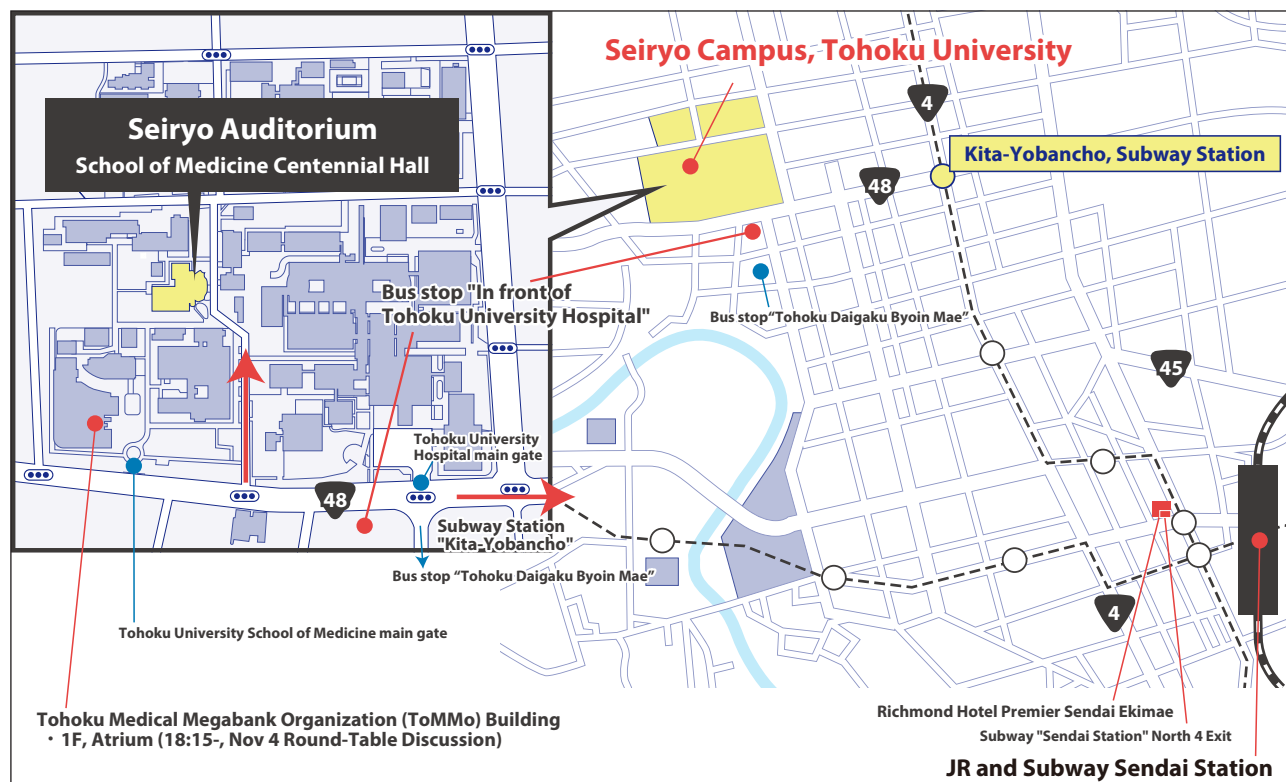


Access

Venue: Tohoku University Seiryō Auditorium, Sendai, Japan
 2-1 Seiryō-machi, Aoba, Sendai 980-8575, Japan
https://www.tohoku.ac.jp/en/about/map_directions.html



By taxi:

10 min from Sendai Station

By subway NAMBOKU Line:

Three stops from Sendai station,
 get off at "Kita-Yobancho" Station and take the exit labelled "North 2 Exit", then walk 15 min

*Visit Transportation Bureau City of Sendai website for further information:

<https://www.kotsu.city.sendai.jp/english/subway/norikata.html>

By bus:

Catch a bus from platform 10 at the west entrance in front of Sendai Station.
 bound for the "Tohoku Daigaku Byoin Mae" (for Tohoku University Hospital)
 get off at "Tohoku Daigaku Byoin Mae" (for Tohoku University Hospital)
 Approx. a 20 min ride

*Visit Transportation Bureau City of Sendai website for further information:

