

第 2 回ナノ生物流体研究会

たまおかカンファレンス

The 2nd colloquium of nanobiofluids

Tamaoka conference

Date: September 11-12

場所 今治市サイクリングターミナル サンライズ糸山

〒794-0001 愛媛県今治市砂場町 2 丁目 8 番 1 号


Tel: 0898-41-3196

今治市サイクリングターミナル サンライズ糸山 (sunrise-itoyama.jp)

Organizer: Hirofumi Shintaku

Program

Day 1	Speakers & Events	Room: 研修室
12:00-13:00	Arrival	Closed session for Shintaku lab
13:00-14:30	Ice break	
14:30-16:30	Students + Technical staff	
16:45-17:05	“New insights into cell mechanics: ELASTomics and MECHANOmics” Dr. Akifumi Shiomi (20min) RIKEN (Chair : Mr. Nozaki)	Open session
17:05-17:35	「細胞膜損傷評価に向けた色素分子の膜内移動に関する分子動力学解析」 Dr. Taiki Shigematsu (30min) Yamaguchi University (Chair : Dr. Shiomi)	
17:50-18:20	“Lung microstructure modeling for neonates” Dr. Kenichi Koshiyama (30min) Tokushima University (Chair : Dr. Kaneko)	
18:20-18:40	“Single-cell integration analysis of high-content morphotyping and transcriptomics via opto-combinatorial indexing” Mr. Arata Tsuchida (20min) RIKEN & Kyoto University (Chair : Mr. Nozaki)	

19:00-20:30	Dinner  <p>しもなみセット お一人様 ¥3,850 (税込)</p> <ul style="list-style-type: none"> ・ 地元産新鮮な旬の魚 ・ 京都産の新鮮な野菜 ・ 特製ドレッシングのシ・リ・リ・リ ・ しもなみ ・ しもなみをベースにした ・ パン or ライス ・ 食後のデザートとドリンク (コーヒーor紅茶) 	
21:00-23:00	bath and sleep	
Day 2		
7:30-8:30	breakfast & checkout  <p>えひめ “風”の朝御膳</p> <p>※ご飯は「鯛めし」・「白飯」から選べます。</p>	
9:00-9:20	“Developing non-toxic spatial-temporal RNA-seq using nano-electroporation” Dr. Taikopaul Kaneko (20min) Kyoto University (Chair : Mr. Murai)	
9:20-9:40	“Dissecting cellular interactions with single-cell RNAmovie and live imaging.” Dr. Misa Minegishi (20 min) Kyoto University (Chair : Mr. Murai)	
9:40-10:10	Dr. Naotaka Nakazawa (30min) Kinki University (Chair : Dr. Mahmoud)	
10:25-10:40	Mr. Keiji Nozaki (15min) Kyoto University (Chair : Mr. Kondo)	
10:40-11:10	“Metastatic dormancy in breast cancer” Dr. Jun Nakayama (30min) Osaka International Cancer Institute (Chair : Dr. Minegishi)	
11:10-11:30	Dr. Hirofumi Shintaku (20min) Kyoto University & RIKEN	
Closing remarks	Dr. Hidetoshi Kotera	
	leave	
12:00-	Excursion: -cycling -onsen	

16:48	departure from Imabari station	
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Day 1	Closed seminar speakers
14:30-14:40	“Metastatic dormancy in breast cancer” Dr. Motoko Uchida
14:40-14:50	“Research Support Report” Ms. Kaori Nishikawa
14:50-15:10	“An automated microfluidic controller for a constant flow rate by a PID feedback control” Mr. Keisuke Kondo, Mr. Junichi Murai

A report of lectures given by invited speakers



Dr. Daiki Shigematsu presented a study of nanopore formation on phospholipid bilayers using molecular dynamics (MD) simulations. Dr. Shigematsu proposed that the MD simulation considering on the density of nanopores can provide better understanding on the experimental observation of the transient nanopore formation probed by second harmonic generation (SHG).

By Akifumi



Dr. Kenichiro Koshiyama presented the lung microstructure modeling for neonates by heterogeneous octahedral clusters combined with an optimization algorithm. He also presented a model for the growth process of lung microstructure from neonates to adults.

By Akifumi



Dr. Naotaka Nakazawa presented his research on two key topics: mechanosensing in cancer cells and the mechanical forces involved in brain development. His studies aim to answer fundamental questions such as "How do cancer cells sense mechanical environments?" and "How is the brain developed through mechanical forces?"

By Misa



Dr. Jun Nakayama gave a talk on metastatic dormancy in breast cancer. He presented his research on the signaling pathways involved in inducing and awakening cancer cell dormancy.

By Taikopaul

-List of Attendees (20)

-Guest (6):

Mr. Takeshi Tamaoka

Emeritus Prof. Hidetoshi Kotera

Dr. Kenichiro Koshiyama

Dr. Taiki Shigematsu

Dr. Naotaka Nakazawa

Dr. Jun Nakayama

-Kyoto LiMe Staff (5):

Dr. Hirofumi Shintaku

Dr. Taikopaul Kaneko

Dr. Misa Minegishi

Dr. Mahmoud Nady Abdelmoez Atta

Ms. Minako Chaya

-RIKEN Staff (4):

Dr. Akifumi Shiomi

Mr. Arata Tsuchida

Ms. Kaori Nishikawa

Dr. Motoko Uchida

-Grad students(1):

Mr. Keiji Nozaki

-Undergrads (2):

Mr. Keisuke Kondo

Mr. Junichi Murai

Access

AIRPLANE

It's convenient

From Kyoto ANA1635 (10:05-10:55) from Itami to Matsuyama Airport.

