The 7th Conference of The Pacific Rim Society for Fertility and Sterility (PRSFS 2009)

Annual Meeting of Taiwanese Society for Reproductive Medicine (TSRM 2009)

New Frontier in ART and Reproductive Medicine

Date
August 20-23, 2009,
Taipei, Taiwan

Venue
Taipei International Convention Center (TICC)

Co-Host Organization

Department of Health, Executive Yuan, R.O.C
Department of Health, Taipei City Government
Department of Information and Tourism, Taipei City Government
Ministry of Economic Affairs, R.O.C.
Ministry of Education, Republic of China
Ministry of Foreign Affairs, Republic of China
National Science Council

http://www.prsfs2009.org

Final Program & Abstract Book
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Dear colleagues and friends,

On behalf of the Organization Committee, it gives me great pleasure and honor to welcome you to the 7th Conference of The Pacific Rim Society for Fertility and Sterility (PRSFS) to be held at the Taipei International Convention Center (TICC), Taipei, Taiwan on August 20-23, 2009.

The 7th PRSFS is aimed at providing a platform for a world-class gathering of medical professionals to conduct in-depth discussions and share valuable information in the field. We believe the presentations will be inspiring and beneficial for all participants as many world renowned experts on reproductive medicine and assisted reproductive technology have been invited to present their latest clinical and research findings.

Without a doubt, this Conference will present a wonderful opportunity for participants from the Pacific Rim region to exchange views on recent developments and be intimately involved in useful discussions on all aspects of fertility, sterility and all the other related areas.

Your presence will add significant value to the Conference and once again, I extend my cordial welcome to you, and wish you a very productive and enjoyable experience at the Conference.

Sincerely,

Chii-Ruey Tzeng, M.D.
President
The 7th Conference of the Pacific Rim Society for Fertility and Sterility
Welcome Message from President of Taiwanese Society for Reproductive Medicine (TSRM)

Dear colleagues and friends,

It is a great honor for the Taiwanese Society for Reproductive Medicine to host the 7th Conference of The Pacific Rim Society for Fertility and Sterility (PRSFS). On behalf of the society, I would like to express my warmest welcome to all participants from the world. I believe the program and the facilities will ensure this conference fruitful and successful.

With the contribution of the president of PRSFS, Prof. Chii-Ruey Tzeng, many world-renowned experts are invited to deliver lectures in the meeting. In addition, many local outstanding scholars will give oral and poster presentations. We hope everyone can benefit a lot from the meeting in the era of economic recession.

Taipei is the political, economic, and cultural center of Taiwan. It has the tallest completed skyscraper in the world, Taipei 101; National Palace Museum, which has the largest collection of ancient Chinese artifacts; and many tourist attractions. You can also have a tour around this vibrant city while you are here.

I would like to express my appreciation to all participants in Taiwan and around the world. I hope you will have a wonderful stay in Taipei.

Sincerely,

Jiann-Loung Hwang, M.D.
President
Taiwanese Society for Reproductive Medicine
Conference Organization

Host Organization
Taipei Medical University
Taiwanese Society for Reproductive Medicine

International Organizing Committee
Kwang-Yul Cha, M.D. Korea
Tsunehisa Makino, M.D., Ph.D. Japan
Shuetsu Suzuki, M.D. Japan
Chii-Ruey Tzeng, M.D. Taiwan
Bill Yee, M.D. U.S.A
Takahide Mori, M.D., Ph.D. Japan

National Organizing Committee
Chairman Chii-Ruey Tzeng
Co-chairman Jiann-Loung Hwang
Treasurer Chi-Huang Chen
Scientific Program Chi-Hong Liu
Secretary General Chia-Woei Wang

National Advisory Board (by last name alphabetical orders)
Ming-Yang Chang Tzu-Yao Lee
Hong-Nerng Ho Chi-Hong Liu
Ko-En Huang Yung-Kuei Soong
Robert Kuo-Kuang Lee Horng-Der Soo
Maw-Sheng Lee Yu-Shih Tsai

National Board (by last name alphabetical orders)
Jong-Chou Chang Hong-Yuan Huang Jah-Yao Liu
Shen-Ping Chang Kuo-Feng Huang Juin-Huang Su
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Hsin-Fu Chen Tsung-Cheng Kuo Yung-Chieh Tsai
Ming-Jer Chen Fu-Tsai Kung Hsin-Shih Wang
Shee-Uan Chen Ying-Ming Lai Shiao-Jui Wei
Su-Chee Chen Chyi-Long Lee Kwo-Jang Wu
Jung-Hsiang Chiang Jau-Nan Lee Meng-Hsing Wu
Esther Shih-Chu Ho Su-Long Lee Ming-Yih Wu
Chao-Chin Hsu Yih-Ron Lien Chang-Sheng Yin
Fu-Jen Huang Long-Yao Lin
Official Language

English is the official language for the 7th Conference of The Pacific Rim Society for Fertility and Sterility (PRSFS 2009) & Annual Meeting of Taiwanese Society for Reproductive Medicine (TSRM 2009).

PRSFS 2009 Secretariat

c/o K & A International Co., Ltd.
7F, No. 249, Fuxing S. Rd., Sec. 1, Taipei, Taiwan
Tel: +886-2-2701-8768
Fax: +886-2-2702-2025
Email: prsfs2009@knaintl.com.tw
Website: www.prsfs2009.org

TSRM 2009 Secretariat

Taiwanese Society for Reproductive Medicine
No. 92, Jhongshan N. Rd, Sec. 2, Taipei, Taiwan
Tel: +886-2-2511-9540
E-mail: tsrm@mail.hato.com.tw
Website: www.tsrm.org.tw

General Information

Event Grounds

Taipei International Convention Center (TICC)  http://www.ticc.com.tw
No. 1, XinYi Rd., Sec. 5, Taipei 110, Taiwan R. O. C.

