

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 # 25	Title of Research Project: Improving agriculture productivity through sustainable soil management
Project Leader: Asher Bar-Tal	Email : abartal@agri.gov.il Phone : 03-9683310, 050-220310
Institute: Soil, Water and Environmental Sciences Department: Soil Chemistry, Plant Nutrition and Microbiology	
The research team (other scientists): Michael Raviv, Guy Levy, Yael Laor, Ellen Graber, Benny Lew	
Short Description of Research Project (3-5 lines): The goal of the proposed research is to find sustainable ways to reverse the process of soil organic matter (SOM) depletion and soil degradation by compost application (organic agriculture practice) or combining compost application with biochar. These two agro-practices will be tested for their ability to improve soil health and crops yield and the second practice ability to reduce compost application rates and subsequent risks of pollution.	
Required Qualifications of Visiting Scientist: <i>Education:</i> Ph.D. in one of the following scientific fields - Soil chemistry and plant nutrition and/or geochemistry and/or environmental chemistry. <i>Scientific Experience:</i> Basic and applied studies at both the laboratory and field scale in the following described research fields - chemical and physico-chemical processes occurring in the root zone in relation to the soil-plant-water continuum; Specifically, the behavior of nitrogen and carbon in soil; nitrogen and other nutrients uptake by plants and their leaching out of the root zone. <i>Abilities and Skills:</i> The successful candidate will be expected to manage a research program in basic and applied studies at both the laboratory and field scale, to participate in multidisciplinary studies in collaboration with other scientists from the Institute. Independently analysis and interpretation of experimental results. Language - Reading and writing scientific material in English.	

טל: 3279-3-972

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