5th International Peptide Symposium

in conjunction with

47th Japanese Peptide Symposium

December 4-9, 2010

Kyoto International Conference Center

(Kyoto, Japan)

Under the Auspices of

Liaison Committee of International Peptide Societies:

- American Peptide Society
- Australian Peptide Association
- Chinese Peptide Community
- European Peptide Society
- Indian Peptide Society
- Korean Peptide Protein Society
- Japanese Peptide Society

In Cooperation with

The Pharmaceutical Society of Japan
The Chemical Society of Japan
Japan Society for Bioscience, Biotechnology, and Agrochemistry
The Japanese Biochemical Society
Protein Science Society of Japan
Japanese Society for Chemical Biology
The Society of Synthetic Organic Chemistry, Japan
Japanese Society for Proteases in Pathophysiology
Japanese Society for Bioinformatics
The Japan Branch of the International Neuropeptide Society
Center for Frontier Research in Medicinal Science, Kyoto Pharmaceutical University

CALL FOR ABSTRACTS

Supported By

The Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan
The Federation of Pharmaceutical Manufacturers’ Associations of JAPAN
Commemorative Organization for the Japan World Exposition '70
The Uehara Memorial Foundation
The Research Foundation for Pharmaceutical Sciences
Suntory Institute for Bioorganic Research (SUNBOR)
Terumo Life Science Foundation
Mochida Memorial Foundation for Medical and Pharmaceutical Research

Final Announcement

www.5ips.jp

Hosted by

Japanese Peptide Society
Greetings

It is a great pleasure and honor to host the Fifth International Peptide Symposium (5th IPS), in conjunction with the Forty-Seventh Japanese Peptide Symposium, to be held in Kyoto, Japan from December 4th to 9th, 2010. The conference is organized under the auspices of the Liaison Committee of international peptide societies, and hosted by the Japanese Peptide Society.

The Symposium will cover the wide spectrum of topics related to peptide sciences. Internationally distinguished speakers will be invited to present results of their innovative research.

The history of the International Peptide Symposium (IPS) goes back to 1997, when its first conference was held in Kyoto. The 2nd IPS was held in San Diego, U.S.A. (2001), followed by the 3rd IPS in Prague, Czech (2004), and the 4th IPS in Cairns, Australia (2007). This will be the second time for the IPS to be held in Kyoto.

Since 1997, the IPS has offered wonderful occasions to the growing number of participants from around the world. We hope you will join us in the 5th IPS to exchange the latest scientific information while renewing old friendships and establishing new ones.

We look forward to seeing you at the 5th IPS.

Yoshiaki Kiso, Chair Nobutaka Fujii, Co-Chair

Scientific Topics

1.Synthesis of Peptides
   a) Synthetic Methodology for Amino Acids, Peptides, and Proteins
   b)Peptide Ligation Technologies
   c)Synthesis of Glyco-, Lipo-, Phospho- and Sulfo-Peptides
   d)Synthesis of Peptidomimetics
   e)Peptide-based Catalysis for Asymmetric Organic Synthesis
   f)Combinatorial Technology and Peptide Library Synthesis
   g)Peptide/Protein Synthesis Using an Expanded Genetic Code
   h)Non-ribosomal Peptide Synthesis
   i)Industrial Scale Production of Peptides

2.Biology of Peptides
   a)Identification of Functional Peptides
   b)Pharmacological and Physiological Significance of Bioactive Peptides
   c)Peptides Targeting Receptors and Subsequent Signal Transduction
   d)Peptides in Immunology Including Vaccines
   e)Peptidome and Peptide Markers
   f)Post-translational Modifications of Peptides
   g)Peptide Tools in Chemical Biology
   h)Peptide-based Imaging Agents

3.Structure of Peptides
   a)Structure-Activity Relationships of Peptides
   b)Structure and Conformational Studies of Peptides
   c)Folding and Fibril Formation by Peptides
   d)Peptide Biophysics
   e)Structure of Membrane Bound Peptides and Receptors

