

3rd NARO–WUR CONFERENCE
Innovation toward a Global Food Security
– Sustainable Agri and Food System

TUESDAY 17 OCTOBER 2023
WAGENINGEN CAMPUS OMNIA



Today, the world faces the major challenges of climate change and food shortages. The world's population is expected to reach 9.7 billion by 2050, and food production needs to increase to keep pace with population growth. On the other hand, agriculture is one of the main sources of greenhouse gas emissions, and emission reduction measures are needed to mitigate climate change.

Food security is an important concern globally, and technological innovations such as sustainable production and drastic reduction of food losses through the introduction of smart agricultural technologies are needed. There is also a need to transform the food system so that consumers can work together.

To discuss future innovations in Europe, where agricultural production with a focus on sustainability is promoted, we will invite researchers and companies from Japan and the Netherlands to discuss future international joint research.

The [National Agriculture and Food Research organization \(NARO\)](#), Japan and [Wageningen University & Research \(WUR\)](#), the Netherlands have a strong partnership in the field of agricultural technology and food technology. Therefore they jointly organize a one-day conference “Innovation toward a Global Food Security – Sustainable Agri and Food System” on Tuesday 17 October 2023 at Wageningen Campus.

Join us in Wageningen featuring key note speaker Dr. Hiroshi NAKAGAWA, NARO Executive Researcher and many other leading professionals. Please see below to get a glimpse of the programme.

‘See the near future high tech society in the business academic atmosphere in this conference’

[Register Here](#)

PROGRAMME

- 09:30–09:55 Registration and Welcome coffee
- 10:00–10:05 Opening address from NARO, President Dr. Kazuo KYUMA
- 10:05–10:10 Opening address from WUR, Senior Vice President Prof. Dr. Arthur Mol
- 10:10–10:15 Short word of introduction as a representative of the Government of the Netherlands Ministry of Agriculture, Nature and Food Quality, Special Envoy Mr. Freek Vossenaar
- 10:15–10:20 Short word of introduction as a representative of the Government of Japan Embassy of Japan in the Netherlands, Ambassador of Japan to the Netherlands, H. E. Mr. Hiroshi MINAMI
- 10:30–11:00 Keynote speech Data-driven Crop cultivation management, including its application on WAGRI, Agricultural Data Collaboration Platform provided by NARO, Dr. Hiroshi NAKAGAWA, Executive Researcher, Research Center for Agricultural Information Technology, NARO
- 11:00–11:30 Keynote speech
Dr. Peter Groot Koerkamp, Professor Biosystems Engineering, Department of Plant Sciences
- 11:30–13:30 Lunch and information market
- 13:30–15:00 Parallel sessions (more information, see next page)
- Parallel session 1 “Agri tech” Chaired by Dr. Mitsuru Okuda, NARO/WUR
 - Parallel session 2 “Food tech” Chaired by Dr. Kazuhisa Goto, NARO
 - Parallel session 3 “Environment” Chaired by Dr. Atsuro Matsuda, Vice president, NARO
- 15:00–15:10 Closing Remarks, Account Manager Asia, Corporate Strategy & Accounts, WUR, Dr. Kalyan Guntuboyina
- 15:30–17:00 **Optional campus tour** (Agri tech Unifarm , Food tech Phenomea, General Campus Tour)

CONFERENCE FEE

Free of charge

PROGRAMME PARALLEL SESSIONS TIME
13:30–15:00

Session 1: Agritech

- Presenter 1 Development of crops that are resilient to environmental stress
Dr. Kazuhiko SUGIMOTO, Manager, Division of Crop Design Research, Institute of Crop Science, NARO
- Presenter 2 UAV imaging for potato crop growth modelling, lessons learned from the TTADDA project
Dr. Gerrit Polder, Seiner researcher of Greenhouse Horticulture Business Unit at Wageningen University and Research Plant science group
- Presenter 3 **Mr. Peter van der Vlugt**, KUBOTA Europe
- Presenter 4 One planet Research centre

Session 2: Foodtech

- Presenter 1 Evaluation and visualization of food texture, taste and flavor
Dr. Masuko KOBORI, Manager, Division of Food Function Research, Institute of Food Research, NARO
- Presenter 2 Chew on it!: From food structure to perception and health
Prof. Dr. Markus Stieger, Sensory Science and Eating Behavior
Division of Human Nutrition and Health, Wageningen University and Research
- Presenter 3 “EmojiGrid” – New tool for expressing food-evoked emotions
Dr. Haruka Hiraguchi, Senior Researcher, Kikkoman Europe R&D Laboratory B.V.
- Presenter 4 “Plant-based foods without compromise”
Dr. Els de Hoog is a senior project manager Flavour & Texture at NIZO food research.

Session 3: Environment

- Presenter 1 Reduction of GHG Emissions from Bovine Rumen
Dr. Tomoyuki Suzuki, Deputy Leader, Dairy Cattle Nutrition and Breeding Group,
Division of Dairy Cattle Feeding and Breeding Research, Institute of Livestock and Grassland Science, NARO
- Presenter 2 Challenges of livestock production in an urban landscape
Dr. Theun Vellinga, senior researcher livestock and environment, Wageningen University and Research
- Presenter 3 **Mr. Yasutake Atsushi**, President & CEO, Norinchukin Bank Europe N.V.