Shizuoka Cancer Conference 2012

The Promotion of Innovation in Medical Care Related Special Zones

March 9, 2013 (Saturday)

Shizuoka Cancer Center Research Institute Sponsored by Shizuoka Prefecture and the Shizuoka Cancer Center Purpose of the Program The Pharma Valley Project, launched by Shizuoka Prefecture in 2002, is an initiative to promote health of the residents of the Prefecture and support local health and pharmaceutical industries.

In December 2011, the Cabinet Office of the Japanese Government designated the "Shizuoka Prefecture Comprehensive Special Zone for State-of-the-Art Medical Care" as a comprehensive special zone for local revitalization. The objectives of the zone are to develop new modalities for cancer diagnosis and treatment, and to revitalize the local community by supporting industry, academia and the public sector.

Medical innovation is given high priority as an important part of Japan's growth strategy. For this reason there are thirteen such special zones spread all around the country.

At this conference, representatives of these zones will come together for mutual information exchange in order to deepen the relationships between the zones and enable them to bear even greater fruits in the future.



Ken Yamaguchi President, Shizuoka Cancer Center

Program

Shizuoka Cancer March 9, 2013 (Saturday)
Conference 2012 Shiosai Hall, Shizuoka Cancer Center Research Institute

The Promotion of Innovation in Medical Care Related Special Zones

10:00	Opening A	ddress		Heita Kawakatsu	Gover	rnor of Shizu	oka Prefecture	
10:10	Introduction	on of the	e Conference	Ken Yamaguchi	Preside	ent, Shizuoka	Cancer Center	
10:30	Special Address I		The Comprehensive Special Zone System Takaki Tsujimoto Assistant Counselor, Regional Revitalization Bureau (Cabinet Secretariat)					
11:00	Special Address II		Medical Equipment Industry Policy of the Ministry of Economy, Trade and Industry Takafumi Kakudo Director, Medical and Assistive Device Industries Office, Commerce and Information Policy Bureau, METI					
	Session I: Initiatives to Promote Health and Improve Medical Care in Local Communities							
11:30	Lecture 1	e 1 The Kashiwa-no-ha Campus Special Zone for "Public-Private-Academic Autonomous Urban Management" Katsuya lijima Associate Professor, Institute of Gerontology, the University of Tokyo						
11:45	Lecture 2	2 The Onomichi Special Zone for Fostering Cooperation in Medical Services Yoshimasa Kanemitsu Project Team Director, Project Team for Special Zone Planning, Office of General Affairs, Hiroshima Prefectural Government Office						
12:00	Lecture 3	e 3 The Kagawa Medical and Welfare Special Zone Hironori Shiota Deputy Chief, Medical Affairs and National Health Insurance Division, Health and Welfare Department, Kagawa Prefectural Government Office						
12:15	Lecture 4	Comprehensive Special Zones for Leading Revitalization of Regional Medical Services (Life Innovation): Helping Regional Medical Services through the Comprehensive Medical Zone Concept Masayoshi Tojo Head of Comprehensive Medical Zone Promotion, General Affairs Division, Prefectural Hospitals Bureau, Tokushima Prefecture						
12:30	Lecture 5	Comprehensive Special Districts, Smart Wellness Cities for Creating a Wellness and Longevity Society, Takayuki Fukubayashi Director, Manager of Wellness Promotion Department and Chief of Management Strategy Office, Tsukuba Wellness Research Co., Ltd						
12:45	Tsukuba Wellness Research Co., Ltd Comprehensive Discussion I							
13:15	Lunch (60 minutes)							
	Session II: Initiatives to Develop State-of-the-Art Pharmaceuticals and Medical Equipment							
14:15	Lecture 1	The Development and Application of a Next-Generation Cancer Treatment in Tsukuba Hiroaki Kumada Associate Professor, Faculty of Medicine, University of Tsukuba						
14:30	Lecture 2	2 Developing Simplified Micro Blood Collection Equipment Equipped with Minimally Invasive Needles and Future Issues Masafumi Shimoda Advisor, Operation Planning Department, DNA Chip Research Inc.						
		Hiroshi	Hanauchi Chief in C Emergin	or, Operation Planning Depai harge of the Comprehensive g Industry Development Divisi	Busines on, Econo	ss Promotion omic Affairs B	search inc. Zone Initiative, ureau, Yokohama Mu	nicipal Government Office
14:45	Lecture 3 What We Are Doing in The Kansai Innovation International Comprehensive Special Zone Kenji Shinjo Assistant Director, Bio-Industry Promotion Division, Department of Commerce, Industry and Labor, Osaka Prefectural Government Office							
15:00	Break (15 minutes)							
15:15	Lecture 4	Shizuo Mitsuh	ka Prefecture Com isa Kozakura Divisio Econo	prehensive Special 2 on Director, Research and De omy and Industry Departmen	Zone f velopme t, Shizuo	for State- ent Managem oka Prefectura	of-the-Art Mec nent Division, Comm al Government	lical Care erce and Industry Bureau
15:30	Lecture5	The Eastern Kyushu Medical Valley Concept Zone Yasumichi Tanaka Director, Industrial Support Division, Commerce, Industry, Tourism and Labor Department, Miyazaki Prefectural Government Office						
15:45	Lecture 6							
16:00	Comprehensive Discussion II							
16:55								
10,55	Closing Ac	.G1C33					* Please note that l	ecture topics may change

