

# 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

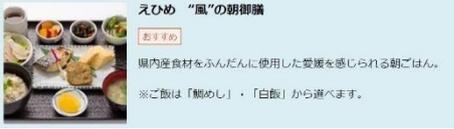
Tel: 0898-41-3196

[今治市サイクリングターミナル サンライズ糸山 \(sunrise-itoyama.jp\)](http://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	<b>Dinner</b>  <p>Shimane Miyatto お一人様 ¥3,850 (税込)</p> <ul style="list-style-type: none"> <li>・高菜と豚肉の合わせ</li> <li>・栗茸と鶏のカルパッチョ</li> <li>・特製ドレッシングのシ・リ サンダ</li> <li>・しんぜんき</li> <li>・しほなみ水産物のパイアベース</li> <li>・パン or ライス</li> <li>・食後のシャーベットとドリンク (コーヒーor紅茶)</li> </ul>	
21:00-23:00	bath and sleep	
Day 2		
7:30-8:30	<b>breakfast &amp; checkout</b>  <p>えひめ “風”の朝御膳</p> <p>おすすりめ</p> <p>県内産食材をふんだんに使用した愛媛を感じられる朝ごはん。</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).

松山空港

▶ のりば地図



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://shimane-sea.com/handbook/cycling/)

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

↓

Cycling takes about 3 hours

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

↓

15:00 JR Imabari Station Rental Cycle

↓

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 \(kisque.com\)](http://kisque.com)

↓

16:48 Imabari Station

Pick up your baggage

↓ Train

17:52 Matsuyama Station

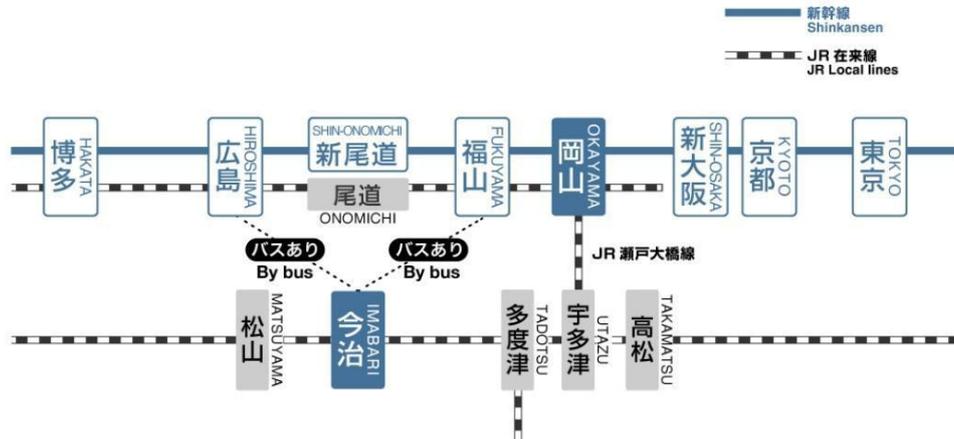
↓ Matsuyama Airport Shuttle Bus

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 SHIBUYA/FUTAKOTAMAGAWA - IMABARI	※予約制 reservation required	約 12 時間 約 12 時間	今治 IMABARI
大阪 OSAKA	大阪駅前 ~ 今治駅前・今治 OSAKAUMEDA - IMABARI	※予約制 reservation required	約 6 時間	今治 IMABARI
神戸 KOBE	三宮 ~ 今治駅前・今治 SANNOMIYA - IMABARI	※予約制 reservation required	約 5 時間	今治 IMABARI
広島 HIROSHIMA	広島バスセンター ~ 今治駅前・今治 HIROSHIMA - IMABARI	※予約制 reservation required	約 2 時間 30 分	今治 IMABARI
福山 FUKUYAMA	福山駅前 ~ 今治駅前・今治 FUKUYAMA - IMABARI		約 1 時間 30 分	今治 IMABARI

## フェリーをご利用の場合