<table>
<thead>
<tr>
<th>Event Grounds</th>
<th>August 20</th>
<th>August 21-22</th>
<th>August 23</th>
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</thead>
<tbody>
<tr>
<td>On-site Secretariat Office</td>
<td>13:30-18:00</td>
<td>08:00-18:00</td>
<td>08:00-12:30</td>
</tr>
<tr>
<td>Registration Counter</td>
<td>13:30-18:00</td>
<td>08:00-18:00</td>
<td>08:00-12:10</td>
</tr>
<tr>
<td>Meeting Room</td>
<td>08:00-18:00</td>
<td>08:00-18:30</td>
<td>08:00-12:10</td>
</tr>
<tr>
<td>Preview Room + VIP Room</td>
<td>13:30-18:00</td>
<td>08:00-18:00</td>
<td>08:00-12:10</td>
</tr>
<tr>
<td>Poster &amp; Exhibition Area</td>
<td>08:00-18:00</td>
<td>08:00-12:10</td>
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</table>

Participant Badge

Participant badge can be collected at on-site registration counter during operation hours. It is required to wear a conference badge to access all event grounds and coffee breaks.
1F Floor Plan

Registration  Lobby of TICC
Poster & Exhibition Area  1F, Room 101
Coffee Break Area  1F, Room 101

Poster Area I for Poster code
   REB 001- 016
   GE 001- 008
   COH 001- 003

Poster Area II for Poster code
   OM 001
   SCGI 001- 005
   CV 001- 004
   CP 001- 012
   LBC 001- 014

A01 Merck Serono
B02 Ferring Pharmaceuticals Ltd.
B03 Schering Plough
C05 Tseng Hsiang Life Science
C06 Research Instruments Limited
C07 Healthbanks Co., Ltd.
C08 Cook Medical
C09 S.2 INTERNATIONAL PHARMA CO. LTD.
C10 Takeda Pharmaceutical Taiwan Limited.
C11 Centapharm Inc.
2F Floor Plan

- Preview Room + VIP Room: 2F, Room 202B
- On-site Secretariat: 2F, Room 202A
- Meeting Room: 2F, Room 201 BCDE
Instructions for Speakers and Poster Presenters

Oral Presentation

- Make sure you TEST your PowerPoint files, videos and disks before you bring it to the conference.
- Please TEST and HAND IN your PowerPoint files preferably 24 hours before your presentation at Preview Room located in the 2F, Room 202B of Taipei International Convention Center (Please refer to the floor plan to find the exact location of the room).
- Preview Room operation hours: August 20 13:30-18:00
  August 21-22 08:00-18:00
  August 23 08:00-12:10

We strictly ask you to use our laptop on site for time saving and stable computer system. Your own laptop should be there just in case.

Poster Presentation

<table>
<thead>
<tr>
<th>Location</th>
<th>1F, Room 101, Taipei International Convention Center</th>
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<tbody>
<tr>
<td></td>
<td>Poster Area I for Poster code</td>
</tr>
<tr>
<td></td>
<td>REB 001-016</td>
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<tr>
<td></td>
<td>GE 001-008</td>
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<tr>
<td></td>
<td>COH 001-003</td>
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<td>Poster Area II for Poster code</td>
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<td>OM 001</td>
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<td>CV 001-004</td>
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<td>ART 001-008</td>
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<td></td>
<td>CP 001-012</td>
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<tr>
<td></td>
<td>LBC 001-014</td>
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</tbody>
</table>

| Mounting & Removal   | Mounting: Starts from 08:00 on August 21            |
|                      | Exhibition: 08:00-18:00 on August 21-22              |
|                      | 08:00-12:10 on August 23                              |
|                      | Removal: Starts from 12:10 on August 23              |

| Poster Board Size    | 180cm (H) X 90cm (W)                                  |

| Office Supplies      | Necessary office supplies for mounting will be provided on site. |
|                      | Please note that staple guns are not allowed for the poster presentation. Conference will provide free masking tape for all poster presenters. |

- In the event of posters not removed after 13:30 on August 23, the Conference Organizer will remove them without further notice.

Poster Award

The Conference will award Outstanding Poster Presentation at the Closing Ceremony on August 23. We strongly encourage all poster presenters to stay on-site to receive the award and scholarship.
Acknowledgement

The 7th Conference of The Pacific Rim Society for Fertility and Sterility (PRSFS 2009) & Annual Meeting of Taiwanese Society for Reproductive Medicine (TSRM 2009) would like to extend our sincere appreciation to the following supporters, sponsors and exhibitors. (By Company Alphabetical order.)

Sponsors and Exhibitors

- Arison Biotech Co., Ltd
- Bionet Corporation
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- Leader Book
- Merck Serono
- Purzer Pharmaceutical Co., Ltd
- Research Instruments Limited
- Hong U Scientific Corp.
- S_2 International Pharma Co., Ltd.
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- Synmosa Biopharma Corporation
- Takeda Pharmaceutical Taiwan Limited
- Ton-Yen General Hospital
- Tseng Hsiang Life Science

Government Supporters

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- Department of Health, Taipei City Government
- Department of Information and Tourism, Taipei City Government
- Ministry of Economic Affairs, R.O.C.
- Ministry of Education, Republic of China
- Ministry of Foreign Affairs, Republic of China
- National Science Council
Welcome Reception
Time: 19:00 – 21:30 Friday, August 21, 2009
Place: 3F, Banquet Hall, TICC
- To enter the reception ground, you are required to show the conference badge.

Gala Dinner
Time: 18:30-22:00 Saturday, August 22, 2009
Cocktail: 18:30-19:00 / Dinner: 19:00-22:00
Place: 3F, Grand Ballroom I, Grand Hyatt Taipei
- Gala Dinner voucher required to enter the venue.

Conference Morning Excursion (Complimentary)
Date: Friday, August 21, 2009
Pick-up: 09:00 at Taipei International Convention Center Lobby
Duration: 4 hrs
Introduction: National Palace Museum → Martyr’s Shrine → Chiang Kai-shek Memorial Hall → Chinese Temple

Conference Afternoon Excursion (Complimentary)
Date: Sunday, August 23, 2009
Pick-up: 13:30 at Taipei International Convention Center Lobby
Duration: 4 hrs
Introduction: Sanhsia Tsushih Temple → Old Street in Sanhsia → Yingko’s Pottery Factory & Showroom → Pottery Street in Yingko
- Please confirm your booking at Conference tour desk located on 1F Registration Counter.
## Optional Tours

### T1 Chiufen Village & Northeast Coast Tour (August 21)
- **Pick-up:** 13:30 at Taipei International Convention Center Lobby
- **Duration:** 4 hrs
- **Introduction:** Chiufen Village → Chinkuashih Village → Pitou Cape → Nanya Rock Formations → Bay of Two Colors
- **Fare:** NT$ 1,200 per person

### T2 Half Day Northern Coast Tour (August 22)
- **Pick-up:** 09:00 at Taipei International Convention Center Lobby
- **Duration:** 4 hrs
- **Introduction:** Keelung City → Keelung Harbour → Buddha Statue → Yehliu Park → Queen’s Head
- **Fare:** NT$ 1,100 per person

