**Name: Hagai Shemesh** **Date: 23.01.25**

**CURRICULUM VITAE**

## 1. Personal Details


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## 2. Higher Education

### A. Undergraduate and Graduate Studies

| Period of Study | Name of Institution and Department | Degree | Year of Approval of Degree |
|---|---|---|---|
| 2006 -2011 | Department of Life Sciences, Ben-Gurion University of the Negev. | Direct PhD.<br>Thesis: "Future perception in plants". Advisors: Prof. Ariel Novoplansky & Prof. Ofer Ovadia | 2011 |

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|---|---|---|---|
| 2003 -2006 | Department of Life Sciences, Faculty of Natural Sciences, Ben Gurion University of the Negev, | BSc in Biology majoring in ecology. With distinction. | 2006 |

**B. Post-Doctoral Studies**

| **Period of Study** | **Name of Institution, Department and Host** | **Degree** | **Year of Completion** |
|---|---|---|---|
| 2012 | Technion, Department of Environmental, Water & Agricultural Engineering, Prof. Yohay Carmel | Postdoc | 2012 |

## 3. Academic Ranks and Tenure in Institutes of Higher Education

| **Dates** | **Name of Institution and Department** | **Rank/Position** |
|---|---|---|
| 2023-2024 | Royal Botanical Gardens Victoria, Melbourne | Visiting researcher (12 month sabbatical) |
| 2019-2019 | Berkeley University | Visiting researcher (7 months) |
| 2018 – Present | Tel-Hai College, Faculty of Science, Department of Environmental Sciences | Senior lecturer |

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|---|---|---|
| 2014 – 2018 | Tel-Hai College, Faculty of Science, Department of Environmental Sciences | Lecturer |
| 2012 – 2013 | Tel-Hai College, Faculty of Science, Department of Environmental Sciences | Adjunct lecturer |
| 2013 | Ben-Gurion University of the Negev, Faculty of Natural Sciences, Department of Life Sciences, Eilat campus | Teaching associate |
| 2009 | Achva College, Department of Life Sciences | Adjunct lecturer |

## 4. Offices in Academic Administration

Head of the Environmental Sciences Department in Tel-Hai College since 2020.

## 5. Participation in Scholarly Conferences

### a. Active Participation

| Date | Name of Conference | Place of Conference | Subject of Lecture | Role |
|---|---|---|---|---|
| 2006 | The annual conference of the Israeli Society of Plant Sciences | Weizmann Institute | Plastic bet-hedging in an amphicarpic annual: an integrated strategy under variable conditions | |
| 2007 | Annual meeting of the Ecological | San Jose, CA | Plastic bet-hedging in an amphicarpic annual: an | |

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| | Society of America | | integrated strategy under variable conditions | |
| 2008 | Symposium in memory of Merav Ziv | Sde-Boker, Israel | Underground communication enables plants to predict future competition | |
| 2008 | Annual meeting of the British Ecological Society | London | The effects of nutrient dynamics on root patch choice | |
| 2009 | Annual meeting of the Ecological Society of America | New-Mexico | The effects of nutrient dynamics on root patch choice | |
| 2010 | Symposium in memory of Merav Ziv | Sde-Boker, Israel | Plant adaptations to variable season length | |
| 2014 | Annual meeting of the Ecological Society of America | Sacramento CA | Beyond average: risk sensitivity in an annual plant | |
| 2015 | Annual Popbio meeting | Tubingen Germany | Beyond average: risk sensitivity in an annual plant | |
| 2016 | Annual meeting of the Nordic Oikos society | Turku Finland | Beyond average: risk sensitivity in an annual plant | |
| 2016 | Annual Popbio meeting | Trebon Czech Republic | The effects of spatial heterogeneity in mycorrhizal inoculation potential on pine seedling development | |
| 2017 | Annual Popbio meeting | Halle Germany | Wild boars as spore dispersal agents of ectomycorrhizal fungi: Consequences for | |

