



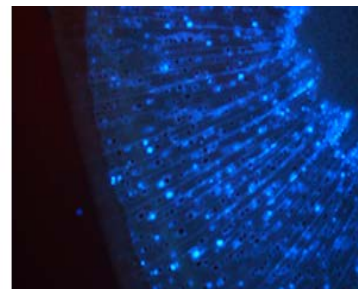
WEIZMANN
INSTITUTE
OF SCIENCE

HORIZON-CL6-2022-BIODIV-01-07: Protection and sustainable management of forest genetic resources of high interest for biodiversity, climate change adaptation, and forest reproductive materials

I am Tamir Klein, a tree eco-physiologist. My group at the Weizmann Institute of Science (The Weizmann Tree Lab; <http://www.weizmann.ac.il/plants/klein/>) studies multiple aspects of root eco-physiology in forest and orchard settings:



- A European-wide biogeographical analysis of tree species distribution range edges, and their climatic, biotic, and anthropogenic drivers
- A comparative study of productivity and tree carbon allocation in a diverse mixed Mediterranean forest and adjacent monoculture plots
- A study of ecotypic variation in hydraulic and stomatal traits inferring drought resistance among native forest tree species
- Provenance trials on key Mediterranean tree species (*Pinus halepensis*) and arid land species (*Acacia tortilis*) to study their climate change adaptation



The Weizmann Tree Lab offers the following opportunities for research directed at the BIODIV-01-07 call topics:

- Our own network of forest research plots along the rainfall gradient in Israel (50 to 1500 mm year⁻¹), with continuous monitoring and instrumentation at each plot
- Access to provenance trials in Israel, at Europe's hot and dry edge
- A molecular lab with three postdocs, six PhD students, and six MSc students, to study forest genetic resources
- A fully equipped tree eco-physiology lab, including our own carbon isotope analyzer, tree micro C.T., CO₂-controlled growth rooms, and multiple greenhouse facilities

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