

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

<i>Internal Ref #</i> 31	Title of Research Project: Involvement of oxidative processes in the gravitropic bending response of cut stems	
Project Leader: Dr. Sonia Philosoph-Hadas		Email : vtsoniap@volcani.agri.gov.il Phone : 972-3-9683604; 972-50-6220604
Institute: Postharvest and Food Sciences		
Department: Postharvest Science of Fresh Produce		
The research team (other scientists): Dr. Haya Friedman		
Short Description of Research Project (3-5 lines): The stimulus transduction events occurring during shoot gravitropism are mediated through differential changes in the level and action of auxin, associated with differential growth leading to shoot curvature. We have established a system showing the involvement of reactive oxygen species (ROS) in the process, and performed a microarray analysis of tomato shoots, which revealed differential changes in expression of numerous genes, leading to shoot bending.		
Required Qualifications of Visiting Scientist: <i>Education:</i> Ph.D. in biology <i>Scientific Experience:</i> Background in plant physiology, plant hormones, molecular biology, oxidative reactions, analyses of gene expression, microscopy, biochemical reactions, enzymology, bioinformatics. <i>Abilities and Skills:</i> To conduct an independent research, including planning of the experimental system, performing the experiments and writing reports and papers; computer proficiency.		

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