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| | | | community composition at different habitat types | |
| 2018 | Annual meeting of the Society for Experimental Biology | Florence Italy | **Invited lecture**: Beyond average: complex behavior in an annual plant | |
| 2022 | Annual Popbio meeting | Bolzano Italy | Doing more harm than good: from short-term data to long-term consequences | |
| 2023 | Annual Popbio meeting | Stuttgart Germany | Changing balance between dormancy and mortality determines the trajectory of ectomycorrhizal fungal spore longevity over a 15 year burial experiment | |
| 2025 | Annual Popbio meeting | Prague Czech Republic | Fungal communities in pine forests along an aridity gradient | |

b. **Organization of Conferences**

| **Date** | **Name of Conference** | **Place of Conference** | **Subject of Conference** | **Role** |
|---|---|---|---|---|
| **2016** | **Israel Plant Ecology** | Tel-Hai College | **1st Plant Ecology** | **Organizing committee** |
| **2017** | **Israel Plant Ecology** | Ben-Gurion Sde-Boker | **2nd Plant Ecology** | **Organizing committee** |
| **2018** | **Israel Plant Ecology** | Tel-Aviv University | **3rd Plant Ecology** | **Organizing committee** |

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|---|---|---|---|---|
| **2019** | **Israel Plant Ecology** | Tel-Hai College | **4th Plant Ecology** | **Organizing committee** |
| **2020** | **Israel Plant Ecology** | Weizman Institute | **5th Plant Ecology** | **Organizing committee** |
| **2022** | **Israel Plant Ecology** | Achva College | **6th Plant Ecology** | **Organizing committee** |
| **2023** | **Israel Plant Ecology** | Hebrew University | **7th Plant Ecology** | **Organizing committee** |
| **2025** | **Israel Plant Ecology** | Tel-Aviv University | **8th Plant Ecology** | **Organizing committee** |

## 6. Invited Lectures

| Date | Place of Lecture | Name of Forum | Presentation/Comments |
|---|---|---|---|
| 2016 | Oxford UK | Plant Sciences department seminar | Beyond average: risk sensitivity in an annual plant |
| 2018 | Hebrew University, Rehovot | Plant Sciences department seminar | Beyond average: risk sensitivity in an annual plant |
| 2019 | Hebrew University, Jerusalem | Ecology & Evolution department seminar | Beyond average: risk sensitivity in an annual plant |
| 2020 | Tel-Aviv University | Ecology & Evolution department seminar | Beyond average: risk sensitivity in an annual plant |

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|---|---|---|---|
| 2022 | Hebrew University Jerusalem | Ecology & Evolution department seminar | The effect of ectomycorrhizal fungi on ecological processes at varying temporal and spatial scales. |
| 2023 | Haifa University (Oranim Campus) | Ecology & Evolution department seminar | The effect of ectomycorrhizal fungi on ecological processes at varying temporal and spatial scales. |
| 2023 | Australian Mycology Society | Invited seminar | The effect of ectomycorrhizal fungi on ecological processes at varying temporal and spatial scales. |
| 2023 | Latrobe University, Australia | Ecology & Evolution department seminar | The effect of ectomycorrhizal fungi on ecological processes at varying temporal and spatial scales. |
| 2023 | Royal Botanic Gardens Victoria | Royal Botanic Gardens Victoria Science Seminar | Non-cognitive behavior in plants |
| 2023 | Hawkesbury Institute for the Environment, Western Sydney University, NSW | Invited seminar | The effect of ectomycorrhizal fungi on ecological processes at varying temporal and spatial scales. |