### T3 YanMingShan National Park & Hot Spring Tour (August 22)
- **Pick-up:** 13:30 at Taipei International Convention Center Lobby
- **Duration:** 4 hrs
- **Introduction:** YangMingShan National Park → Hot Spring Bath
- **Fare:** NT$ 1,400 per person

### T4 Taipei Treasure Tour (August 23)
- **Pick-up:** 09:00 at Taipei International Convention Center Lobby
- **Duration:** 4 hrs
- **Introduction:** Fort Santo Domingo → Old Street of Tamsui.
- **Fare:** NT$ 1,100 per person

- The above rate includes English-speaking guide, air-conditioned coach

- Please confirm your booking with conference tour desk located on 1F Registration Counter.
Kwang-Yul Cha (Korea)
Professor & Chairman
Department of Obstetrics and Gynecology
CHA University College of Medicine Seoul, Korea

Dr. Cha is Professor of the Department of Obstetrics and Gynecology of CHA University College of Medicine since 1998 and Chairman of CHA Health Systems since 2005. He graduated from the Yonsei University Medical School in 1977 and postdoctorally trained in University of Southern California and Columbia University. His research focuses on maturation and cryopreservation of the human oocyte. He also focuses on the human stem cells and has recently established the CHA Stem Cell Research Institute for the study of regenerative medicine using embryonic and adult stem cells.

Chawnshang Chang (USA)
George Hoyt Whipple Distinguished Professor
Department of Pathology and Urology
University of Rochester, New York, USA

Chawnshang grew up in Taiwan, receiving his Bachelor of Science degree from the National Taiwan University in 1978. Like many students before him, he made the trip across the Pacific Ocean to enter graduate school in the U.S., and earned his Ph.D. degree from the University of Chicago in 1985. As Professor Shutsung Liao's student, he cloned and characterized two androgen target genes. The first was Glutathione S-transferase, which represented the first isolated androgen-repressed gene (JBC, 1987) and the second was Spermine-binding protein, the first isolated androgen early-response gene (JBC, 1987). With this solid training in cloning techniques and the encouragement from his mentor, Dr. Liao, he remained as a post doctorate fellow in Dr. Liao's lab to investigate what was the biggest challenge in the field of Andrology; the cloning of the androgen receptor. In 1988, Chawnshang succeeded in becoming the first scientist to clone the complete human and rat androgen receptors. (Science, 1988; PNAS, 1988). He then applied recombinant techniques to overexpress a large quantity of androgen receptor and used it to produce the first monoclonal antibody to the androgen receptor (Endo., 1989). The successful cloning of the androgen receptor and the generation of the first androgen receptor monoclonal antibody was not only truly groundbreaking, but also represented one of the most important contributions in the field of Andrology.

Shee-Uan Chen (Taiwan)
Associate professor and Attending doctor
Department of Obstetrics and Gynecology College of Medicine,
National Taiwan University, Taipei, Taiwan

Resident, Chief resident, and Research fellow of reproductive medicine, National Taiwan University Hospital Research fellow of reproductive medicine, Department of Obstetrics and Gynecology, Cornell University Medical Center, New York, USA
Ri-Cheng Chian (Canada)
Assistant Professor
Division of Reproductive Biology
Department of Obstetrics & Gynecology
McGill University Montreal, Quebec, Canada

Currently, Dr. Chian is Scientific Director at McGill Reproductive Center, McGill University Health Center (MUHC), and Assistant Professor at Division of Reproductive Biology, Department of Obstetrics and Gynecology, McGill University, Montreal, Canada. Dr. Chian also is an Honorary Visiting Professor at Shantou University of School Medicine, Nanjing Medical University and Anhui Medical University as well as Peking University Third Hospital, China. Dr. Chian published numerous research papers and presentations in refereed journals and international/regional conference. Dr. Chian edited and editing two books, and contributed many book chapters. Dr. Chian is an Associate Editor for the journal, Human Reproduction, and acting as a reviewer for many scientific journals, including Fertility and Sterility, Reproduction, Biology of Reproduction, Reproductive BioMedicine Online, and The Lancet. Dr. Chian is one of founder members for Global Chinese Association for Reproductive Medicine (GCARM) from 2005, a member of Board Directors of International Society for In Vitro Fertilization (ISIVF) from 2008 and program chair for Chinese Special Interesting Group (ChSIG) in American Society for Reproductive Medicine (ASRM) in 2008.

Keith Gordon (USA)
President
Global Pharmaceutical Marketing Solutions, Gordon Squared Inc., USA

1986-1988 Postdoctoral Fellow, Reproductive Endocrinology, The Jones Institute for Reproductive Medicine, Eastern Virginia Medical School, Norfolk, Virginia 23507.
1988-1989 Senior Staff Fellow, Reproductive Endocrinology, The Jones Institute for Reproductive Medicine, Eastern Virginia Medical School, Norfolk, Virginia 23507.
1989-1991 Instructor, The Jones Institute for Reproductive Medicine, Department of Obstetrics and Gynecology, Eastern Virginia Medical School, Norfolk, Virginia 23507.
1991-1997 Assistant Professor, The Jones Institute for Reproductive Medicine, Department of Obstetrics and Gynecology, Eastern Virginia Medical School, Norfolk, Virginia 23507.
1997-1998 Associate Professor, The Jones Institute for Reproductive Medicine, Department of Obstetrics and Gynecology, Eastern Virginia Medical School, Norfolk, Virginia 23507.

