

<b>The 6<sup>th</sup> JMAC Symposium Program Day 1</b>	
Thursday, January 24, 2019	
<b>Day1</b>	<b>Registration 9:30~10:00 Tokyo International Forum B5</b>
<b>Session 1 : International standards and innovation in biotech field</b>	
Chair : Dr. Hiroki Nakae (JMAC)	
10:00~10:05	<b>Welcome Remarks</b> Ministry of Economy, Trade and Industry (METI)
10:05~10:10	<b>Introduction of Session 1 "International standards and innovation in biotech field"</b> Dr. Hiroki Nakae/JMAC
10:10~10:40	<b>Conformity assessment in biobanking spectrum</b> Dr. Koh Furuta/Kanagawa Cancer Center
10:40~11:10	<b>A Summary of Current Standardization Activities in ISO/TC276 Biotechnology</b> Clare M. Allocca/National Institute of Standards & Technology (NIST, USA)
11:10~11:30	<b>International standardization for cell-based assay using bioluminescence measurement</b> Dr. Naohiro Noda/AIST
11:30~11:50	<b>Safety Assessment in the Coming Era of the Precision Medicine</b> Dr. Yuko Sekino/Tokyo University
11:50~13:10	<b>Break and Posters</b>
13:10~13:40	<b>Two-Tailed PCR for precision diagnostics</b> Dr. Mikael Kubista/TATAA Biocenter (Sweden)
13:40~14:10	<b>FIRM (The Forum for Innovative Regenerative Medicine) pursuing international standardization</b> Mr. Tatsuo Heki/Forum for Innovative Regenerative Medicine (FIRM) •FUJIFILM Corporation Dr. Yutaka Yanagita/Forum for Innovative Regenerative Medicine (FIRM) •Astellas Pharma Inc.

<b>Session 2 : AMED miRNA Project Reports Part I</b>	
<b>Dr. Takahiro Ochiya (National Cancer Center)</b>	
14:10~14:15	<b>Welcome Remarks</b> Mr. Naoyuki Yamada／AMED
14:15~14:25	<b>Introduction of Session 2 "AMED miRNA Project Reports Part I"</b> Dr. Takahiro Ochiya／National Cancer Center
14:25~14:55	<b>Recent progress of serum miRNA profiling for the early stage cancer detection</b> Dr. Juntaro Matsuzaki／National Cancer Center
14:55~15:25	<b>The role of liquid biopsy in taking precision medicine to new heights</b> Dr. Hiroki Ochiai／National Cancer Center·Kitasato University Kitasato Institute Hospital
15:25~15:55	<b>Break and Posters</b>
15:55~16:25	<b>Development of a combination marker search algorithm for multiple diseases</b> Mr. Hitoshi Fujimiya／Dynacom Co., Ltd.
16:25~16:55	<b>The possibilities and issues of Medical AI</b> Dr. Nobuyuki Ota／Preferred Networks America, Inc.
16:55~17:25	<b>Detection of microRNA biomarker for dementia</b> Dr. Shunpei Niida／National Center for Geriatrics and Gerontology
17:25~17:30	<b>Wrap up Remarks of Session 2</b> Dr. Takahiro Ochiya／National Cancer Center
18:00~19:30	<b>Reception</b> Lounge, Tokyo International Forum <b>※Registration required</b>

## The 6<sup>th</sup> JMAC Symposium Program Day 2

Friday, January 25, 2019

**Day2                      Registration: 9:30~10:00      Tokyo International Forum B5**

### Session3: AMED miRNA Project Reports Part II

Chair : Dr. Hiroki Nakae (JMAC)

10:00~10:10	<b>Welcome Remarks</b> Dr. Saito Shiro／President of JMAC, Toshiba Corporation
10:10~10:15	<b>Introduction of Session 3 and follow-up of previous day</b> Dr. Hiroki Nakae／JMAC
10:15~10:45	<b>Development of DNA chip for the diagnosis with circulating miRNA</b> Dr. Satoko Takizawa／Toray Industries, Inc.
10:45~11:00	<b>Development of electrochemical miRNA detection technology</b> Dr. Kouji Hashimoto／Toshiba Corporation
11:00~11:15	<b>Development of a non-PCR based miRNA quantification system for bedside testing</b> Dr. Akio Kobori／Kyoto Institute of Technology Dr. Yuichiro Noda／Arkray Inc.
11:15~11:30	<b>Development of automated nucleic acid extraction system for exosome and miRNA from body fluids for clinical site inspection</b> Dr. Kazumi Sawakami／Precision System Science Co., Ltd.
11:30~12:00	<b>miRNA Biomarkers and International Standardization</b> Dr. Hiroki Nakae／JMAC
12:00~13:20	<b>Break and Posters</b>

### Session 4: "Expectations for Liquid Biopsy Technology"

Chair : Dr. Takahiro Ochiya (National Cancer Center)

13:20~13:25	<b>Welcome Remarks</b> Dr. Hiroshi Kato／Yamaguchi University
13:25~13:55	<b>Advances in liquid biopsy for early detection of cancer</b> Dr. Takahiro Ochiya／National Cancer Center
13:55~14:25	<b>Unveiling of Extracellular miRNA Profiles of Breast Cancer</b> Dr. Tang-Long Shen／National Taiwan University (Taiwan)
14:25~14:55	<b>Rigor and Reproducibility for Liquid Biopsy</b> Dr. Matthew Young／National Cancer Institute (USA)
14:55~15:25	<b>Break and Posters</b>

15:25~15:55	<b>Application of Liquid Biopsy to Clinical Laboratory Testings</b> Dr. Masato Maekawa／Hamamatsu University School of Medicine
15:55~16:25	<b>Cancer precision medicine based on liquid biopsy</b> Dr. Kazuto Nishio／Kindai University
16:25~17:15	<b>Panel discussion "Expectations for Liquid Biopsy Technology"</b> Dr. Ochiya, Dr. Nakae, Dr. Nishio, Dr. Shen, Dr. Young, Dr. Maekawa