

The 11<sup>th</sup> International Congress of Hyperthermic Oncology  
The 29<sup>th</sup> Japanese Congress of Thermal Medicine

# ICHO&JCTM 2012

New Scientific Aspects in Hyperthermic Therapy:  
Combined Results from Bench and Bedside

August 28 (Tue.)- 31 (Fri.), 2012



Hyatt Regency Kyoto, Japan



## Greeting

Dear Colleagues,

It is our great pleasure to welcome you to the 11th International Congress of Hyperthermic Oncology (ICHO2012) which will be held in Kyoto, from Tuesday, August 28 to Friday, August 31 of 2012. This meeting (ICHO2012) will be held as joint the conference with 29th Japanese Congress of Thermal Medicine annual meeting (JCTM2012). We will host and organize an exciting program on the latest hyperthermic oncology research and investigation of other disease. The theme of the meeting is “New Scientific Aspects in Hyperthermic Therapy: Combined Results from Bench and Bedside”. We are planning a high quality of scientific programs, which capture the advances on all these fronts, with a range of speakers and participants who are leaders in these fields: physics and engineering, biology, and medicine. 12 attractive symposiums on the latest research and 5 informative lectures by authorities worldwide will be provided. The meeting will also provide poster session with short oral presentation and free drink discussion. Young investigators are especially encouraged to present the most recent development in hyperthermic oncology, and the presentations of outstanding quality will receive Young Investigator Award.

The venue for ICHO&JCTM 2012 is the city of Kyoto, the old capital of Japan for over a millennium, and Kyoto carries a reputation as its most beautiful city in Japan. In banquet party, you will be entertained by “Maiko” and “Geiko” who are kimono-clad female entertainers and trained in the traditional arts, singing, dancing, and conversation. You can enjoy fascinating culture and traditional foods of the ancient capital Kyoto with your colleagues and family.

We are cordially welcome for your coming to Kyoto and hope that acquiring new information and heartily discussion in this meeting will inspire you to attain future advanced development and global collaboration in the field of hyperthermic oncology.

We trust you will find the ICHO&JCTM 2012 most scientifically rewarding.

Sincerely,



Toshikazu Yoshikawa, MD, PhD

President of ICHO 2012

President, Kyoto Prefectural University of Medicine

## Welcome to Kyoto for the 11<sup>th</sup> ICHO and the 29<sup>th</sup> JCTM

During the last meeting of the 10<sup>th</sup> International Congress of Hyperthermic Oncology (ICHO) in 2008 in Munich, we proposed holding this 11<sup>th</sup> ICHO meeting in Kyoto. At that time, Dr. Sugahara originated this proposal, and his recommendation was accepted. Unfortunately, Dr. Sugawara passed away on October 1st 2010. Since then, we have missed him and there was a formal memorial gathering to commemorate him. Similar memorial ceremonies have also been held for him at several other scientific meetings because Dr. Sugawara was active in a range of scientific fields where he made important contributions, and the field of hyperthermic oncology was a major scientific endeavor for him during his career. I am very happy to see the 11<sup>th</sup> ICHO & the 29<sup>th</sup> Japanese Congress of Thermal Medicine (JCTM) being held in Kyoto. I remember well the 5<sup>th</sup> ICHO meeting in Kyoto in 1988 at this same hotel (the name is now the Hyatt Regency Kyoto, but it was formerly named the Kyoto Park Hotel).

Japan suffered from a serious disaster after the huge earthquake and tsunami on March 11, 2011. In addition, there was a very serious accident at the Fukushima-Daiichi nuclear power plant because of the earthquake and tsunami. Since then, I have spent many very busy days reviewing and analyzing the consequences from these events as the president of the Japanese Association for Radiation Research. From the disaster and accident, I have learned what I should do to help people now, but still have to learn what efforts should be made and what goals should be followed for the future. Scientists must think carefully and conscientiously about helping science and technology operate safely and effectively. Japan now has to begin anew in the aftermath of this disaster, and has to learn from this disaster and accident.

The people of Japan greatly appreciated the worldwide outpouring of sympathy and support, and would like to thank people from around the world for their efforts.