4.Peptides as Drugs and Drug Candidates
   a)Delivery and Pharmaceutical Formulation of Peptide Drugs
   b)Cell Penetrating Peptides
   c)Clinical Use of Peptide Drugs
   d)Protease and Proteasome Inhibitors for Therapeutic Applications
   e)Peptides Against Infectious Diseases

5.Technological Advances of Peptides
   a)Peptide Probes for Biological Studies and Therapeutics
   b)Peptide and Protein Material Sciences
   c)Peptides in Food and Cosmetic Sciences
   d)Peptide Nucleic Acids (PNAs)
   e)Peptide Analysis and Separation
   f)Peptide and Protein Bioinformatics
   g)Conjugates with Peptides and Proteins for Therapeutic Applications

6.Peptide Science : History and Perspectives
Organizing Committee

Chair
Yoshiaki Kiso (Japan)

Co-Chair
Nobutaka Fujii (Japan)

Saburo Aimoto (Japan)
Kenichi Akaji (Japan)
Jane Aldrich (U.S.A.)
David Andreu (Spain)
Annette Beck-Sickinger (Germany)
Ettore Benedetti (Italy)
Virander Chauhan (India)
Michael Chorev (U.S.A.)
Gregg B. Fields (U.S.A.)
Shiroh Futaki (Japan)
Ernest Giralt (Spain)

Kyung-Soo Hahm (Korea)
Richard Houghten (U.S.A.)
Ferenc Hudecz (Hungary)
Jeffery W. Kelly (U.S.A.)
Stephen Kent (U.S.A.)
Horst Kessler (Germany)
B. Moon Kim (Korea)
Terutoshi Kimura (Japan)
Yuji Kobayashi (Japan)
Kit S. Lam (U.S.A.)
Yoon-Sik Lee (Korea)
Yan-Mei Li (China)
Keliang Liu (China)
Thomas J. Lobl (U.S.A.)
William Lubell (Canada)
Dawei Ma (China)

Jean Martinez (France)
Hisakazu Mihara (Japan)
Luis Moroder (Germany)
Tom Muir (U.S.A.)
Motoyoshi Nomizu (Japan)
Robin Offord (Switzerland)
Yoshio Okada (Japan)
Akira Otaka (Japan)
Yasuyuki Shimohigashi (Japan)
Takayuki Shioiri (Japan)
Masahiko Sisido (Japan)
Ian Smith (Australia)
James P. Tam (Singapore)
Geoffrey Tregear (Australia)
John Wade (Australia)
Rui Wang (China)

Program Committee

Chair
Yoshiaki Kiso (Japan)

Co-Chair
Nobutaka Fujii (Japan)

Saburo Aimoto (Japan)
David Andreu (Spain)
Annette Beck-Sickinger (Germany)
Ettore Benedetti (Italy)
Virander Chauhan (India)

Richard D. DiMarchi (U.S.A.)
Ben M. Dunn (U.S.A.)
Alex N. Eberle (Switzerland)
Samuel H. Gellman (U.S.A.)
Kyung-Soo Hahm (Korea)
Richard Houghten (U.S.A.)
John Jones (U.K.)
Yan-Mei Li (China)
William Lubell (Canada)
Jean Martinez (France)
Katsumi Matsuzaki (Japan)
Hisakazu Mihara (Japan)
Naoto Minami (Japan)
Tom Muir (U.S.A.)
Akira Otaka (Japan)
Yasuyuki Shimohigashi (Japan)
Ian Smith (Australia)
John Wade (Australia)

Local Organizing Committee

Saburo Aimoto
Kenichi Akaji
Ikou Fujii
Nobutaka Fujii
Koichi Fukase
Shiroh Futaki
Yoshio Hayashi
Yuji Hidaka
Hironobu Hojo
Koichi Kawasaki
Shunsaku Kimura
Terutoshi Kimura
Tooru Kimura

Yoshiaki Kiso
Yuji Kobayashi
Kentarō Kogure
Takaki Koide
Naohiro Kuriyama
Katsumi Matsuzaki
Hisakazu Mihara
Hiroyuki Minakata
Naoto Minamino
Hidehito Mukai
Hiromichi Nagasawa
Osamu Nishimura