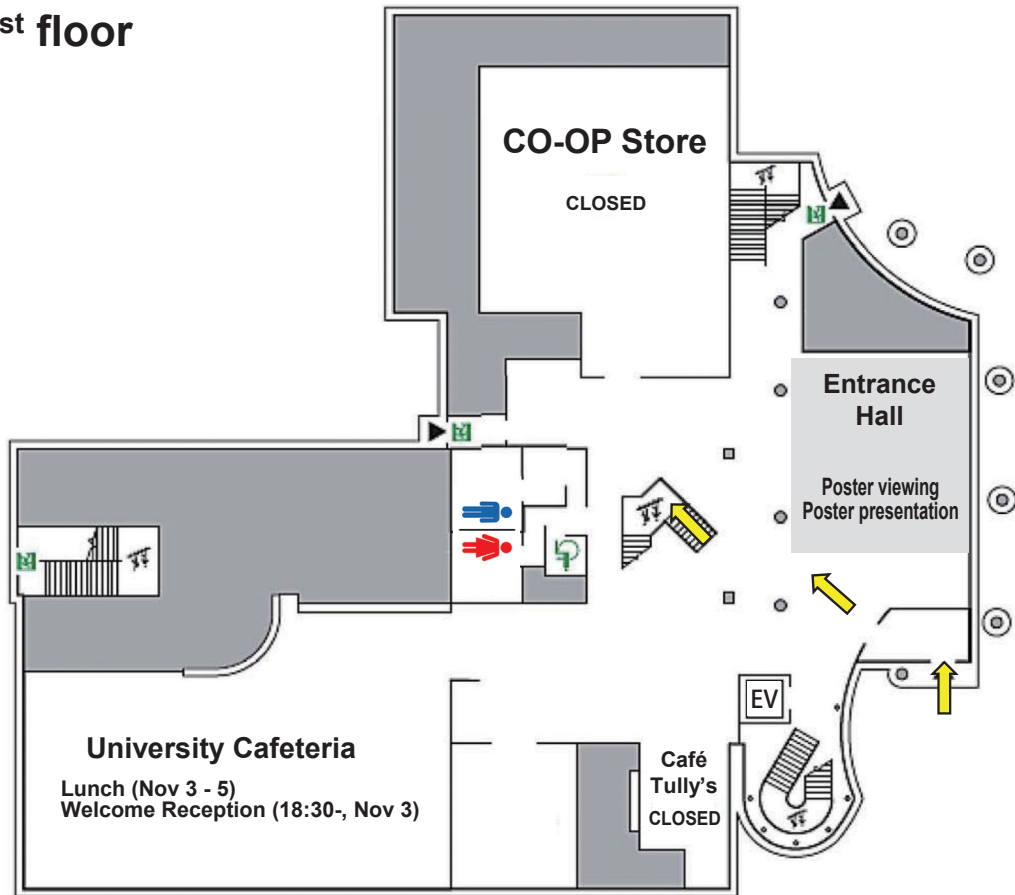
https://www.kotsu.city.sendai.jp/english/bus/noriba_sendai.html

