Hong Kong-Israel Collaboration Workshop Series: AgriFood-Tech Speaker Bios - Keynote Address #2



Prof. Menachem Moshelion
Faculty of Agriculture
Food and Environment of the Hebrew University

Prof. Moshelion is a molecular physiologist interested in elucidating the molecular and cellular mechanisms controlling whole-plant Water-Use Efficiency, water-potential homeostasis and crop productivity, under normal and abiotic stress conditions. Mainly he

focused on small membrane proteins which function as water channels – Aquaporins (AQPs).

His research hypothesis is that AQPs might be good candidates for controlling the plant's osmotic and hydraulic conductivity, and since some AQPs have been reported to conduct CO2, there was a strong likelihood that they could be used to improve osmotic stress tolerance and Water-Use Efficiency in plants (Their agricultural model plant is tomato (*Solanum lycopersicom*)).

Prof. Moshelion is an expert in High-throughput functional phenotyping of whole-plant water relations and responses to environmental stresses, which led him to co-found Plant-DiTech (functional diagnostics tools for plant environment physiological interactions https://www.plant-ditech.com/).

Details: https://plantscience.agri.huji.ac.il/menachemmoshelion.