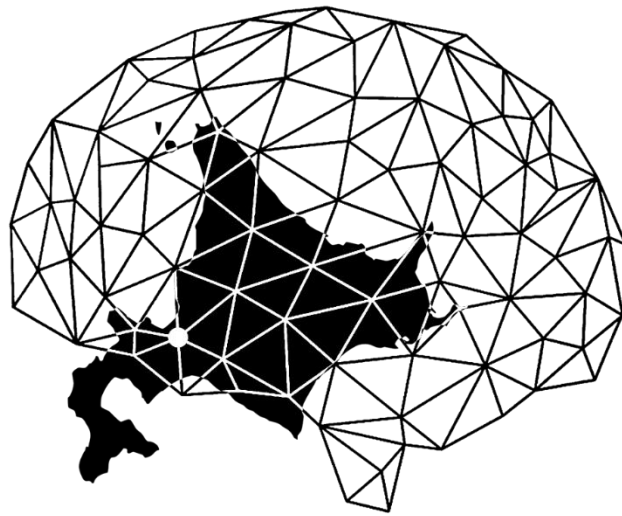


# Program

## In-material Computing Workshop for Young Researchers



November 14th, 2023

Hokkaido Jichiro Kaikan 4F

Sapporo, Japan

Co-organized by JSPS Core-to-Core Program  
"Material Intelligence",  
JST-CREST "Neuromorphic molecular network system"