Hyperthermic therapies have been studied intensively for more than 40 years. In this congress, I hope the recognition of recent scientific successes in the use of hyperthermic oncology will be combined with fruitful discussions concerning progress and new advances and techniques in this field. We are now witnessing the birth of new advances and concepts in hyperthermic oncology, and this will lead to advances in clinical technology as well as in basic science in the fields of physics and biology.

We wish to welcome all of our friends to the beautiful city of Kyoto.

Kyoto is one of the most famous historical cities in Japan. There are many world heritage sites in Kyoto, and also in the nearby neighboring city of Nara. I hope that all of you will enjoy Japan and Japanese culture and have many interesting and pleasant experiences during your visit.

Takeo Ohnishi, PhD  
Honorary President of ICHO&JCTM 2012  
President of JSTM

# Organization

## Organized by

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International Association of Hyperthermic Oncology (IAHO)

Japanese Society for Thermal Medicine (JSTM)

## Co-organized by

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The Biomedical Society for Stress Response (BSSR)

The Japanese Society of Inflammation and Regeneration(JSIR)

Japanese Society for Therapeutic Ultrasound (JSTU)

International Association for the Sensitization of Cancer Treatment (IASCT)

## Local organizing committee

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### **President of ICHO 2012 (11th ICHO)**

Toshikazu Yoshikawa    President, Kyoto Prefectural Univ. of Medicine, Japan

### **President of JCTM 2012 (29th JCTM)**

Takashi Kondo            Professor, Dept. of Radiological Sciences, Graduate School of Medicine and  
Pharmaceutical Sciences, Univ. of Toyama, Japan

### **Secretary General of ICHO&JCTM 2012**

Satoshi Kokura            Dept. of Cancer Immunocell Regulation, Kyoto Prefectural Univ. of Medicine,  
Japan

### **Treasurer of ICHO&JCTM 2012**

Yoshihiko Maehara        Professor, Dept. of Surgery and Science, Graduate School of Medical Sciences,  
Kyushu Univ., Japan

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Professor, Scientific Program, Dept. of Radiation Oncology, Nara Medical Univ.  
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Hiroyuki Kato, Dokkyo Medical Univ.

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Hiromi Terashima, Hara-Sanshin-Hospital

Iwai Tohnai, Yokohama City Univ.

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European Society of Hyperthermic Oncology (ESHO):

President, Rolf D. Issels, Ludwig Maximilians-Univ., Germany

Society of Thermal Medicine (STM):

President, Sharon S. Evans, Rosewell Park Cancer Inst., USA

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Gerard C. van Rhoon, Erasmus MC, the Netherland

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### *Biology*

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Jose Penagaricano, Univ. of Arkansas for Medical Sciences, USA

Zeljko Vujaskovic, Duke Univ. Medical Center, USA

Shan-Wen, Zhang, Beijing Univ., China

## General Information

### Dates:

August 28 (Tue.) to 31 (Fri.), 2012

### Venue:

Hyatt Regency Kyoto

644-2 Sanjusangendo-mawari, Higashiyama-ku, Kyoto 605-0941, Japan

Tel: +81 75 541 1234 Fax: +81 75 541 2203

<http://frcm2011.umin.jp/>

### Official Language:

The official language of the congress is English

## Secretariat

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ICHO&JCTM 2012 Secretariat  
*c/o Ueno Congress Service*  
Yasuda Bldg. 3F., Kawaramachi-Kojinguchi-sagaru,  
Kamigyo-ku, Kyoto 602-0855, Japan  
Phone: +81-75-213-7057 Fax: +81-75-213-7058  
E-mail : ICHO2012@uenocongress.jp

## Congress Website

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<http://icho2012.umin.jp>

## Social Events

### Welcome Party

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Date & Time: 19:00- on Tuesday 28 Aug., 2012  
Place: Room B, Drawing Room, Hyatt Regency Kyoto  
Style: Light Buffet Dress code: Casual  
YITA Award Ceremony will take place during the welcome party.

