

Mini-Symposium on Future Directions in Space Science and Lunar Agriculture

We are pleased to welcome you to the **Mini-Symposium on Future Directions in Space Science and Lunar Agriculture**. This event highlights advancements in space research for human life and sustainable agricultural systems. The symposium aims to inspire innovative solutions for the future of space-based life support systems.

This mini-symposium is organised by Faculty of Agricultural Sciences and Technologies, Yasar University, Bornova, Izmir/ Türkiye.

The symposium will take place between 9:00 –12:30 in Rectorate Main Conference Hall, and seminars between 13:30 –16:00 in Y building (Y010) on May 5th, 2026.

Speakers:

Prof. Dr. Hideyuki Takahashi

Research Center for Space Agriculture and Horticulture, Chiba University, Japan

Prof. Dr. Atsushi Higashitani

Graduate School of Life Sciences, Tohoku University, Japan

Prof. Dr. Cengiz Toklu

Department of Civil Engineering, Istanbul Aydın University, Türkiye

Symposium chair: Prof. Dr. Ismail Türkan, (Dean)

Faculty of Agricultural Sciences and Technologies, Yaşar University, Türkiye

Program:

Location: Rectorate Building, Main Conference Hall

May 5, 2026:

9:00 – 9:30- Registration

9:30 – 10:00- Opening speeches

10:00 – 10:45- Prof. Dr. Atsushi Higashitani (Tohoku University, Japan)

*“Spaceflight experiments using the model organisms *C. elegans* and health risk to the human body under microgravity in outer space”*

10:45 – 11:30- Prof. Dr. Hideyuki Takahashi (Chiba University, Japan)

“Plant Spaceflight Experiments and Future Lunar Agriculture”

11:30 – 11:45- Coffee Break

11:45 – 12:30- Prof. Dr. Cengiz Toklu (Istanbul Aydın University, Türkiye)

“Production of Simulants of Lunar and Martian Soils for Various Purposes”

12:30 – 13:30- Lunch

Seminars: “The effects of plasma treatments on seed germination and plant growth”

Location: Y Building, Y010

13.30 – 14:15- Prof. Dr. Atsushi Higashitani & Dr. Nahoko Higashitani

Graduate School of Life Sciences, Tohoku University, Japan

14:15 – 15:00- Dr. Keriman Şekerci

Graduate School of Life Sciences, Tohoku University, Japan

15:00 – 15:15- Coffee Break

15:15 – 16:00- Dr. Maria Isabel Fuentes Merlos

Graduate School of Life Sciences, Tohoku University, Japan

Faculty of Health Science, Istmo University, Guatemala