



Ministry of Education, Culture, Sports, Science and Technology  
Grants-in-Aid for Scientific Research  
Grant-in-Aid for Scientific Transformational Research (A)  
Cell type census of adaptive neuronal circuits: biological  
mechanisms of structural and functional organization  
(Adaptive Circuit Census, ACC)  
(2021~2025)

## ACC International Symposium 2023

**Date: February 21 (Tue) and 22 (Wed) 2023**

Venue: RIKEN Suzuki Umetaro Memorial Hall

(1F Bioscience Building, RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198 Japan )

<https://ithems.riken.jp/ja/access/suzuki-umetaro-hall>

**ACC office (at Tokyo Medical and Dental University)**

URL: <https://ac-census.org/>

TEL: 03-5803-5156      FAX: 03-5803-0118 (Ms. Soai) • (Ms. Hira)

E-mail: [acc-jimu.phy2@tmd.ac.jp](mailto:acc-jimu.phy2@tmd.ac.jp)

Phone (only on 21<sup>st</sup> and 22<sup>nd</sup>) :080-1907-4698(ACC office)

## Program

Day1 Feb 21 (Tue)

12:00~ <posting posters>

13:30~13:40 Welcome from **Dr. Isomura**

13:40~15:00 **Nenad Sestan** (Yale University School of Medicine. USA)

(Plenary talk )

(Chair: Tomomi Shimogori, RIKEN CBS)

“What makes us human? Development and evolution of prefrontal circuits underlying Cognitive Control”

15:00~15:15 <break>

(Session Chair: Ai Nakashima, Tokyo Univ. )

15:15~15:45 **Yasuhiro Go** (ExCELLS, NINS)

“Single-cell brain transcriptome analysis in autism model primates”

15:45~16:15 **Hiromu Tanimoto** (Grad Sch Life Sci, Tohoku Univ)

“Translational regulation enhances cell-type distinctions in the nervous system”

16:15~16:45 **Takeo Horie** (FBS, Osaka Univ)

“Regulatory cocktail for dopaminergic neurons in ascidian identified by single cell transcriptomics”

16:45~17:00 <break>

(Session Chair: Hideaki Shimazaki, Kyoto Univ.)

17:00~17:30 **Hideaki Takeuchi** (Graduate School of Life Sciences, Tohoku University)

“Exploring the neural geography of the fish social brain”

17:30~18:00 **Takayasu Mikuni** (Brain Res Inst, Niigata Univ)

“Large-scale imaging of synaptic activity and molecular dynamics in single neurons”

18:00~18:30 **Tomomi Shimogori** (RIKEN CBS)

“Thalamocortical control of cell type specificity drives a circuit for processing whisker-related information in mouse barrel cortex”

19:00 Academic exchange

Day2 Feb 22 (Wed)

(Session Chair: Fumino Fujiyama, Hokkaido Univ.)

9:00~9:10 Welcome from **Dr. Fujiyama** (Grad Med, Hokkaido Univ)

9:10~9:40 **Yimin Zou** (UCSD. USA)

“Assembly and maintenance of glutamatergic synapses”

9:40~10:10 **James Bourne** (NIH. USA)

“Role of pulvinocortical circuits in development”

10:10~10:40 **Jens Hjerling-Leffler** (Karolinska. Sweden)

“Transcriptional maintenance of cortical somatostatin interneuron subtype identity during migration”

10:40~11:00 <break>

(Session Chair: Kazuto Kobayashi, Fukushima Med Univ.)

11:00~11:30 **Takuya Sasaki** (Tohoku University)

“Combination of transcriptomic and electrophysiological analysis reveals hippocampal memory-related stress responses”

11:30~12:00 **Yoshikazu Isomura** (Tokyo Med Dent Univ)

“Adaptive circuit dynamics for operant learning of optimal behavior”

12:00~13:30 <lunch> Bring your own or lunch box (reservation required)

2<sup>nd</sup> floor or 3<sup>rd</sup> floor (eating and drinking is prohibited in Umetaro Hall)

13:30~15:30 Poster session (onsite only; at least 1 poster from 1 team)

15:30~ Closing remarks by **Dr. Isomura**

## Information

Method (Hybrid: Registration required)

Registration required

<https://forms.gle/1pd4NVw25mfBJwe76>

### Registration and Venue

**Tuesday, February 21, 12:00–13:30, RIKEN Umetaro Memorial Hall**

**\*Please complete the entry procedures at the West Gate Guard Station and proceed to the "Umetaro Memorial Hall."**

A temporary entrance permit will be required when entering RIKEN. (Please carry this permit when entering and leaving the venue.)

