

## Dr. Michal Ackerman-Lavert

Post-doctoral fellow under the supervision of Dr. Omer Crane and Prof. Raffi Stern, Northern R&D, MIGAL, Galilee Technology Center

Current research areas: Deciduous fruit trees; Fruitlet Abscission in Apples, Fruit size in Sweet-Cherry, Brassinosteroids

### HIGHER EDUCATION

**2010-2013** B.Sc.Agr, Hebrew University of Jerusalem, Faculty of Agriculture

**2013-2015** M.Sc.Agr, Hebrew University of Jerusalem, Faculty of Agriculture  
Supervisor: Prof. Alon Samach. **SUMMA CUM LAUDE.**

**2016-2021** Ph.D, Technion-Israel Institute of Technology, Faculty of Biology  
Supervisor: Prof. Sigal Savaldi-Goldstein

**2021- current** Post-doctoral fellow, Northern R&D, MIGAL

### PUBLICATIONS

**Ackerman-Lavert M**, Fridman Y, Matosevich R, Friedlander R, Vragović K, Ben-El R, Horev G, Efroni I, Savaldi-Goldstein S. (2021). 'Current Biology'. Auxin requirements for a meristematic state in roots depend on a dual brassinosteroid function

**Ackerman-Lavert, M.** and Savaldi-Goldstein, S. (2020). Current Opinion in Plant Biology. Growth models from a brassinosteroid perspective

Fridman Y, Strauss S, Horev G, **Ackerman-Lavert M**, Reiner Benaim A, Lane B, Smith R.S, Savaldi-Goldstein, S (2021). Accepted for publication in 'Nature Plants'. Root meristem shaping via brassinosteroid-controlled cell geometry

Singh AP, Fridman Y, Holland N, **Ackerman-Lavert M**, Zananiri R, Jaillais Y, Henn A, Savaldi-Goldstein S. (2018). Developmental Cell. Interdependent Nutrient Availability and Steroid Hormone Signals Facilitate Root Growth Plasticity

Haberman, A., **Ackerman, M.**, Crane, O., Kelner, J-J., Costes, E. and Samach A. (2016). The Plant Journal. Different flowering response to various fruit loads in apple cultivars correlates with degree of transcript reaccumulation of a TFL1 encoding gene

**Ackerman, M.** and Samach A. (2015). New Negatives in Plant Science. Doubts regarding carbohydrate shortage as a trigger towards abscission of specific Apple (*Malus domestica*) fruitlets

### PATENTS

A. Samach, **M. Ackerman-Lavert**, P. Fresnillo Herrero, O. Crane. (2020). Use Of Uniconazole For Potentiating Abscisic Acid Effects In Plants. US Provisional Patent Application No 63/077,626.

## **TEACHING**

**2018-2020** Teaching assistant- 'Plant physiology', Faculty of Biology, Technion-Israel Institute of Technology

**2020-2021** Teaching assistant- 'Advanced imaging techniques in molecular biology', Faculty of Biology, Technion-Israel Institute of Technology

**2013-2015** Teaching assistant- 'Biology & production of citrus & subtropical fruit', Faculty of Agriculture, Hebrew University of Jerusalem.

**2013-2015** Teaching assistant- 'Physiology and molecular biology of flowering', Faculty of Agriculture, Hebrew University of Jerusalem

## **SCIENTIFIC CONFERENCES**

**June 2021 Selected talk, oral presentation- ICAR 2021- the 31st international conference on Arabidopsis research, virtual (Seattle, USA).** Title- 'Auxin requirements for a meristematic state in roots depend on a dual brassinosteroid function'

**June 2017 Selected talk, oral presentation-** 'Abscission in Fruit Trees- international conference', The Hebrew University of Jerusalem, Rehovot, Israel. Title- 'Studying when and how the fate of an apple fruitlet to abscise or persist is determined by its neighboring fruitlets'

## **FELLOWSHIPS, AWARDS AND HONORS**

**2020 Outstanding teacher award,** Faculty of Biology, Technion-Israel Institute of Technology

**2015 Outstanding teacher award,** Faculty of Agriculture, Hebrew University

**2015 Outstanding master's student award,** Faculty of Agriculture, Hebrew University

**2015 Outstanding master's student award,** Ministry of Agriculture excellence fellowship "The whole organism"

**2015 Outstanding master's student award,** majoring in orchard studies, excellence fellowship in memory of Dani Brunner

**2014-15 Outstanding master's student awards,** excellence fellowship in memory of Prof. Abraham Halevy

## **VOLUNTEERING**

**2017-2021 Graduate student's representative,** Faculty of Biology, Technion.

**2020-2021 Founder and leader of the "PhD student's forum",** Faculty of Biology, Technion