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Press Release



Japan Analytical Instruments Manufacturers' Association (JAIMA)

Japan Scientific Instruments Association (JSIA)

## **Outline of the Advanced Diagnostics Innovation Zone, a Special Project for JASIS 2014, Takes Shape**

**List of Renowned Speakers Includes Guests from the Cabinet Secretariat, AIST, JST FIRST, and Lund University**

The Japan Analytical Instruments Manufacturers' Association (JAIMA; 1-12-3 Kanda Nishikicho, Chiyoda City, Tokyo 101-0054; chaired by Shigehiko Hattori, chairman of Shimadzu Corporation) and the Japan Scientific Instruments Association (JSIA; 3-8-5 Nihonbashi Honcho, Chuo City, Tokyo 103-0023; chaired by Hideto Yazawa, president of Dalton Co., Ltd.) have announced that they have determined the keynote address program, the general exhibition outline, and other details about the Advanced Diagnostics Innovation Zone. The zone is a special project that will be part of the 2014 Japan Analytical & Scientific Instruments Show (JASIS 2014), which will be held at Makuhari Messe from September 3 (Wed.) to 5 (Fri.).

This special program is the successor to last year's popular Medical Innovation Zone. The name "Advanced Diagnostics Innovation Zone" was chosen to reflect a focus on health care fields where the use and application of analytical instruments and technology show particular promise. This year's zone (approx. 900 m<sup>2</sup>) will be approximately two times larger than last year's zone (approx. 440 m<sup>2</sup>).

JAIMA defines advanced diagnostics as a research field in which new clinical diagnoses and health care management methods are established through the combination of analytical techniques with various scientific technologies. In recent years, developments in analysis and measurement technologies have led to dramatic improvements in genetic analysis, protein marker detection, metabolic marker detection, cellular research, and other areas. These developments are also supporting the evolution of genomics, proteomics, and metabolomics in the biotechnology research market and are accelerating the realization of tailor-made medicine and new industries such as the pre-disease health industry, which seeks to address vulnerabilities to disease.

In light of this situation, for each of the three days of the program, the keynote address—a central feature of the Advanced Diagnostics Innovation Zone—will feature a unique, particularly noteworthy theme that is pertinent to the advanced diagnostics of the near future. The program will include surveys of global trends, strategic plans for Japan, and lectures by renowned leaders in advanced research.

Additionally, more than 30 companies and organizations will be setting up booths in the Exhibition Zone, which

will include a special organizer exhibition section comprising a booth that will provide an easy-to-understand explanation of advanced diagnostics and a booth that will be centered around the advanced diagnostics of Japan. It will also introduce the latest research from the Japan Science and Technology Agency (JST), the National Institute of Advanced Industrial Science and Technology (AIST), and the Japan Micro Array Consortium (JMAC). There will be a variety of other events as well, including presentations within the venue that will provide the latest information from companies participating in the exhibition.

1. Keynote address: Three days, 17 lectures

Themes:

September 3: World Trends in Advanced Diagnostics and Strategies for Japan

September 4: Advanced Diagnostics Using Various Mass Spectrometers in the Clinical Field

September 5: Current State and Future Prospects of Genetic Diagnosis

Keynote speakers will include:

- Office of Healthcare Policy, Cabinet Secretariat: Hiromichi Hase
- AIST: Toru Natsume
- JST Funding Program for World-leading Innovative R&D on Science and Technology (FIRST) researcher: Koichi Tanaka (Shimadzu Corporation)
- JST FIRST researcher: Tomoji Kawai (Osaka University)
- Lund University (Sweden): György Marko-Varga

A detailed keynote address program is provided below.

## Keynote Address Program for the Advanced Diagnostics Innovation Zone

World Trends in Advanced Diagnostics and Strategies for Japan	September 3 (Wed.)	AM	11:30 to 12:10	Singapore's International Strategy for Advanced Diagnostics, Presented by the Agency for Science, Technology and Research (A*STAR)	A/Prof Tan Sze Wee (Deputy Executive Director, Biomedical Research Council, A*STAR)	
			12:10 to 12:50	Making Medicine More Precise: Applications of Molecular Diagnostics	Paul R. Billings MD, PhD (ALDA)	
			12:50 to 1:30	The Value of Large-scale Biobanking in Clinical Healthcare	György Marko-Varga (Clinical Protein Science & Imaging Group, BioMedical Center, Lund University, Lund, Sweden)	
		PM	2:00 to 2:40	Current State and Issues in Mass Spectrometry-based Clinical Proteomics and Biomarker Research	Toshihide Nishimura (First Department of Surgery, Tokyo Medical University)	
			3:00 to 3:40	Current State of Biomarker Research and Diagnostic Drug Development at Japanese and U.S. Pharmaceutical Companies	Yoshiya Oda (Eisai Co., Ltd.)	
			4:00 to 4:30	Strategy for Reviving Japan and the Conception of the Japan Medical Research and Development Agency	Hirofumi Hase (Office of Healthcare Policy, Cabinet Secretariat)	
Advanced Diagnostics Using Various Mass Spectrometers in the Clinical Field	September 4 (Thu.)	AM	11:00 to 11:40	Applications of Imaging Mass Microscopes in Drug Delivery Research	Yasuhiro Matsumura (Hospital East, National Cancer Center)	
			12:00 to 12:40	Development of Cancer Diagnostics Using Metabolomics	Masaru Yoshida (Associate Professor, Kobe University Graduate School of Medicine)	
		PM	1:00 to 1:40	Current State and Future Prospects of Advanced Mass Spectrometry Systems	Koichi Tanaka (Senior Fellow, Shimadzu Corporation)	
			2:00 to 2:40	New Medical Diagnoses Made Possible by On-site Mass Spectrometry	Michisato Toyoda (Graduate School of Science, Osaka University)	
			3:00 to 3:40	How the Mahoro General-purpose Humanoid Robot Will Revolutionize the Life Sciences	Toru Natsume (AIST)	
		Current State and Future Prospects of Genetic Diagnosis	September 5 (Fri.)	AM	11:00 to 11:40	Revolutionary Nanobiodevice Research and Development Based on Single-molecule Analysis
12:00 to 12:40	New Markets and Industries That Will Be Created by Single-molecule Measurement				Toshihiko Honkura (Quantum Biosystems Inc.)	
<b>From the Establishment of International Standards by JMAC to Future Industrialization</b>						
PM	1:00 to 1:30			Standardization in Preparation for the Implementation of Genetic Diagnosis	Nobuko Yamamoto (JMAC)	
	1:30 to 2:00			New Biochip Technologies and Applications	Sohei Funaoka (Sumitomo Bakelite Co., Ltd.)	
	2:00 to 2:30			Standardization of Molecular Diagnostics in the Pre-analytical Stage	Kazuhiro Okano (QIAGEN)	
2:30 to 3:00	Diagnostic Technology for a Pre-disease Society (RNA Checking)	Ryo Matoba (DNA Chip Research Inc.)				

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