Please inform the security guard at the West Gate that you are attending the ACC International Symposium and state your affiliation and name. After completing the entry procedures at the West Gate Security Guard, you will be asked to register for the symposium at the Umetaro Memorial Hall.

The "Temporary Entrance Permit" is valid only for the day of the symposium, so please be sure to return it to the guard station when you leave the venue.

On the second day, as on the first day, when you arrive, please check in at the West Gate Guard Station and receive a Temporary Entrance Permit.

Please present your name badge to the security guard on the second day of the symposium and receive a temporary entry permit.

**Wi-Fi access** : Connect to "RIKEN Guest" and enter your email address. You will receive email to register.

### Zoom Link

<https://riken-jp.zoom.us/j/95952283537?pwd=VnpOZHJqNFVaM2FjcVgrZEdTN1JWQT09>

ID: 959 5228 3537 PC: 23D39RfsRy

**Name Tag** : Please wear your nametag during participation for academic exchange.

**Participation fee** :: Free of charge

### External Participant

Overseas speakers :

Dr. Nenad Sestan (Yale Univ)

Dr. Yimin Zou (UCSD)

Dr. James Bourne (NIH)

Dr. Jens Hjerling-Leffler (Karolinska)  
Research Officer of MEXT: Yo Shinoda (Tokyo Univ of Pharm and Life Sci)  
External evaluation committees: Masahiko Watanabe (Hokkaido Univ), Masanobu Kano (Tokyo Univ), Noriyuki Sato (OIST)

## **Poster Presentation**

On-site only. Both the Keikaku-han group and Kobo-han teams must have at least one person from each team for the on-site presentation.

• Posters should be put up on the first day of the event (13:00–13:30 on the 21st) or the second day (before 13:30 on the 22nd).

If you are concerned about security, please post your poster on the second day. You may also drop off your poster at the office after the first day. Please let us know if you wish to do so.

• Please remove your poster by yourself at the end of the event at 16:00 on the 22nd and be sure to take them home.

• The number, name, affiliation, and title of all posters are listed on a separate page.

## **Poster Instructions**

Please prepare your poster according to the poster panel specification below.

Poster panel usable area: 160 cm (height) X 115 cm (width)

The title, affiliation, and author(s) should be written both in English and Japanese at the top of the poster.

All contents (figures and explanations) should be written in English.

Please attach your poster by yourself within the posting time.

The presentation number is provided on the panel in advance.

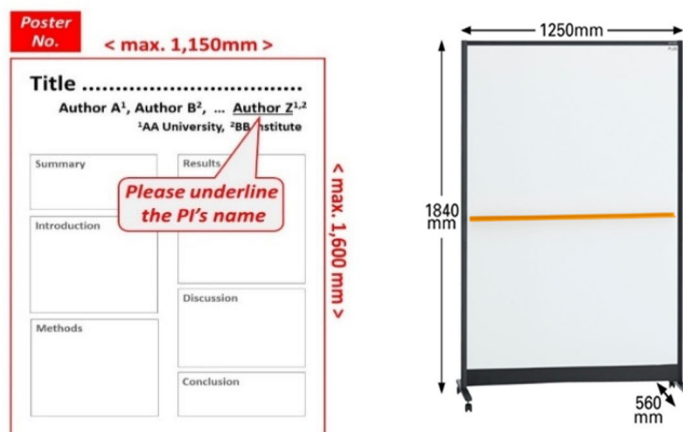
Please remove your poster by yourself during the removal time (16:00 on 22nd).