Yoshio Okada
Koji Okamoto
Akira Otaka
Kazuki Saito
Kazuyasu Sakaguchi
Yasuyuki Shimohigashi
Takayuki Shioiri
Masahiko Sisido

Kazuhisa Sugimura
Toshifumi Takao
Hirokazu Tamamura
Tadashi Teshima
Takashii Tsuji
Motonari Uesugi
Hiroyuki Yasui
Masaaki Yoshikawa

Kazuhiro Sugimura
Toshifumi Takao
Hirokazu Tamamura
Tadashi Teshima
Takashii Tsuji
Motanari Uesugi
Hiroyuki Yasui
Masaaki Yoshikawa
**Special Guest Speakers**

Nobel Laureate 2009  
Ada Yonath (Israel)  

Nobel Laureate 2002  
Kurt Wüthrich (Switzerland)

**Distinguished Speakers**

Jane Aldrich (U.S.A.)  
Brian Austen (U.K.)  
Annette Beck-Sickinger (Germany)  
Ettore Benedetti (Italy)  
Jeffrey Bode (Switzerland)  
Virander Chauhan (India)  
David Craik (Australia)  
Philip Dawson (U.S.A.)  
Ben de Lumen (U.S.A.)  
Ben Dunn (U.S.A.)  
Charlotte Erlanson-Albertsson (Sweden)  
Ernesto Freire (U.S.A.)  
Lloyd Fricker (U.S.A.)  
Samuel Gellman (U.S.A.)  
Ernest Giralt (Spain)  
Gilles Guichard (France)  
Kyung-Soo Hahn (Korea)  
Itaru Hamachi (Japan)  
Michael Hanley (U.S.A.)  
Hironobu Hojo (Japan)  
Ferenc Hudecz (Hungary)  
Yasuhiro Kajihara (Japan)  
Kenji Kangawa (Japan)  
Abba Kastin (U.S.A.)  
Toru Kawakami (Japan)  
Stephen Kent (U.S.A.)  
Horst Kessler (Germany)  
Lei Liu (China)  
William Lubell (Canada)  
Dawei Ma (China)  
Jean Martinez (France)  
Morten Meldal (Denmark)  
Naoto Minamino (Japan)  
Luis Moroder (Germany)  
Hidehito Mukai (Japan)  
Kazuwa Nakao (Japan)  
Akira Otaka (Japan)  
Harold Scheraga (U.S.A.)  
Joel Schneider (U.S.A.)  
Yechiel Shai (Israel)  
Yasuyuki Shimohigashi (Japan)  
Masahiko Sisido (Japan)  
Ian Smith (Australia)  
Hiroaki Suga (Japan)  
Jonathan Sweedler (U.S.A.)  
James Tam (Singapore)  
Paul Wender (U.S.A.)

**Tentative Schedule**

<table>
<thead>
<tr>
<th>Time</th>
<th>Dec. 4 (Sat)</th>
<th>Dec. 5 (Sun)</th>
<th>Dec. 6 (Mon)</th>
<th>Dec. 7 (Tue)</th>
<th>Dec. 8 (Wed)</th>
<th>Dec. 9 (Thu)</th>
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</thead>
<tbody>
<tr>
<td>Morning</td>
<td>09:00</td>
<td>Session 1</td>
<td>09:00</td>
<td>Session 5</td>
<td>09:00</td>
<td>Session 9*</td>
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<tr>
<td></td>
<td>10:50</td>
<td>Session 2</td>
<td>10:50</td>
<td>Session 6</td>
<td>10:50</td>
<td>Session 10*</td>
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<tr>
<td>Noon</td>
<td></td>
<td>Luncheon Seminar</td>
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<td>Luncheon Seminar</td>
<td></td>
<td>International Liaison Committee Meeting</td>
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<tr>
<td>Afternoon</td>
<td>14:30</td>
<td>Opening</td>
<td>14:00</td>
<td>Session 3</td>
<td>14:00</td>
<td>Session 7</td>
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<tr>
<td></td>
<td>14:40</td>
<td>Young Investigators' Symposium</td>
<td>15:50</td>
<td>Session 4</td>
<td>15:50</td>
<td>Session 8</td>
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<tr>
<td></td>
<td>18:15</td>
<td>JPS Young Investigators' Award Lecture</td>
<td>17:20</td>
<td>Poster Session P1 (Odd Numbers)</td>
<td>17:20</td>
<td>Poster Session P1 (Even Numbers)</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evening</td>
<td>18:40</td>
<td>Welcome Reception</td>
<td>19:00</td>
<td>Speakers’ Dinner</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Joint Sessions with the Japan Branch of the International Neuropeptide Society (INPS)
Registration