<https://www.kotsu.city.sendai.jp/english/bus/norikata.html>

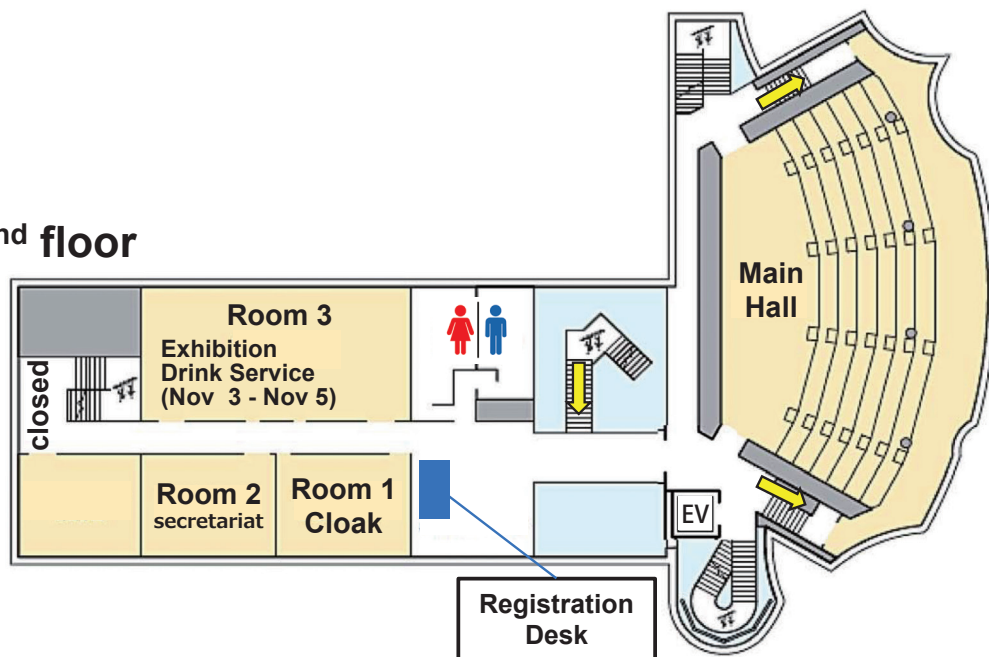
Floor Plan

Seiryo Auditorium

1st floor



2nd floor



Information for Participants

Registration Desk

Place: 2F Seiyo Auditorium

Date & Time: Nov 3 (Fri) 8:30 -

Nov 4 (Sat) 8:15 -

Nov 5 (Sun) 8:15 -

Registration Fee:

Please note that the payment must be made in Japanese yen cash at the Registration Desk.

Category	Pre-registration by website	Onsite Registration
Regular	5,000 JPY	10,000 JPY

*Registration Fee includes:

- Name Card
- Program & Abstract Book
- Lunch box *Pre-registration Only
- Welcome Reception: 18:30-, Nov 3 at 1F Cafeteria
- Round-Table Discussion: 18:15-, Nov 4 at 1F Atrium, Tohoku Medical Megabank Organization (ToMMo) Building
- Excursion Tour: Nov 5 & 6 *Pre-registration Only

*Name Card, Receipt of Registration Fee and Program & Abstract Book will be provided at the on-site Registration Desk.

<Pre-registered Participants>

Please pay the pre-registration fee and receive your Name Card and Program & Abstract Book at the registration desk on your arrival at the venue. If you do not submit the “No Publication Policy Form” to the secretariat, please hand in the form to the registration desk.

Cloak Room

Place: 2F Room 1

Date & Time: Nov 3 (Fri) 8:30 - 18:30

Nov 4 (Sat) 8:15 - 18:00

Nov 5 (Sun) 8:00 - 15:30

*Please bring your belongings to 1F Cafeteria during Welcome Reception on Nov 3

*Please bring your belongings to 1F ToMMo building during Round-Table Discussion on Nov 4

*Please note that valuables will not be accepted.

Welcome Reception

18:30-, Nov 3 at 1F Cafeteria

*Free for all participants

Round-Table Discussion

18:15-, Nov 4 at 1F Atrium, Tohoku Medical Megabank Organization (ToMMo) Building

*See Access Map on P4.

*Free for all participants

Lunch

We will provide the lunch box at 1F Cafeteria to those who registered and applied for a lunch box in advance.

Information for Speakers

Oral presentation

For oral presentations, **speakers are encouraged to bring your own laptop computer** to avoid projection troubles. Please prepare a PowerPoint presentation within the time frame indicated below. We will prepare a projector with **analogue RGB (D-Sub 15 pin) and HDMI input connector**; please bring an adapter for D-Sub 15 pin and HDMI connector if you need. Alternatively, speakers can use computers we have prepared (Mac OS X with PowerPoint for Mac.).

Presentation	Time
Keynote lecture:	45 min including 10 min discussion
Invited talks:	40 min including 5 min discussion
	30 min including 5 min discussion
	20 min including 5 min discussion
Selected posters:	30 min including 5 min discussion
	20 min including 5 min discussion
	15 min including 3 min discussion

Poster presentation

All posters will be displayed in the poster session room during the whole conference.

Please bring the poster with you and put it up on the poster board before starting the symposium, 8:30-9:30AM, Nov. 3.