Magnets are provided on each panel for attaching the poster. No glue or cellophane tape may be used.

During the presentation/discussion time, please stand in front of your poster as much as possible.

If your poster is left after the removal time, it will be removed and disposed of by the secretariat. They will not be returned.

Please note that the organizers and the secretariat cannot be held responsible for lost or stolen posters.



#### Lunch notice

The cafeteria at RIKEN Wako will be closed on both days, boxed lunches will be available for lunch on Wednesday, the 22nd (reservations required and due by 2/10). (Reservations are required and due by 2/10.) The cost will be a flat rate of 550 yen.

You may also bring your own lunch.

Those who have ordered a boxed lunch should pay 550 yen in cash at the Umetaro Memorial Hall on February 21. You will receive a meal ticket, which you can exchange for your lunch at noon on February 22.

During the closure period, lunch boxes and snacks will be available for purchase at the Hirozawa Club Store and Tully's Coffee on the day of the event, but we anticipate that the number of items will be limited. Cash and IC cards are accepted here.

We apologize for the inconvenience and thank you in advance for your cooperation.

We ask for your cooperation in separating garbage.

#### Contact information

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**Adaptive Circuit Census (ACC) Office**

URL: <https://ac-census.org/>

TEL 03-5803-5156 (Soai),(Hira) FAX 03-5803-0118

E-mail: acc-jimu.phy2@tmd.ac.jp

**Official cell phone only on the day of the event: 080-1907-4698**

## Countermeasures against new coronavirus infection

### Basic Policy

The conference aims to provide a safe and comfortable environment for all participants. We ask all visitors to the local venue (Saitama Prefecture) to follow the guidelines of RIKEN and Tokyo Medical and Dental University, and to cooperate with us in taking measures to prevent COVID-19 infection.

### Request to Participants

< Please cooperate with vaccination and testing >

We recommend that participants be vaccinated at least three times. For those who have not yet been vaccinated, please cooperate in presenting PCR test results within 72 hours (optional).

We ask for your cooperation in taking your temperature at the reception desk and during participation, and using the antigen test kit (optional).

< Please refrain from coming to the event if you are not feeling well >.

If you are not feeling well on the day of the conference, please refrain from participating and contact us to cancel your participation.

Please be sure to wear a mask at the conference venue to prevent infection. We may ask you to leave the venue if you are not wearing a mask properly. Please understand that you may be asked to leave the venue if you are not wearing a mask.

Antigen test kits are available at the reception desk. Please ask the receptionist if you need one.

Alcohol for sterilization is available at the entrance of the conference room. Please use it frequently when entering and leaving the venue.

Please leave appropriate space for seating in order to maintain social distance.

Please refrain from talking during the meal.

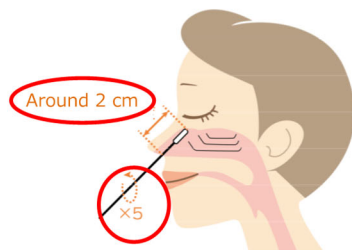
If you suspect that you have a positive test result, please avoid contact with others as much as possible and seek medical attention as soon as possible.