All participants must register online in advance, or on-site at the registration desk at the venue.

Important:
Once online registration is successfully processed, a confirmation e-mail will be sent to each participant. Please make sure to bring a copy of this e-mail message to the symposium site.

Registration Fees

<table>
<thead>
<tr>
<th>Registration Category</th>
<th>Early Registration By September 1st</th>
<th>Pre-registration By November 8th</th>
<th>On-site Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial</td>
<td>JPY 60,000.-</td>
<td>JPY 70,000.-</td>
<td>JPY 80,000.-</td>
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<tr>
<td>Academia</td>
<td>JPY 40,000.-</td>
<td>JPY 50,000.-</td>
<td>JPY 60,000.-</td>
</tr>
<tr>
<td>Student *</td>
<td>JPY 20,000.-</td>
<td>JPY 25,000.-</td>
<td>JPY 30,000.-</td>
</tr>
<tr>
<td>Accompanying person</td>
<td>JPY 15,000.-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*To register as a student, please send a copy of your student I.D. or letter from your affiliated institution head by e-mail to 5ips@congre.co.jp. Please include your Registration No. with the copy.

Items included in the fees

**Industrial and Academia participants**
- Attendance to all sessions
- Final program
- Abstract book
- Proceeding book
- Coffee during breaks on conference days
- Welcome reception at the venue on December 4
- Farewell banquet on December 9

**Students**
- Attendance to all sessions
- Final program
- Abstract book
- Coffee during breaks on conference days
- Welcome reception at the venue on December 4
- Farewell banquet on December 9

**The registration fees for students do not include a Proceeding Book. If you wish to purchase a copy, please place an advance order at the Japanese Peptide Society (JPS) booth at the Symposium.**

**Accompanying persons**
- Welcome reception at the venue on December 4
- Farewell banquet on December 9

Payment
For online registration, all payment must be made by credit card. For on-site registration, all payment must be made in Japanese Yen in cash or credit card.

Cancellation
Please note that there will be no refund for cancellation once the registration is completed.
Abstract Submission

Deadlines for Abstract Submission

- Oral Presentation: July 31, 2010
- Poster Presentation: August 31, 2010

Rules for Abstract Submission

1. Abstracts for oral and poster presentations must be submitted through the web page, which uses a submission system on a UMIN server. Abstracts submitted through other media (e.g. e-mail, fax) will not be accepted by the Symposium Secretariat.

2. Abstract submission process will require the Registration Number of a presenting author. Registration can be completed from the "REGISTRATION" page.

3. Applicants for the Young Investigators’ Symposium or the Poster Competition must be at the age of 35 or younger as of April 30, 2010. Abstracts selected for the Young Investigators’ Symposium will be also presented at the Poster Sessions.

4. Important abstract deadlines
   Oral Presentation (incl. the Young Investigators’ Symposium): July 31, 2010
   Poster Presentation (incl. the Young Investigators’ Poster Competition): August 31, 2010

5. After July 31 (submission deadline for the Oral Presentation), the Program Committee will impartially select abstracts for the Oral Presentation and the Young Investigators’ Symposium from a scientific point-of-view. Corresponding authors of the selected abstracts will be notified as soon as the Committee has made its decision. Presenting authors selected for the Young Investigators’ Symposium are nominated for the Good Stone Award.

