

Sunday February 5th

Registration - Refreshments/Appetizers

1:00-1:45 pm

**Opening Welcome and BARD
Introduction**

1:45-2:30 pm

1:45-2:10 pm

Welcome

Organizers: Adi Avni, Guido Sessa, and Mary Beth Mudgett

Moshe Mevarech – Dean of the Faculty of Life Sciences, Tel Aviv University

2:10-2:25 pm

Workshop Introduction**Edo Chalutz** – Executive Director of BARD**Session 1: Plant Disease Resistance and Signaling**

2:30-5:50 pm

Moderator: Guido Sessa

2:30-3:15 pm

Jonathan Gressel – Dept. of Plant Sciences, Weizmann Institute, Israel**Understanding virulence and plant immunity to facilitate killing plants**

3:15-3:45 pm

Dierk Scheel – Dept. of Stress and Developmental Biology, Leibniz Institute of Plant Biochemistry, Halle, Germany**Calcium and MAP kinase signaling in PAMP-triggered immunity**

Coffee Break

3:45-4:15 pm

4:15-4:45 pm

Guido Sessa – Dept. of Mol. Biol. & Ecology of Plants, Tel Aviv Univ., Israel**MAP kinase signaling in effector-triggered immunity**

4:45-5:00 pm

Saikat Bhattacharjee – Dept. of Plant Sciences, University of Missouri, USA**Multi-molecular interactions between the positive immune regulator EDS1 with resistance proteins, and the negative regulator SRFR1**

5:00-5:50 pm

Paul Rivlin – The Moshe Dayan Center for Middle Eastern and African Studies, Tel Aviv Univ., Israel**Israel in the changing middle east**

Monday February 6th

Session 2: Plant Immune Receptor Complexes

9 am-12:30 pm

Moderator: Adi Avni

09:00-09:45 am **Brian Staskawicz** – Dept. of Plant & Microbial Biology, UC Berkeley, USA
Recognition and activation of plant NLR immune receptors

09:45-10:15 am **Libo Shan** – Dept. of Plant Pathology & Microbiology, Texas A&M Univ., USA
Phosphorylation and ubiquitination of immune sensory complexes

Coffee Break 10:15-10:45 am

10:45-11:15 am **Adi Avni** – Dept. of Mol. Biol. & Ecology of Plants, Tel Aviv Univ., Israel
Endocytosis and sterol biosynthesis in the induction of plant immunity

11:15-11:45 am **Sorina Popescu** – Boyce Thompson Institute, Cornell Univ., USA
Intracellular trafficking of transmembrane receptors – a model for understanding signal transduction in plant immunity

11:45-12:15 am **Nathalie Leborgne-Castel** – CNRS/Université de Bourgogne, France
Role of cryptogein-induced endocytosis in tobacco

12:15-12:30 am **James Mitch Elmore** – Dept. of Plant Pathology, UC Davis, USA
Quantitative proteomics reveals dynamic changes in the plasma membrane proteome during *Arabidopsis* immune signaling

Lunch Break 12:30-2:00 pm

Session 3: Fungal Immunity and Signaling

2:00-5:00 pm

Moderator: Amir Sharon

2:00-2:30 pm **Bart Thomma** – Laboratory of Phytopathology, Wageningen Univ., Netherland
The molecular biology of *Verticillium*-tomato interactions

2:30-3:00 pm **Dov Prusky** – Dept. of Postharvest and Food Sciences, Agricultural Research Organization, Volcani Center, Israel
Fungal-induced alkalization process in susceptible hosts: a wide mechanism affecting pathogenicity

3:00-3:30 pm **Tesfaye Mengiste** – Dept. of Botany & Plant Pathology, Purdue Univ., USA
Regulatory mechanisms in plant resistance to necrotrophic pathogens

Coffee Break 3:30-4:00 pm

- 4:00-4:30 pm **Amir Sharon** – Dept. of Mol. Biol. & Ecology of Plants, Tel Aviv Univ., Israel
***Botrytis*-plant interaction: a crosstalk of cell death**
- 4:30-4:45 pm **Julia Schumacher** – Institute of Plant Biology and Biotechnology, Münster Univ., Germany
Identification of new virulence factors by T-DNA-mediated insertional mutagenesis in *Botrytis cinerea*
- 4:45-5:00 pm **Maggie Levy** – Dept. of Plant Pathol. & Microbiol., Hebrew Univ., Israel
Modified cuticle in *SHN1/WIN1* gain of function mutant provokes inappropriate defense responses that consequently lead to susceptibility to *Botrytis cinerea*

