

健康科学分野融合・横断人材育成

人材育成プログラム

マイクロ・ナノデバイスを用いたバイオプラットフォームセミナーシリーズ

Pacific Rim Nano Medicine Symposium 2018

参加
無料

「ナノメディシン」とは、ナノサイエンス・テクノロジーを医学・生命科学・生物学などに導入した、基礎研究から医療応用にかかわる研究分野を意味し、具体的には、薬物輸送システム・新規バイオマテリアル・遺伝子治療・分子細胞との計測を行うためのマイクロナノデバイス・生体イメージング技術等の開発を目指した研究です。

本シンポジウムでは、台湾・日本の研究者を中心に、オーストラリア・韓国からも研究者を招き、ご講演いただきます。

【日時】 **2018年1月25日（木）～ 26日（金）**

9:00～17:00（受付開始：8時30分）

締切り
1/19
（金）

【場所】 理化学研究所 融合連携イノベーション推進棟（IIB棟）8F 講堂
（神戸市中央区港島南町6-7-1 ポートライナー「医療センター」駅から徒歩2分）



【特別講演】

Prof. Chung-Yuan Mou (National Taiwan University)

Mesoporous Silica Nanospheres as Artificial Intracellular Organelle

Dr. Murat Gel (CSIRO, Commonwealth Scientific and Industrial Research Organisation)

Biosensing with BRET

Prof. Giyoong Tae (Gwangju Institute of Science and Technology)

Pluronic-Based Nanogel for Targeted Delivery and Imaging

木村俊作先生（京都大学）

*Modulation of Immune Responses Triggered by Molecular Assembled Nanoparticles
Comprising Poly(sarcosine)-based Amphiphiles*

【お問い合わせ・お申し込み先】

理研RCH リサーチコンプレックス

E-mail : osamu.kurosawa@riken.jp

担当：黒澤 修

電話：078-569-8871



Pacific Rim Nano Medicine Symposium 2018
 -The 9th Japan-Taiwan Symposium on Nanomedicine-

Integrated Innovation Building, Kobe-Riken

< PROGRAM >

Day 1: January 24, 2018 (Wednesday)

TIME	DESCRIPTION
18:30-20:30	Reception for Taiwanese Speakers

Day 2: January 25, 2018 (Thursday)

TIME	DESCRIPTION
8:30-9:00	Registration
9:00-9:10	Opening Remarks Hiroo Iwata Emeritus Professor , Kyoto University
Chair: Hiroo Iwata (RIKEN)	
9:10-9:50	★Special talk Chung-Yuan Mou (National Taiwan University) Mesoporous Silica Nanospheres as Artificial Intracellular Organelle
9:50-10:10	Y. Okamoto (大阪大学) : Lipid Nanotechnology for Nanomedicine
10:10-10:30	Yuko Mimori-Kiyosue : (RIKEN) : Identification of a Key Molecular Pathway that Contributes to Recurrent Somatic Copy Number Alterations Using Lattice Light-sheet Microscopy
10:30-10:40	Coffee Break
Chair: Chun-Yuan Mou (National Taiwan University)	
10:40-11:00	Chen-Sheng Yeh (National Cheng Kung University) : Nano-formulation Designed in Nanomedicine: Malignant Tumor, Vessel Dilation, and Wound Healing
11:00-11:20	Dar-Bin Shieh (National Cheng Kung University) : Micro Nano Technology for Translational Oncology
11:20-11:40	Yumiko O. Kato (Panasonic Co) : Development of lensless microscopy for observing 3D structure of cultured cells
11:40-12:00	Daisuke Miyoshi (甲南大学) : Photodynamic therapy targeting cancer mRNA G-quadruplexes
12:00-13:30	Lunch
Chair: Yuko Mimori-Kiyosue (RIKEN)	
13:30-14:10	Special talk Murat Gel (CSIRO) Biosensing with BRET
14:10-14:30	Shan-hui Hsu (National Taiwan University) : Increased Cell Survival in Hydrogel by Nanomaterials?
14:30-14:50	Isao Hirata (広島大学) : Evaluation of acid-corrosion and molecule-adhesion of titanium passivation layer by surface plasmon resonance analysis
14:50-15:10	T. Ohtsuki (岡山大学) : Photochemical and sonochemical internalization of CPP-cargo-sensitizer conjugates
15:10-15:30	Feng-Huei Lin (National Taiwan University) : The Study of Meso-porous Hydroxyapatite Nanoparticles as Drug Carrier for Anti-glioma Treatment
15:30-15:50	Ja-an Annie Ho (National Taiwan University) : Biodegradable Nanodrug System for Cancer Therapy
15:50-16:10	Coffee Break
Chair: Dar-Bin Shieh (National Cheng Kun University)	
16:10-16:30	Hiroo Iwata (RIKEN) : Long-term Functioning of Allogeneic Islets in Subcutaneous Tissue
16:30-16:50	Yusuke Arima (京都大学) : Cell surface engineering for controlling cell-cell interactions
16:50-17:10	Ji-Yen Cheng (Academia Sinica) : Multiplex Urinary MicroRNA Detection Using Gold Nanoslit Array Surface Plasmon Resonance