## 8. Research Grants

### a. Grants Awarded

| Role in Research | Co-Researchers | Topic | Funded by/ Amount | Year |
|---|---|---|---|---|
| **PI** | Oded Cohen (PI) | Estimating the invasion risk of Eucalyptus trees in Israel following the invasion of Australian mycorrhizal fungi | **Department of Agriculture, 450,000** | **2017** |
| **PI** | Yohay Carmel (PI) | *Iris lortetii* conservation project | **JNF, 30,000 NIS** | **2016** |
| **PI** | Ofer Ovadia (PI)<br>Tom Bruns (PI)<br>Yohay Carmel (PI)<br>Yagil Osem (PI) | The effect of fire timing and intensity on the mycorrhizal community post fire plant regeneration | **BSF, 100,000$** | **2014** |
| **PI** | Itamar Giladi (PI)<br>Victoria Sork (PI) | The effect of pollen source on dispersal related traits in a heteromorphic annual, | **Sol leshin fund, 20,000$** | **2014** |
| **PI** | Ofer Ovadia (PI)<br>Tom Bruns (PI)<br>Yohay Carmel (PI)<br>Yagil Osem (PI) | The effect of fire timing and intensity on the mycorrhizal community post fire plant regeneration | **BSF, 219,000$** | **2013** |
| **PI** | Ofer Ovadia (PI) | The effect of temporal Carbon dynamics on plant competition | **Sol Leshin fund, 20,000$** | **2013** |

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|---|---|---|---|---|
| **PI** | Ofer Ovadia (PI) | The effect of temporal Carbon dynamics on plant competition | **Sol Leshin fund, 20,000$** | **2011** |
| **PI** | Yohay Carmel (PI) | *Iris lortetii* conservation project | **JNF, 23,000$** | **2011** |

### b. Submission of Research Proposals – Not Funded

| Role in Research | Co-Researchers | Topic | Funded by | Year | Score |
|---|---|---|---|---|---|
| **PI** | **Ofer Ovadia** | **Field examination of a key hypothesis on how ectomycorrhizal fungi interact with different soil nutrient pools to affect tree seedling establishment under competition** | **ISF** | **2023** | |
| **PI** | **Ofer Ovadia** | **Field examination of a key hypothesis on how ectomycorrhizal fungi interact with different soil nutrient pools to affect tree seedling establishment under competition** | **ISF** | **2022** | |

## 9. Scholarships, Awards and Prizes

2016 Excellence in teaching (Tel-Hai, Galilee studies)

2013 Excellence in teaching (Tel-Hai, Environmental Sciences)

2011 Excellence in teaching (Ben-Gurion University of the Negev)

## 10. Teaching

### a. Courses Taught in Recent Years

| Year | Name of Course | Type of Course | Degree | Number of Students |
|---|---|---|---|---|
| 2012-Present | Basic Ecology | Lecture, Introduction Course (Mandatory) | B.S.c | 30 |
| 2012-Present | Biostatistics | Lecture, Introduction Course (Mandatory) | B.S.c | 200 |
| 2020 - Present | Introduction to statistics | Lecture, Introduction Course (Mandatory) | B.S.c | 200 |
| 2016 - 2020 | Advanced Statistics | Lecture (Mandatory) | M.S.c | 40 |
| 2014 – Present | Local topics in ecology | Lecture | B.A | 30 |

### b. Supervision of Graduate Students

| Name of Student | Title of Thesis | Degree | Date of Completion | Students' Achievements |
|---|---|---|---|---|
| Lior Herol | The effect of ectomycorrhizal fungi community structure in different climatic zones in Israel, on the resistance of Aleppo pine seedlings to dry conditions (co-supervised with Tamir Klein). | M.S.c | 2023 | Two published papers |
| Yael Avidan | The Effect of Distance from a Mature Oak Tree on the Community Composition of | M.S.c | 2019 | |

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|---|---|---|---|---|
| | **Soil Fungi and on Oak Seedling Performance (co-supervised with Itamar Giladi)** | | | |
| **Efrat Dener** | **The effect of pollen source on dispersal related traits in a heterocarpic annual plant (co-supervised with Itamar Giladi).** | **M.S.c** | **2016** | **Published paper** |
| **Stav Livne** | **The effect of temporal carbon dynamics in the soil on the performance of a fast-growing plant experiencing competition from a slow-growing plant (co-supervised with Ofer Ovadia)** | **M.S.c** | **2014** | **Two published papers.** |
| **Stav Livne** | **Sensitivity of the Eastern Mediterranean forest belowground fungal community to seasonal fire, dispersal, and spatial variability (co-supervised with Ofer Ovadia)** | **PhD** | **2019** | **Three published papers.** |
| **Neta Manela** | **Spatio-temporal dynamics of seed germination in Mediterranean woodlands (co-supervised with Ofer Ovadia)** | **PhD** | **2020** | **Three published Papers** |
| **Efrat Dener** | **The Effects of Ecological and Evolutionary Forces on Dispersal in Annual Plants (co-supervised with Itamar Giladi)** | **PhD** | **2022** | **Three published papers** |