Session 4: Posters

5:00-6:00 pm

5:00-6:00 pm Posters and Refreshments – All participants

Tuesday February 7th

Session 5: Effector Targets and Pathogenicity

9 am -13:00 pm

Moderator: Mary Beth Mudgett

- 09:00-09:30 am **Yedidya Gafni** – Institute of Plant Sciences, Agricultural Research Organization, Volcani Center, Israel
The role of the host papain-like cysteine protease CYP1 in plant viral infection
- 09:30-10:00 am **Jian-Min Zhou** – National Institute of Biological Sciences, Beijing, China
A novel modifier of a plant immune protein from bacteria
- 10:00-10:30 am **Adam Bogdanove** – Dept. of Plant Pathol. & Microbiol., Iowa State Univ., USA
Tallying TAL effector targets in *Xanthomonas*-rice interactions

Coffee Break

10:30-11:00 pm

- 11:00-11:30 am **Isaac Barash** – Dept. of Mol. Biol. & Ecology of Plants, Tel Aviv Univ., Israel
Highlights in the evolution of *Pantoea agglomerans* into a gall forming pathogen
- 11:30-12:00 pm **Saul Burdman** – Dept. of Plant Pathol. & Microbiol., Hebrew Univ., Israel
Deciphering virulence mechanisms in the yet non-model cucurbit pathogenic bacterium *Acidovorax citrulli*
- 12:00-12:30 **Mary Beth Mudgett** – Dept. of Biological Sciences, Stanford Univ.,

pm USA
Tomato 14-3-3 TFT1: XopN effector target or activator?

12:30-12:45 pm **Laura Chalupowicz** – Dept. of Plant Protection, Agricultural Research Organization, Volcani Center, Israel
An insight into the molecular interactions between *Clavibacter michiganensis* subsp. *michiganensis* and tomato

12:45-13:00 pm **Alon Savidor** – Dept. of Mol. Biol. & Ecology of Plants, Tel Aviv Univ., Israel
The *Clavibacter michiganensis* subsp. *michiganensis*–tomato interactome reveals perception of pathogen by host and suggests mechanisms of infection

Lunch Break 13:00-2:30 pm

Session 6: Plant Defense Responses 2:30-4:45 pm
Moderator: Robert Fluhr

2:30-3:00 pm **Yigal Cohen** – Faculty of Life Sciences, Bar Ilan Univ., Israel
***Bremia lactucae*–*Lactuca* sp. interactions: mechanisms involved in induced resistance and non-host resistance**

3:00-3:30 pm **Robert Fluhr** – Dept. of Plant Sciences, Weizmann Institute, Israel
A serpin protease inhibitor controls cell death

3:30-4:00 pm **Teun Munnik** – Swammerdam Institute for Life Sciences, Amsterdam Univ., Netherland
Phospholipid signaling in plant defense

4:00-4:15 pm **Avishai Mor** – Dept. of Plant Sciences, Weizmann Institute, Israel
Rapid wound response in plants involves singlet oxygen

4:15-4:30 **André Velásquez** – Boyce Thompson Institute, Cornell Univ., USA
A tomato LysM receptor-like kinase promotes immunity and its kinase activity is inhibited by AvrPtoB

Coffee Break 4:30-5:00 pm

Session 7: Agro-Biotechnology 5:00-6:00 pm
Moderator: Guido Sessa

5:00-5:30 pm **Dror Shalitin** – Evogene, Rehovot, Israel
General approach for gene identification targeting plant disease resistance

5:30-6:00 pm **Eli Kayat** – Rahan Meristem, Kibbutz Rosh Hanikra, Israel
Enhanced fungal resistance in transgenic banana plants (*Musa acuminata* AAA) expressing cottonwood (*Populus sargentii*) pathogen related eIF5A gene

Closing Remarks

Organizers: Adi Avni, Guido Sessa, Mary Beth Mudgett

6:00-6:30 pm Priorities for future research and collaboration