Silit Lazare

A Ph.D. agronomist with extensive experience in applicative research.

An expert in plant physiology, flowering control, scion-rootstock relationships and propagation methods.

Led significant projects in the floriculture industry, chaired multidisciplinary research groups, served in the directors' board of an agricultural corporation, and published various articles in scientific and professional journals.

Key projects:

- Breeding, selection and registration of new Hippeastrum and Canna varieties.
- Development of micro-propagation protocols for *Lilium candidum* and Cannabis.
- Cleaning virus-infected *C. indica* plants and founding an international virus-free stock.
- Exposing an unknown flowering pathway of lily and developing a new growth protocol for it.
- Detection of a reciprocal salt tolerance mechanism among avocado scions and rootstocks.
- Development of innovative forcing and storage protocols for ornamental geophytes.
- The discovery of glycerol's effects on growth and development of lily plants.

EMPLOYMENT

2021 – *present* **Head of Innovation** at RCK, Ruhama (Science-based Cannabis Genetics)
Research: Micropropagation, Regeneration, Metabolomics, Genomics, Phenomics
Initiation and operation of scientific collaborations.

2018 – 2021 **Postdoctoral fellow** at Volcani Institute - ARO, Gilat
Plant stress, Rootstock-scion relationships, Fertilization, Metabolism

2014 - 2019 **Research assistant and Lecturer** at Ben-Gurion University
Plant reproduction, Micropropagation, Metabolic pathways, Plant physiology

2011 - 2014 **R&D Agronomist** at Barak Nursery, Ein Habsor (10 ha of perennial and herb greenhouses)
Project management - Acclimation, Propagation, Flowering control.
Team management**;** 50-100 seasonal and regular employees.
Quality assurance and Knowledge management.

2002 - 2011 **R&D Agronomist** at Saad-Assaf Nurseries, Kibbutz Saad (12 ha of greenhouses, 10 ha of fields)
Project management - Breeding, Forcing, Virology.
Product management - Registered varieties and TC plantlets.
Quality assurance, Knowledge management, Global G.A.P. certification.

EDUCATION

2014 - 2017 **PhD** Life Sciences dep., Ben Gurion University, Beer Sheva, Israel.

2006 - 2010 **MSc** Faculty of Agriculture, The Hebrew University, Rehovot, Israel.

2001 - 2003 **BSc Agr.** Faculty of Agriculture, The Hebrew University, Rehovot, Israel.

SCIENTIFIC PUBLICATIONS

- **Lazare S.**, Yasuor H., Yermiyahu U., Brotman Y., Ben-Gal A., Dag A. (2021) It takes two: reciprocal scion-rootstock relationships enable salt tolerance in 'Hass' avocado. *Plant Science*
- **Lazare S.**, Perry A., Tel-Zur N., Sperling O., Yermiyahu U., Yasuor H., Dag. A. (2021) The metabolic reserves, carbohydrate balance and nutritional status of jojoba, in relation to its annual cycle and fruit load. *Functional Plant Biology*
- **Lazare S**., Cohen Y., Goldshtein E., Yermiyahu U., Ben-Gal A., Dag A. (2021) Rootstock-dependent Response of Hass Avocado to Salt Stress. *Plants*
- **Lazare S**., Bar-Noy Y., Cohen H., Yermiyahu U., Kalyan G., Rozman R. and Dag A. (2021) Foliar application of boron to improve 'Hass' avocado productivity. *Acta Horticulturae*
- **Lazare S**., Bechar D., Garbowicz K., Fernie A.R., Brotman Y., Zaccai M. (2021) When vegetation indicates reproduction: the affinity between leaf morphology and flowering commitment in the lily meristem. *Physiologia Plantarum*
- **Lazare S.**, Zipori I., Cohen Y., Haberman A., Goldshtein E., Ron Y., Rotschild R., Dag A. (2021) Jojoba pruning: new practices to improve yield and reduce alternate bearing. *Scientia Horticulturae*
- **Lazare S.**, Lyu Y., Yermiyahu U., Heler Y., Kalyan G., Dag A. (2020). The effect of macronutrient availability on pomegranate reproductive development. *Plants*
- **Lazare S.**, Lyu Y., Yermiyahu U., Heler Y., Ben-Gal A., Dag A. (2020). Optimizing nitrogen application for growth and productivity of pomegranates. *Agronomy*
- Haberman A., Tsror L., **Lazare S**., Hazanovsky M., Lebiush S., Zipori I., Busatn A., Simenski E., Dag A. (2020). Management of Verticillium wilt of avocado using tolerant rootstocks. *Plants*
- **Lazare S.**, Haberman A., Yermiyahu U., Erel R., Simenski E., Dag A. (2019). Avocado rootstock influences scion leaf mineral content. *Archives of Agronomy and Soil Science*
- **Lazare S**., Zaccai M. (2019). Apical dominance maximizes reproductive strategies in *Lilium longiflorum*. *Acta Horticulturae*, (ISHS) 1237:145-152
- **Lazare S**., Bechar D., Fernie A.R., Brotman Y., Zaccai M. (2018). The proof is in the bulb: glycerol influences key stages of lily development. *The Plant Journal*
- **Lazare S**., Burgos A., Brotman Y., Zaccai M. (2017). The metabolic (under)groundwork of the lily bulb towards sprouting. *Physiologia Plantarum*
- **Lazare S**., Zaccai M. (2017). Flowering Physiology and Flower Development of *L. longiflorum*. *Acta Horticulturae*, (ISHS) 1171:119-124
- **Lazare S**., Zaccai M. (2016). Flowering pathway is regulated by bulb size in *L. longiflorum* (Easter lily). *Plant Biology*

OTHER PUBLICATIONS

- **Lazare S.** (2021). Foretold Cycles of Nature. Poetry.
- **Lazare S.** (2019). The Abscission Zone. Poetry.
- **Lazare S.** (2015). Viruses in Cannas: Past, Present and Future. Grower Talks 80(3)

COMMUNITY CONTRIBUTIONS

2021 - *present* **Director** at Saad Municipal Committee

2017 - 2019 **Director** at Saad Agricultural Corporation

2015 - 2018 **Fellow** at ISEF PhD program for academic and social leadership

2015 - 2017 **Botany tutor** at ADAMA's Agricultural & Environmental Education Farm

2005 - 2019 **Lectures** for encouraging science studies at Peripheral high schools