## How to use the coronavirus antigen test kit (takes about 30 minutes)

### How to extract the sample for Espline SARS-CoV2 Ag

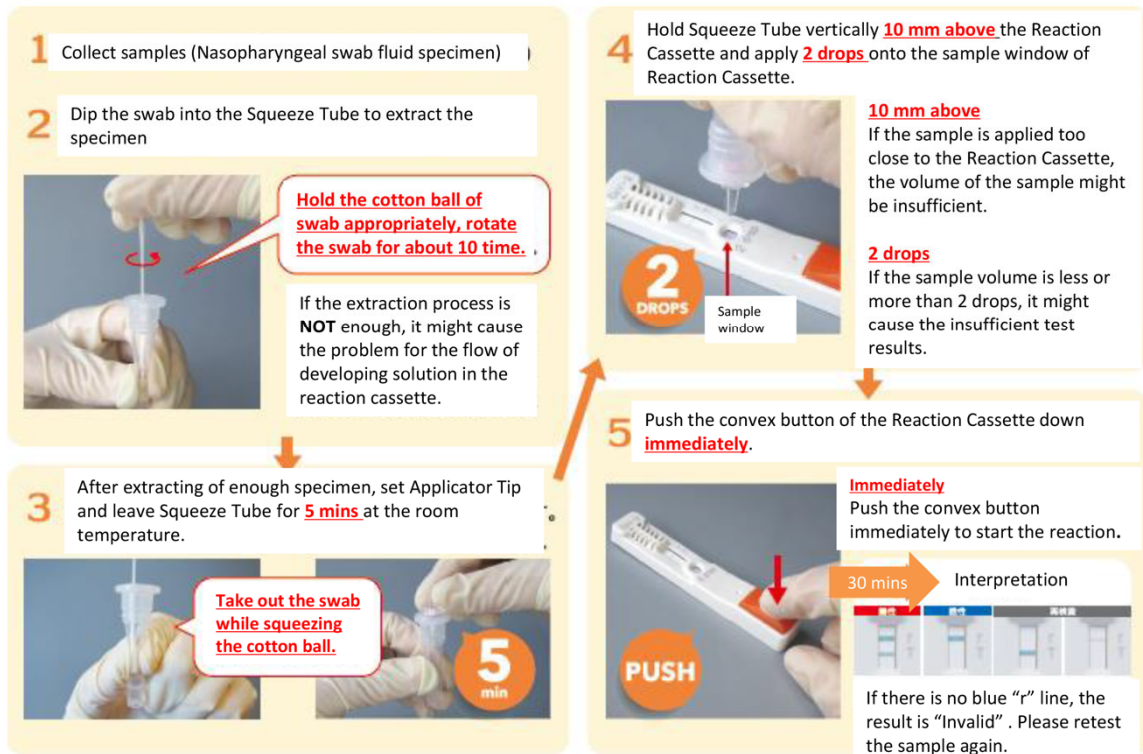
#### [Sampling of Nasal swab]

1. Insert swab into around 2 cm from the nostril slowly.
2. Rotate swab 5 times slowly.
3. Leave swab for 5 seconds to make the swab wet and pull out the swab.










**Precautions and key points for operation are written in red.**



## ESPLINE SARS CoV-2 operation



Examples of Interpretation	Phenomenon	Possible cause	Key points for operation
	Vertical lines appeared.	The samples might be applied too close to the Reaction Cassette The dropped sample volume might be insufficient.	Please hold Squeeze Tube vertically <b>10 mm above</b> the Reaction Cassette and apply <b>2 drops</b> onto the sample window of Reaction Cassette.
		The specimen might be in high viscosity. The extraction process might be not good.	Please extract the specimen sufficiently. <b>Hold the cotton ball of swab appropriately and rotate the swab for about 10 time.</b>
	No Reference Line appeared.	The applied sample volume might be more than 2 drops.	Please apply <b>2 drops</b> onto the sample window of Reaction Cassette.
		Pushing the convex button of the Reaction Cassette immediately might be done.	Please push the convex button of the Reaction Cassette down <b>immediately</b> after applying 2 drops.
	Difficult to interpret Positive or Negative	The level of antigen in a sample might be too low. The blue line was not appeared clearly.	Please retest again.
		The specimen might be in high viscosity. In case the sample is in high viscosity, the applied sample might be stayed in the sample window and the antigen-antibody reactions might not occur correctly.	Please extract the specimen sufficiently. <b>Hold the cotton ball of swab appropriately and rotate the swab for about 10 time.</b>
	Interpretation Window colored in blue	The specimen might be in high viscosity / The testing might be done under high humidity.	<b>Hold the cotton ball of swab appropriately and rotate the swab for about 10 time.</b> / Avoid to testing under high humidity (Please test it in the air conditioner worked room).
	Applicator Tip came off	The internal pressure of Applicator Tip might be risen. In case the sample with high viscosity and the foreign matter is in the Squeeze Tube were applied to the Reaction Cassette, the Applicator Tip might come off and the samples in Squeeze Tube might be splattered.	Please do not push the Squeeze Tube forcefully if the sample don't come out from the Squeeze Tube when 2 drops are applied onto the sample window of Reaction Cassette.