**PUBLICATIONS**

H index：11

Citations：535

**Articles in Refereed Journals**

**Published**

1. *__Shemesh H__. (2025). A systematic review of nurse objects as safe sites for seedling establishment and implications for restoration. ***New Phytologist***. 245 (6), 2428-2438

   Citations:0

   *When published* *IF:8.3 Q1 (Plant Sciences 11/265).*
   *2025* *IF:8.3 Q1 (Plant Sciences 11/265).*

2. *Herol L, Klein T, Livne-Luzon S and **Shemesh H** (2025). Pine seedlings select a consistent ectomycorrhizal community regardless of water availability and inoculum origin. ***Fungal Ecology*** *74, 101406*.

   Citations:0

   *When published* IF:2.2 Q2 (Ecology 99/200).
   *2025* IF:2.2 Q2 (Ecology 99/200).
   Livne-Luzon, Herol and I developed the idea, led the collection of the data, the analysis and the writing. The last two authors contributed equally to the paper.

3. *Herol L, Yirmiahu S, Klein T, **Shemesh H** and Livne-Luzon S (2024) Context-dependent benefits of forest soil addition on Aleppo pine seedling performance under drought and grass competition. ***Mycorrhiza****,* 34, 217–227.
   *Citations:0*
   *When published* *IF:3.3 Q1 (Plant Sciences 65/265).*
   *2025* *IF:3.3 Q1 (Plant Sciences 65/265).*

Livne-Luzon, Herol and I developed the idea, led the collection of the data, the analysis and the writing. The last two authors contributed equally to the paper.

4. * Livne-Luzon S, Avidar M, Herol L, Rog I, Klein T, **Shemesh H** (2024), Inter-generational consistency of the ectomycorrhizal fungal community in a mixed pine-cedar post-fire stand. ***Tree Physiology***, *44*(8), tpae094.
   Citations:0
   *When published* IF:3.5 Q1 (Forestry 8/89).
   *2025* IF:3.5 Q1 (Forestry 8/89).
   Livne-Luzon and I developed the idea, all authors took part in data collection. Livne-Luzon and I led the writing of the paper. All authors edited the manuscript.

5. *Gavron T, Livne N, Regev D, **Shemesh H**, (2023). Growing a Small World; College Students' Perceptions of Making and Tending an Expressive Terrarium. ***The Arts in Psychotherapy***, *85*, 102038.
   *Citations:4*
   *When published IF:1.5 Q3 (Psychology, Clinical 114/180).*
   *2025 IF:1.5 Q3 (Psychology, Clinical 114/180).*
   *I took part in developing the idea and collecting the data.*

6. ***Shemesh H**, Bruns T.D, Peay K.G, Kennedy P.G, Nguyen N.H (2023). Changing balance between dormancy and mortality determines trajectory of ectomycorrhizal fungal spore longevity over a 15-year burial experiment. ***New Phytologist*** 238(1), 11-15.
   *Citations:4*
   *When published IF:8.3 Q1 (Plant Sciences 11/265).*
   *2025 IF:8.3 Q1 (Plant Sciences 11/265).*
   *I led the data collection, the analysis, and the writing of the paper.*

7. ***Shemesh H**, Dener E and Sadeh A (2022). Bedrock may dictate the distribution of the Fire Salamander in the southern border of its global range. ***Israel Journal of Ecology and Evolution*** (1): 1-5.
*Citations:3*
*When published IF:1.2. Q4 (Ecology 143/171).*
*2025 IF:1.3. Q3 (Ecology 141/197).*
*Sadeh and I equally led the data collection, the analysis, and the writing of the paper.*

