Postdoctoral Position in Plant-Microbe Interactions
Dept. of Molecular Biology and Ecology of Plants, Tel Aviv University, Tel Aviv, Israel.

A postdoctoral opportunity is available in the laboratory of Prof. Guido Sessa in the Dept. of Plant Molecular Biology and Ecology at Tel Aviv University, Tel Aviv, Israel (https://lifesci-english-cms.tau.ac.il/profile/guidos).

Project
Plant pathogen recognition receptors (PRRs) represent a major class of surface-localized immune receptors that detect conserved pathogen molecular moieties, which are designated as pathogen-associated molecular patterns (PAMPs). PRRs exist in multiprotein complexes that include transmembrane and cytosolic kinases contributing to the initiation, specificity and transduction of immune signaling. A current challenge is to identify molecular components of PRR receptor complexes and downstream signaling pathways, and to understand the molecular mechanisms that mediate their regulation. Brassinosteroid signaling kinases (BSKs) are emerging as important signaling components of PAMP-triggered immunity (PTI). The goals of the project will be to: 1) identify BSKs that participate in PTI signaling; 2) examine dynamics of the physical association between BSKs and PRRs; 3) investigate the role of phosphorylation in BSK activation and signaling; 4) identify signaling partners that participate in PTI signaling downstream of BSKs.

Location
We are physically located on Tel Aviv University campus (https://en-lifesci.tau.ac.il/) and have access to many of its resources in addition to our own. Tel Aviv excellent location and year-round sunny and warm climate offers a pleasant setting for work and home life. We are part of the Dept. of Plant molecular Biology and Ecology of Plants (https://lifesci-english-cms.tau.ac.il/plant_sciences/?tab=0). Our department is one of the largest of its kind in Israel, offering a variety of courses and research opportunities aimed at furthering our understanding of plant biology and its implications in biotechnology and the environment.

Qualifications
1. A recent Ph.D. in biology or related disciplines.
2. Experience in plant molecular biology, biochemistry and microbiology.
3. Background in plant-pathogen interactions
4. Strong communication skills, and fluency in written and spoken English.

To apply
Please, send to Guido Sessa (guidos@post.tau.ac.il) a letter of interest, CV, list of publications, and the names of three references.