

# UNIVERSITY OF TSUKUBA, FACULTY OF MEDICINE SUMMER RESEARCH PROGRAM 2021



## DISCOVER A NEW WORLD OF RESEARCH

## September 21-30, 2021

The 11th Summer Research Program 2021 by the Faculty of Medicine at the University of Tsukuba will be held Online from September 21 to the 30, 2021. Participants will have an opportunity to explore the latest biomedical research at Tsukuba, participate in the workshops, and attend the Tsukuba Global Science Week Online Conference. We also plan to have special lectures and social events for the participants to learn about Tsukuba and Japanese culture.

### RESEARCH THEMES

- Age-related clonal hematopoiesis - *Shigeru Chiba*
- Roles of RNA-binding proteins and mRNA decay factors in post-transcriptional regulation of gene expression - *Kenji Irie*
- Cell biology of viral replication and immune responses in SARS-CoV-2-infected cells - *Atsushi Kawaguchi*
- Genetic competence and acquisition of antibiotics resistance - *Kazuya Morikawa*
- Translational technology development in genomics - *Masafumi Muratani*
- Top cutting-edge cell-free therapy in regenerative medicine - *Osamu Ohneda*
- Mechanisms of adult-born neuron activity for memory consolidation in sleep - *Masanori Sakaguchi*
- Role of immune receptors in the pathophysiology of intractable diseases - *Kazuko Shibuya*
- Metabolism as molecular underpinnings for our system integrity, physiology, pathology and beyond - *Hitoshi Shimano*
- Histological analysis of genetically manipulated mice - *Satoru Takahashi*
- Molecular mechanism for the irrecoverable change of human intestinal epithelial cells in inflammatory bowel disease - *Kiichiro Tsuchiya*

#### CULTURAL & SOCIAL EXCHANGE

Meet new friends & collaborators & experience Japanese culture

#### CUTTING-EDGE RESEARCH THEMES

Choose from an exciting range of biomedical research themes

#### SPECIAL SCIENTIFIC WORKSHOPS

Participate in workshops on hot topics in science

#### ONLINE SCIENTIFIC CONFERENCE

Free entry to the *Tsukuba Global Science Week Conference 2021*

### SCIENTIFIC WORKSHOPS

- Genome Editing with CRISPR and Cas Technology - *Seiya Mizuno*
- mRNA; Novel Vaccine and Beyond - *Kiong Ho*
- How to Write a Research Proposal in English - *Thomas Mayers*

### APPLICATIONS REQUIREMENTS

Undergraduate (2nd year and above) or Master's program graduate students majoring in life science or related fields, with a GPA of above 3.0 (on a 4.0 scale).



筑波大学  
University of Tsukuba



Website: <https://tsukubamed.org/srp2021>  
<https://www.facebook.com/groups/228549873870987>