### Short Sightseeing

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Date & Time: 15:15-17:00 on Thursday 30 Aug., 2012  
Place: Chishaku-in Temple and Sanjusangen-do Temple  
Meeting Place: Registration Desk in front of Room A  
Fee: Free (Number of limited 50 persons)

### Banquet

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Date & Time: 18:40- on Thursday 30 Aug., 2012  
Place: Room A, Ballroom I, Hyatt Regency Kyoto  
Style: Buffet Dress code: Casual \* Registered applicants only

## Business Meeting

JSTM the Boad of Directors	Aug. 28 12:00-13:00	Regency I
ASHO Council Meeting	Aug. 28 13:00-14:00	Regency II
ESHO Council Meeting	Aug. 28 13:00-14:00	Regency III
STM Council Meeting	Aug. 28 13:00-14:00	Regency I
Int. J. Hyperthermia Editorial Meeting	Aug. 28, 14:00-15:00	Regency II
IAHO Council Meeting	Aug. 28, 15:00-16:00	Regency III
IAHO General Meeting	Aug. 31, 16:00-16:30	Room A
JSTM Council Meeting	Aug. 28 19:00-19:30	Room A
JSTM General Meeting	Aug. 30 17:00-17:30	Room B

## Registration

### Registration Hour

Tuesday 28 Aug.	14:00-19:30
Wednesday 29 Aug.	8:00-18:00
Thursday, 30 Aug.	8:00-18:30
Friday, 31 Aug.	8:30-14:00

### Registration Fee

	Early Registration	On-site /Late Registration	Fee includes
Members	30,000 JPY	40,000 JPY	Admissions to the scientific programs, congress materials, welcome reception, luncheon seminars, and coffee breaks.
Non-members	40,000 JPY	50,000 JPY	
Comedical Members	10,000 JPY	13,000 JPY	
Comedical Non-members	12,000 JPY	15,000 JPY	
Students	8,000 JPY	10,000 JPY	
Accompanying Persons	10,000 JPY	10,000 JPY	Admission to the opening & closing ceremony, welcome reception, and coffee breaks.
Banquet	3,000 JPY	5,000 JPY	Admission to the opening & closing ceremony, welcome reception, and coffee breaks.

## Presentation Instructions

### PC Desk is next to each speaker podium.

- All speakers should preview their presentation and complete a run-through of the connection and operation of their equipment at the PC Desk at least 60 minutes before their session and 30min before the first session are scheduled to begin.
- Speakers are encouraged to use Windows PowerPoint 2007. PowerPoint 2003 or 2010 Users are asked to preview and practice their presentations at PC Desk.
- Presentation Time

	Presentation Time	Discussion
Keynote Lecture, Award Lecture, Symposium, Summary	Presentation time has been sent to each speaker separately.	
Morning Lecture	30 minutes	

Please be punctual and carefully follow the allotted time limits.

## Presentation File Preparation

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Virus scanning in advance is desirable.

Save your presentation file as Microsoft PowerPoint2007 format. Prepare your presentation on USB memory drive or on CD-R. Do not use CD-RW.

### 1. Notes for speakers using their own PC

Remember to bring your own power adaptor and cables.

Please prepare your presentation data with Microsoft PowerPoint 2007.

The PC's prepared by the conference will handle Windows and Macintosh versions of Microsoft PowerPoint only. Please do not use Keynote. All energy-conserving functions such as screen-savers, sleep/power-saving modes should be disabled on PCs to be used in the presentation.

## For Authors of Poster Presentation with Short Oral

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Set Up / Poster Viewing and Discussion/ Removal Times

Set Up	14:00-18:00 Aug. 28 8:00-12:00 Aug. 29
Poster Viewing and Discussion	18:00-19:00 Aug. 29 17:30-18:30 Aug. 30
Removal	11:00-13:00 Aug. 31

Posters not removed by 13:00 on Aug. 31 will be discarded by the Secretariat.

