

## Program for Postdoctoral Fellowship Awards in Agriculture

Internal Ref # <b>4</b>	Title of Research Project: <b>Analysis of salt tolerance in tomato cultivars through proteomic and genomic approaches</b>
Project Leader: <b>Bruria Heuer</b>	Email : <a href="mailto:bruriah@agri.gov.il">bruriah@agri.gov.il</a> Phone : 9683704
Institute: Institute of Soil, Water and Environmental Sciences Department: <b>Soil Chemistry, Plant Nutrition and Microbiology</b>	
The research team (other scientists):	
Short Description of Research Project (3-5 lines): <b>The purpose of this research is to provide additional information on the mechanism of salt tolerance in plants by the use of cultivars differing in their tolerance to salt and to determine, isolate and sequence proteins expressed during salt tolerance by using a proteomic approach. With the use of genomic approaches, this project will provide the knowledge of gene expression induced by salinity and the role of microRNAs on tomato tolerance to salt stress.</b>	
Required Qualifications of Visiting Scientist: <i>Education:</i> <i>Molecular biology, biochemistry, plant physiology, biotechnology – one or more of these experties</i>  <i>Scientific Experience:</i> <i>Protein isolation, sequencing and gene expression, microarray</i>  <i>Abilities and Skills:</i> <i>Western Blot, PCR, RT-PCR, MALDI-TOF, CHIP,</i>	