

## CURRICULUM VITAE- Lior Rubinovich, Ph.D.

Address: Moshav Kanaf, 44, 1293000, Israel. e-mail: Liorr@migal.org.il

### University Education and Additional Training

Dates	Description
2004 – 2006	B.Sc. in Plant sciences (graduated with excellence) at The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem.
2007 – 2008	M.Sc. in Biotechnology at The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem. Title of thesis: (moved on to the direct track to Ph.D.) Supervision by: Prof David Weiss
2008– 2013	Ph.D. in Plant Sciences (direct track) at The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem. Title of thesis: “The role of GASA proteins in gibberellin responses and redox regulation” Supervision by: Prof David Weiss
2013 – 2015	Postdoctoral position at Migal research institute at Prof Rachel Amir lab. Research subject: Establishment of <i>Punica granatum L.</i> peel cell culture for the production of bioactive compounds

### Positions Held

Dates	Description
2016 - 2019	Research Scientist (P.I.) at Migal-Northern Agriculture R&D
2019- present	Senior Research Scientist (P.I.) at Migal-Northern Agriculture R&D
2018- present	Co-founder and acting director, AgroCulture LTD, Israel
2022- present	Member of the limited management at Migal-Northern Agriculture R&D

### Teaching Experience

Dates	Description
2008 - 2013	Teaching assistant, the Hebrew University of Jerusalem Title of the course: Plant physiology
2014- 2016	Teaching assistant, Tel Hai college Title of the courses: Cell biology, Plant biotechnology, Plant hormones
2019-Present	Lecturer, Tel Hai college Title of the courses: Crop science and physiology, Sub-tropical fruit trees, Botany

## Articles in Reviewed Journals

1. **Rubinovich, L.** and Weiss, D. (2010). The Arabidopsis cysteine-rich protein GAS4 promotes GA responses and exhibits redox activity in bacteria and in planta. *Plant J.* **64**:1018–27.
2. **Rubinovich, L.**, Ruthstein, S. and Weiss, D. (2014). The Arabidopsis cysteine-rich GAS5 is a redox-active metalloprotein that suppresses gibberellin responses. *Mol. Plant.* **7**:244–7.
3. Galili, S., Hovav, R., Bellalou, A., Amir-Segev, O., Badani, H., **Rubinovich, L.**, Asher, A., Faraj, T. and Singer, A. (2018). Utilization of natural variation in *Cephalaria joppensis* to diversify wheat forage crop rotation in Israel. *Isr. J. Plant Sci.* **65**:195-201.
4. **Rubinovich, L.**, Segev, B., Habashi, R., Con, P. and Amir, R. (2019). Establishment of *Punica granatum* L. peel cell culture to produce bioactive compounds. *Plant Cell Tissue Organ Cult.* **138**: 131-140.
5. Bar-Noy, Y., Sofer-Arad, C., Perel, M., Cohen, H., Senesh, N., Noy, M. and **Rubinovich, L.** (2019). Frost protection efficiency evaluation in avocado with a horizontal wind machine. *Fruits* **74**:124-129.
6. Weil, A., Sofer-Arad, C., Bar-Noy, Y., Liran, O. and **Rubinovich, L.** (2019). Comparative study of leaf antioxidant activity as a possible mechanism for frost tolerance in ‘Hass’ and ‘Ettinger’ avocado cultivars. *J. Agric. Sci.* **157**: 342-349.
7. Asher, A., Galili, S., Whitney, T. and **Rubinovich, L.** (2020). The potential of quinoa (*Chenopodium quinoa*) cultivation in Israel as a dual-purpose crop for grain production and livestock feed. *Sci. Hortic. (Amsterdam)* **272**, 109534.
8. Shapira, O., Chernoiyanov, S., Neuberger, I., Levy, S. and **Rubinovich, L.** (2021) Physiological characterization of young ‘Hass’ avocado plant leaves following exposure to high temperatures and low light intensity. *Plants* **10** (8): 1562.
9. Chernoiyanov, S., Neuberger, I., Levy, S., Senesh, N. and **Rubinovich, L.** (2022) Covering young ‘Reed’ avocado trees with shading nets during winter alleviates cold stress and promotes vegetative growth. *Eur. J. Hortic. Sci.* **87** (1): 1-10.
10. Bellalou, A.; Daklo-Keren, M.; Abu Aklin, W.; Sokolskaya, R.; **Rubinovich, L.**; Asher, A. and Galili, S. (2022) Germination of *Chenopodium Quinoa* cv. ‘Mint Vanilla’ Seeds under Different Abiotic Stress Conditions. *Seed Science and Technology* **50** (1): 41-45.
11. Weil, A., **Rubinovich, L.**, Tchernov, D. and Liran, O. (2022) Comparative study between the photosynthetic parameters of two avocado (*Persea americana*) cultivars reveals natural variation in light reactions in response to frost stress. *Agronomy* **12** (5): 1129.
12. Alon, E., Shapira, O., Azoulay-Shemer, T. and **Rubinovich, L.** (2022). Shading nets reduce canopy temperature and improve photosynthetic performance in ‘Pinkerton’ avocado trees during extreme heat events. *Agronomy*, **12**(6), 1360.