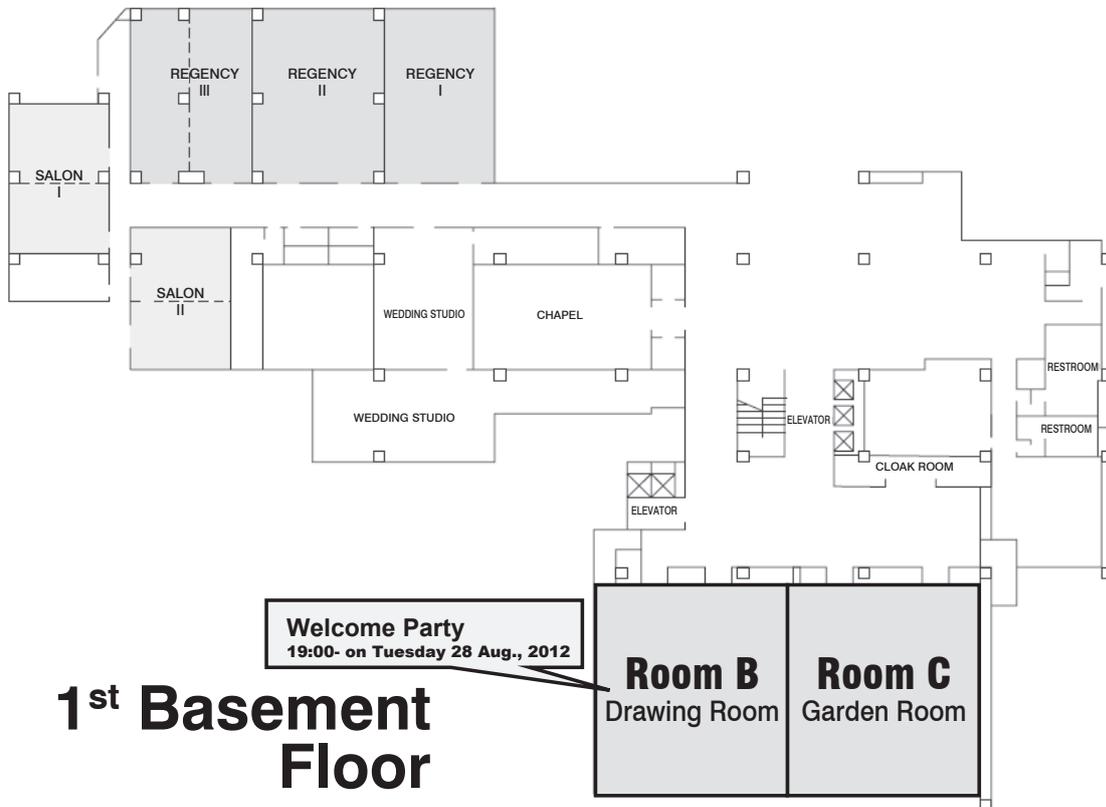
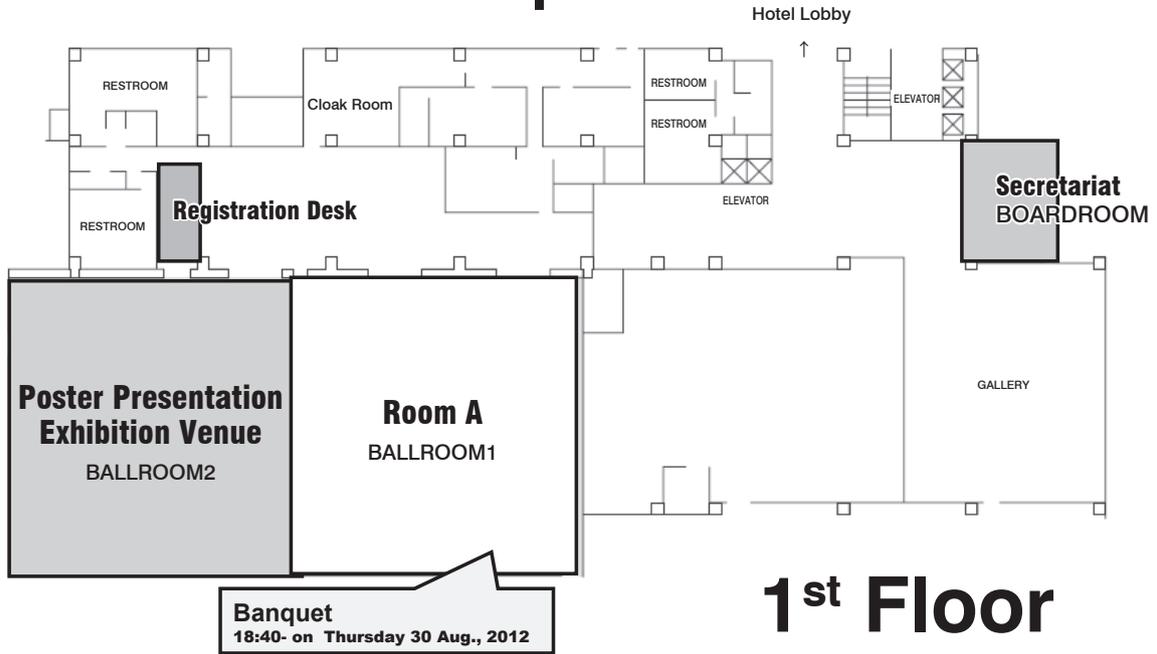
### 1) Short Oral Presentation

