



**The United States - Israel**  
**Binational Agricultural Research and Development**  
**Fund**  
*Auxiliary Programs*

BARD-Israel manages a variety of auxiliary programs that are distinct and separate from BARD. These auxiliary programs use funds provisionally allocated to BARD by the Israeli Government and dependent upon the receipt of matching funds from the other locations. BARD's Board of Directors authorized the Executive Director to identify resources in the US or internationally to be used to match the Israeli funds and form a BARD-administered, collaborative agricultural research program to the benefit of scientists in Israel and the partner institution abroad.

BARD's experience and expertise in administrating multinational collaborative agricultural research makes such associations possible. In addition to its regular activities, BARD currently manages collaborative research between scientists in Israel and those at the University of Maryland's Marine Biotechnology Institute, the Texas Department of Agriculture, Cornell University and Agriculture & Ag-Food Canada. This year, the Queensland-Israel Cooperative Agriculture Research Program issued its first call for proposals and these are currently under review.

Information about these programs is available from the BARD office. Click on the links below to see recipients of the auxiliary awards.

[\*Cornell University – Israel \(2004 & 2005\)\*](#)

[\*Texas Department of Agriculture/TIE – Israel \(2004, 2008\)\*](#)

[\*University of Maryland Marine Biotechnology Institute – Israel \(2004, 2008\)\*](#)

[\*Canada – Israel \(2006, 2009\)\*](#)

## Cornell University –Israel

Award Years 2004 & 2005

- CB-9002-04 Identification and gene regulation of the desaturase enzymes involved in sex-pheromone biosynthesis of pest moths infesting grain.**
- Rafaeli, A. ARO, Ministry of Ag.  
Roelofs, W.L. Cornell University  
Zada, A. ARO, Ministry of Ag.
- CB-9006-04 Efficient screening of antibacterial genes by juvenile phase free technology for developing resistance to fire blight in pear and apple trees**
- Flaishman, M.A. ARO, Ministry of Ag.  
Aldwinckle, H.S. Cornell University  
Manulis, S. ARO, Ministry of Ag.  
Malnoy, M. Cornell University
- CB-9016-04 Identification of signaling components involved in tomato resistance to bacterial spot disease**
- Sessa, G. Tel Aviv U  
Martin, G.B. Boyce Thompson Institute
- CB-9020-05 Etiology of the Rugose Wood Disease of Grapevine and Genetic Manipulation of the Associated Vitiviruses**
- Mawassi, M. ARO, Ministry of Ag.  
Fuchs, M. Cornell University
- CB-9025-05 Dark-induced Reactive Oxygen Species Accumulation and Inhibition by Gibberellins: Towards Inhibition of Postharvest Senescence**
- Friedman, H. ARO, Ministry of Ag.  
Watkins, C.B. Cornell University  
Lurie, S. ARO, Ministry of Ag.  
Gan, S. Cornell University
- CB-9027-05 Characterization of Enzymatic Anthocyanin Degradation in Brunfelsia and Potato (Solanaceae) using Biochemical, Proteomic and Genomic Approaches**
- Oren-Shamir, M.I. ARO, Ministry of Ag.  
DeJong, W.S. Cornell University  
Koltai, H. ARO, Ministry of Ag.

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**TDA-TIE/BARD Approved Projects  
2004 - 2008**