The poster size should be 150 cm long and 120 cm wide or smaller. Be sure to include the abstract title, author names, and institution in capital letters at the top of your poster. The poster number will be prepared by the secretariat. The posters should be removed by yourself between 12:15 -13:00, Nov. 5.

Poster session:

Odd number: 12:25-13:55, Nov 3

Even number: 12:50-14:20, Nov 4

If your poster is selected for the “**Oral presentation for selected poster**”, the presenter will prepare **BOTH** a poster **AND** a PowerPoint presentation as described above in the “Oral presentation”.

The organizing committee is planning a **POSTER AWARD** to a few poster presenters. The award winners will be announced at the closing remarks on Nov. 5 afternoon.

Wi-Fi

1. Campus Wi-Fi Service “eduroam” is available in Seiryō Auditorium with your account ID and your password issued in your university / institute in advance.
2. In addition, we provide a guest account and password for TAINS Wi-Fi network. **Your account ID and password will be on your name card.**

How to connect your device to TAINS Wi-Fi network using guest account



You can use high-speed Wi-Fi Internet connection supplied by the Tohoku University TAINS network. Below are the instructions showing you how to set up your device on the network.

Your account ID: (your account)@guest.tohoku.ac.jp

Your password: your password

SSID: eduroam

Security: WPA2 Enterprise (AES)

Connection method: PEAP/MSCHAPv2

Rooting Certificate: Security Communication RootCA2

If you cannot succeed to make a connection, you should try NOT use this rooting certificate procedure

Approved connection strategy:

PPTP (GRE(47/ip), 1723/tcp), OpenVPN (1194/tcp, 1194/udp), SSH (22/tcp), IPSec NAT-Traversal (4500/udp, 4500/tcp, 500/udp), HTTP (80/tcp), HTTPS (443/tcp), MSA (Message Submission Agent) (587/tcp), IMAP (143/tcp), IMAPS (993/tcp), POP3 (110/tcp), POP3S (995/tcp), SMTPS (465/tcp), FTP (21/tcp), ICMP (1/ip)

This account will be activate for a limited time and you should follow the rules below,

When you connect to SSID of TAINS, and click to open your web browser, you can see a manual webpage that indicates how to connect to TAINS Wi-Fi.

- ✓ Do not give this account to another person
- ✓ Do not share this account with another person
- ✓ Do not act to destroy out service network
- ✓ Do not act with this account to break the law

If you have any questions about this procedure, please contact the conference staff at anytime.

Time Table

Time	Nov 3 (Fri)	Nov 4 (Sat)	Nov 5 (Sun)	Nov 6 (Mon)
8:30				Excursion Tour -15:30
9:00			Session 8: The KEAP1-NRF2 System and Drug Development 1 8:40-10:10 S8-1 Karen T. LIBY S8-2 Terry W MOORE S8-3 Akihito OTSUKI	
	Opening Remarks Masayuki YAMAMOTO	Session 4: The KEAP1-NRF2 System and Cancers 1 9:00-11:00 S4-1 Anna-Liisa LEVONEN S4-2 Young-Joon SURH S4-3 Gina M DENICOLA S4-4 Kate D. SUTHERLAND		
10:00	Keynote Lectures 9:35-11:05 KL-1 Masayuki YAMAMOTO KL-2 Thomas W KENSLER		Session 9: The KEAP1-NRF2 System and Drug Development 2 10:30-12:00 S9-1 Anqi ZHANG S9-2 Sharadha DAYALAN NAIDU S9-3 Aikseng OOI S9-4 Xiaoxin Luke CHEN S9-5 Antonio CUADRADO	
11:00		Session 5: The KEAP1-NRF2 System and Cancers 2 11:20-12:50 S5-1 Fumiki KATSUOKA S5-2 Liam BAIRD S5-3 Thales PAPAGIANNAKOPOULOS S5-4 Akira KOBAYASHI	Closing Remark Masayuki YAMAMOTO 12:00-12:15	
12:00	Session 1: Molecular Mechanisms of the KEAP1-NRF2 System Function 1 11:25-12:25 S1-1 Hozumi MOTOHASHI S1-2 Michael Ben MAJOR		Lunch 12:15-13:30	
13:00	Lunch time & Poster Discussion (ODD number) 12:25-13:55	Lunch time & Poster Discussion (EVEN number) 12:50-14:20	Public Lecture "Space & Health" 13:30-15:00	
14:00	Session 2: Molecular Mechanisms of the KEAP1-NRF2 System Function 2 13:55-16:05 S2-1 Albena T DINKOVA-KOSTOVA S2-2 Ken ITOH S2-3 Elias S.J. ARNÉR S2-4 Takafumi SUZUKI	Session 6: The KEAP1-NRF2 System and Diseases 1 14:20-15:40 S6-1 Jingbo PI S6-2 Gerasimos SYKIOTIS S6-3 Mi-Kyoung KWAK		
15:00		Session 7: The KEAP1-NRF2 System and Diseases 2 16:00-17:50 S7-1 Ian COPPLE S7-2 Ana I ROJO S7-3 Ioannis TROUGAKOS S7-4 Florian A KARRETH S7-5 Masaki HOSHINO		
16:00	Session 3: Molecular Mechanisms of the KEAP1-NRF2 System Function 3 16:25-18:15 S3-1 Donna D ZHANG S3-2 Youngtae JEONG S3-3 John D. HAYES S3-4 Nobunao WAKABAYASHI S3-5 Tetsuro ISHII		Excursion Tour "Towards Building the Future of Healthcare" 16:00-	
17:00				
18:00		Round-Table Discussion @ ToMMo atrium 18:15-		
19:00	Welcome Reception @Cafeteria 18:30-			

