第 4 回ナノ生物流体研究会

The fourth colloquium of nanobiofluids
The third Tamaoka conference
Date: October 27-28, 2026



開催地：国民宿舎 レインボー桜島 桜島マグマ温泉
(〒891-1419　鹿児島県鹿児島市桜島横山町 1722-16, Tel: 099-293-2323)
Venue: Kokumin Shukusha Rainbow Sakurajima
(1722-16 Sakurajima Yokoyamacho, Kagoshima-shi, Kagoshima, 891-1419, Japan)

Organizer: Hirofumi Shintaku, Institute of Life and Medical Sciences, Kyoto University
Admin Office: Minako Chaya (chaya.minako.2x@kyoto-u.ac.jp)

Registration (Link to a form)
Pictures from the third colloquium of nanobiofluids

Program

Day 1 Oct. 27th

12:35-13:00 Lunch, Arrival at venue, check-in
13:30 Opening Hirofumi Shintaku (LiMe, Kyoto University)

Mechanobiology (Main chair: Keito Asada, Co-chair: Jin Kitamura)
13:50-14:30 Charles Baroud (Ecole Polytechnique and Institut Pasteur)
"Acquiring a holistic view of biological behaviors through many cell-cell interaction measurements"
14:30-15:00 Mahmoud Nady Abdelmoez (Assiut University)
"From Force to Fate: ATTrACT Probes the Coupling Between Traction Energy and Transcriptomics"
15:00-15:30 Kotaro Hiramatsu (Kyushu University)
"Interdisciplinary bioimaging"

15:30-16:00 Group photo & Coffee Break

Cancer (Main chair: Asuka Hanagata , Co-chair: Junichi Murai)
16:00-16:40 (University of Toledo)
"Cell Death Analysis in Real-Time using Label-Free Microscopy"
16:40-17:20 Yusuke Arima (Kyushu University)
"Analysis and control of cell-materials and cell-cell interface"
17:20-17:45 Misa Minegishi (LiMe, Kyoto University)
"Dynamical cell-cell interaction"

17:45-17:55 Coffee break & Poster preparation

18:10-19:30 Poster presentation by students

19:30-21:00 Group Discussion over Dinner

21:00- Bathing, free time, sleeping

Day 2 Oct. 28th

7:30-8:20 Breakfast and checkout preparation

DNA technology (Main chair: Hajime Yamamukai, Co-chair: Keiji Nozaki)
8:30-8:55 Joel Spratt (KTH Royal institute of Technology)
"Applications in Spatial Biology - Mapping Biological Molecules in Their Native Context"

8:55-9:20 Taikopaul Kaneko (LiMe, Kyoto University)

"Proximity-seq: Reconstructing Spatial Transcriptomes through Matching of Image- and Sequencing-Derived Proximity Network"

9:20-9:30 Break

Molecular biology (Chaired by Taiyo Yasaki , Co-chair: Junichi Murai)
9:30-9:55 Maryam Amini (IMN, Saarland University)
"Establishing new in vitro models of the eye surface: dry eye disease and cornea-on-chip"

9:55-10:20 Akifumi Shiomi (LiMe, Kyoto University)
"ELASTomics and DEFORMICS: Linking cell mechanics to gene regulation"

10:20-10:30 Closing Hirofumi Shintaku

Volcano (Chaired by Hirofumi Shintaku)
11:00-11:50 Research Center for Volcano Hazards Mitigation tour (max 20 people)

Remaining 6 people > Cycling around Sakurajima Island (4 hours)

End of the colloquium

Excursion (more detail)
12:00-13:00 Lunch
13:00–15:00 Cycling

Ferry departure at Sakurajima ferry terminal
15:05 or 15:25 (arriving at the airport around 16:50) ←recommended for 17:40 flight15:25 or 15:45 (arriving at the airport around 17:20) ←recommended for 18:05 flight
↓
Kagoshima Port
Note: There are several ways:
take a bus/train at Kagoshima port
to 天文館(Tenmonkan) or 鹿児島中央駅(Kagoshima Chuo Station)
then take a bus to the airport
※Every way takes roughly 75 min
↓
Kagoshima Airport to Itami Airport
☆17:40-18:55: (ANA 550)
☆18:05-19:15: (JAL 2412)

Visit Research Center for Volcano Hazards Mitigation

List of Attendees

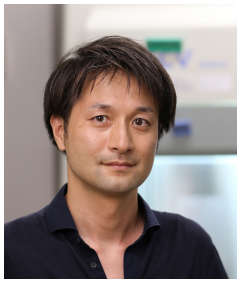
Invited speakers (8):



Charles Baroud
Ecole Polytechnique and Institute Pasteur
France



Aniruddha Ray
The University of Toledo
USA



Yusuke Arima
Kyushu University
Japan



Kotaro Hiramatsu
Kyushu University
Japan



Haruhisa Nakamichi
Kyoto University
Japan



Joel Spratt
KTH Royal Institute of Technology
Sweden



Mahmoud Nady Abdelmoez Atta
Assiut University
Egypt



Maryam Amini
Leibniz Institute for New Materials
Germany

Guests (2):



Mr. Takeshi Tamaoka



Emeritus Prof. Hidetoshi Kotera
Kyoto University

Kyoto LiMe Staff (6):

Hirofumi Shintaku (part2)
Akifumi Shiomi (Neither, visit to Nagasaki Univ.)
Taikopaul Kaneko (part2)
Misa Minegishi (part2)
Minako Chaya
Kaori Nishikawa (part1)