13. Cohen, H., Bar-Noy, Y., Irihimovitch, V. and **Rubinovich, L.** (2022). Effects of seedling and clonal West Indian rootstocks irrigated with recycled water on `Hass` avocado yield, fruit weight and alternate bearing. *New Zealand Journal of Crop and Horticultural Science*, 1-13 (online).

### Articles in reviewed journals in Hebrew

1. Asher, A., Galili, S. and **Rubinovich, L.** (2017). The development of Quinoa (*Chenopodium quinoa*) as a new crop in Israel- observation summary. *Nir Va Telem*, **71**: 21-26.
2. Asher, A., Sadan, A., Galili, S. and **Rubinovich, L.** (2017). Potential evaluation of quinoa (*Chenopodium quinoa*) as a new winter crop. *Nir Va Telem*, **75**: 22-28.
3. Sidan, G., Daklo-Keren, M., Abu-Aklin, W., Sokolskia, R., **Rubinovich, L.**, Asher, A., Ballelo, A., Londner, A., Amir-Segev, O. and Galili, S. (2019). Characterization of different factors affecting quinoa germination under controlled conditions. *Nir Va Telem*, October 1-9.
4. Ballelo, A., Daklo-Keren, M., Abu-Aklin, W., Sidan, G., Sokolskia, R., **Rubinovich, L.**, Asher, A., Londner, A., Amir-Segev, O., Farber, A. and Galili, S. (2020). Influence of sawing date of quinoa mother plants on seed germination. *Nir Va Telem*, August 1-9.
5. Asher, A., Dagan, R., Galili, S., Salmon, A. and **Rubinovich, L.** (2021). The development of young green quinoa (*Chenopodium quinoa*) as a new multifunctional summer crop in Israel. *Nir Va Telem*, January 1-10.
6. **Rubinovich, L.**, Galili, S., Shabtai, A., Cohen-Sinder, M., Federson, E. and Asher, A. (2022). The use of quinoa (*Chenopodium quinoa*) as a new forage crop and its effect on productivity and production efficiency in cattle fattening . *Yediot Labokrim*, 135, 24-26.

### Book Chapters

1. **Rubinovich, L.**, Holland, D. and Amir, R. (2014). Characterization of pomegranate`s health benefiting bioactive compounds, taste, color and post-harvest fruit quality by studying a wide collection of diverse accessions. In: *Instrumental Methods for the Analysis of Bioactive Molecules*, **10**: 201-215. American Chemical Society: Washington, DC.

### Articles in Non-Reviewed Journals in Hebrew and English

1. **Rubinovich L.**, Lurie G., Ziv O. Weiss D. (2009)  
*Eucomis autumnalis*: propagation, storage and post-harvest.  
*Olam Haperach*. February 48-50.
2. **Rubinovich L.**, Ziv O. Weiss D. (2009)  
*Tagetes lemmonii* a new fragrant cut green.  
*Olam Haperach*. October-November 52-53.

3. **Rubinovich L.,** Ziv O. Weiss D. (2010)  
*Lepidium virginicum*: Flowering and post-harvest.  
*Olam Haperach*. January-February 52-53.
4. **Rubinovich L.,** Ziv O. Weiss D. (2011)  
MOP MERKAZ: Introduction of new cut flowers and cut green.  
*Prachim Bareshet*. July 5-6.
5. **Rubinovich L.,** Lurie G., Ziv O. Weiss D. (2012)  
Flowering control of “Pineapple Flower”- *Eucomis autumnalis*.  
*Prachim Bareshet*.
6. Weiss., D. Lurie., G, Ziv., O. and **Rubinovich., L.** (2014)  
Flowering control of “Pineapple Flower” for flowering pot plants- *Eucomis alba*.  
*Alon Anaf Haprachim*. June **11**: 81-86.
7. Cohen, H., Levine, A. and **Rubinovich, L.** (2016).  
Agricultural management of `Hass` Avocado orchards.  
*Alon Hanotea* **70**: 32-37.
8. Cohen, H. and **Rubinovich, L.** (2021).  
Investigation of avocado rootstocks.  
*Yevul See* April 40- 45.
9. Asher, A. and **Rubinovich L.** (2021).  
Quinoa as a forage crop.  
The cattle and dairy farm December 82-86.

### Allowed Patents and Registered Cultivars

1. **Rubinovich, L.** and Amir, R. (2015) *Punica Granatum L.* fruit peel cell culture. Provisional patent.
2. **Rubinovich, L.** and Amir, R. (2018) *Punica Granatum L.* fruit peel cell culture. Provisional patent.
3. **Rubinovich, L.** (2019) Frost resistant avocado clones (submitted).
4. Avni, D., Ben-Herzl, O. and **Rubinovich, L.** (2022) Young green quinoa as a source and anti-inflammatory compounds and functional ingredients for the food industry and pharma. Provisional patent.