Public Lecture: Space & Health

Information

During space flight, astronauts are subjected to extreme conditions, including microgravity and cosmic radiation, which disturb the homeostasis of physiological systems within the human body. To investigate the impacts of space flight on animal health, experiments involving space mice have been conducted using the International Space Station (ISS). However, the successful live return of mice from space, or even achieving their “space travel”, has been challenging. To overcome this hurdle, the Japan Aerospace Exploration Agency (JAXA) recently established comprehensive mouse experimental system for space flight. The first missions employing this system, named Mouse Habitat Unit-1 (MHU-1), successfully launched twelve wild-type male mice, all of which returned safely to Earth after approximately a one-month stay on the ISS. One salient discovery in these missions is that ageing phenotypes, including reduced bone density and muscle mass, were significantly accelerated during space flight. Furthermore, the MHU-3 project unveiled how the deletion of *Nrf2*, a primary regulator of stress defense pathways, affects the health of mice staying on the ISS. The speakers will discuss future space research utilizing murine gene knockout-disease models and will provide insights to mitigate space-induced stresses that limit the further exploration of space by humans.



Venue School of Medicine Centennial Hall (Seiryō Auditorium), Seiryō Campus, Tohoku University
Kato-Kosaka Hall, Sendai Astronomical Observatory

Facilitator Norihiko Kato
JAXA crew member on board the International Space Station (ISS) for Expedition 54/55

Panelists
Masayuki Yamamoto (Tohoku University) Principal investigator of MHU-3 Project
Satoru Takahashi (University of Tsukuba) Principal investigator of MHU-1 Project
Dai Shino (JAXA) Deputy Director for Robot Research
Maki Okada (JAXA) Joint coordinator of MHU missions

Program
13:00.....Door Open
13:30-13:40.....Opening, Introduction Panelists and Facilitator
13:40-14:20.....Lecture, Introduction of the latest space research from each Panelist
14:20-14:40.....Discussion
14:40-15:00.....Q & A
15:00.....Closing

*** Request to participants ***
- Audio and video recording of lectures is prohibited.
- Anyone with a fever of 37.5°C or higher cannot enter.

*** Important request for cooperation ***
Please take a few minutes to fill out this survey during this lecture.
URL: <https://questant.jp/q/ta23022202>

After the Lecture, please tell us and that you answered the survey at the registration desk. We will give you a small gift "Space Year Diary" for appreciation. Thank you for your kind cooperation!
*Please not fill form too early and please be available from Nov 5 & 6, please fill out this survey on Nov 6.