8. *Gavron T & **Shemesh H** (2022). "I am actually growing my art": Building an Expressive Terrarium as an Intervention Tool in Arts Therapy. ***Journal of Creativity in Mental Health***, 1-15.
*Citations:3*
*When published IF:0.6 Q4 (Psychology, Clinical 166/180).*
*2025 IF:0.8 Q4 (Psychology, Clinical 145/180).*
*We both developed the idea and collected the data. Gavron led the writing of the paper.*

9. *Manela N, **Shemesh H**, Osem Y, Carmel Y, Soref C, Tsafrir A & Ovadia O (2021). Seasonal fires shape the germinable soil seed bank community in eastern Mediterranean woodlands. ***Journal of Plant Ecology*** 15 (1), 13-25.
*Citations:3*
*When published IF:1.78 Q3 (Forestry 37/69).*
*2025 IF:3 Q1 (Forestry 11/89).*
*Manela, Ovadia and I developed the idea, the experiment was carried out by all of us. All three of us contributed equally to the writing process.*

10. *Livne-Luzon S, Perlson O, Avidan Y, Sivan G, Bruns T.D & **Shemesh H** (2021) A none-linear effect of the spatial structure of the soil ectomycorrhizal spore bank on the performance of pine seedlings**.** ***Mycorrhiza*** 31 (3), 325-333.
*Citations:0*

*When published IF:3.9 Q1 (Plant Sciences 59/239).*
*2025 IF:3.3 Q1 (Plant Sciences 65/265).*
*Livne-Luzon and I developed the idea, and we both contributed equally to the writing process.*

11. *Manela N, Ovadia O & **Shemesh H** (2021) The ability of short-term responses to predict the long-term consequences of conservation management actions: the case of the endangered *Paeonia mascula* (L.) Mill. ***Journal for Nature Conservation*** 60, 125956.
*Citations:0*
*When published IF:2.6 Q2 (Biodiversity Conservation 29/75).*
*2025 IF:2.2 Q2 (Biodiversity Conservation 26/75).*
*Manela and I developed the idea, collected the data and analyzed it. We both contributed equally to the writing process.*

12. *Dener E, Ovadia O, **Shemesh H**, Altman A, Chen S and Giladi I (2021) Direct and indirect effects of fragmentation on seed dispersal traits in a fragmented agricultural landscape. ***Agriculture Ecosystems & Environment*** 309, 107273.
*Citations:23*
*When published IF:6.6 Q1 (Agriculture, Multidisciplinary 5/59).*
*2025 IF:6 Q1 (Agriculture, Multidisciplinary 6/89).*
*I took part in developing the idea, data analysis and writing.*

13. *Dener E, **Shemesh H** & Giladi I (2021) The effect of pollen source on seed traits and dispersability in the heterocarpic annual Crepis sancta. ***Journal of Plant Ecology*** 14 (3), 425-437.
*Citations:4*
*When published IF:1.78 Q3 (Forestry 37/69).*
*2025 IF:3 Q1 (Forestry 11/89).*
*Dener, Giladi and I developed the idea and collected the data. I took part in the analysis and the writing.*

14. *Livne-Luzon S, **Shemesh H**, Osem Y, Carmel Y, Migael H, Avidan Y, Tsafrir A, Glassman S.I, Bruns T.D, & Ovadia O (2021). High resilience of the mycorrhizal community to prescribed seasonal burnings in eastern Mediterranean woodlands. ***Mycorrhiza*** 31 (2), 203-216.
*Citations:15*
*When published IF:3.9 Q1 (Plant Sciences 59/239).*
*2025 IF:3.3 Q1 (Plant Sciences 65/265).*
*Livne-Luzon, Ovadia and I developed the idea, conducted the experiment, and analyzed the data. All three of us contributed equally to the writing process.*

