

State of Israel/Ministry of Agriculture  
& Rural Development  
Agricultural Research Organization  
The Volcani Center  
**Office of the Director**  
Associate Director for Academic Affairs  
& International Cooperation

מדינת ישראל/משרד החקלאות  
ופיתוח הכפר  
מינהל המחקר החקלאי  
מרכז וולקני  
**לשכת ראש המינהל**  
ממונה על ענייני אקדמיה  
וקשרים בינלאומיים

## Program for Postdoctoral Fellowship Awards in Agriculture

Internal Ref # <b>28</b>	Title of Research Project: <b>Delivery of Essential Nutraceuticals within Edible Coatings of Mushrooms</b>
Project Leader:  <b>Dr Elena Poverenov</b>	Email : elenap@volcani.agri.gov.il  Phone : 972-39683354
Institute: Agricultural Research Organization (ARO) Volcani Center  Department: Food Quality and Safety	
The research team (other scientists): Prof. Betty Schwartz. The School of Nutritional Sciences; Institute of Biochemistry, Food Science and Nutrition; The Robert H. Smith Faculty of Agriculture, Food and Environment; The Hebrew University of Jerusalem	
Short Description of Research Project (3-5 lines):  Original food sources of numerous beneficial natural compounds - nutraceuticals - cannot be consumed by people with limitations of digestive system. We plan to incorporate essential nutraceuticals (provitamins and polyphenols) to rationally designed edible coatings of gentle and widely available food such as mushrooms. Edible coatings also defense nutraceuticals from metabolic destruction, improve their bioavailability and extend their product shelf life and safety.	
Required Qualifications of Visiting Scientist:  <i>Education:</i> Ph.D in Food Science  <i>Scientific Experience:</i> Analytical Chemistry, Basic knowledge of nutritional sciences  <i>Abilities and Skills:</i> Knowledge of GC, HPLC, FPLC, and basic assays of in vitro availability	

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