Kenichiro Hata (Japan)
Director
Department of Maternal Fetal Biology
National Research Institute for Child Health and Development, Tokyo, Japan

After receiving a medical degree from Kyushu University School of Medicine in 1992, Kenichiro Hata became a clinical fellow in the school’s Department of Obstetrics and Gynaecology and was awarded a doctorate in 1998. He conducted his postdoctoral studies at Massachusetts General Hospital, Harvard Medical School, USA from 1999 to 2002, returned to Japan to take up an assistant professor position in the Division of Human Genetics at the National Institute of Genetics, Japan. Since April 2007, he is a director of Department of Maternal-Fetal Biology of National Research Institute for Child Health and Development (NRCHD), Japan. His research interests focus on epigenetic regulations of gametogenesis, embryogenesis and placentation. Also, epigenetic changes in aged oocytes and rejuvenation of epimutations (epigenetic defects) are challenging project of his team.
Pak-Chung Ho (Hong Kong)
Professor & Chair
Department of Obstetrics and Gynecology,
The University of Hong Kong, China

Professor P. C. Ho is the Chair Professor of Obstetrics and Gynaecology, Director of Centre of Reproduction, Development and Growth, and Associate Dean in Clinical Affairs in Faculty of Medicine, University of Hong Kong. He is in charge of the assisted reproduction program at the University of Hong Kong / Queen Mary Hospital Centre of Assisted Reproduction and Embryology. His research interests include medical abortion, emergency contraception, infertility and assisted reproduction. He has published more than 300 papers in peer-reviewed journals. He is serving on many national and international professional bodies. He is currently the Chairman of World Health Organization Research Group on Postovulatory Methods of Fertility Regulation, President-Elect of Asia-Oceania Federation of Obstetrics and Gynaecology, and President of Family Planning Association of Hong Kong.

Aaron J. W. Hsueh (USA)
Professor
Division of Reproductive Biology
Department of Obstetrics and Gynecology
Stanford University School of Medicine, California, USA

Dr. Aaron Hsueh is an ovarian physiologist working on granulosa and oocyte functions. He has used bioinformatic approaches to set up the Ovarian Kaleidoscope Database (http://ovary.stanford.edu) to serve the ovarian research community.

Yen-Hua Huang (Taiwan)
Associate Professor
Department of Biochemistry
Graduate Institute of Medical Sciences
Center for Reproductive Medicine
Taipei Medical University, College of Medicine, Taipei, Taiwan

Dr. Huang’s research interests are focusing on signaling which regulates the pluripotency of stem cells and cancer stem cells. By using the germline stem cells as a model, her research team has recently established a serum-free stem cells-niche co-culture system and uncovered the possible endocrine signal pathway involved in the germ cell pluripotency. Advanced studies regarding of the transition mechanisms involved in stem cells into cancer stem cells are highly interested.
Mark Hughes (USA)
Director
Genesis Genetics Institute (GGI)
Applied Genomics Technology Center, Detroit, Michigan, USA

Professor Mark Hughes graduated in Biology and Chemistry from St. John's University, and then received a Masters in Biophysics at Stanford University, followed by a Ph.D. in Molecular Biochemistry at the University of Arizona Medical Center. He continued his training at the Baylor College of Medicine in Houston as a postdoctoral fellow with Bert OMalley, where his pivotal work was published in Science and Nature and involved the cloning of the vitamin D and progesterone receptors and characterization of the first mutations found in human gene transcription factors. Following this training Hughes completed his M.D. at Baylor, followed by house staff training in Internal Medicine and clinical subspecialty training at Duke University. He then returned as junior faculty to Baylor's newly formed Genetics Institute led by Thomas Caskey. Among his accomplishments was the realization that single cells could be molecularly data mined for diagnostic advantage: This led to a multi-year collaboration with IVF clinicians and embryologists at the Hammersmith Hospital in London; the field of Preimplantation Genetic Diagnosis was born. In 1993 Hughes' research was recognized by Science magazine as being one of the "ten most significant advances" in all of science that year; spanning all the physical, biological and mathematical sciences for that year.

Osamu Ishihara (Japan)
Professor & Chair
Department of Obstetrics & Gynaecology
Saitama Medical University, Saitama, Japan

Professor Osamu Ishihara clinically works with reproductive endocrinology and infertility therapy. He has a long-standing interest in the various aspects of infertility, especially on ovulation induction and embryo implantation. He also takes care of many patients with non-typical sexual development or with gender identity disorder. His own basic research objects are arachidonate metabolites, including prostaglandins and isoprostanes, especially in reproductive physiology. In addition, he recently works as a part-time anthropologist with his colleague anthropologists researching socio-cultural issues in infertility therapy and related areas in their main field of Nordic countries.

Bunpei Ishizuka (Japan)
Professor & Chair
Department of Obstetrics and Gynecology
St. Marianna University School of Medicine, Kawasaki, Japan

1971 M. D.: Showa University School of Medicine
1979 Doctor of Medical Science: Keio University
1979-81 Research Fellow: Dept. Reproductive Medicine, University of California, San Diego, USA
1982- Assistant Professor, Dept. Ob / Gyn, St. Marianna University School of Medicine
1993- Associate Professor, Dept. Ob / Gyn, St. Marianna University School of Medicine
2000- Present Professor and Chair, Dept. Ob / Gyn, St. Marianna University School of Medicine
S. Samuel Kim (USA)
Division Director, REI
Department of Obstetrics and Gynecology
University of Kansas, Kansas City, USA

Dr. S. Samuel Kim is an internationally renowned specialist in reproductive endocrinology and infertility. His reputation as a pioneer in ovarian tissue cryopreservation and transplantation has been recognized worldwide. He spearheaded the founding of the International Society for Fertility Preservation and has been serving as Executive Director. After completing his OB/GYN residency at Temple University in Philadelphia, Dr. Kim pursued specialty training in Reproductive Endocrinology at the Mount Sinai Medical Center and University of Washington. In addition, he went to the United Kingdom for a postdoctoral research fellowship at the University of Leeds. He served as an NIH scholar while holding a faculty position in the division of reproductive endocrinology and infertility at the University of Washington. After coming to KU, Dr. Kim practiced medicine in California as a member of the Center for Reproductive Medicine at the Cedars-Sinai Medical Center and held a clinical faculty appointment at UCLA and UC-Irvine. He received numerous scientific awards and has been lecturing around the world. Dr. Kim has published extensively in many prestigious journals including Nature and authored chapters for textbooks.

Hung-Chih Kuo (Taiwan)
Assistant Research Scientist
Stem Cell Program
Genomics Research Center
Institute of Cellular and Organismic Biology
Academia Sinica, Taipei, Taiwan

Dr. Kuo received his Ph.D. from King’s College London in 2001, followed by his post-doctoral research in the Oregon National Primate Research Center where he was appointed as an ONPRC staff scientist in 2003. He is currently an assistant research scientist at the Stem Cell Program of Academia Sinica. Dr. Kuo’s research interests are preimplantation development and pluripotent stem cells.