<b>TB-8006-04</b>	<b>Improved analysis of thermally sensed crop water status and mapping spatial variability for site specific irrigation scheduling</b>	Texas App. Duration: 3 years
	Alchanatis, V.                      ARO, Min. Ag.	
	Evett, S.R.                         USDA, ARS	TX
	Cohen, S.                         ARO, Min. Ag.	
	Cohen, Y.                         ARO, Min. Ag.	
	Meron, M.                        MIGAL R&D	
	Naor, A.                         MIGAL R&D	
	Howell, T.A.                     USDA, ARS	TX
	Colaizzi, D                      USDA, ARS	TX
	Peters, T.R.                     USDA, ARS	TX
	Saranga, Y.                      Hebrew U	
<b>TB-8008-04</b>	<b>A unified map of ornamental phenotypes in roses</b>	Texas App. Duration: 3 years
	Zamir, D.                         Hebrew U	
	Byrne, D.H.                      Texas A&M	TX
<b>TB-8012-04</b>	<b>Role of obligatory summer dormancy in cool-season perennial grasses for improved semiarid grassland ecosystems</b>	Texas App. Duration: 3 years
	Malinowski, P.                 Texas A&M	TX
	Kigel, J.                         Hebrew U	
	Pinchak, E.                      Texas A&M	TX
<b>TB-8018-04</b>	<b>Grafting as a strategy for disease and stress management in muskmelon production</b>	Texas App. Duration: 3 years
	Cohen, R.                         ARO, Min. Ag.	
	Crosby, M                        Texas A&M	TX
	Edelstein, M.                 ARO, Min. Ag.	
	Jifon, L                         Texas A&M	TX
	Aloni, B.                         ARO, Min. Ag.	
	Katzir, N.                        ARO, Min. Ag.	
	Nerson, H.                      ARO, Min. Ag.	
	Leskovar, D. I.                Texas A&M	TX
<b>TB-8027-04</b>	<b>Use of multiple biological control agents for control of western flower thrips</b>	Texas App. Duration: 3 years
	Heinz, K.M.                     Texas A&M	TX
	Glazer, I.                        ARO, Min. Ag.	
	Coll, M.                         Hebrew U	
	Chau, A.                         Texas A&M	TX
	Chow, A.                        Texas A&M	TX
<b>TB-8031-08</b>	<b>Identification of Novel Elicitors of Induced Resistance from <i>Trichoderma virens</i> for Sustainable and Eco-friendly Management of Foliar Diseases of Cotton and Maize</b>	Texas App. Duration: 3 years
	Horwitz, B.A.                 Technion	
	Kenerley, C.M.                Texas A&M	TX
<b>TB-8035-08</b>	<b>The Effect of pH Modulation and ROS Production by Postharvest Pathogens on Postharvest Disease Development</b>	Texas App. Duration: 3 years
	Prusky, D.                        ARO, Min. Ag.	
	Dickman, M.B.                TX AgriLife Res	TX
	Fluhr, R.                         Weizmann Inst.	

**TDA-TIE/BARD Approved Projects  
2004 - 2008**

<b>TB-8047-08</b>	<b>Cultivation of the Halophyte <i>Salicornia sp.</i> in Modified Constructed Wetlands for Purification of Mariculture Effluent Water and Production of Biodiesel Fuel</b>	Texas App. Duration: 3 years
	Sagi, M. Ben Gurion U Samocho, T.M. Texas A&M TX Shpigel, M. Isr. Ocean. Res.	
<b>TB-8050-08</b>	<b>Combining Elevated Levels of Membrane Fatty Acid Desaturation and Vacuolar H<sup>+</sup>-pyrophosphatase Activity for Improved Drought Tolerance</b>	Texas App. Duration: 3 years
	Barg, R. ARO, Min. Ag. Hirschi, K.D. Texas A&M TX Silber, A. ARO, Min. Ag. Ben-Hayyim, G. ARO, Min. Ag. Salts, Y. ARO, Min. Ag. Binzel, M.L. Texas A&M TX	
<b>TB-8053-08</b>	<b>Enhancing Cotton Fiber Elongation and Cellulose Synthesis by Manipulating Fructokinase Activity</b>	Texas App. Duration: 3 years
	Granot, D. ARO, Min. Ag. Holaday, A.S. Texas Tech TX Allen, R.D. Texas Tech TX	
<b>TB-8056-08</b>	<b>Optimization of Postharvest Storage Conditions to Maintain Fruit Quality and Health Maintaining Properties of Grapefruit</b>	Texas App. Duration: 3 years
	Patil, B.S. TX AgriLife Res TX Porat, R. ARO, Min. Ag. Jayaprakasha, G.K. Texas A&M TX Murthy, K.N.C. Texas A&M TX	