Speaker Profiles / Overview of Lectures

Special Address I

The Comprehensive Special Zone System

Speaker

Takaki Tsujimoto Assistant Counselor, Regional Revitalization Bureau (Cabinet Secretariat)



Curriculum Vitae

2011-present

Entered the Ministry of International Trade and Industry (MITI-current Ministry of Economy, Trade and Industry (METI))
Assistant Division Chief, Business Environment Promotion

Assistant Counselor, Regional Revitalization Bureau (Cabinet

The Comprehensive Special Zone system was launched in 2011. In this talk, I will explain its purpose, objectives, the nature of the system itself, and what the local and national governments perform under it. Additionally, I will also discuss what the prospects and expectations are for the designated zones.

Special Address II

Medical Equipment Industry Policy of the Ministry of Economy, Trade and Industry

Speaker

Takafumi Kakudo Director, Medical and Assistive Device Industries Office, Commerce and Information Policy Bureau, METI



Curriculum Vitae

1997.7-1999.6 2001.1

2001.6-2004.6

2008.7

2012.4

Graduated from School of Engineering, The University of Tokyo

Entered the Ministry of International Trade and Industry (MITI) Graduate School, Massachusetts Institute of Technology (MITI restructured into Ministry of Economy, Trade and

Overseas posting (Brussels, Belgium): JETRO Brussels Center Director, Iron and Steel Technology Office, Manufacturing Industries Bureau, METI

Director, Medical and Assistive Device Industries Office, Commerce and Information Policy Bureau, METI

The medical equipment industry is expected to grow further in the future. Currently, the imports of medical equipment to Japan exceed the exports from it by 600 billion yen, and to modify this situation, it is necessary to enhance competitiveness of the domestic medical equipment industry. To accomplish this, it is crucial to apply Japan's excellent manufacturing technologies, so-called "monozukuri technologies" to the field of medical equipment, and the Ministry of Economy, Trade and Industry (METI) promotes the development of medical equipment by using those technologies to make the development of medical equipment by using those technologies. gies to meet the needs of medical practitioners. Furthermore, METI is trying to create a better institutional environment under which newly developed or improved medical equipment is marketed as smoothly as possible, and also implement necessary policies for capturing the overseas market, where even greater growth is expected.

Session I

Initiatives to Promote Health and Improve Medical Care in Local Communities

Lecture 1

The Kashiwa-no-ha Campus Special Zone for "Public-Private-Academic Autonomous Urban Management"

Speaker

Katsuya lijima Associate Professor, Institute of Gerontology, The University of Tokyo



Curriculum Vitae

Graduated from Jikei University School of Medicine Entered the Department of Cardiovascular Medicine, Chiba University Hospital
Entered, in succession, Kameda Medical Center (Cardiology),

Kimitsu Chuo Hospital (Department of Cardiovascular Medicine), and Tobu Chiiki Hospital (Department of Cardiovascular Medicine) Medical staff, Department of Geriatric Medicine,

The University of Tokyo

2001 Instructor at the same department as above Post-doctoral fellow, Cardiovascular Medicine,

Stanford University School of Medicine 2005 Returned to Instructor position at the Department of Geriatric Medicine, The University of Tokyo

Assistant Professor at the same department as above Assumed, in succession, the positions of chief of the medical office, chief of the ward and chief of outpatient care at the Division of Geriatric Medicine

Associate Professor, IOG: Institute of Gerontology, The University of Tokyo

Work is being done in Kashiwa City, Chiba Prefecture, that brings together industrial, government, university, and private participants across diverse fields for a project to create cities whose residents lead healthy and long lives. It is intended to come up with a town-planning approach for the future that draws inspiration from "health" and will establish a new lifestyle brand that is distinctly Japanese. Specifically, it will be founded on the three requisites for healthy cities in the future of "walking/moving, eating, and social participation" along with the "lighting places combined with heave are and exercise." tion" along with the "living places combined with home care and nursing" needed for secure cities of the future to embody a town-planning approach that generates health. The goal is to create secure, safe, and sustainable cities where anyone would want to live.