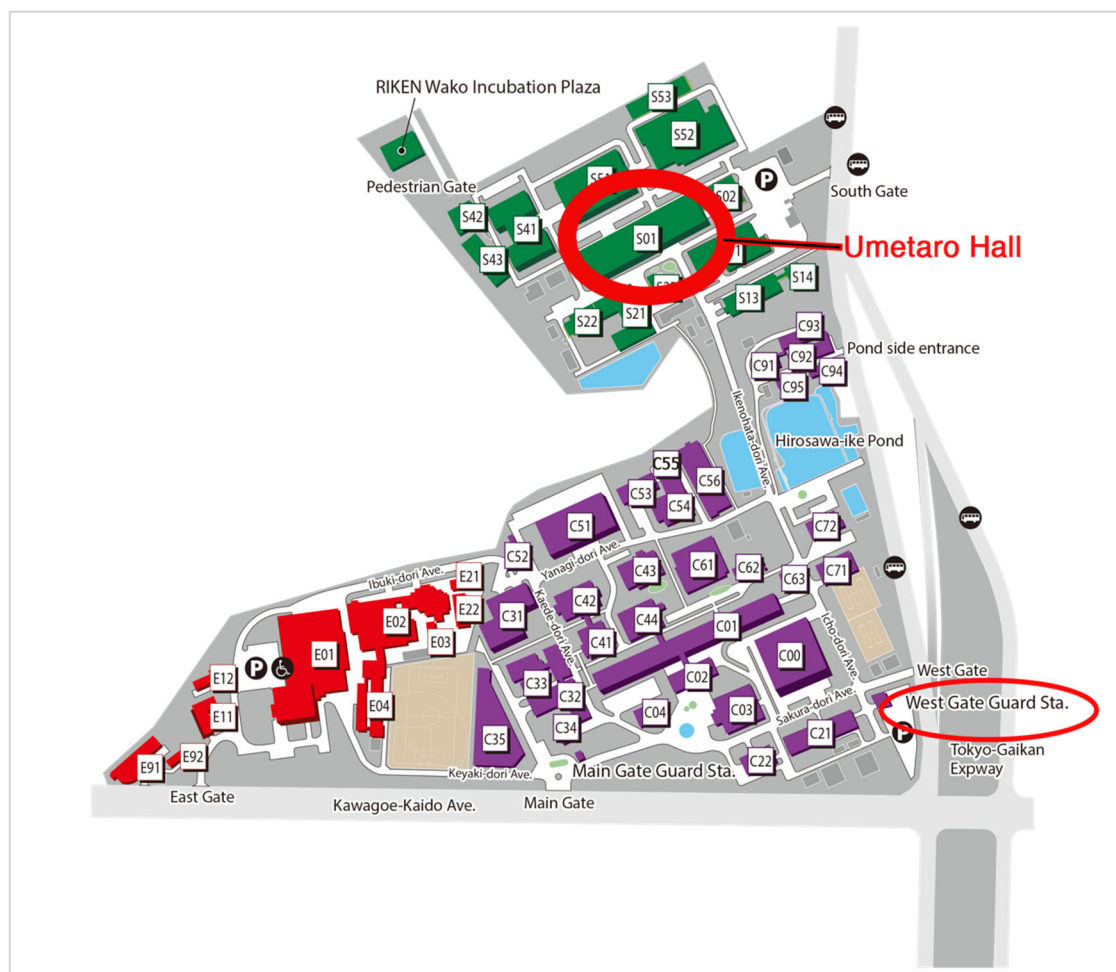
## Access to RIKEN Umetaro Suzuki Memorial Hall

[https://www.riken.jp/en/access/wako-map/#campus\\_map](https://www.riken.jp/en/access/wako-map/#campus_map)



## RIKEN Wako Campus Information

2-1, Hirosawa, Wako, Saitama 351-0198, Japan  
Tel: +81-(0)48-462-1111 (Switchboard Number)