It connected to the airport shuttle bus (10:15-10:33).

From Tokyo ANA 583 (7:15-8:45) from Haneda to Matsuyama Airport.

It connected to the airport shuttle bus (8:55-9:19).



Matsuyama Airport Shuttle Bus ¥ 700

Matsuyama Station

JR express "Shiokaze 16" (11:23-12:01) from Matsuyama to Imabari. ¥ 1,840

TRAIN

From Kyoto JR Nozomi 1 (8:09-9:09) from Kyoto to Okayama.

It is connected to JR Shiokaze 5 (9:25-11:35) from Okayama to Imabari.

From Tokyo JR Nozomi 1 (6:00-9:09) from Tokyo to Okayama.

It is connected to JR Shiokaze 5 (9:25-11:35) from Okayama to Imabari.

Imabari Station

↓ 6 km

Taxi ¥ 2,300 15 min.

Bus (Tenboudai Iriguchi) ¥ 350 25 min. 100 m walk

Train (Hashihama Station) ¥ 210 4 min. 2 km walk

12:10-12:25 from Imabari Station to Seminar House by taxi

Please gather in the front of JR Imabari's Information Center by 12:10.

To Sunrise-Itoyama in Imabari Central Cycling Terminal

Information to Guest Speakers (Drs. Koshiyama, Nakayama, Shigematsu)

Please gather in front of JR Imabari's Information Center by 16:15.

JR Express Ishizuchi 24 (Matsuyama 15:28-Imabari 16:05), Ishizuchi 13 (Takamatsu 13:50-Imabari 15:40) is convenient for you.

You will be guided to the Seminar House by taxi.



Excursion

9:00 Check your baggage

[しまなみ海道 手ぶらサイクリング | 佐川急便株式会社 < S G ホールディングスグループ > \(sagawa-exp.co.jp\)](http://shimanami-kaido.com/handbook/sagawa-exp.co.jp)

12:00 Start from Sunrise-Itoyama in Imabari Central Cycling Terminal
(Cross Bike or City Cycle)

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Cycling takes about 3 hours

<https://maps.app.goo.gl/McC8z7Qe3umEetk68>

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15:00 JR Imabari Station Rental Cycle

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Shimanami Hot Spring "KISUKE NO YU"

[館内のご案内～コンセプト～ | しまなみ温泉 喜助の湯 \(kisuke.com\)](http://kisuke.com)

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16:48 Imabari Station

Pick up your baggage

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Train

17:52 Matsuyama Station

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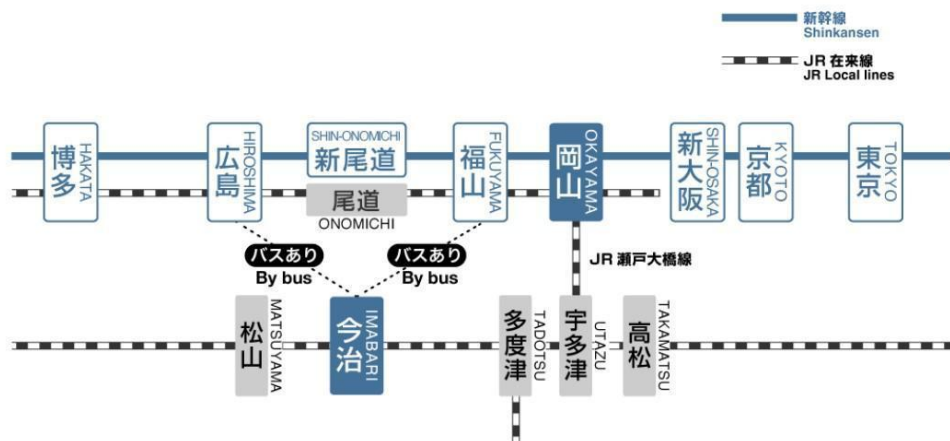
Matsuyama Airport Shuttle Bus

18:15 Matsuyama Airport

Information to Imabari

JRをご利用の場合

- JR特急利用の場合：岡山 ～ 今治（約2時間10分）
- JR特急利用の場合：松山 ～ 今治（約40分）



バスをご利用の場合

高速バス

東京 TOKYO	渋谷・二子玉川 ～ 今治桟橋 ※予約制	約 12 時間	今治 IMABARI
SHIBUYA/FUTAKOTAMAGAWA - IMABARI (about 12 hours) reservation required			
大阪 OSAKA	大阪駅前 ～ 今治駅前・今治桟橋 ※予約制	約 6 時間	今治 IMABARI
OSAKAUMEDA - IMABARI (about 6 hours) reservation required			
神戸 KOBE	三宮 ～ 今治駅前・今治桟橋 ※予約制	約 5 時間	今治 IMABARI
SANNOMIYA - IMABARI (about 5 hours) reservation required			
広島 HIROSHIMA	広島バスセンター ～ 今治駅前・今治桟橋 ※予約制	約 2 時間 30 分	今治 IMABARI
HIROSHIMA - IMABARI (about 2 hours and half) reservation required			
福山 FUKUYAMA	福山駅前 ～ 今治駅前・今治桟橋	約 1 時間 30 分	今治 IMABARI
FUKUYAMA - IMABARI (about 1 hours and half)			

フェリーをご利用の場合

大阪南港 NANKO PORT (OSAKA)	フェリー（約 8 時間） By ferry (about 8 hours)	東予港 TOYO PORT (EHIME)	接続バス（約 40 分） By bus (40 minutes)	今治 IMABARI
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