Tohoku Forum for Creativity www.tfc.tohoku.ac.jp

Date

Nov 5 (Sun) 13:30 - 15:00

Venue

Kato-Kosaka Hall, Sendai Astronomical Observatory

School of Medicine Centennial Hall (Seiryō Auditorium), Seiryō Campus, Tohoku University

Facilitator

Norishige Kanai (JAXA)

Panelists

Maki Okada (JAXA)

Dai Shiba (JAXA)

Satoru Takahashi (University of Tsukuba)

Masayuki Yamamoto (Tohoku University)

Program

13:00	Door Open
13:30-13:40	Opening: Introduce Panelists and Facilitator
13:40-14:20	Lecture: Introduction of the latest space research from each Panelists
14:20-14:40	Discussion
14:40-15:00	Q & A
15:00	Closing

Request to participants

- Audio and video recording of lectures is prohibited.
- Anyone with a fever of 37.5c or higher cannot enter.
- Please take a few minutes to fill out the survey during this lecture.

Important request for cooperation

Please take a few minutes to fill out this survey during this lecture.

URL: <https://questant.jp/q/jta23022202>



Excursion Tour on Nov 5 and 6

“Towards Building the Future of Healthcare”

The Tohoku Medical Megabank Organization (ToMMo) was established to overcome unprecedented damages that occurred due to the Great East Japan Earthquake and tsunami on March 11, 2011. The mission of ToMMo is to contribute to the recovery of tsunami-affected areas through reconstructing medical system and to build the foundations for next-generation medicine.

ToMMo has been developing five-year plans, which consist of the first, second, and third phase operations. It has now been over 10 years since its establishment in 2012, and we are now implementing the third phase.

In the first phase, we have worked on cohort recruitment extensively. Since 2013, we have established two cohorts strategically, one is the Community-Based Cohort that targeting general residents in Miyagi and Iwate prefectures, while the other is the Birth and Three-Generation Cohort that targeted pregnant women and their families. The former cohort has been established in collaboration with Iwate Medical University. Combining these two cohorts, we have been recruited a total of 157,000 people. We would like to express our sincere gratitude to the people of Miyagi and Iwate prefectures who participated in this project.

In the second phase, we tried to create a large-scale and modern biobank that allowed us to securely store biological samples and information that have been entrusted to us. Furthermore, we are also conducting whole genome sequence and multi-omics analyses on these samples to develop integrated biobank, which share large scale information along with biological samples.

In the third phase, we have started strengthening the industry-academia collaboration system through allowing many researchers to be able to use the samples and information stored in our biobank. We are working on the establishment of efficient follow-up methods of our participants. We are also examining the health status of the participants and mid- to long-term effects of earthquakes and tsunami to the health of our participants. As one of the biggest population based biobanks in Japan, we wish to make positive contributions to the establishment of modern biobank in Japan.

ToMMo is striving to establish a next-generation medical system, focusing on personalized healthcare and medicine through integrating the results of cohort studies, biobank projects, and genomic-omics analyses. Our staff is determined to work together in order to create a future medicine in which each individual can choose suitable medical treatment and prevention approach that is backed up with strong lines of scientific evidence.

Masayuki Yamamoto
Executive Director, Tohoku Medical Megabank Organization (ToMMo)

Itinerary

Nov. 5 (Sun)

- 16:00 Meet at 1F, Tohoku University Seiryō Auditorium (after Special Session “Space & Health”)
- 16:15 Depart from Tohoku University Seiryō Auditorium to Matsushima (45min by bus)
- 17:00-17:45 Sightseeing: Zuiganji-temple (evening lighting)
- 18:00 Arrive and stay at Hotel Matsushima TAIKANSO

Nov. 6 (Mon)

- 9:00 Depart from Hotel (60min by bus)
- 10:00-11:00 Sightseeing: Earthquake remains Ishinomaki City Okawa Elementary School Ruins
- 11:00 Depart from Ishinomaki to Matsushima (60min by bus)
- 12:00-13:00 Lunch at Matsushima
- 13:00-14:00 Free time (Sightseeing: Entsuin-temple with beautiful autumn colors)
- 14:00 Depart from Matsushima to Tagajo (30min by bus)
- 14:30-15:00 Technical visit: ToMMo Tagajo Community support Center
- Depart from Tagajo to Sendai (30min by bus)
- 15:30 Arrive at Sendai Station



Japan. Meetings & Events
New ideas start here