



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

Supported by

The Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan
The Uehara Memorial Foundation
The Research Foundation for Pharmaceutical Sciences
Commemorative Organization for the Japan World Exposition ('70)

Special Guest Speakers

Nobel Laureate 2009
Ada E. Yonath (Israel)
Nobel Laureate 2002
Kurt Wüthrich (Switzerland)

Distinguished Speakers

Annette Beck-Sickinger (Germany)
Ettore Benedetti (Italy)
Jeffrey Bode (Switzerland)
Virander Chauhan (India)
Ernesto Freire (U.S.A.)
Samuel H. Gellman (U.S.A.)
Ernest Giralt (Spain)
Kyung-Soo Hahm (Korea)
Itaru Hamachi (Japan)
Hironobu Hojo (Japan)
Ferenc Hudecz (Hungary)
Yasuhiro Kajihara (Japan)
Kenji Kangawa (Japan)
Toru Kawakami (Japan)
Stephen Kent (U.S.A.)
Horst Kessler (Germany)
Lei Liu (China)
Dawei Ma (China)
Jean Martinez (France)
Morten Meldal (Denmark)
Naoto Minamino (Japan)
Hidehito Mukai (Japan)
Kazuwa Nakao (Japan)
Akira Otaka (Japan)
Joel Schneider (U.S.A.)
Yechiel Shai (Israel)
Ian Smith (Australia)
Hiroaki Suga (Japan)
James P. Tam (Singapore)

Important Dates

Final Announcement and Call for Abstracts May 2010
Abstracts Submission Deadline July 2010
Early Registration Deadline September 2010

Symposium Secretariat

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

Website: www.5ips.jp/

E-mail: info@5ips.jp



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Organizing Committee

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Virander Chauhan (India)	William Lubell (Canada)	John Wade (Australia)

Scientific Topics

1. Synthesis of Peptides

- Synthetic Methodology for Amino Acids, Peptides, and Proteins
- Peptide Ligation Technologies
- Synthesis of Glyco-, Lipo-, Phospho- and Sulfo-Peptides
- Synthesis of Peptidomimetics
- Peptide-based Catalysis for Asymmetric Organic Synthesis
- Combinatorial Technology and Peptide Library Synthesis
- Peptide/Protein Synthesis Using an Expanded Genetic Code
- Non-ribosomal Peptide Synthesis
- Industrial Scale Production of Peptides

2. Biology of Peptides

- Identification of Functional Peptides
- Pharmacological and Physiological Significance of Bioactive Peptides
- Peptides Targeting Receptors and Subsequent Signal Transduction
- Peptides in Immunology Including Vaccines
- Peptidome and Peptide Markers
- Post-translational Modifications of Peptides
- Peptide Tools in Chemical Biology
- Peptide-based Imaging Agents

3. Structure of Peptides

- Structure-Activity Relationships of Peptides

- Structure and Conformational Studies of Peptides
- Folding and Fibril Formation by Peptides
- Peptide Biophysics
- Structure of Membrane Bound Peptides and Receptors

4. Peptides as Drugs and Drug Candidates

- Delivery and Pharmaceutical Formulation of Peptide Drugs
- Cell Penetrating Peptides
- Clinical Use of Peptide Drugs
- Protease and Proteasome Inhibitors for Therapeutic Applications
- Peptides Against Infectious Diseases

5. Technological Advances of Peptides

- Peptide Probes for Biological Studies and Therapeutics
- Peptide and Protein Material Sciences
- Peptides in Food and Cosmetic Sciences
- Peptide Nucleic Acids (PNAs)
- Peptide Analysis and Separation
- Peptide and Protein Bioinformatics
- Conjugates with Peptides and Proteins for Therapeutic Applications

6. Peptide Science : History and Perspectives