Presentation Time	Abstract Number	Venue
15:15-18:00 Aug. 29 (in English)	Pa-01 ~ Pa-47	Room A
	Pb-01 ~ Pb-49	Room B
	Pc-01 ~ Pc-47	Room C
15:15-16:45 Aug.30 (in Japanese)	Pj-01 ~ Pj-26	Room B

- (1) The presentation time will be 3 min. In the presentation, there is no discussion time. The presenters should be strict with the presentation time limitation. Please refer to the information regarding PC Desk.
- (2) The total number of the slides must not be more than 4 pages including title, author's name and affiliation.
- (3) Please name the file as: Ex: Pa-01\_Your family name.pptx
- (4) PC and Preview

The presenters should preview and practice your slide on the PC at the PC Desk next to the speaker's podium. Please check character corruptions and modify the layout in your slides when practicing slides. Please refer to the Oral Presenter Guideline regarding PC Preview.

# Venue Floor Map



# Program at a Glance

August 28 (Tue.)

Room A	
14:00	Registration
16:00	<b>Opening and Award Ceremony</b> General Chairperson : Satoshi Kokura
	<b>Opening Remarks</b> Toshikazu Yoshikawa
	05
	<b>Keynote Lecture</b> [Hyperthermia and chemotherapy; from sarcoma to pancreatic cancer – a path for mainline tumor treatment?] Chairperson : Toshikazu Yoshikawa Speaker : Rolf D. Issels
30	30
	<b>Sugahara Award Ceremony and Lecture: IAHO</b> [Hyperthermia anno 2012: quality must be controlled and accurately documented] Chairperson : Rolf D. Issels Speaker : Gerard C. van Rhoon
17:00	05
	<b>Award Ceremony and Lecture: ASHO</b> Chairperson : Hiroyuki Kuwano Speaker : Takashi Kondo
	20
	<b>Welcome Remarks</b> Takeo Ohnishi
	25
	<b>Award Ceremony of Abe Award and JSTM Young Investigator Award</b> Chairperson : Koichi Ito
30	30
	<b>Award Ceremony of Excellent paper in Thermal Medicine and Int J Hyperthermia</b> Chairperson : Akihisa Takahashi
	35
	<b>Abe Award Lecture</b> Chairperson : Koichi Ito Speaker : Kanji Katayama
	50
18:00	<b>Report of JSTM Young Investigator Award</b> Chairperson : Koichi Ito Speaker : Satoko Adachi Speaker : Takayuki Ohguri
	10
	<b>Award Lecture for Excellent Paper in Thermal Medicine</b> Chairperson : Akihisa Takahashi Speaker : Makoto Murakami
	20
	<b>Award Lecture for Excellent Paper in Int J Hyperthermia</b> Chairperson : Akihisa Takahashi Speaker : Takeshi Hori
30	30
	<b>Special Performance of Music</b>
19:00	
	<b>Welcome Party (B1F Drawing Room)</b>
20:30	

# Program at a Glance

August 29 (Wed.)

