.	ARO, Min. Ag.	

IS-4371-10C **Elucidating the ripening signaling pathway in banana for improved fruit quality, shelf-life and food security**

3803

App. Duration: 3 years

Friedman, H.	ARO, Min. Ag.	
Vrebalov, J.	Boyce Thompson	NY
Giovannoni, J.	Boyce Thompson	NY