Grad students (7):

Keiji Nozaki (Kyoto University) (part1)
Junichi Murai (Kyoto University)(part1)
Jin Kitamura (Kyoto University) (part1)
Hajime Yamamukai (Kyoto University) (part2)
Norihide Sagami（Kyushu University）
Takeshi Sasaki（Kyushu University）
Shunsuke Yagi（Kyushu University）

Undergrads (3):

Asuka Hanagata (Kyoto University)
Taiyo Yasaki (Kyoto University)
Keito Asada (Kyoto University) (either slot is ok)

Access





FROM KYOTO TO KOKUMIN SHUKUSHA RAINBOW SAKURAJIMA

AIRPLANE (Total fare: ¥13,210～21,920 (Approx. 5 hours)

- Depart Kyoto University for Itami Airport (1. limousine bus or 2. train).
  1. Limousine Bus
     - 7:12-8:40: Demachiyanagi Station ⇒ Osaka International Airport (North Terminal) You can also board at Kyoto Shiyakusho-mae (Kyoto City Hall) and other bus stops.

     Fare: **¥1,340**.
  2. Train
     - 7:2**3-7:25/ 7:29-7:31**: **Jingu-Marutamachi** (Keihan Main Line) ⇒ **Sanjo** (transfer)⇒ **Gion-Shijo**
     - 7**:41-8:09/ 8:13-8:15**: **Kyoto-Kawaramachi** (Hankyu Kyoto Line) ⇒ **Ibarakishi** (transfer) ⇒ **Minami Ibaraki**
     - 8:19-8:45: Minami Ibaraki (Osaka Monorail) ⇒ Osaka Airport (Itami Airport).

     Fare: **¥1,000**.

8:45 (approx.): Arrived at Itami Airport. This provides a good buffer for getting to your gate and through security.

- 9:15-10:30: Itami Airport ⇒ Kagoshima Airport (JAL 2405).
  9:15-10:40: Itami Airport ⇒ Kagoshima Airport (ANA 543).
  Fare: ¥10,460~18,830, As of April 8th
- 11:15-12:03: Kagoshima Airport (Airport shuttle bus: Kagoshima Airport Line [Kagoshima-Chuo]) ⇒Kagoshima Port Sakurajima Ferry Terminal
  Fare: ¥1,500
- 12:20-12:35: Kagoshima Port Sakurajima Ferry Terminal (Kagoshima Port Sakurajima Ferry) ⇒ Sakurajima Port Ferry Terminal
  Fare: ¥250

TRAIN (Total fare: ¥14,440 (Approx. 6 hours))

- 6:49-7:01/ 7:06-7:08: Jingu-Marutamachi (Keihan Main Line) ⇒ Tofukuji (transfer)⇒ Kyoto
  Fare: ¥450
- 7:20-7:46: Kyoto (Tokaido Shinkansen, Hikari 731) ⇒ ShinKobe
- 8:02-11:36: ShinKobe (Sanyo Shinkansen, Mizuho 605) ⇒ Kagoshima
  Fare: ¥12,340 (reserved seat).
- 11:40-12:00: Kagoshima-Chuo Station (Taxi) ⇒Kagoshima Port Sakurajima Ferry Terminal
  Fare: ¥1,400
- 12:20-12:35: Kagoshima Port Sakurajima Ferry Terminal (Kagoshima Port Sakurajima Ferry) ⇒ Sakurajima Port Ferry Terminal
  Fare: ¥250

SHIP (Total fare: ¥14,460～20,360 (Approx. 20 hours))

- 10/26 15:43-16:42: Jingu-Marutamachi (Keihan Main Line) ⇒Yodoyabashi
- 10/26 16:49-17:21: Yodoyabashi (Osaka Subway) ⇒ Trade Center Station
  Fare: ¥840
- 10/26 17:55-10/27 8:55: Osaka Sunflower Ferry Terminal (Kansai-Kyushu MOL Sunflower Ferry) ⇒Kagoshima Shibushi
  Fare: ¥11,970～17,870
- 9:25-11:28: Kagoshima Shibushi (Free Sunflower Shuttle bus) ⇒Kagoshima-Chuo Station
- 11:40-12:00: Kagoshima-Chuo Station (Taxi) ⇒Kagoshima Port Sakurajima Ferry Terminal
  Fare: ¥1,400
- 12:20-12:35: Kagoshima Port Sakurajima Ferry Terminal (Kagoshima Port Sakurajima Ferry) ⇒ Sakurajima Port Ferry Terminal
  Fare: ¥250

【Return trip】

- Sakurajima Port Ferry Terminal ⇒ Kagoshima Port (Every hour 05, 25,45)

AIRPLANE

Timetable

- 14:45-15:50: Kagoshima Airport ⇒ Itami Airport (JAL 2420)
- 15:10-16:30: (ANA 548)
- 15:25-16:35: (JAL 2482)
- 17:40-18:55: (ANA 550)
- 18:05-19:15: (JAL 2412)
- 18:50-20:10: (ANA 1162)

Fare: ¥10,460 As of April 8th

TRAIN

Timetable

- 15:17-19:43: Kagoshima (Sakura764, ShinOsaka : Nozomi52) ⇒ Kyoto.
- 15:45-20:19: (Sakura766, ShinOsaka : Nozomi56)
- 16:17-20:46: (Sakura768, ShinOsaka : Nozomi58)
- 17:04-21:16: (Mizuho608, ShinOsaka : Kodama864)

Fare: ¥13,310.