Lecture 2

The Onomichi Special Zone for Fostering Cooperation in Medical Services

Speaker

Yoshimasa Kanemitsu Project Team Director, Project Team for Special Zone Planning, Office of General Affairs, Hiroshima Prefectural Government Office



Curriculum Vitae

1984.4	Entered Hiroshima Prefectural Government Office					
1995.4	Chief, Commerce Policy Division,					
	Commerce, Industry and Labor Department					

1999.4 Project Planner, Regional Development Division,

Regional Development Department Chief Administrator, Office of Support for Persons with Disabilities, 2006.4 Health and Welfare Department

Project Coordination Supervisor, Policy Planning Division, Office of Planning and Promotion

Deputy Director, Project Team for Special Zone Planning, Office of General Affairs

Project Team Director of the same department as above

Work is being done at the Onomichi Special Zone for Fostering Cooperation in Medical Services based on a collaboration with healthcare and nursing professionals to enhance home care by using ICT, with the goal of making it possible for people to live in security in the places to which they have grown accustomed. In concrete terms, work is being done to accumulate and share diagnostic information using ICT with the goal of further developing a model for collaboration between various professions using the Onomichi method. In addition, efforts are also being made to develop model initiatives in the areas of remote medical care and remote medication counseling to provide care to individuals residing in less advantageous areas such as isolated islands. This presentation traces the broad outlines of these efforts.

Lecture 3

The Kagawa Medical and Welfare Special Zone

Speaker

Hironori Shiota



Curriculum Vitae

Graduated from Okayama University 1992 3 Entered Kagawa Prefectural Government Office 2009.3 Completed Master's Program, National Graduate Institute for Policy Studies

Chief, Budget Coordination Office, Policy Department Group Leader, Medical Affairs and National Health Insurance 2009 4

Division, Health and Welfare Department

The concept behind the Kagawa Medical and Welfare Special Zone is primarily to provide telemedicine and remote medication counseling services through active use of medical ICT to areas where medical providers are in short supply or the population is aging with striking rapidity, such as on islands in the Seto Inland Sea and back country areas in the corridors along and among the Sanuki Mountains. The goal is to create environments where local residents can live with a sense of security. This presentation covers the background to the concept, the efforts undertaken so far, and the issues it faces going forward.

Lecture 4

Comprehensive Special Zones for Leading Revitalization of Regional Medical Services (Life Innovation): Helping Regional Medical Services through the Comprehensive Medical Zone Concept

Speaker

Masayoshi Tojo Head of Comprehensive Medical Zone Promotion, General Affairs Division, Prefectural Hospitals Bureau, Tokushima Prefecture



Curriculum Vitae

1985.4 Entered Tokushima Prefectural Government Office Head of Comprehensive Medical Zone Promotion, General Affairs Division, Prefectural Hospitals Bureau

Tokushima Prefecture faces two major issues when it comes to medical services. First, while the number of in-prefecture physicians and hospitals is amongst the highest per capita in Japan, medical services in certain localities are breaking down owing to reduced numbers of medical professionals in less-populated areas and reduced access to certain clinical specialities such as obstetrics. Second, the prefecture needs to free itself from its long-held status as having the country's worst diabetes mortality rate. This presentation introduces one initiative being undertaken to resolve these issues, a cooperative effort by prefectural and university hospitals to revitalize regional medical services centered on the concept for the comprehensive medical zone.

Lecture 5

Comprehensive Special Districts, Smart Wellness Cities for Creating a Wellness and Longevity Society

Speaker

Takayuki Fukubayashi Director, Manager of Wellness Promotion Department and Chief of Management Strategy Office, Tsukuba Wellness Research Co., Ltd.



Curriculum Vitae

2004.1

2012.6-present

Completed Master's Program in Landscape Architecture, Graduate School, Tokyo University of Agriculture (Earned Ph.D. in Landscape Architecture)
Joined Pacific Consultants Co., Ltd.