**JSPS**



**Japan Science and  
Technology Agency**

# Program

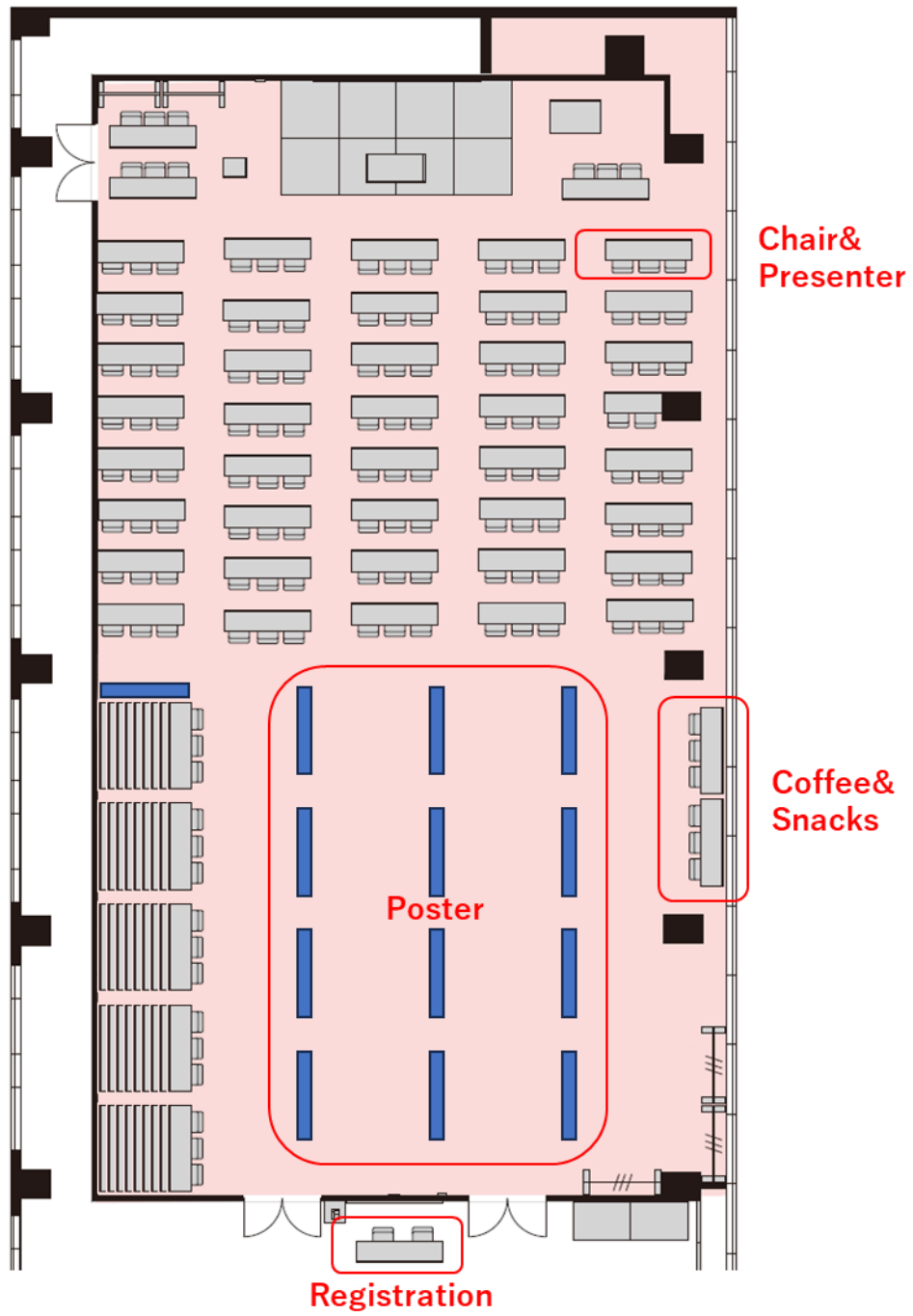
## Morning sessions

Time(UTC+9)	Event	Chair
9:00	Registration open	
9:30–9:35	Opening Remark Takuya Matsumoto (Osaka Univ.)	
9:35–9:40	Explanation about session contents Seiya Watanabe (Osaka Univ.)	
9:40–9:50	Shotgun Presentation–1 (O–1) Kaito Adachihara (YNU)	Seiya Watanabe (Osaka Univ.)
9:50–10:00	Shotgun Presentation–2 (O–2) Masahiro Nakayama (Osaka Univ.)	
10:00–10:20	Poster Session–1 (Commenting)	Yuki Usami (Kyutech)
10:20–11:20	Poster Session–1 (Discussion)	
11:20–11:50	Entire Discussion–1	Yuki Usami (Kyutech), Seiya Watanabe (Osaka Univ.)
11:50–13:00	Lunch Break	

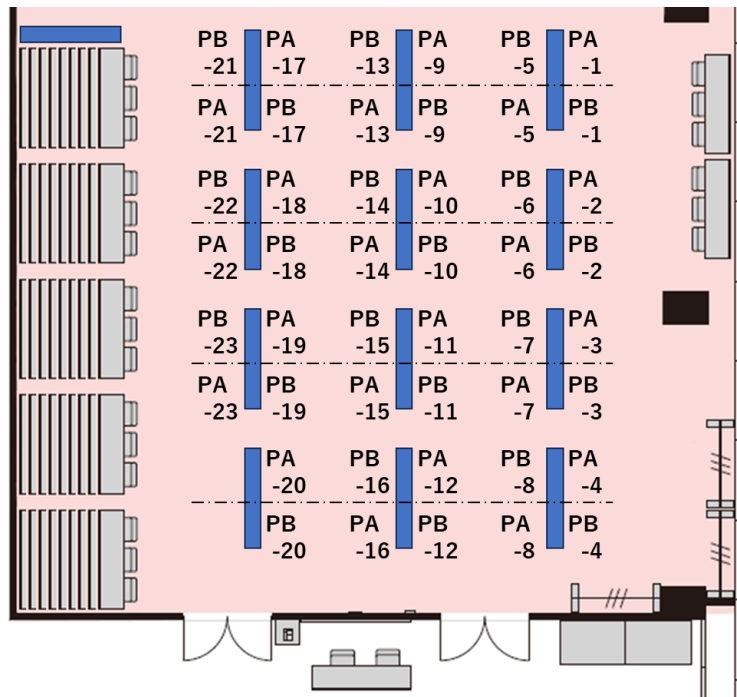
## Afternoon sessions

Time(UTC+9)	Event	Chair
13:00–13:10	Shotgun Presentation–3 (O–3) Deep Banerjee (Kyutech)	Yuki Usami (Kyutech)
13:10–13:20	Shotgun Presentation–4 (O–4) Shaohua Kan (Hokkaido Univ.)	
13:20–13:40	Poster Session–2 (Commenting)	
13:40–14:40	Poster Session–2 (Discussion)	
14:40–15:10	Entire Discussion–2	Deep Banerjee (Kyutech), Shaohua Kan (Hokkaido Univ.)
15:10–15:40	Break & Poster Voting	
15:40–15:50	Explanation about group discussion Yuki Usami (Kyutech)	
15:50–16:50	Group Discussion	Yuya Ishizaki (Rikkyo Univ.)
16:50–17:20	Presentation	
17:20–17:35	Poster Award Ceremony, Closing Remark Takuya Matsumoto (Osaka Univ.)	
17:35–17:45	Photo Session	
17:45–19:00	Break & Travel time	
19:00–21:00	Information Exchange Meeting	