15. ***Shemesh, H**, Boaz B, Millar C, Bruns T (2019). Symbiotic interactions above treeline of long-lived pines: Mycorrhizal advantage of limber pine (*Pinus flexilis*) over Great Basin bristlecone pine (*Pinus longaeva*) at the seedling stage. ***Journal of Ecology***. 108(3): 908-916.
*Citations:30*
*When published IF:5.8 Q1 (Ecology 19/197).*
*2025 IF:5.4 Q1 (Ecology 16/169).*
*All three of us collected the data. I led the data analysis, and the writing of the paper.*

16. *Manela N, Dagon E, **Shemesh H**, Ovadia O (2019). Smoke interacts with fire history to stimulate soil seed bank germination in Mediterranean woodlands. ***Journal of Plant Ecology***. 12(3): 419-427.
*Citations:9*
*When published IF:1.8 Q2 (Forestry 23/68).*
*2025 IF:3 Q1 (Forestry 11/89).*
*Manela, Ovadia and I developed the idea, the experiment was carried out by Manela and myself. All three of us contributed equally to the writing process.*

17. *Tsafrir A, Osem Y, **Shemesh H,** Carmel Y, Soref C, Ovadia O (2019). Fire season modifies the perennial plant community composition in eastern Mediterranean woodlands through a differential effect on obligate seeders. ***Applied Vegetation Science***. 22(1): 115-126.
*Citations:18*
*When published IF:2.6 Q1 (Forestry 10/68).*
*2025 IF:2 Q2 (Forestry 28/89).*
*Tsafrir Ovadia and I equally contributed to the development of the idea. I took part in the analysis and the writing.*

18. ***H Shemesh**, G Shani, R Kent, Y Carmel, Y Sapir (2018). To mix or not to mix the sources of relocated plants? The case of the endangered *Iris lortetii*. ***Journal of Nature Conservation***. 45:41-47.
*Citations:13*
*When published IF:2.3 Q2 (Biodiversity Conservation 22/59).*
*2025 IF:2.2 Q2 (Biodiversity Conservation 26/75).*
*I developed the idea, led the data collection, the analysis, and the writing of the paper.*

19. Livne-Luzon S, Ovadia O, Weber G, Avidan Y, Migael H, Glassman, Bruns T & **Shemesh H** (2017). Small-scale spatial variability in the distribution of ectomycorrhizal fungi affects plant performance and fungal diversity. ***Ecology Letters***. 20 (9), 1192-1202.
*Citations:28*
*When published IF:9.1 Q1 (Ecology 4/160).*
*2025 IF:7.6 Q1. (Ecology 8/197).*
*Livne-Luzon, Ovadia and I equally contributed to the development of the idea, the experiment and the analysis of the data. All three of us contributed equally to the writing process.*

20. Livne-Luzon S, Avidan Y, Weber G, Migael H, Bruns T, Ovadia O & **Shemesh H** (2016). Wild boars as spore dispersal agents of

ectomycorrhizal fungi: Consequences for community composition at different habitat types. ***Mycorrhiza***. 27 (3), 165-174.
*Citations:28*
*When published IF:3.0 Q2 (Mycology 9/30).*
*2025 IF:3.3 Q1 (Plant Sciences 65/265).*
*Livne-Luzon, Ovadia and I equally contributed to the development of the idea, the experiment and the analysis of the data. All three of us contributed equally to the writing process.*

21. Dener E, Kacelnik A & **Shemesh H** (2016). Pea plants show risk sensitivity. ***Current Biology***, 26(13): 1763–1767.
*Citations:129*
*When published IF:8.9 Q1 (Biochemistry & Molecular Bio. 19/290).*
*2025 IF:8.1 Q1 (Biology 3/109).*
*Dener and I equally contributed to the development of the idea, the experiment and the analysis of the data. All three of us contributed equally to the writing process.*

22. Livne-Luzon S, **Shemesh H**, Gilor O & Ovadia O (2016). The effect of temporal variation in soil carbon inputs on interspecific plant competition. ***Journal of Plant Ecology***, 9(5), 564-575.
*Citations:4*
*When published IF:1.754 Q3 (Ecology 83/153).*
*2025 IF:3 Q1 (Forestry 11/89).*
*Livne-Luzon, Ovadia and I developed the idea. I took part in the analysis and writing.*