Masashige Kuwayama (Japan)
Visiting Professor
Azabu University
Scientific Director
Kato Ladies Clinic, Tokyo, Japan

Dr. Kuwayama is scientific Director of the World largest IVF center doing 21,000 cycles per year with 55 embryologists, and also R & D lab. Director with 11 scientists studying vitrification, nuclear transfer, oo- and spermato- genesis, decoding DNA of Y chromosome, etc. He obtained the first calves after vitrification of IVF blastocysts (1991), MII oocytes (1992) in the world. He also first succeeded to establish vitrification technique of porcine pre-hatching blastocysts and oocytes (1997, 1998). Dr. Kuwayama developed an efficient vitrification method (Cryotop method) for human oocytes and embryos (2000), and established the actual first human oocytes bank and obtained the first vitrification baby in Japan (2002) and USA (2003). Dr. Kuwayama and his colleagues have vitrified so far more than 30,000 human oocytes and embryos in our clinic. And Cryotop method is now used in >700 clinics in 12 countries.
Koichi Kyono (Japan)
President
Department of Obstetrics and Gynecology
Kyono ART Clinic Sendai, Miyagi, Japan

Dr. Kyono graduated from Fukushima Medical College, receiving his MD in 1978 and his PhD in 1984 in obstetrics and gynecology (reproductive biology) from Tohoku University. He was a member of the Tohoku University team that succeeded in producing the first IVF pregnancy and delivery in Japan in 1983, and also succeeded in the first delivery following oocyte cryopreservation in Japan in 2001 (Ladies Clinic Kyono). He is currently President of Kyono ART Clinic in Sendai. Dr. Kyono’s long-term research interests include studies on cryopreservation (oocyte, embryo, ovarian tissue, and testicular spermatozoa), in-vitro maturation, in-vitro culture, andrology (MD-TESE, IMSI), and endocrinology (ovarian stimulation).

Peter Leung (Canada)
Professor
Associate Dean of Medicine
Department of Obstetrics & Gynecology
University of British Columbia, Vancouver, Canada

Dr. Leung is Professor of Obstetrics and Gynaecology, as well as Associate Dean of Medicine at the University of British Columbia. He has received numerous honours and awards, including MRC Scientist Award from the Medical Research Council of Canada, a Distinguished Scientist Award from the Child and Family Research Institute, and a Distinguished Scholar Award from the Michael Smith Foundation for Health Research. He has served as President of the Canadian Fertility and Andrology Society, Director of the Society for the Study of Reproduction, Director of the Ovarian Workshops in the USA, Temporary Advisor to the World Health Organization, Honorary Professor of the Institute of Zoology in Chinese Academy of Science in Beijing, Honorary Professor of the Zhejiang University, Honorary Member of the Taiwan Society for Reproductive Medicine, and Fellow of the Canadian Academy of Health Sciences.

Juergen Liebermann (USA)
Director
IVF Laboratory
Fertility Centers of Illinois, Illinois, USA

Dr. Juergen Liebermann, Ph. D., HCLD (ABB) obtained his Ph. D. in Agricultural Science at the Technical University of Munich-Weihenstephan, Germany. Since then he has been directing IVF Labs and currently he is the IVF Laboratory Director of the Fertility Centers of Illinois performing 2,000 oocyte retrieval per year. He has authored many papers in the area of reproductive medicine. More recently Dr. Liebermann and Dr. Tucker edited and completed a book entitled “Vitrification in Human Assisted Reproduction”. With his post-doctoral thesis in 2004 he qualified as a university lecturer in Experimental Reproductive Medicine at the Bavarian University of Wuerzburg, Germany. He is a member of SSR, ASRM, ESHRE, ASA, and ABB. He serves as an ad Hoc reviewer for Fertility and Sterility, Human Reproduction, Reproductive Biomedicine Online, Reproduction, European Journal of Obstetrics & Gynecology and Reproductive Biology, Journal of Assisted Reproduction and Genetics, and Journal of Veterinary Medicine and Animal Health.
Kui Liu (Sweden)
Associate Professor
Department of Medical Biochemistry and Biophysics
Umea University, Sweden

Kui Liu graduated from Shandong University, China, in 1990. After his training as a master’s student in Chinese Academy of Sciences, he joined Umea University, Sweden in 1993 for his Ph. D. education and obtained his doctoral degree in 1999. After that he spent 2 years at Harvard Medical School as a postdoc researcher, and another 2 years as a senior scientist at Serono Inc. (Boston). In 2003, Kui Liu rejoined Umea University as an assistant professor. He is now associate professor at Umea University. His work focuses on signal transductions in primary oocytes of immature follicles.

Shin-Yong Moon (Korea)
Professor
Department of Obstetrics and Gynecology
College of Medicine
Seoul National University, Seoul, Korea

Shin-Yong Moon is currently Professor of Obstetrics and Gynecology, College of Medicine, Seoul National University Hospital, and Director of the Institute of Reproductive Medicine and Population, Medical Research Center, at Seoul National University. Completing all the necessary courses and requirements for Obstetrics and Gynecology specialists in Seoul National University Hospital, he started to study “In Vitro Fertilization Program” at Jones Institute for Reproductive Medicine, Norfolk, Virginia in United States in 1983. After coming back to Seoul, he could have first successful IVF baby in Korea in 1985. During the last 20 years he studied Cytogenetics, Reproductive Endocrinology and Infertility and Embryonic Stem Cell. In 2001 he succeeded in establishment of “Human Embryonic Stem Cell” from frozen 2 pronuclear stage cryopreserved embryos in his laboratory.

Yoshiharu Morimoto (Japan)
Director
IVF Namba Clinic, Osaka, Japan

Professor Yoshiharu Morimoto is currently Chief Executive Officer and Chairman of IVF JAPAN group which includes two infertility centers of IVF Namba Clinic and IVF Osaka Clinic running 5,000 periods of IVF cycles in total. He is active in the research area and his main research field is ultrastructural study on reproduction and concerns on oocytes maturation mechanism. He also practices the integrated medicine including counseling, Quiong, acupuncture, aromatherapy.
Tetsunori Mukaida (Japan)
Assistant Director
Hiroshima HART Clinic, Hiroshima, Japan

Dr. Mukaida completed his certified training in Obstetrics and Gynecology at Kochi Medical School and Hospital, Japan in 1990. During that training, he studied abroad to the University of Miami School of Medicine, in the Biochemistry and Molecular Biology Department. His area of study was the mechanism of ovulation related to serine protease (Plasminogen, collagenase). Simultaneously he joined the IVF Programme in the Reproductive Endocrinology Department at the same institution as an embryologist. After completed training as a certified OB & GYN, He had a position as lab director in a private fertility clinic, the Diamond Institute for Infertility in New Jersey, USA. A period as a lab director enabled Dr. Mukaida to study assisted reproductive technology. For the last 7 years, he worked as clinical director of the Hiroshima HART Clinic, where he was responsible for managing assisted reproduction for 600 cycles per year. Dr. Mukaida’s main present interest lies in vitrification for gametes and embryos: he is also responsible for the two first reports in the world successful birth from vitrified embryos. Both of these were day 2-3 embryos cryopreserved by vitrification with straw, and the blastocysts cryopreserved by ultra-rapid vitrification using cryoloop technique.