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**UMBI-Israel Approved Projects  
2004 - 2008**

<b>MB-8701-04</b>	<b>Sulfate reduction as a process to promote denitrification in marine recirculated aquaculture systems</b>	MD
	Schreier, H.J. UMD Marine BioTech MD	App. Duration: 3 years
	Van Rijn, J. Hebrew U	
	Tal, Y. UMD Marine BioTech MD	
<b>MB-8705-04</b>	<b>Development of Follistatin and Myostatin technology in enhancing fish muscle growth</b>	MD
	Du, J.S-J. UMD Marine BioTech MD	App. Duration: 3 years
	Funkenstein, B. Isr. Ocean. Res.	
<b>MB-8706-04</b>	<b>Reduction in fish meal and fish oil dependency in feeds for Gilthead Seabream and hybrid Stripped Bass and their effect on product quality and consumer health and acceptance.</b>	MD
	Kissil, G.W. Isr. Ocean. Res.	App. Duration: 3 years
	Place, A.R. UMD Marine BioTech MD	
	Lupatsch, I. Isr. Ocean. Res.	
<b>MB-8707-04</b>	<b>Waste recycling for recirculated aquaculture systems: conversion of fish waste from marine and brackish water systems to methane</b>	MD
	Tal, Y. UMD Marine BioTech MD	App. Duration: 3 years
	Gross, A. Ben Gurion U	
	Sowers, R. UMD Marine BioTech MD	
<b>MB-8708-04</b>	<b>Novel marine natural products from sponges and associated microorganisms</b>	MD
	Ilan, M. Tel Aviv U	App. Duration: 3 years
	Hill, R.T. UMD Marine BioTech MD	
	Shpigel, M. Isr. Ocean. Res.	
<b>MB-8713-08</b>	<b>Recruitment of a Phage Integrase for Site-Specific Gene Manipulations in Zebrafish</b>	MD
	Yagil, E.A. Tel Aviv U	App. Duration: 3 years
	Du, J.S-J. UMD Marine BioTech MD	
	Kolot, M. Tel Aviv U	
	Gothilf, Y. Tel Aviv U	
<b>MB-8714-08</b>	<b>Endocrine and Molecular Manipulations of the Crustacean Molt to Control Growth and Synchronize Ecdysis</b>	MD
	Sagi, A. Ben Gurion U	App. Duration: 3 years
	Chung, J. UMD Marine BioTech MD	
	Zmora, O. UMD Marine BioTech MD	
<b>MB-8716-08</b>	<b>Fish Immune Response to <i>M. marinum</i> Infection and Development of Effective Vaccine</b>	MD
	Eldar, A. Isr. Vet. Inst.	App. Duration: 3 years
	Du, J.S-J. UMD Marine BioTech MD	
	Gao, L.Y. U Maryland MD	
	Tinman, S. Fisheries and Aquaculture	
<b>MB-8719-08</b>	<b>New Insights into the Control of Puberty in Fish: Application to Aquaculture</b>	MD
	Zohar, Y. UMD Marine BioTech MD	App. Duration: 3 years
	Gothilf, Y. Tel Aviv U	
	Sivan, B. Hebrew U	

**UMBI-Israel Approved Projects  
2004 - 2008**

<b>MB-8720-08</b>	<b>Using a "Sulfide Loop" to Control Fish Pathogens in Marine Recirculating Aquaculture Systems (RAS)</b>	MD
		App. Duration: 3 years
	Schreier, H.J.	U Maryland MD
	Colorni, A.	Isr. Ocean. Res.
	Diamant, A.	Isr. Ocean. Res.
Saito, K.	UMD Marine BioTech MD	
Tal, Y.	UMD Marine BioTech MD	

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**Canada-Israel Approved Projects  
2006 - 2009**