	Room A	Room B	Room C	
8:40				8:40
9:00		<b>Morning Lecture 1</b> [Cancer hyperthermia using magnetite nanoparticles] Chairperson : Hiroyuki Kato Speaker : Takeshi Kobayashi	<b>Morning Lecture 3</b> [Progress in noninvasive MR thermometry] Chairperson : Hideyuki Sakurai Speaker : Kagayaki Kuroda	9:00
		10	10	
30	<b>ESHO BSD Award Session</b> Chairperson : Michael R. Horsman	<b>Morning Lecture 2</b> [Influence of thermal therapy on the tumor microenvironment, vascular function and vice-versa] Chairperson : Norio Mitsuhashi Speaker : Robert J. Griffin	<b>Morning Lecture 4</b> [The combination therapy of hyperthermia, radiotherapy, and/or chemotherapy in the past, present, and future direction for advanced cervical cancer] Chairperson : Takeo Takahashi Speaker : Yoko Harima	30
		40	40	
		50	50	
10:00				10:00
30	<b>Symposium 1</b> [HIPEC for peritoneal dissemination today] S01-1~7 Chairpersons : Yutaka Yonemura Shigeki Kusamura	<b>Symposium 3</b> [Hyperthermia and nanotechnology/nanomedicine] S03-1~8 Chairpersons : Hiroyuki Honda Nicholas Borys	<b>Symposium 5</b> [Treatment planning and control of therapy] S05-1~6 Chairpersons : Gerard C. van Rhoon Kagayaki Kuroda	30
11:00				11:00
30				30
		50	50	
12:00	<b>Luncheon Seminar 1</b> [Protective role for HSP70 against various gastrointestinal diseases and other diseases.] Chairperson : Kazuhide Higuchi Speaker : Tohru Mizushima <in Japanese>			12:00
30				30
13:00				13:00
30	<b>Symposium 2</b> [Clinical aspects of regional hyperthermia combined with radiotherapy] S02-1~5 Chairpersons : Yasumasa Nishimura Jacoba van der Zee	<b>Symposium 4</b> [JSIR joint symposium:Heat stress and inflammation /regeneration] S04-1~5 Chairpersons : Ikuo Morita Toshikazu Yoshikawa	<b>Symposium 6</b> [Physical medicines with thermal therapy on chronic diseases] S06-1~5 Chairpersons : Hirofumi Kai Philp Hooper	30
14:00				14:00
30				30
15:00				15:00
		15	15	
30	<b>Poster-Short Oral presentation</b> 01 : Pa-01~07 Chairperson : Hiromasa Kurosaki 02 : Pa-08~14 Chairperson : Hideaki Takahashi 03 : Pa-15~21 Chairperson : Takayuki Asao 04 : Pa-22~28 Chairperson : Hideo Baba 05 : Pa-29~34 Chairperson : Takefumi Ohga 06 : Pa-35~41 Chairperson : Masaru Morita 07 : Pa-42~47 Chairperson : Erito Mochiki	<b>Poster-Short Oral presentation</b> 01 : Pb-01~06 Chairperson : Hitoshi Ishikawa 02 : Pb-07~13 Chairperson : Ichiro Ota 03 : Pb-14~20 Chairperson : Valentina Ostapenko 04 : Pb-21~26 Chairperson : Shin-ichiro Masunaga 05 : Pb-27~33 Chairperson : Yasushi Toh 06 : Pb-34~40 Chairperson : Akira Mogi 07 : Pb-41~49 Chairperson : Masashi Kawamura	<b>Poster-Short Oral presentation</b> 01 : Pc-01~12 Chairperson : Masahiro Kuroda 02 : Pc-13~25 Chairperson : Hironobu Nakamura 03 : Pc-26~35 Chairperson : Akira Takeuchi 04 : Pc-36~47 Chairperson : Keishi Tanigawa	30
16:00				16:00
30				30
17:00				17:00
30				30
18:00				18:00
	<b>Room P 18:00~19:00</b> <b>Poster Viewing &amp; Discussion</b>			
19:00				19:00

# Program at a Glance

August 30 (Thu.)

August 31 (Fri.)