# Layout drawing



## Poster location



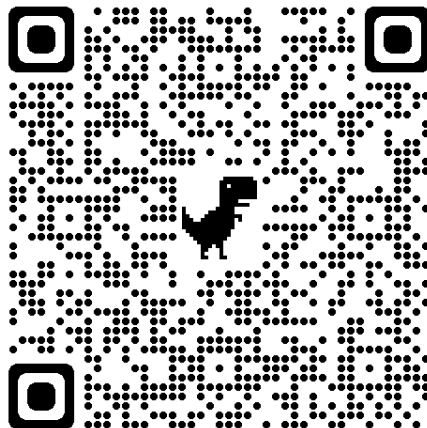
## Poster Voting

Please pick up 2 posters for award.

Poster Voting URL:

<https://forms.gle/Tdr5U7REpUx1HyKG7>

QR code is below.



## Group Discussion

Aim: Consider collaboration research in each group to solve current challenging of in-material computing

### Groups

1	Takahide Oya (YNU)	5	Kaiki Yoshimura (Waseda Univ.)
	Ryosho Nakane (Univ. of Tokyo)		Ryodai Toyomasu (YNU)
	Deep Banerjee (Kyutech)		Riku Takagi (Waseda Univ.)
	Muzhen Xu (Kyutech)		Shimizu Shunsuke (Osaka Univ.)
	Desu Mouluka (Kyutech)		Mizuiho Muroyama (Osaka Univ.)
	Shaohua Kan (Hokkaido Univ.)		Masaya Hakoshima (Kyutech)
2	Dong Han (Osaka Univ.)	6	Masaru Hayakawa (Waseda Univ.)
	Taikai Matsuda (Rikkyo Univ.)		Naoki Hara (Rikkyo Univ.)
	Alif Syafiq Bin Kamarol Zaman (Kyutech)		Shuntaro Kubo (YNU)
	Keita Tomatsuri (Waseda Univ.)		Mahiro Shimada (Rikkyo Univ.)
	Soichiro Yamakawa (Hokkaido Univ.)		Hodaka Higuchi (Osaka Univ.)
	Suguru Kimoto (Osaka Univ.)		Kouki Kimizuka (Kyutech)
3	Yuta Nishimura (Osaka Univ.)	7	Taiga Hirota (Osaka Univ.)
	Ryosuke Nakajima (Osaka Univ.)		Shoto Suzuki (Rikkyo Univ.)
	Motoaki Onishi (Rikkyo Univ.)		Yusuke Nakaoka (Kyutech)
	Dang Thien Tan (Kyutech)		Yusuke Murase (Waseda Univ.)
	Yudai Kamekawa (YNU)		Yoshihisa Wakamatsu (Osaka Univ.)
	Ahmet Karacali (Kyutech)		Kaito Adachihara (YNU)
4	Atsuhiko Mizuno (Waseda Univ.)	8	Risa Gobara (Waseda Univ.)
	Masato Yamabe (YNU)		Kotaro Morimoto (Rikkyo Univ.)
	Hiroki Tabata (Kyutech)		Yuki Shimamoto (YNU)
	Risa Matsuo (Waseda Univ.)		Yuki Ohno (Waseda Univ.)
	Aoto Sasaki (Osaka Univ.)		Yuto Koga (Kyutech)
	Masahiro Nakayama (Osaka Univ.)		Tomoki Misaka (Osaka Univ.)

\*Professors will be added in group accordingly.

## Topics

- Material design for in-material computing
  - Processing speed
  - Reproducible performance
  - Environmental stability
  - Optimization of performance
  - Implementation to edge system
  - Optimal Application by in-material computing device
  - Non-von Neumann computing
  - Emerging computing
- etc...

## Group Discussion Location



## Location of Information Exchange meeting

Name of a store: Kirin Beer Garden Hokkaido Urban Branch

Address: Hokkaido, Sapporo, Chuo Ward, Minami 3 Jonishi, 4 Chome-8-2 Urban sapporo building 7th floor

Access: Sapporo Susukino Subway Nanboku Line “Susukino Station” 2-minute walk

Map



More detail... <https://www.kirinbeer-en.co.jp/access>