

5th International Peptide Symposium Speakers List

Last updated: November 3, 2010

Akabori Memorial Award Lecture

Stephen B. H. Kent (University of Chicago, USA)

Mirror image proteins, enzymes, and hormones – The natural protein world dissected using chemistry

Japanese Peptide Society Young Investigator Award Lectures

Kentaro Hozumi (Tokyo University of Pharmacy and Life Sciences, Japan)

Development of functional biomaterials using laminin active peptides

Tsuyoshi Takahashi (Tokyo Institute of Technology, Japan)

Construction and characterization of artificial peptides and proteins that recognize specific biomolecules

Special Lectures

Nobel Laureate 2009

Ada E. Yonath (The Weizmann Institute of Science, Israel)

The striking ribosomal architecture: Nascent proteins voyage from making to initial folding

Nobel Laureate 2002

Kurt Wüthrich (Swiss Federal Institute of Technology Zurich, Switzerland)

Prion Diseases and Dynamic Conformational Polymorphisms in Cellular Prion Proteins

Lectures

Jane V. Aldrich (The University of Kansas, USA)

Development of systemically active peptides and potential for drug development

Brian M. Austen (St. George's University of London, UK)

β -Amyloid oligomers and their role in the pathogenesis and diagnosis of Alzheimer's disease

Burkhard Bechinger (University of Strasbourg/CNRS, France)

Structural and biophysical investigations of new family of transfection peptides with potent DNA and siRNA delivery activities

Annette G. Beck-Sickinger (Leipzig University, Germany)

Ligand induced internalization of neuropeptide Y receptors: Mechanism and application in tumor research

Ettore Benedetti (Università di Napoli 'Federico II', Italy)

Peptide-derivatized multimodal nanoparticles for targeted delivery in imaging and therapeutic applications

Ben Berkhout (University of Amsterdam, The Netherlands)

Towards improved anti-HIV peptides that prevent viral escape

Lukasz Berlicki (Wroclaw University of Technology, Poland)

Exploration of cis-pentacin containing peptides as foldamers

Jeffrey W. Bode (Swiss Federal Institute of Technology Zurich, Switzerland)

The alpha-ketoacid-hydroxylamine amide formation for chemoselective peptide ligation

Ashraf Brik (Ben-Gurion University, Israel)

Advanced Chemical Tools to Study Ubiquitin Biology

Jaw Kang Chang (Phoenix Pharmaceuticals Inc., USA)

Isolation, identification, distribution and characterization of neuronostatin

Virander S. Chauhan (International Centre for Genetic Engineering and Biotechnology, India)

Designed small peptides as model self-assembling nanosystems: their characterization and potential biomedical

applications.

Jean Chmielewski (Purdue University, USA)
Designer Collagen Peptide Materials for Regenerative Medicine

David J. Craik (The University of Queensland, Australia)
Discovery and applications of naturally occurring cyclic peptides

Philip E. Dawson (The Scripps Research Institute, USA)
Dynamic chemistry in protein synthesis and conjugation

Takayuki Doi (Tohoku University, Japan)
Total Synthesis, Biological Evaluation, and Binding Protein Network Analysis of Natural Product Cyclic Depsipeptides, Spiruchostatin A and Apratoxin A

Ben O. De Lumen (University of California, Berkeley, USA)
Lunasin: A Novel Cancer Preventive Seed Peptide

Ben M. Dunn (University of Florida, USA)
HIV-1 proteases from non-B-subtype virus: Inhibitor binding

Charlotte Erlanson-Albertsson (Lund University, Sweden)
The role of enterostatin in eating behavior and diet

Ernesto Freire (Johns Hopkins University, USA)
Development of HIV-1 cell entry inhibitors

Lloyd D. Fricker (Albert Einstein College of Medicine of Yeshiva University, USA)
Peptidomics and novel bioactive peptides

Assaf Friedler (The Hebrew University of Jerusalem, Israel)
Shiftides: Using peptides to modulate the oligomerization equilibrium of proteins

Shiroh Futaki (Kyoto University, Japan)
Design and Creation of Metal-responsive DNA-binding Proteins

Samuel H. Gellman (University of Wisconsin-Madison, USA)
Inhibiting protein-protein interactions with peptidic foldamers

Ernest Giralt (University of Barcelona, Spain)
New challenges in studying ligand-protein interactions

Oliviero Gobbo (Trinity College Dublin, Ireland)
Comparative in vivo evaluation of different delivery systems for the pulmonary administration of salmon calcitonin

Gilles Guichard (Centre National de la Recherche Scientifique, France)
Urea-based oligomers as peptide mimics: Connecting structure and function