	Room A	Room B	Room A	Room B	
8:40					8:40
9:00	<b>Morning Lecture 5</b> [Detection and clinical application of novel stress biomarkers in peripheral blood] Chairperson : Hiroshi Maezawa / Speaker : Kazuhito Rokutan	<b>Morning Lecture 7</b> [New paradigms for targeted drug delivery using thermolabile drug delivery systems: A bench to bedside journey] Chairperson : Chung K. Lee / Speaker : Mark Dewhirst			9:00
30	<b>Morning Lecture 6</b> [Thermochemistry: A multifaceted energy source for ablation] Chairperson : Koji Ono Speaker : Erik Cressman	<b>Morning Lecture 8</b> [Role of thermal therapy in regulation of bone marrow homeostasis and immune function following radiation: New clinical opportunities?] Chairperson : Tsutomu Takeda / Speaker : Elizabeth A. Repasky	<b>Morning Lecture 9</b> [An effective new thermal therapy treatment for pancreas cancer] Chairperson : Yoshihiko Maehara Speaker : Joan M.C. Bull	<b>Morning Lecture 10</b> [Role of hyperthermia in treatment of bladder cancer: Current status and future directions] Chairperson : Kosuke Ueda Speaker : Zeljko Vujaskovic	30
10:00					10:00
30	<b>Symposium 7</b> [State of the art in clinical heating and prospective heating technologies] S07-1~6 Chairpersons : Paul R. Stauffer Youji Kotsuka	<b>Symposium 9</b> [Cell signaling and damage response] S09-1~7 Chairpersons : Masahiko Miura Hiroyuki Kitao	<b>Symposium 11</b> [HIFU and non-invasive heating] S11-1~6 Chairpersons : Charles Cain Shin-ichiro Umemura	<b>Symposium 12</b> [Hyperthermia enhancement and molecular mechanisms] S12-1~7 Chairpersons : Tetsuo Akimoto Tetsuro Tamamoto	30
11:00					11:00
30					30
12:00					12:00
30	<b>Luncheon Seminar 2</b> [Perioperative chemotherapy for curative treatment of colon cancer : XELOX/FOLFOX therapy as a second scalpel] Chairperson : Tohru Tani Speaker : Hideto Fujita <in Japanese>		<b>Luncheon Seminar 3</b> [Treatment of bone metastases from breast cancer] Chairperson : Satoshi Kokura Speaker : Tetsuya Taguchi <in Japanese>		30
13:00					13:00
30	<b>Symposium 8</b> [Hyperthermia and immunotherapy] S08-1~5 Chairpersons : Milton B. Yatvin Sharon S. Evans	<b>Symposium 10 (ICHO-BSSR* joint symposium)</b> [ICHO-BSSR joint symposium: Heat shock factors, heat shock proteins and cancer] S10-1~5 Chairpersons : Len Neckers Toshihiko Torigoe	<b>Summary 1</b> [Medicine (Med, Clinical Results)] SU1-1~5 Chairperson : Yoshiaki Tanaka	<b>Summary 2</b> [Basic (Physics)] SU2-1~3 Chairperson : Koichi Ito	30
14:00					14:00
30				<b>Summary 3</b> [Basic (Biology)] SU3-1~4 Chairperson : Takeo Ohnishi	30
15:00					15:00
30	<b>Short Sightseeing</b> 15:15-17:00 See page 6	<b>Poster-Short Oral presentation (Japanese)</b> 01 : Pj-01~09 Chairperson : Yoshio Tamaki 02 : Pj-10~18 Chairperson : Koh Tsuji 03 : Pj-19~26 Chairperson : Atsushi Toki	<b>Award Ceremony of ICHO2012 and Closing Remarks</b>		30
16:00					16:00
30				<b>Young Investigator Award Ceremony</b> <b>Poster Presentation Award Ceremony:</b> Physics & Engineering/ Biology/ Medicine Chairperson: Koichi Ito	30
17:00				<b>Informa/Yamamoto Editor's Award Ceremony:</b> Physics & Engineering/ Biology/ Medicine Chairperson: Mark W Dewhirst	17:00
30				<b>Message from the next President of ICHO</b> not yet decided	30
18:00				<b>Message from the next President of JCTM</b> Iwai Tohnai	18:00
30	<b>Room P 17:30~18:30</b> Poster Viewing & Discussion	<b>JSTM General Meeting</b>		<b>Closing Remarks</b> Toshikazu Yoshikawa Takeo Ohnishi	30
21:00	<b>Banquet</b>				21:00

# Acknowledgments

The 11th International Congress of Hyperthermic Oncology & The 29th Japanese Congress of Thermal Medicine (ICHO&JCTM 2012) gratefully acknowledges the generous help of the following companies and organizations.

Without their sponsorship and support, ICHO&JCTM 2012 could not have been organized.

## Sponsors

The Federation of Pharmaceutical Manufacturers' Associations of JAPAN

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(As of August 20, 2012)