Jie Qiao (China)
Professor
Department of Obstetrics & Gynecology
Peking University Third Hospital, Guangzhou, China

Professor Qiao is Chief Physician and head at the Department of Obstetrics and Gynecology, Peking University Third Hospital, Beijing. She specializes in diagnoses and management of infertility and reproductive endocrine diseases. She is on the editorial board of a number of Chinese medical journals. Her work is in clinical treatment, education and medical researches within the fields of Obstetrics and Gynecology with a research direction focusing towards the diagnoses and treatment for diseases of Reproductive Endocrine, such as management to Polycystic Ovary Syndrome, endometrium abnormality and infertility as well as reproductive treatments. Supported by several research funds, she has systematically studied on PCOS and infertility, published more than 100 papers and given many invited presentations at international or national conferences.
Zev Rosenwaks (USA)
Professor
Department of Obstetrics and Gynecology
Director
Center for Reproductive Medicine and Infertility (CRMI)
Weill Cornell Medical Center
Cornell University, New York, USA

Zev Rosenwaks, M.D. is the Director of The Center for Reproductive Medicine and Infertility, the world-renowned infertility clinic at New York Weill Cornell. He is Professor of Obstetrics and Gynecology at Weill Medical College of Cornell University and was appointed an endowed professorship in 1994 - the Revlon Distinguished Professor of Reproductive Medicine in Obstetrics and Gynecology. Dr. Rosenwaks is a diplomate of the American Board of Obstetrics and Gynecology and received his subspecialty certification in Reproductive Endocrinology in 1981. He is a noted world authority on reproductive endocrinology and infertility and one of the founding pioneers in the assisted reproductive technologies. Dr. Rosenwaks has had quite a prolific career -- he has authored over 300 scientific papers, 58 book chapter and 6 textbooks.

Catherine Racowsky (USA)
Associate Professor
Department of Obstetrics and Gynecology
Brigham & Women’s Hospital
Harvard Medical School, Boston, USA

Dr. Catherine Racowsky is Director of the ART Laboratory at Brigham & Women’s Hospital in Boston, Massachusetts and an associate professor of Obstetrics and Gynecology at Harvard Medical School. Having graduated with a Bachelor of Arts in Zoology at the University of Oxford, she received her Ph. D. in Reproductive Physiology from the University of Cambridge in England and did post-doctoral fellowships at Harvard Medical School, first with Dr. Koji Yoshinaga, and then with Dr. John Biggers. Dr. Racowsky’s research interests include environmental factors affecting egg quality, the molecular and cellular mechanisms underlying oocyte maturation in vivo and in vitro, and methodologies for assessing human embryo developmental competency. She has authored over 60 peer-reviewed papers on various aspects of mammalian oocyte and embryo physiology, and has published numerous news releases and book chapters. She has been an invited speaker at many regional, national and international ART meetings as well as participated on several government oversight committees.

Luk Rombauts (Australia)
Professor
Royal Australian and New Zealand College of Obstetricians and Gynaecologists, Australia

After spending 2 years in the IVF unit of Prof. Gordts, Prof. Brosens and Dr. Campo at the Leuven Institute of Fertility and Embryology (Belgium), Dr. Rombauts returned to Melbourne in 1998 to obtain his Certificate of Reproductive Endocrinology and Infertility (CREI). He is now accredited by the Royal Australian and New Zealand College of Obstetricians and Gynaecologists as a training supervisor for the CREI. Dr. Rombauts consults in Richmond, Clayton, Frankston and Seymour. He also directs clinical research projects at Monash IVF and has a special interest in mechanisms of embryo implantation. He is a member of the Senior Medical Staff at Monash Medical Centre where he holds specialist appointments as consultant in the Reproductive Biology Unit and as reproductive microsurgeon. He also holds an appointment as Senior Lecturer in the Department of Obstetrics and Gynaecology at Monash University, where he is currently leading research teams involved in the study of endometriosis and female infertility. In 2002, Dr. Rombauts founded AWARE (Australian Working-party to Advance Research into Endometriosis) of which he is the current chairman. He is also a board member of the World Endometriosis Society.
Bill Yee (USA)
President
Reproductive Partners Medical Group, Inc.
Westminster, California, USA

Dr. Yee is a Founding Member of the Pacific Rim Society for Fertility and Sterility, and hosted the First Annual Meeting in Hawaii in 1996. He is in private practice with a strong academic background; serving as Assistant Professor at USC, before joining the faculty at UC Irvine from 1986 to 1996. Active in teaching, Dr. Yee is a continuing faculty member of the UC Irvine Annual OB / GYN Review Course since 1987, as well as the Annual UCLA IVF Course since 1996.

Tae-Ki Yoon (Korea)
Professor and Director
Fertility Center of CHA General Hospital
CHA University College of Medicine, Seoul, Korea

Dr. Tae-Ki Yoon graduated from the College of Medicine, Yonsei University, Seoul, Korea in 1975. During his postgraduate training, he was enrolled in the Department of Obstetrics and Gynecology, Yale University, New Haven, CT, USA. Moreover, from 1990 to the present, he has worked as a director at the Fertility Center of CHA General Hospital. On this, from 1997 to the present, he has worked as a professor at the Department of Obstetrics and Gynecology, CHA University College of Medicine, Furthermore, he has won the Plenary Prize Paper at the IFFS 1998 / 54th Annual Meeting of ASRM (Title: Laparoscopic Tubal Reanastomosis: Fertility Outcome in 202 Cases) in 1998 and five more DISTINGUISHED scientific awards including in oocyte cryopreservation.