23. **Shemesh H**, Ben-Yosef U, Livne S & Ovadia O (2016). The effects of temporal soil carbon dynamics on resource allocation in an annual plant. ***Journal of Plant Ecology***, 9(1), 30-39.
*Citations:4*
*When published IF:1.754 Q3 (Ecology 83/153).*
*2025 IF:3 Q1 (Forestry 11/89).*

*I developed the idea, led the data collection, the analysis, and led the writing of the paper.*

24. **Shemesh H** & Novoplansky A (2012). Branching the risks: architectural plasticity and bet-hedging in Mediterranean annuals. ***Plant Biology***, 15(6):1001-12.
*Citations:10*
*When published IF:2.3 Q2 (Plant Sciences 56/197).*
*2025 IF:4.2 Q1 (Plant Sciences 42/265).*
*Novoplansky and I developed the idea, I led the data collection and the analysis. I led the writing of the paper.*

25. **Shemesh H**, Zaitchik B, Acuña T & Novoplansky A (2012). Architectural plasticity in a Mediterranean winter annual. ***Plant Signaling and Behavior***, 7(4): 492-501.
*Citations:4*
*When published NA*
*2025 IF:2.25 Q2 (Plant Sciences 80/265).*
*Novoplansky developed the idea. Zaitchik and Acuña collected the data. I analyzed the data. I led the writing of the paper.*

26. **Shemesh H**, Ovadia O & Novoplansky A (2012). Prioritized contingencies: Context-dependent responses to herbivore saliva. ***Plant Ecology***, 213(1): 167-174.
*Citations:6*
*When published IF:1.5 Q2. (Forestry 19/62)*
*2025 IF:1.9 Q2 (Forestry 30/89).*
*All three of us developed the idea, I led the data collection and the analysis and the writing of the paper.*

27. **Shemesh H**, Rosen R, Tunes G, Novoplansky A & Ovadia O (2011). The effect of steepness of temporal resource gradients on spatial root allocation. ***Plant Signaling and Behavior***, 6(9): 1356 - 1360.
*Citations:7*

*When published NA*
*2025 IF:2.25 Q2 (Plant Sciences 80/265).*
*Ovadia, Novoplansky and I developed the idea, I led the data collection and the analysis and the writing of the paper.*

28. **Shemesh H**, Ovadia O & Novoplansky A (2010) Anticipating future conditions via trajectory sensitivity. ***Plant Signaling and Behavior***, 5(11): 1501 - 1503.
*Citations:16*
*When published NA*
*2025 IF:2.25 Q2 (Plant Sciences 80/265).*
*Ovadia, Novoplansky and I developed the idea, I led the data collection and the analysis and the writing of the paper.*

29. **Shemesh H,** Arbiv A, Gersani M, Ovadia O & Novoplansky A (2010) The effects of nutrient dynamics on root patch choice. ***PLoS ONE,*** 5(5): e10824.
*Citations:81*
*When published IF:4.4 Q1 (Biology 12/86).*
*2025 IF:2.9 Q1 (Multidisciplinary Sciences 32/134).*
*Ovadia, Novoplansky, Gersani and I developed the idea, Arbiv and I led the data collection. I led the analysis and the writing of the paper.*

30. Sadeh A, **Guterman H[$]**, Gersani M & Ovadia O (2009) Plastic bet-hedging in an amphicarpic annual: an integrated strategy under variable conditions. ***Evolutionary Ecology***, 23: 373-388. [$] **Previous surname: Guterman.**
*Citations:79*
*When published IF:3.2 Q2 (Ecology 33/129).*
*2025 IF:1.8 Q3 (Ecology 115/197).*
*The idea was developed by all authors. The experiment was conducted by Sadeh and me. Analysis and writing were done by Sadeh, Ovadia and me. The order of the first two authors was determined by a coin flip.*

**Accepted for publication**