

# The International Symposium on One Health by Sustainable Bio-ecosystem



- Understanding and utilizing plant-microbe interactions in agricultural soils -

September 6, 2024

9:45a.m. - 5:25p.m. JST

Doors open 30 minutes prior.

## Venue

Okuma Auditorium, Building No.21, Waseda Campus, Waseda University, Tokyo, Japan  
\* You can join the symposium online as well.  
\* Simultaneous interpretation between Japanese and English is available.

## Host

- Waseda University
- Consortium for "The platform for sustainable farming by environmental control based on the microbe atlas of the soil," Moonshot Goal 5
- Integrated Institute for Regulatory Science, Research Organization for Nano & Life Innovation, Waseda University

## Co-Hosts

- Institute of Global Innovation Research, Tokyo University of Agriculture and Technology

## Support

- Bio-oriented Technology Research Advancement Institution (BRAIN)
- Japan Bioindustry Association (JBA)

## Application

Please fill out the registration form at the following URL:  
<https://forms.gle/pEUi2GtdQYU7bPwg7>

Application deadline: September 5, 1:00p.m.



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Program			
Time	Presenter	Affiliation	Title
9:45 - 11:40 Chair: Hruko Takeyama (Waseda University)			
9:45 -	Haruko Takeyama	Professor, Waseda University	Welcome Words
9:50 -	Aiji Tanaka	President, Waseda University	Opening Remarks
9:55 -	Jean-Eric Paquet	Ambassador of the European Union (EU) to Japan	Introductory Address I
10:15 -	Takao Shinobu	Research Councillor (Deputy Director-General) Agriculture, Forestry and Fisheries Research Council Ministry of Agriculture, Forestry and Fisheries	Introductory Address II
10:25 -	Peter Wehrheim	Head of the Unit "Food Systems and the Bioeconomy," Deputy Mission Manager for the Mission "A Soil Deal for Europe," European Commission, Directorate- General for Research and Innovation	Keynote I The EU Mission A Soil Deal For Europe: Opportunities for International Cooperation
10:45 -	Kazuhiro Chiba	President, Tokyo University of Agriculture and Technology (Program Director, Moonshot Goal 5)	Keynote II Value Creation based on Social Risk Reduction and Global Linkages
11:05 -	Haruko Takeyama	Professor, Waseda University (Project Manager, Moonshot Goal 5)	Construction of Circulating Production Platform by Environmental Control Based on Soil Microbe Atlas
11:25 -	Commemorative photo shoot		
13:00 - 14:30 Chair: Satoru Shimokawa (Waseda University)			
13:00 -	Ryusuke Hatano	Emeritus Professor, Hokkaido University (Associate member of the Science Council of Japan)	Soil health intensification through strengthening soil structure improves soil carbon sequestration
13:15 -	Gary Stacey	Curators' Distinguished Professor, University of Missouri	Challenge of employing biologicals to enhance crop productivity
13:35 -	Karsten Temme	Chief Innovation Officer and Co-Founder, Pivot Bio	Innovating the Future of Fertilizer at Pivot Bio
13:55 -	Naoko Ohkama-Ohtsu	Professor, Tokyo University of Agriculture and Technology (Project Member, Moonshot Goal 5)	Research and development of biofertilizers containing soil microorganisms that confer environmental stress resistance to crop plants
14:10 -	Claudia Knief	Professor, University of Bonn	Root structure and photosynthate allocation determine interactively spatial patterns in the maize rhizosphere microbiota
14:45 - 15:45 Chair: Tsuyoshi Tanaka (Tokyo University of Agriculture and Technology)			
14:45 -	Sofie Goormachtig	Professor, Ghent University	Capturing rhizobia to introduce high-protein yielding soybeans in Europe
15:05 -	Edoardo Puglisi	Associate Professor, Università Cattolica del Sacro Cuore	The beneficial soil microbiome: from soil quality indicators to the development of microbial biostimulants and biopesticides
15:25 -	Brett Ferguson	Associate Professor, The University of Queensland	Molecular Mechanisms of Legume Nodulation Control
16:00 - 17:25 Chair: Toyoaki Anai (Kyushu University)			
16:00 -	Minami Matsui	Project Professor, Yokohama City University (Project Member, Moonshot Goal 5)	Soil conditions affect expression profiles of genes involving plant-soil communication.
16:15 -	Akiko Hanada	Taiheiyo Cement Corporation (Project Member, Moonshot Goal 5)	Development of technology to utilize phosphorus derived from wastewater: phosphorus recycle initiatives at Taiheiyo Cement Corporation
16:30 -	Satoshi Wada	RIKEN (Project Member, Moonshot Goal 5)	Development of a Completely Enclosed Environmental Control Agricultural Cultivation System
16:45 -	Isao Tsuru	President and CEO, Loco Door Co., Ltd.	Standardization of Carbon Neutrality in Agriculture
17:00 -	Yasunori Ichihashi	RIKEN (Project Member, Moonshot Goal 5)	Development of Agricultural Digital Twins
17:15 -	Takayuki Homma	Executive Vice President for Academic Affairs, Research Advancement, and Industry-Academia Collaboration, Vice Provost, Waseda University	Closing Remarks

Contact

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