Canquan Zhou (China)
Professor
Department of Obstetrics & Gynecology
First Affiliated Hospital of Sun Yat-sen University, Guangzhou, China

In 1983, award BA from Sun Yat-sen University of Medical Science. After that, worked in the Department of Gynecology & Obstetrics, First Affiliated Hospital, Sun Yat-sen University. In 1988, got the MA from Sun Yat-sen University of Medical Science. From Feb, to Nov. 1996, advanced study in Department of Gynecology & Obstetrics, Liverpool Hospital—affiliated hospital of University of New South Wales, Australia and City West IVF Reproductive Center. From Jan. 2006 to Jan. 2007: visiting scholar at Germany’s University of Bonn. Researches were mainly in the field of Assisted Reproductive Medicine. Up to now, Dr. Zhou has taken charge of more than 30 research projects. His main research directions are including IVF clinic technologies, PGD, human embryonic stem cell and female fecundity preservation. Dr. Zhou has published more than 120 relative papers in different journals, and got some awards.
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<td><strong>Session 7</strong> Trends in ART Rm 201BCDE</td>
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<td><strong>Session 8</strong> Clinical Problems in Infertility and ART Rm 201BCDE</td>
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<td>S2-1 Koichi Kyono (Japan)</td>
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**Additional Events:**
- **Opening Remarks** Rm 201BCDE
- **Lunch Symposium (Schering Plough)**
- **Coffee Break**
- **Registration** (1F Registration Area & Complimentary Conference Morning Excursion)
- **Registration & Exhibition (08:00-18:00)**
- **Complimentary Conference Afternoon Excursion**
- **Annual Meeting of TCRM 2009 (Rm 102)**
- **Gala Dinner** (3F, Grand Ballroom I, Grand Hyatt Taipei)
## Scientific Program

### Opening Remarks
13:20 - 13:30 August 21 (Friday)  
[Rm 201BCDE]

### Session 1: Reproductive Endocrinology and Biology
13:30 - 15:30 August 21 (Friday)  
[Rm 201BCDE]

Moderators: Tsunehisa Makino / Yung-Kuei Soong

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<thead>
<tr>
<th>Time</th>
<th>S1-1</th>
<th>ANDROGEN RECEPTOR ROLES IN MALE AND FEMALE FERTILITY</th>
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<tr>
<td>13:30-14:00</td>
<td>ANDROGEN RECEPTOR ROLES IN MALE AND FEMALE FERTILITY</td>
<td>Chawnshang Chang, Department of Pathology and Urology, George Whipple Laboratory for Cancer Research, University of Rochester Medical Center, United States</td>
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<tr>
<td>14:00-14:30</td>
<td>OVARIAN KALEIDOSCOPE DATABASE</td>
<td>Aaron J. Hsueh, Division of Reproductive and Stem Cell Biology, Department of Ob/Gyn, Stanford University, United States</td>
</tr>
<tr>
<td>14:30-15:00</td>
<td>BIOLOGICAL ACTIONS OF GNRH IN IMPLANTATION</td>
<td>Peter C. K. Leung, Department of Obstetrics and Gynecology, Child and Family Research Institute, University of British Columbia, Canada</td>
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<tr>
<td>15:00-15:30</td>
<td>MELATONIN AND OVARIAN FUNCTION: MELATONIN SYNTHESIS IN OOCYTE AND ITS FUNCTION</td>
<td>Bunpei Ishizuka, St. Marianna University School of Medicine, Japan</td>
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### Session 2: Gametes and Embryos
16:00 - 18:00 August 21 (Friday)  
[Rm 201BCDE]

Moderators: Bill Yee / Chi-Hong Liu

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<tr>
<th>Time</th>
<th>S2-1</th>
<th>OOCYTE ACTIVATION IN PATIENTS WITH LOW FERTILIZATION RATES AFTER ICSI</th>
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<td>16:00-16:30</td>
<td>OOCYTE ACTIVATION IN PATIENTS WITH LOW FERTILIZATION RATES AFTER ICSI</td>
<td>Koichi Kyono, Kyono Art Clinic, Japan</td>
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<td>16:30-17:00</td>
<td>EMBRYO SELECTION IN 2009</td>
<td>Catherine Racowsky, Brigham and Women’s Hospital, Harvard Medical School, United States</td>
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<td>17:00-17:30</td>
<td>PREIMPLANTATION GENETICS: TWENTY YEARS OF CLINICAL EXPERIENCE IN TESTING FOR 147 INHERITED DISORDERS IN 4,620 COUPLES</td>
<td>Mark R. Hughes, Applied Genomics Technology Center, Genesis Genetics Institute (GGI), United States</td>
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<td>17:30-18:00</td>
<td>ELECTIVE SINGLE EMBRYO TRANSFER: PAVING THE WAY FOR HIGHER OUTCOME AND LESS MULTIPLE PREGNANCIES</td>
<td>Juergen Liebermann, Fertility Centers of Illinois, United States</td>
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</table>
Session 3: Update on COH  
08:00 - 10:00 August 22 (Saturday)  
Moderators: Yu-Shih Yang / Jiann-Loung Hwang

08:00-08:30  
S3-1  
OVARIAN HYPERSTIMULATION SYNDROME: STRATEGIES FOR PREVENTION  
Zev Rosenwaks, The Center for Reproductive Medicine and Infertility, Cornell University, United States

08:30-09:00  
S3-2  
OVARIAN STIMULATION AND ENDOMETRIAL RECEPTIVITY  
Pak-Chung Ho, Obstetrics & Gynaecology, The University of Hong Kong, Hong Kong

09:00-09:30  
S3-3  
IMPACT OF GNRH ANTAGONIST ON ENDOGENOUS LH DURING CONTROLLED OVARIAN STIMULATION  
Osamu Ishihara, Department of obstetrics & Gynaecology, Saitama Medical University, Japan

09:30-10:00  
S3-4  
OVARIAN RESERVE TEST- WHAT WE HAVE LEARNED FROM ART  
Shin-Yong Moon, Department of Obstetrics and Gynecology, Seoul National University College of Medicine, Korea

10:00-10:30  
Coffee Break  
[RM101]

Session 4: Oocyte Maturation  
10:30 - 12:30 August 22 (Saturday)  
Moderators: Ko-En Huang / Milton Leung

10:30-11:00  
S4-1  
OVARIAN PARACRINE AND EMBRYONIC AUTOCRINE FACTORS FOR IN VITRO MATURATION AND FERTILIZATION OF OOCYTES  
Aaron J. Hsueh, Division of Reproductive and Stem Cell Biology, Stanford University, United States

11:00-11:30  
S4-2  
HCG PRIMING FOR IVF/M  
Ri-Cheng Chian, Department of Obstetrics and Gynecology, McGill University, Canada