Kyung-Soo Hahm (Chosun University, Korea)
Antimicrobial peptides: An alternative solution for multi-drug resistant bacterial infections

Itaru Hamachi (Kyoto University, Japan)
Chemistry-based protein labeling and imaging in cell and in vivo

Masayuki Haramura (Chugai Pharmaceutical Company Limited, Japan)
Optimizing quantitative analysis of phosphopeptides with isobaric tags to dissect the phosphorylation signal pathways

Paul W.R. Harris (University of Auckland, New Zealand)
The Total Chemical Synthesis of the Cancer Protein NY-ESO-1

Hironobu Hojo (Tokai University, Japan)
Glycoprotein synthesis using segment condensation method

Richard A. Houghten (Torrey Pines Institute for Molecular Studies, USA)

High-throughput in vivo screening of mixture-based combinatorial libraries: identification of novel analgesics.

Ferenc Hudecz (Eötvös Loránd University, Hungary)

Modulation of intracellular calpain activity by peptide-conjugates

Hitoshi Ishida (Kitasato University, Japan)

Peptide Origami: Molecular Design, Synthesis and their Application

Hideo Iwai (University of Helsinki, Finland)

protein and peptide ligation by split inteins

Yasuhiro Kajihara (Osaka University, Japan)

Chemical synthesis of glycoproteins having human complex type oligosaccharides

Kenji Kangawa (National Cerebral and Cardiovascular Center Research Institute, Japan)

Discovery of ghrelin and its clinical application

Philippe Karoyan (CNRS, France)

Prolineamino acids: tools in mimetics design targeting somatostatin receptors and IAP/Smac interactions. Structural and pharmacological applications.

Abba J. Kastin (Pennington Biomedical Research Center, USA)

Biologically active peptide concepts with emphasis on the blood-brain barrier

Toru Kawakami (Osaka University, Japan)

Peptide ligation via thioester formation at the cysteine residue

Horst Kessler (Technische Universität München, Germany)

The functional role of helical regions in proteins for regulating their stability and binding properties to partner proteins

Shunsaku Kimura (Kyoto University, Japan)

Novel morphologies by self-assembling of chiral amphiphilic peptides

Yuji Kobayashi (Osaka University of Pharmaceutical Sciences, Japan)

Detailed mechanism of conformational transition of collagen peptides with triple helical structure

Ekaterina F. Kolesanova (Institute of Biomedical Chemistry RAMS, Russia)

Development of peptide immunogens for anti-HCV vaccine

Kit S. Lam (University of California Davis, USA)

Peptide-based targeting nanoparticles for cancer therapy and imaging

Bok-Luel Lee (Pusan National University, Korea)

Different induction mechanisms of antimicrobial peptides in fly and beetle after challenge of Gram-negative bacteria

Su Seong Lee (Institute of Bioengineering and Nanotechnology, Singapore)

New strategies for development of high affinity protein capture agents through screening of OBOC peptide libraries

Yoon-Sik Lee (Seoul National University, Korea)

Recent Progress of Core-Shell Type Resins and Its Application to Solid-Phase Peptide Synthesis

Yong Y. Lin (Columbia University, USA)

Elastase Derived Peptides in Chronic Obstructive Pulmonary Disease (COPD)

Lei Liu (Tsinghua University, China)

Development of methods for chemical synthesis of proteins

William D. Lubell (Université de Montréal, Canada)

Complementary relationships between lactam- and aza-peptide mimics

Dawei Ma (Shanghai Institute of Organic Chemistry, China)

Synthesis and SAR studies towards cytotoxic peptide bisbromoamide and piperazimycin A

Derek Macmillan (University College London, UK)

Peptide thioester formation through controlled disruption of amide bonds

Garland R. Marshall (Washington University, USA)

Preorganization and Peptidomimetic Design

Jean Martinez (Université Montpellier, France)

Synthesis and cellular uptake quantification of short constrained uncharged cell penetrating non peptides (CPNP)

Katsumi Matsuzaki (Kyoto University, Japan)

Internalization and oligomerization of membrane receptors in living cells as detected by novel coiled-coil fluorescence labeling method

Morten Meldal (Carlsberg Research Center, Denmark)

"Click" bonds: Functional replacement of disulfide and amide bonds with triazole in bioactive peptides

Hisakazu Mihara (Tokyo Institute of Technology, Japan)

Designed peptide libraries for protein and cell analyses

Naoto Minamino (National Cerebral and Cardiovascular Center Research Institute, Japan)

Peptidomics-based discovery of bioactive peptides

Luis Moroder (Max-Planck Institute of Biochemistry, Germany)

Diselenides as proxies of disulfides in cystine-rich peptides

Artur Mucha (Wroclaw University of Technology, Poland)