Joined Tsukuba Wellness Research Co., Ltd.

Manager of Wellness Promotion Department and Chief of

Management Strategy Office Engaged in development of e-wellness system and consulting service for health promotion projects of municipalities and corporate health insurance societies

A society that pursued convenience and built cities and the structure of city has stunted the health of the population and generated a variety of social problems, as the confirmed evidence base. Japan needs to muster up some sort of prescription that can deal with these, but at present the social technology is not accumulating enough to make it possible. This presentation will suggest some possible directions, including the results of a social experiment which is underway in comprehensive special districts, smart wellness cities for creating a wellness and longevity society.

Speaker Profiles / Overview of Lectures

Session II

Initiatives to Develop State-of-the-Art Pharmaceuticals and Medical Equipment

Lecture 1

The Development and Application of a Next-Generation Cancer Treatment in Tsukuba

Speaker

Hiroaki Kumada Associate Professor, Faculty of Medicine, University of Tsukuba



Curriculum Vitae

2005.3

Researcher, Japan Atomic Energy Research Institute Engaged in R&D relating to BNCT

Completed the Doctorate Course at University of Tsukuba

2006.7

Deputy Chief Researcher, Japan Atomic Energy Agency Associate Professor, Faculty of Medicine, University of Tsukuba Engaged in R&D in the areas of proton therapy and medical physics relating to BNCT

Work has been proceeding on a project to develop and achieve practical application of boron neutron capture therapy (BNCT), one of the cuttingedge projects being undertaken at the Tsukuba International Strategic Comprehensive Special Zone. BNCT is a next-generation radiation treatment that combines neutrons with DDS technology to selectively destroy only cancerous cells. Thus far, competitive funds of various sorth have been obtained mainly at the University of Tsukuba to develop therapy equipment with a compact accelerator base that can also be used at hospitals, and work has been done by Ibaraki Prefecture to fit out treatment research sites. This presentation introduces the work that has been done so far and future business plans.

The objective at the Keihin Coastal Area Life Innovation Comprehensive Special Zone for International Competitiveness Development is for global

corporations to develop and manufacture innovative medicines and

Lecture 2

Developing Simplified Micro Blood Collection Equipment Equipped with Minimally Invasive Needles and Future Issues

Speaker

Masafumi Shimoda Advisor, Operation Planning Department, DNA Chip Research Inc.

Speaker

Hiroshi Hanauchi Chief in charge of the Comprehensive Business Promotion Zone Initiative, Emerging Industry Development Division, Economic Affairs Bureau, Yokohama Municipal Government Office



Curriculum Vitae

Graduated from Faculty of Science and Technology,

Sophia University

Joined Yoshizawa Business Machines Co., Ltd.

(worked on software R&D) Transferred to Hitachi America, Ltd. (San Francisco)

1987.4 Manager, R&D Division, Hitachi Software Engineering Co., Ltd. General Manager, Life Science Promotion Division Executive Director, DNA Chip Research Inc.

Advisor, DNA Chip Research Inc.





Curriculum Vitae

Entered Yokohama Municipal Government Office

Chief in charge of the Comprehensive Business Promotion Zone Initiative in the International Strategy, Growth Strategy Department, Economic Affairs Bureau of Yokohama Municipal Government Office

Lecture 3

What We Are Doing in The Kansai Innovation International Comprehensive Special Zone

Speaker

Kenji Shinjo Deputy Division Chief, Bio-Industry Promotion Division, Department of Commerce, Industry and Labor, Osaka Prefectural Government Office



Curriculum Vitae

1987.4 2010.4-present Graduated from Faculty of Law, Kansai University Entered Osaka Prefectural Government Office Temporarily transferred to Japan Fair Trade Commission Assistant Director, Bio-Industry Promotion Division, Department of Commerce, Industry and Labor

Three prefectures (Kyoto, Osaka, and Hyogo) and three ordinancedesignated cities (Kyoto, Osaka, and Kobe) in the Kansai region collectively applied and the Kansai Innovation International Strategic Comprehensive Special Zone was designated in December 2011. Universities, research institutes, private enterprises, economic organizations, and local governments have been working to revitalize the Kansai economy and regional industries beyond the prefectural boundaries.

I will explain how we have been working to speed up the process that leads from R&D to practical application and production with a focus on the life sciences and new energy fields that are a strength of Kansai, and how we have been promoting new innovations to the world.

