

Curriculum Vitae

Idan Pereman, Ph.D.

**Head of the edible mushroom molecular-biology lab.
Edible mushroom and analytics group-MIGAL**

Date and Place of Birth: 1975, Tel Aviv, Israel

Marital Status: Married, 3 children

Position:

2018- present **Head of the molecular-biology lab of edible mushrooms**
Migal- Galilee research institute

Education:

2008-2013 **Ph.D in Biology** (*Dean's scholarship for outstanding students*) -*Molecular Biology and Ecology of Plants Department*- Tel-Aviv University-Israel.

Doctoral Dissertation: The Role of the Polycomb Complex in H3K27 Methylation and Phase Transition in *Physcomitrella patens*.

Advisor: **Prof. Nir Ohad**

2003-2005 **M.Sc in Biology** (*With Distinction*) -*Cell Research and Immunology Department* - Tel-Aviv University-Israel.

Master's Thesis: Characterization of the Poly(A)-Binding Protein (PABP) during the cell cycle.

Advisor: **Prof. Orna E. Stein**

2000-2002 **B.Sc. in Biology** (*With Distinction*)-Tel-Aviv University-Israel.

Advanced studies

2014-2018 **Post-Doctoral studies- Weizmann institute of science-** Rehovot-Israel

2016-2018 **2nd Post-Doc- Cryo-Scanning-Transmission-Electron-Microscopy (Cryo-STEM) imaging of chromatin in yeast nuclei.** Chemical and biological physics Department.

Advisor: **Prof. Michael Elbaum.**

2014-2016 **1st Post-Doc- Live imaging and tracking of *Agrobacterium tumefaciens* T-DNA dynamics in *Nicotiana benthamiana*.** Plant and environmental sciences department.

Advisor: **Prof. Avraham A. Levy**

Teaching experience:

2020- present **Lecturer at the Tel-Hai Collage: “The Mushroom Kingdom – Biology and applications” (course, B.Sc.- 3rd year)**

2010-2013 **Teaching assistant - “Advanced- Molecular biology of Plants” (lab course) - TAU**

Industrial and applicative practice:

2021-present **Co-founder and R&D leading researcher- “Mushfoods”- Mushroom based protein- “The Kitchen” FoodTech hub – Israel**

2020-present **Scientific consultant – Fungal biology and cultivation – “Ilsar Truffles” company – Israel**

2022 **Co-inventor -Patent Application No. 63/423,200 –“Edible aerial mycelium, methods for their preparation and food products comprising the same”(provisional).**

Conferences and invited lectures (partial list):

2023 **The 1st conference of the Israeli wild mushroom association-Israel- Oral presentation.**

2022 **IMM11 - The 11th International Medicinal Mushroom Conference -Serbia- Oral presentation.**

2022 **Tel-Hai 9th Food-tech conference- Israel- Oral presentation.**

2022 **1st Conference of functional mycology – Israel-Organizing committee and oral presentation.**

2021 **ISMS 2021 - International Society of mushroom science- e. congress -Oral presentation.**

2020 **The Israeli conference for medicinal mushrooms- Oral presentation.**

2018 **Gregory Mendel institute- Vienna, Austria- Invited Seminar.**

2018 **EMBL institute -Heidelberg, Germany- Invited Seminar.**

2016 **PGSC – Plant Genome Stability and Change conference – Kanagawa- Japan- Oral presentation.**

Professional training:

2017 **STEM cryo-tomography-** Electron microscopy unit- Chemical research support department- Weizmann institute – Israel.

2017 **TEM microscopy-** Electron microscopy unit- Chemical research support department- Weizmann institute – Israel.

2014 **Confocal microscopy – Faculty of Biochemistry- Weizmann institute -Israel.**

2009 ***Physcomitrella patens*-A plant model for molecular biology research – Okazaki – Japan.**

List of publications:

Compounds originating from the edible mushroom *Auricularia auricula-judae* inhibit tropomyosin receptor kinase B activity.

Orr Shahar, **Idan Pereman**, Hazem Khamaisi, Nirit Ezov, Ofir Degani, Ali Khatib, Ron Schweitzer, Soliman Khatib, Jamal Mahajna. (Under final review-2022)

***Ochodaeus berytensis* Petrovitz (Coleoptera: Ochodaeidae), a new pest of the truffle *Tuber aestivum* in Upper Galilee, Israel.**

Jean-Bernard Huchet, Lotem Azoulay, Ofer Danay, Nirit Ezov, **Idan Pereman**, Ariel-Leib Friedman, Liora Shaltiel-Harpaz (2022). *Journal of applied entomology* doi.org/10.1111/jen.13027

Developing methodologies for enriching forests with mycorrhizal edible-mushrooms and the analysis of its effect on the growth rate of three Pine tree species.

Nirit Ezov, Shay levy¹, Aviv Aizenband, Eylon kalev, **Idan Pereman**, Dan Levanon and Ofer Danai. (2020). *Ya'ar Journal -KKL*. Issue 19.

T-DNA intermediates single molecule imaging in *Nicotiana benthamiana* following *Agrobacterium tumefaciens* infiltration.

Idan Pereman, Cathy Melamed-Bessudo, Tali Dadosh, Tal Dahan, Elad Herz, Michael Elbaum and Avraham A. Levy (2019). *Int. J. Mol. Sci.*, 20, 6209; doi:10.3390/ijms20246209

Mycelium bio-composites in industrial design and architecture: Comparative review and experimental.

Noam Attias, Ofer Danai, Tiffany Abitbol, Ezri Tarazi, Nirit Ezov, **Idan Pereman**, Yasha J. Grobman (2019) *Journal of Cleaner Production*, doi: 10.1016/j.jclepro.2019.119037

Direct fluorescence detection of VirE2 secretion by *Agrobacterium tumefaciens*.

Noga Yaakov, Yoav Barak, **Idan Pereman**, Peter J Christie and Michael Elbaum *PLOS-ONE* (2017). 12(4): e0175273. <https://doi.org/10.1371/journal.pone.0175273>

The Polycomb group protein CLF emerges as a specific tri-methylase of H3K27 regulating gene expression and development in *Physcomitrella patens*.

Idan Pereman, Assaf Mosquna, Aviva Katz, Gertrud Wiedemann, Daniel Lang, Eva L. Decker, Yosuke Tamada, Takaaki Ishikawa, Tomoaki Nishiyama, Mitsuyasu Hasebe, Ralf Reski and Nir Ohad (2016). *BBA - Gene Regulatory Mechanisms*, Volume 1859, Issue 7, July 860–870

A single homeobox gene triggers phase transition, embryogenesis and asexual reproduction.

Nelly A. Horst, Aviva Katz, **Idan Pereman**, Eva L. Decker, Nir Ohad and Ralf Reski (2016). *Nature plants*, Article number:15209 Doi:10.1038/nplants.2015.209

The Apc5 Subunit of the Anaphase-Promoting Complex/Cyclosome Interacts with Poly(A) Binding Protein and Represses Internal Ribosome Entry Site-Mediated Translation.

Nadejda Koloteva-Levine, Dalia Pinchasi, **Idan Pereman**, Amit Zur, Michael Brandeis, and Orna Elroy-Stein. (2004). *Mol. Cell. Biol.* 24: 3577-3587.