### Central Area

C00 Administrative Headquarters	C51 Brain Science Central Bldg.
C01 Main Research Bldg.	C52 Brain Science Prefab Bldg. II
C02 Energy Center	C53 Frontier Life Science Research Facilities
C03 Office Annex	C54 Brain Science West Bldg.
C04 RIKEN Gallery	C55 Brain Science West Research Bldg. Annex Research Facility
C21 Engineering Bldg.	C56 Brain Science Ikenohata Research Bldg.
C22 Office Annex 2	C61 Welfare and Conference Bldg.
C31 Brain Science East Bldg.	C62 Club House-Café
C32 Laser Science Laboratory / Okochi Hall	C63 Occupational Health Center
C33 Laser Science Laboratory Strage	C71 Technology Transfer Bldg.
C34 Brain Science Prefab Bldg. I	C72 Hirosawa Club
C35 Brain Science Neural Circuit Genetics Research Bldg.	C91 International House (G)
C41 Frontier Research Laboratory	C92 International House (A)
C42 Frontier Material Research Laboratory	C93 International House (E)
C43 Information Science Bldg.	C94 International House (C)
C44 Library / Archives	C95 RIKEN Kids Wako

### South Area

S01 Bioscience Bldg. / Suzuki Umetaro Hall	S41 Cooperation Center
S02 Chemical Biology Bldg.	S42 Cooperation Center South Bldg.
S11 Instrumentation Center	S43 Cooperation Center East Bldg.
S13 Sustainable Resource Science Bldg.	S51 Chemistry and Materials Physics Bldg.
S14 Sustainable Resource Science Bldg. Annex	S52 Nanoscience Joint Laboratory
S21 RI Center	S53 Emergent Matter Research Facilities
S22 Neutron Applicatin Facilities	
S23 South Area Cogeneration Facility	

### East Area

E01 Nishina RIBF Bldg.	E21 Nishina Prefab Bldg. II
E02 Nishina Bldg. / Nishina Hall	E22 CNS The University of Tokyo
E03 Nishina Prefab Bldg. I	E91 International House (H)
E04 Nishina LINAC Laboratory	E92 International House (F)
E11 Nishina R&D Bldg.	
E12 Nishina Lodge	

P Parking A Accessible Parking Bus Stop  
S Shop C Cafeteria Coffee Shop AED

	2023年2月21日（火）		2023年2月22日（水）	
8:00				
8:30				
9:00			9:00-9:10	Welcome from Dr. Fujiyama
9:30			9:10-9:40	Yimin Zou (HFSP talk 30 min)
10:00			9:40-10:10	James Bourne (HFSP talk 30 min)
10:30			10:10-10:40	Jens Hjerling-Leffler (HFSP talk 30 min)
11:00			10:40-11:00	<break>
11:30			11:00-11:30	Takuya Sasaki (30min)
12:00	12:00-	受付・ポスター貼り<posting posters>	11:30-12:00	Yoshikazu Isomura (30min)
12:30			12:00-13:30	<lunch>
13:00				
13:30	13:30-13:40	Welcome from Dr. Isomura		ポスター貼り<posting posters>
14:00	13:40-15:00	Nenad Sestan (Plenary talk 80min)	13:30-15:30	ポスター発表 Poster session (onsite only; at least 1 poster from 1 team)
14:30				
15:00	15:00-15:15	<break>		
15:30	15:15 - 15:45	Yasuhiro Go (30 min)		
16:00	15:45-16:15	Hiromu Tanimoto (30 min)	15:30-16:00	Closing remarks by Dr. Isomura
16:30	16:15 - 16:45	Takeo Horie (30min)		
17:00	16:45-17:00	<break>		
17:30	17:00-17:30	Hideaki Takeuchi (30min)		
18:00	17:30-18:00	Takayasu Mikuni (30min)		
18:30	18:00-18:30	Tomomi Shimogori (30min)		
19:00	19:00 - 21:00	Academic Exchange(TBA)		
19:30				
21:00				