BARD Approved Projects
Award Year 2013

28/05/2013

IS-4576-13R 4482 **A novel approach for preventing *Myxozoan* infection in fish: Control of polar capsule activation**

Agricultural Innovation & Engi

App. Duration: 3 years

Lotan, T.	U Haifa	
Bartholomew, J.	Oregon St. U	OR
Shavit, U.	Technion	
Yossifon, G.	Technion	

IS-4583-13 **Identification of the etiological agent of tilapia disease in the Lake of Galillee**

Animal Health

App. Duration: 1 year

Bacharach, E.	Tel Aviv U	
Lipkin, W.I.	Columbia U	NY
Eldar, A.	Isr. Vet. Inst.	

IS-4592-13 **Early post-hatch thermal stress effects on broiler muscle development and performance**

Animal Production

App. Duration: 3 years

Halevy, O.	Hebrew U	
Velleman, S.	Ohio St. U	OH
Yahav, S.	ARO, Min. Ag.	

US-4599-13R 4401 **The use of aquaculture effluents in spray culture for the production of high protein macroalgae for shrimp aqua-feeds**

Animal Production

App. Duration: 3 years

Mitchell, B.G.	UC, San Diego	CA
Neori, A.	Isr. Ocean. Res.	
Yarish, C.	U Connecticut	CT
Samocha, T.M.	TX AgriLife Res	TX

IS-4605-13C 4237 **Dual role of the TYLCV protein V2 in suppressing the host plant defense**

Crop Health

App. Duration: 3 years

Gafni, Y.	ARO, Min. Ag.	
Citovsky, V.	NYSU, Stony Brook	NY

US-4616-13 **Identifying the genes involved in host root perception by root parasitic weeds: Genetic and transcriptomic analysis of *Orobanche* hybrids differing in signal response specificity**

Crop Health

App. Duration: 3 years

Westwood, J.H.	Virginia Tech	VA
Tadmor, Y.	ARO, Min. Ag.	
Eizenberg, H.	ARO, Min. Ag.	

IS-4622-13 **Development of resistant crop plants to parasitic weeds based on trans-specific gene silencing**

Crop Health

App. Duration: 3 years

Aly, R.	ARO, Min. Ag.	
Yoder, J.I.	UC, Davis	CA

IS-4628-13 **Map-based cloning of the novel stripe rust resistance gene YrG303 and its use to engineer 1B chromosome with multiple beneficial traits**

Crop Production

App. Duration: 3 years

Fahima, T.	U Haifa	
Dubcovsky, J.	UC, Davis	CA

US-4636-13 **Manipulating fruit chloroplasts as a strategy to improve fruit quality**

Crop Production

App. Duration: 3 years

Bennett, A.B.	UC, Davis	CA
Schaffer, A.A.	ARO, Min. Ag.	
Levin, I.	ARO, Min. Ag.	
Petreikov, M.	ARO, Min. Ag.	
Doron-Faigenboim, A.	ARO, Min. Ag.	

IS-4639-13CR 3340 4542 — **Characterization and manipulation of primary components potentially involved in ABA-mediated repression of grape bud dormancy release and in its removal** — Crop Production — App. Duration: 3 years

Or, E.	ARO, Min. Ag.	
Galbraith, D.W.	U Arizona	AZ
Ophir, R.	ARO, Min. Ag.	
Aharoni, A.	Weizmann Inst.	

IS-4652-13R 4524 — **Pollen fertility and the role of ROS and Ca signaling in heat stress tolerance** — Crop Production — App. Duration: 3 years

* Miller, G.	Bar Ilan U	
Harper, J.F.	U Nevada	NV

US-4654-13 — **Antimicrobial and fouling-resistant membranes for treatment of agricultural and municipal wastewater** — Environ/Water/Ren. Res. — App. Duration: 3 years

Husson, S.M.	Clemson U	SC
Freger, V.	Technion	
Herzberg, M.	Ben Gurion U	

US-4656-13 — **Environmental fate of endocrine-disrupting chemicals: Association with biosolids-derived dissolved organic matter** — Environ/Water/Ren. Res. — App. Duration: 3 years

Thompson, M.L.	Iowa St. U	IA
Chefetz, B.	Hebrew U	
* Prater, J.R.	U Wisconsin	WI
Horton, R.	Iowa St. U	IA
Schmidt-Rohr, K.	Iowa St. U	IA

IS-4662-13 — **Soil and rhizosphere microbiome response to treated waste water irrigation** — Environ/Water/Ren. Res. — App. Duration: 3 years

Minz, D.	ARO, Min. Ag.	
Jansson, J.	UC, Berkeley	CA
* Sela, N.	ARO, Min. Ag.	
Hadar, Y.	Hebrew U	

IS-4670-13R 4556 — **Biodegradation of off flavor compounds, geosmin and 2-methylisoborneol, in recirculating aquaculture systems** — Environ/Water/Ren. Res. — App. Duration: 3 years

Van Rijn, J.	Hebrew U	
Post, A.F.	Marine Biol Lab	MA

IS-4671-13CR 4267 4565 — **Investigation of a new mechanism of desiccation-stress tolerance in *Salmonella*** — Food Product — App. Duration: 3 years

Sela, S.	ARO, Min. Ag.	
McClelland, M.	UCA, Irvine	CA

US-4680-13C 4471 — **Antimicrobial functionalized nanoparticles for enhancing food safety and quality** — Food Product — App. Duration: 3 years

* Choudhary, R.	So Illin U	IL
Rodov, V.	ARO, Min. Ag.	
Kohli, P.	So Illin U	IL
* Poverenov, E.	ARO, Min. Ag.	
Haddock, J.	So Illin U	IL
* Shemesh, M.	ARO, Min. Ag.	

US-4683-13R 4569 **Bacterial sensors for food processing environments**

Food Product

App. Duration: 3 years

Dawson, P.	Clemson U	SC
Jelinek, R.	Ben Gurion U	
Hanks, T.	Furman U	SC
Pennington, W.	Clemson U	SC
Northcutt, J.	Clemson U	SC

* Indicates an early career scientist (less than 5 years from first institutional appointment)