17:10-17:30	Chia Ning Shen (Academia Sinica) : Immune-Tolerable Insulin-Producing Beta Cells Derived from Autologous Hepatocyte Reprogramming Ameliorate Type 1 Diabetes
17:30-17:50	Kunio Hirano (ARKRAY, Inc) : Closed-channel culture system for efficient and reproducible differentiation of human pluripotent stem cells into islet cells
17:50-18:10	Yi-Chung Tung (Academia Sinica) : Study Endothelial Cell Migration under Oxygen Gradients Using Microfluidic Devices
18:30-	Banquet (@CDB Lounge)

Day 3: January 26, 2018 (Friday)

TIME	DESCRIPTION
Chair: Cheng Shen Yeh (National Cheng Kun University)	
9:00 -9:40	★ Special talk Giyoong Tae (GIST) Pluronic-Based Nanogel for Targeted Delivery and Imaging
9:40-10:00	Yoh Hamada (東北大学) : Quantitative imaging of resistance mechanisms of anti-angiogenic drug Bevacizumab efficacy for cancer therapy
10:00-10:20	Hirofumi Shimizu (福井大学) : Development of a Method for Recording Single-Molecule Dynamics of Proteins in a Sub-millisecond time resolution
10:20-10:40	C.M.J. Hu (Academia Sinica) : Virus-mimicking Nanoparticle Vaccine Induces Potent Protection against Middle East Respiratory Syndrome Coronavirus
10:40-10:50	Coffee Break
Chair: Tsuneo Urisu (Nagoya University)	
10:50-11:10	Osamu Kurosawa (RIKEN) : Novel micromesh culture method without depending on cell-substrate interaction
11:10-11:30	Zhuosi Li (RIKEN) : A study on Umbilical Vein Endothelial Cells injury induced by High Glucose using micromesh culture method
11:30-11:50	Takeshi Hori (RIKEN) : Regulation of cell function and structure by a micromesh sheet
11:50-12:10	Yu-suke Torisawa (京都大学) : Development of Organ-on-a-Chip Microdevices to Reconstitute Bone Marrow Function
12:10-13:30	Lunch
Chair: Peilin Chen (Academia Sinica)	
13:30-14:10	★ Special talk Shunsaku Kimura (京都大学) Modulation of Immune Responses Triggered by Molecular Assembled Nanoparticles Comprising Poly(sarcosine)-based Amphiphiles
14:10-14:30	Hsu-Wei Fang (National Taipei University of Technology) Biological lubrication Strategy for the Failure of Joint Implants Induced by Wear Particles
14:30-14:50	Satoshi Fujita (福井大学) : Fabrication of anisotropic hydrogel nanofiber scaffold by using core-shell electrospinning
14:50-15:10	Patrick Hsieh (Academia Sinica) : Size-Dependent Biodistribution of Systemically Administered Nanoparticles following Cardiac Ischemia-Reperfusion Injury
15:10-15:30	Coffee Break
Chair: Osamu Kurosawa (RIKEN)	
15:30-15:50	T. Urisu (名古屋大学) : Development of neuronal network high throughput screening device for studying the neurodegenerative diseases
15:50-16:10	Sung-Liang Yu (National Taiwan University) : Current and Future Liquid Biopsy-based Gene Test in Cancer Control
16:10-16:30	Peilin Chen (Academia Sinica) : Isolation and In Vivo Imaging of Circulating Tumor Cells
16:30-16:35	Closing Remarks Peilin Chen Research Fellow, Academia Sinica
18:00-	Dinner (@居酒屋・三宮)