6. Abstracts that are not selected for the Oral Presentation will be considered for the Poster Presentation. Abstracts that are not selected for the Young Investigators’ Symposium will be considered for the Poster Competition.

7. Winners for the Good Stone Award, the Poster Award, and the Travel Award will be awarded at the Farewell Banquet on December 9.

Accommodation

Many tourists visit Kyoto from around the world. Early accommodation reservation is recommended.

Kinki Nippon Tourist (KNT) Co., Ltd., our official travel agency, will take care of your accommodation during the Symposium. For booking, please visit our website: http://www.5ips.jp/

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Location</th>
<th>Average Rate (per night)</th>
<th>**Rates in USD are for reference only.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitsui Garden Hotel Kyoto Sanjo</td>
<td>55</td>
<td>JPY10,000 – JPY20,000</td>
<td>(USD110 – USD221)</td>
</tr>
<tr>
<td>Hotel Fujita Kyoto</td>
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<td>JPY13,000 – JPY26,620</td>
<td>(USD144 – USD295)</td>
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<tr>
<td>Kyoto Royal Hotel &amp; Spa</td>
<td>43</td>
<td>JPY15,750 – JPY36,240</td>
<td>(USD174 – USD401)</td>
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<tr>
<td>Hotel Gimmond Kyoto</td>
<td>14</td>
<td>JPY7,500 – JPY15,000</td>
<td>(USD83 – USD166)</td>
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<tr>
<td>Hearton Hotel Kyoto</td>
<td>08</td>
<td>JPY8,500 – JPY17,000</td>
<td>(USD94 – USD188)</td>
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<tr>
<td>Hotel Monterey Kyoto</td>
<td>20</td>
<td>JPY14,000 – JPY34,000</td>
<td>(USD155 – USD377)</td>
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<tr>
<td>Grand Prince Hotel Kyoto</td>
<td>02</td>
<td>JPY17,000 – JPY32,000</td>
<td>(USD188 – USD354)</td>
</tr>
</tbody>
</table>

* See map on last page.
Kyoto has a reputation worldwide as the most beautiful city in Japan. It boasts of 2,000 temples, shrines, and other historical assets including 17 World Heritage sites. Ever since it was built by the Emperor in 794, this old capital has flourished over the millennium, and left us a tremendous legacy of Japanese traditions and cultures. Today, Kyoto is also highly regarded as a leading intellectual center in the country, fostering many universities and research institutes, and is the original home of international companies and business ventures in science, technology and culture, such as Nintendo, Shimadzu, Horiba, YMC, KYOCERA, Gekkeikan, TaKaRa, Wacoal, OMRON, Murata, and many other international companies. Kyoto, old but new, attracts many people around the world with its beauty, elegance and sophistication.

The nearest airport to Kyoto is Osaka Kansai International Airport (KIX). Kyoto is easily accessible from other major cities in Japan, such as Tokyo, Yokohama, and Nagoya, by bullet train (Shinkansen).

Welcome to Kyoto, Japan

Symposium Secretariat

5th IPS
C/o Congress Corporation
3-6-13 Awajimachi, Chuo-ku,
Osaka 541-0047 JAPAN

Website www.5ips.jp

E-mail

Scientific and program matters: info@5ips.jp
Registration and abstract submission: 5ips@congre.co.jp
Sponsorship and exhibitions: 5ips@congre.co.jp
Accommodation: koba@or.knt.co.jp
Excursions: kyoto-ec@or.knt.co.jp

Kyoto International Conference Center (ICC Kyoto)

Since its foundation in 1966 as the first full-scale convention hall in Japan, ICC Kyoto has provided an excellent venue for numerous events and conferences. While conveniently located to the north of central Kyoto (20 min from Kyoto Station by subway), ICC Kyoto also enjoys the natural beauty of Lake Takaragaike and its surrounding mountains.

ICC Kyoto  http://www.icckyoto.or.jp/