<b>CA-9100-06</b>	<b>Improving Fruit Set in Tomato and Brassica by Reducing the Impact of High Temperature on Pollen Development and Function</b>	Canada App. Duration: 3 years
	Granot, D.                      ARO, Min. Ag. Robert, S.L.                 Ag. Canada, Ont Bonham-Smith, P.C.        U Saskatchewan Geitmann, A.                U Montreal Gleddie, S.C.                Ag. Canada, Ont	
<b>CA-9102-06</b>	<b>Optimizing the Combination of Hyper-Spectral Images in Management Zone Delineation for Variable Rate Nitrogen Fertilization</b>	Canada App. Duration: 1 year
	Cohen, Y.                      ARO, Min. Ag. Moulin, A.P.                 Ag Canada, Manitoba Alchanatis, V.               ARO, Min. Ag. Bonfil, D.J.                 ARO, Min. Ag. Karnieli, A.                 Ben Gurion U Volkmar, K.                 Ag Canada, Manitoba	
<b>CA-9103-06</b>	<b>Biological Detoxification of the Mycotoxin Deoxynivalenol (DON) to Improve Safety of Animal Feed and Food</b>	Canada App. Duration: 3 years
	Zhou, T.                      Ag. Canada, Ont Shapira, R.                 Hebrew U Pauls, P.K.                 U Guelph Paster, N.                    ARO, Min. Ag. Pines, M.                    ARO, Min. Ag.	
<b>CA-9105-06</b>	<b>Understanding and Improving Quality Traits in Fruit: Genetic Manipulation of the Tomato Fruit Cuticle</b>	Canada App. Duration: 3 years
	Aharoni, A.                 Weizmann Inst. Ehret, D.                    AGASSIZ Jetter, R.                    U BC	
<b>CA-9110-09</b>	<b>Microbial Symbionts of Grape Pests and their Role in Mediating Interactions with Plant Pathogens and Natural Enemies</b>	Canada App. Duration: 3 years
	Zchori-Fein, E.             ARO, Min. Ag. Perlman, S.                 U Victoria Olivier, C.Y.                Ag Canada, Sask Sharon, R.                 MIGAL R&D Floate, K.                    Ag Canada, Alberta	
<b>CA-9114-09</b>	<b>Dissolved Organic Matter Fractionation and Pollutant Interactions in Soils Irrigated with Reclaimed Wastewater</b>	Canada App. Duration: 3 years
	Chefetz, B.                 Hebrew U Simpson, M.                U Toronto Gregorich, E.D.            Ag Canada, Queb Simpson, A.J.               U Toronto	
<b>CA-9117-09</b>	<b>Comparative Functional Genomics as a Platform to Investigate Ephedrine Alkaloid Biosynthesis in Plants</b>	Canada App. Duration: 3 years
	Lewinsohn, E.              ARO, Min. Ag. Facchini, P.J.              U Calgary Marsolais, F.               Ag. Canada, Ont	

**Canada-Israel Approved Projects  
2006 - 2009**

<b>CA-9122-09</b>	<b>Functional Analysis of ISR-Mediated Plant Resistance against <i>Botrytis cinerea</i></b>	Canada App. Duration: 3 years
	Sharon, A.                      Tel Aviv U Goodwin, P.                  U Guelph Errampalli, D.                Ag. Canada, Ont	
<b>CA-9126-09</b>	<b>Development of Virus Induced Gene Silencing Tools for Functional Genomics in Grapevine</b>	Canada App. Duration: 3 years
	Mawassi, M.                  ARO, Min. Ag. Meng, B.                      U Guelph Stobbs, L.                      Ag. Canada, Ont	
<b>CA-9136-09</b>	<b>Discovery of Secondary Metabolite Transporters for Quality Trait Improvement to Produce High Value Nutraceuticals and Pharmaceuticals</b>	Canada App. Duration: 3 years
	De Luca, V.                  Brock U Aharoni, A.                  Weizmann Inst. Gijzen, M.                    Ag. Canada, Ont	

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