11:30-12:00  
S4-3  
OOCYTE MATURATION AND MITOCHONDRIAL FUNCTION  
Yoshiharu Morimoto, The Centre of Reproduction and Infertility, IVF NAMBA CLINIC, Japan

12:00-12:30  
S4-4  
MOLECULAR MECHANISMS UNDERLYING THE ACTIVATION OF MAMMALIAN PRIMORDIAL FOLLICLES  
Kui Liu, Department of Medical Biochemistry and Biophysics, University of Umea, Sweden
Lunch Symposium by Schering Plough
Optimizing Success in Ovarian Stimulation Protocols
12:30 - 14:00 August 22 (Saturday) [3F Banquet Hall]

Moderator: Chii-Ruey Tzeng

LS-1 ORGALUTRAN, DOES IT BENEFIT THE PATIENT
Luk Rombauts, Royal Australian and New Zealand College of Obstetricians and Gynaecologists, Australia

LS-2 DEVELOPMENT OF PATIENT-CENTERED ANTAGONIST PROTOCOLS: INCORPORATION OF A SUSTAINEDFOLLICLE STIMULANT
Keith Gordon, Global Pharmaceutical Marketing solutions, President GordonSquared Inc., United States

Session 5: Stem Cells and Genomic Imprinting
14:00 - 16:00 August 22 (Saturday) [Rm 201BCDE]

Moderators: Shin-Yong Moon / Hsin-Fu Chen
14:00-14:30
S5-1 RESEARCH AND CLINICAL APPLICATION OF STEM CELLS
Kwang-Yul Cha, CHA Stem Cell Institute and Department of OB&GY, CHA University College of Medicine, Korea

14:30-15:00
S5-2 ROLES OF GENOMIC IMPRINTING IN REPRODUCTION
Kenichiro Hata, Department of Maternal-Fetal Biology, National Research Institute for Child Health and Development, Japan

15:00-15:30
S5-3 REALIZATION OF SELF-CELL TRANSPLANTATION THROUGH SINGLE BLASTOMERE DERIVED PLURIPOTENT STEM CELLS
Hung-Chih Kuo, Stem Cell Program, Genomics Research Center, Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan

15:30-16:00
S5-4 IGF-1-DEPENDENT SIGNALING IN GERM CELL PLURIPOTENCY AND TUMORIGENESIS
Yen-Hua Huang, Department of Biochemistry, Graduate Institute of Medical Sciences, Taipei Medical University, Taiwan

16:00-16:30 Coffee Break [Rm101]
Session 6: Cryobiology and Vitrification
16:30 - 18:35 August 22 (Saturday)  [Rm 201BCDE]

Moderators: Yoshiharu Morimoto / Kuo-Kuang Lee

16:30-16:55
S6-1  SUCCESSFUL VITRIFICATION OF HUMAN OOCYTES
Masashige Kuwayama, Kato Ladies’ Clinic, Japan

16:55-17:20
S6-2  SLOW FREEZING OR VITRIFICATION OF OOCYTES: THEIR EFFECTS ON SURVIVAL AND MEIOTIC SPINDLES AND THE TIME SCHEDULE FOR CLINICAL PRACTICE
Shee-Uan Chen, Department of Obstetrics and Gynecology, National Taiwan University Hospital and College of Medicine, Taiwan

17:20-17:45
S6-3  VITRIFICATION IN HUMAN A.R.T.: LESSONS FROM THE LABORATORY
Juergen Liebermann, Fertility Centers of Illinois, United States

17:45-18:10
S6-4  EFFECT OF SLUSH-NITROGEN ON THE CRYOPRESERVATION OF OOCYTES AND EMBRYOS USING VITRIFICATION
Tae Ki Yoon, Fertility Center Of Gangnam Cha Medical Center and Department of Ob & Gy, Cha University College of Medicine, Korea

18:10-18:35
S6-5  PERINATAL OUTCOME OF VITRIFIED HUMAN BLASTOCYSTS IN 9 YEARS EXPERIENCE (3601 ATTEMPTED CYCLES) INCLUDING THE INCIDENT RATE OF MONOZYGOTIC TWINNING
Tetsunori Mukaida, Hiroshima HART Clinic, Japan
Session 7: Trends In ART
08:00 - 10:00 August 23 (Sunday) [Rm 201BCDE]

Moderators: Samuel Kim / Hong-Nerng Ho

08:00-08:30
S7-1 TIME TO RE-THINK: OVARIAN TISSUE TRANSPLANTATION VS. WHOLE OVARY TRANSPLANTATION
S. Samuel Kim, University of Kansas, School of Medicine, United States

08:30-09:00
S7-2 SUCCESSFUL TRANSITION TO SINGLE EMBRYO TRANSFER IN JAPAN
Osamu Ishihara, Department of Obstetrics & Gynaecology, Saitama Medical University, Japan

09:00-09:30
S7-3 NATURAL CYCLE IVF/M
Ri-Cheng Chian, Department of Obstetrics and Gynecology, McGill University, Canada

09:30-10:00
S7-4 THE ROLE OF FETOSCOPY & FETAL REDUCTION IN MULTIPLE PREGNANCIES FROM ART
Jie Qiao, Dept. Of Obstetrics And Gynecology, Peking University Third Hospital, China

10:00-10:30 Coffee Break [Rm101]

Session 8: Clinical Problems in Infertility and ART
10:30 - 12:10 August 23 (Sunday) [Rm 201BCDE]

Moderators: Maw-Sheng Lee / Joan Garcia

10:30-10:55
S8-1 HANDLING UNEXPECTED OCCURRENCES IN THE IVF LABORATORY
Catherine Racowsky, Brigham and Women’s Hospital, Harvard Medical School, United States

10:55-11:20
S8-2 OVERCOMING DIFFICULT EMBRYO TRANSFERS - STRATEGIES AND TECHNIQUES
Bill Yee, Associate Clinical Professor, University of California, Irvine, United States

11:20-11:45
S8-3 EPIGENETICS IN ABNORMAL PREGNANCIES
Kenichiro Hata, Department of Maternal-Fetal Biology, National Research Institute for Child Health and Development, Japan

11:45-12:10
S8-4 THE VARIANCE OF ZONA BIREFRINGENCE OF OOCYTES IN DIFFERENT STAGES AND ITS POTENTIAL MECHANISMS
Canquan Zhou, First Affiliated Hospital, Sun Yat-sen University, China

Closing Ceremony
12:10 - 12:20 August 23 (Sunday) [Rm 201BCDE]