

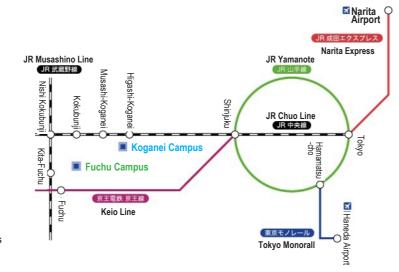
Take the Keio bus (Fuchu Station via Meisei Gakuen, □By Keio line, Fuchu Station

Walk about 12 minutes to campus.

-Koganei Campus

2-24-16 Naka-cho, Koganei-shi, Tokyo 184-8588 □Take the JR Chuo Line from Tokyo Station (rapid train) to Higashi-Koganei Station: 40 minutes. Walk about 10 minutes

□Take the JR Chuo line to Musashi-Koganei Station. Walk about 20 minutes to campus.



<Contact>

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Challenge to the global problems of "food" and "energy"

Institute of Global Innovation Research

Tokyo University of Agriculture and Technology



-Fuchu Campus

3-5-8 Saiwai-cho, Fuchu-shi, Tokyo 183-8509 □By JR Chuo line, Kokubunji Station

Tera No91) from bus terminal no. 2 boarding area of Kokubunji Station south exit and get off Harumicho bus stop. About 10 minutes bus ride.

Take the Keio bus (Kokubunji Station south exit via Meisei Gakuen, Tera No91) from bus terminal no. 2 of boarding area of Fuchu Station north exit and get off Harumicho bus stop. About 7 minutes bus ride. □By JR Musashino line, Kita-Fuchu Station

Institute of Global Innovation Support Office, Research Support Office, Research Advancement Division

Institute of Global Innovation Research Website

Tokyo University of Agriculture and Technology Institute of Global Innovation Research

Message



President Prof. Tadashi Matsunaga

Tokyo University of Agriculture and Technology (TUAT) distinctively focuses on education and research in the fields of agriculture and engineering that constitute the core of industry today. Our future vision based on a third medium-term objectives/plan is to achieve competitive research capabilities on the world stage. Resolving serious problems such as environmental degradation, energy issues, and food and constructing a sustainable society requires efforts from a broad range of perspectives extending beyond the pivotal agriculture and engineering framework.



Dean Prof. Akinori Koukitu

TUAT was selected as one of the twelve national universities rapidly promoting global research in 2014. In April 2016, TUAT established the Institute of Global Innovation Research (GIR) including the three organizations: "Women's Future Development Organization." "Innovation Advancement Organization," and "Organization for Promotion of Tenure-track System". We promote the activities of fourteen strategic research teams on three major areas: "food," "energy" and "life sciences,".



Executive Acting Dean Prof. Chisato Miyaura

Prof. Arie (Vice-Dean, Agriculture), Prof. Yohda (Vice-Dean, Technology) and I organize the GIR committe for the fourteen research teams to facilitate international collaborations. We endeavor to enhance the further globalization of younger researchers, including graduate students. The strategic research teams provide these researchers with various opportunities to interact with internationally recognized professors to increase their competitiveness and gain global-innovative human resources.

Institute of Global Innovation Research Website https://www.tuat-global.jp/ (Japanese) https://www.tuat-global.jp/english/ (English)

Approaches

As part of the National Universities' Budget for the FY2014, Tokyo University of Agriculture and Technology received priority allocation for the rapid enhancement of educational and world-class research activities. In exploiting our advantages in the agriculture and engineering fields, and as an initiative to enhance our research capabilities, we established the Institute of Global Innovation Research as a research university in April 2016. We prioritize research in three key areas: "food," "energy" and "life sciences," which constitute an interdisciplinary area between agriculture and engineering fields. We aim to develop the Global Innovation Human Resources in Science who have a broad vision of both scientific techniques and management skills, among other skills, as well as a global perspective.

Food

Food is one of the critical challenges that the international community is currently facing. Particularly, food shortages afflict many people living mainly in the Asia-Pacific region. "Food" as a priority theme encompasses both food production and environmental science to solve these issues.

Tadashi Yokoyama Team

■ Research and development of technology for increasing yields of rice and soybean using their genome information and biofertilizer



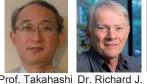
Prof. Yokovama Dr. Rowan F.



Nobuhiro Takahashi Team

■Elucidation of RNA function in animal/plant cells, and development of its







Simpson Hideshige Takada Team

■Global assessment of transboundary pollution across the ocean and the air



Dr. Richard

Thompson



Koiwa



Dr. Hrissi Karapanagioti (George) Lin

Rvo Funada Team

■Analysis of molecular structure of cell wall for advanced utilization of







Food

Priority Field 1

Production of Food

Environmental Science

Animal Science

Protein Synthesis

Energy

Energy issues should be considered to be a great challenge facing humanity. "Energy" as a priority theme addresses energy problems according to the application of capacitors, LED, ionic liquids, and smart green mobility.

Hiroyuki Ohno Team

■ Development of novel energy conversion technology with ionic liquids



Prof. Ohno Dr. Bruno Scrosat

Yoshinao Kumagai Team

■ Development of AlGaN-based deep-UV light emitting diodes





Prof. Kumagai Dr. Bo Monema

Katsuhiko Naoi Team

■ Platform for leading world capacitor science





Simon





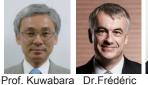
Dr. Patrick Rozier

Brousse

Toshihiko Kuwabara Team

■ Development of novel and fundamental technology to promote smart green mobility









Capacitor

Green Mobility



Energy Control

Priority Field 2 **Energy**

LED **Ionic Liquid**





Energy efficiency

Advancement of international collaboratio Development of young researchers

Tokyo University of Agriculture and Technology

Institute of Global Innovation Research

■ Employment of world's leading researchers as core professors

"Carrier challenge" (Tenure Track system) etc

Life science

Priority Field 3 Life Science

Advanced

Priority fields: Strategic research teams



Protein Science Life and Medical Science

Life science

Life science has a significant impact on our health and well-being. "Life Science" as a priority theme pushes and precedes the edge of technical possibility, mainly in protein synthesis and life science.

Kazuhiro Chiba Team

Synthesis of bioactive particles toward new drug delivery system









Masaki Inada Team

Research approach on Collagen Molecule Complex (CMC) metabolisms for bio-medical application



Nagase





Grundler



Tsuyoshi Tanaka Team ■ Center of excellence for marine omics



Dr David

Kisailus

Koji Sode Team

■ Development of innovative biodevices employing autonomous sensing





Robin Lowe Mulchandani Ortega

Makoto Shibutani Team

■ Seed investigation of insect-derived ingredients on the efficacy for overcoming diseases







Prof. Shibutani Dr. Michael R. Dr. Peixin Yang

Kazuhiko Misawa Team

■ Interdisciplinary research initiative of optical science for clarifying in-vivo signaling mechanism







Dr. Hiroaki Dr. Tianshu Liu Dr. Atsushi