Lecture 4

Shizuoka Prefecture Comprehensive Special Zone for State-of-the-Art Medical Care

Speaker

Mitsuhisa Kozakura Division Director, Research and Development Management Division, Commerce and Industry Bureau, Economy and Industry Department, Shizuoka Prefectural Government



Curriculum Vitae

Graduated from Faculty of Humanities, Chiba University Entered Shizuoka Prefectural Government Office Member, Establishment Project of Shizuoka Cancer Center Manager, Pharma Valley Center Assistant Director, Urban Planning Division, Construction Department
Division Director, Research and Development Management

Division, Commerce and Industry Bureau, Economy and Industry Department

Shizuoka Prefecture has pursued its Pharma Valley Project in the eastern part of the prefecture through a collaborative effort among industry, academia, government, and financial institutions. The Pharma Valley Initiatives were formulated 10 years ago on the occasion of the opening of the Shizuoka Cancer Center in a region that was already home to numerous research institutions related to pharmaceuticals, medical equipment manufacturing, and other fields. Thanks to R&D projects joining medical practitioners and caregivers with industry, product development done in collaboration with major companies, and efforts by local companies to advance into the medical services and health industries, the value of both pharmaceutical and medical instrument production here has been the highest in Japan for two years in a row. Furthermore, Shizuoka received approval in December 2011 to create the Shizuoka Prefecture Comprehensive Special Zone for State-of-the-Art Medical Care. Work has begun on this initiative, whose aim is to develop cancer treatments and revitalize local companies.

Lecture 5

The Eastern Kyushu Medical Valley Concept Zone

Speaker

Yasumichi Tanaka Director, Industrial Support Division, Commerce, Industry, Tourism and Labor Department, Miyazaki Prefectural Government Office



Curriculum Vitae

1982 1982.4 2006 2010.4 2012.4

Graduated from Faculty of Law, The University of Tokyo Entered Miyazaki Prefectural Government Office Participated U.S. Department of State IVL Program
Vice Councillor, Prefectural Policy Department and Deputy Director, General Policy Planning Division
Director, Industrial Support Division, Commerce, Industry, Tourism

and Labor Department

The eastern Kyushu region encompassing Miyazaki and Oita prefectures is home to a major collection of industries that handle medical equipment related to blood and blood vessels, such as dialyzers and apheresis products. The two prefectures have come up with the Eastern Kyushu Medical Valley Concept to take advantage of this accumulation and hope to bring even more medical equipment companies here, stimulate the area, and make a contribution to Asia in the medical services field. The concept zone was designated as one of the first comprehensive special zones for local revitaliza-tion. This presentation will discuss four sites in the concept zone that are being developed respectively for research and development, medical equipment industries, human resources development, and blood and arterial

Lecture 6

The Mie Life Innovation Comprehensive Special Zone

Speaker

Yasushi Takamura



Curriculum Vitae

1981.3 Completed Master's Course in Pharmacy, Meijo University

Joined a pharmaceutical company 1983.4

Entered Mie Prefectural Government Office Engaged in pharmaceutical and food sanitation work, and the Medical Valley Project at the headquarters and the public health institute

Deputy Chief, Pharmaceutical Affairs and Food Office 2007 4 2009 4-present

(in charge of Medical Valley)

Deputy Counselor and Deputy Division Chief, Pharmaceutical Affairs and Food Office (former Pharmaceutical Affairs and Infectious Disease Response Division) (in charge of Medical Valley)

The Mie Life Innovation Comprehensive Special Zone is a comprehensive special zone for local revitalization so designated by the national government on July 25, 2012. The zone initiative is grounded in the industry-academiagovernment cooperative structures established through the Mie Medical Valley Concept that Mie Prefecture has pursued since 2002 to develop and build up the medical services, health, and human services industries. The initiative has taken advantage of the treatment network in place throughout Mie Prefecture to build an integrated treatment information database that brings together treatment data (treatments used, medications, tests, etc.) for some 300,000 patients. It has also established Mie Life Innovation Promotion (MieLIP) Centers at seven locations around the prefecture to assist with R&D. By taking advantage of this database and the MieLIP centers, as well as the easing of various regulations, through the initiative we have sought to help companies in Japan and overseas to create revolutionary new pharmaceuticals and medical devices, to encourage companies and research institutions to locate in Mie Prefecture, and to expand local employment. The initiative has helped to revitalize companies and universities in the prefecture as well as the local economy.

Today's talk will discuss the progress made so far in the special zone and its future prospects.