Synthesis and modifications of phosphinic inhibitors of leucine aminopeptidases

Hidehito Mukai (Kyoto Pharmaceutical University, Japan)

Cryptides: Non-classical bioactive peptides hidden in protein structures

Kazuwa Nakao (Kyoto University, Japan)

Translational Research of Novel Hormones

Masamitsu Nakazato (University of Miyazaki, Japan)

Translational research of ghrelin

Edouard Nice (Monash University, Australia)

Quantitative MRM analysis of potential colorectal cancer biomarkers in human feces using proteotypic peptides identified by fecal proteomics

Kiyoshi Nokihara (HiPep Laboratories, Japan)

Design and syntheses of peptides as bio-sensor elements which can detect the structural change of prion proteins

Uhtaek Oh (Seoul National University, Korea)

Anoctamin 1, a cloned-Ca²⁺ activated chloride channel and its pathophysiological implications

Akira Otaka (The University of Tokushima, Japan)

Development of amide bond cleavage device with application to chemical biology use

Weihong Pan (Pennington Biomedical Research Center, USA)

Leptin signaling in astrocytes

Florante A. Quiocho (Baylor College of Medicine, USA)

Calmodulin-target peptide interactions

Jan Raap (Leiden University, The Netherlands)

Alamethicin, a structural and functional peptide fossil of protein ion channels?

Takeshi Sakurai (Kanazawa University, Japan)

Orexin Neurons at Interface of Energy Homeostasis, Emotion and Sleep/wakefulness States

Takeshi Sato (Osaka University, Japan)

Solid state NMR study on the dimer structure of the transmembrane region of amyloid precursor protein

Harold A. Scheraga (Cornell University, USA)

Peptide Guide to Protein Folding

Joel P. Schneider (National Cancer Institute at Frederick, USA)

Design and application of material forming peptides: From antibacterials to mammalian cell delivery

Yechiel Shai (The Weizmann Institute of Science, Israel)

Antimicrobial peptides: Parameters involved in cell specificity, bacterial cell wall (LPS, LTA) detoxification and overcoming resistance mechanisms

Yasuyuki Shimohigashi (Kyushu University, Japan)

Structure-activity studies on nociceptin and its receptor ORL1

Seiji Shioda (Showa University, Japan)

PACAP and neuronal cell death

Masahiko Sisido (Okayama University, Japan)

Multi-labeled fluorescent peptide library for in situ screening against cancer cells

Mariusz Skwarczynski (The University of Queensland, Australia)

Self-adjuvanting peptide-based subunit nanovaccines

A. Ian Smith (Monash University, Australia)

Peptide acetylation in the brain: A powerful mechanism for regulating appetite, energy expenditure and weight

Hiroaki Suga (The University of Tokyo, Japan)

Discovery of bioactive non-standard peptides powered by the RaPID system

Jonathan V. Sweedler (University of Illinois at Urbana-Champaign, USA)

Peptidomics: from discovery to function

James P. Tam (Nanyang Technological University, Singapore)

Biologics as a New Class of Active Principles in Herbal Medicine

Hirokazu Tamamura (Tokyo Medical and Dental University, Japan)

Novel tag-probe pairs for fluorescent imaging of proteins in living cells

Paul A. Wender (Stanford University, USA)

Nanomedicine: New peptide inspired molecular transporters for drug delivery and treating resistant disease; synthesis, cellular uptake and human ex vivo studies

Alexander Wlodawer (National Cancer Institute, USA)

Crystallographic investigations of the complexes of plasmepsins with peptidic inhibitors

Masaaki Yoshikawa (Kyoto University, Japan)

Neuroactive Peptides Derived from Food Proteins

Speakers for the Young Investigators' Symposium

Linda J. Chan (The University of Melbourne, Australia)

Design, synthesis and in vitro characterization of RXFP-1 specific human relaxin analogues

Yi-Pin Chang (University of Oxford, UK)

Combinatorially Selected 4-mer Peptide Probes Inhibit the Pathogenic Polymerization of Alpha1-Antitrypsin

Hendrik Eberhard (Humboldt University Berlin, Germany)

Self-assembled bivalent binders of the Syk-tSH2 domain

Henri G. Franquelim (University of Lisbon, Portugal)

Interaction of anti-HIV-1 antibodies with gp41 MPER peptide at the lipid membrane level - mode of action unravelled by combined microscopy approaches

Yuki Goto (The University of Tokyo, Japan)

New strategies for genetic code reprogramming; dual genetic code and artificial division of codon boxes

Annemiek D. Knijnenburg (Leiden University, The Netherlands)

Cyclic cationic antimicrobial peptides: Sugar Amino Acid β -turn modified Gramicidin S analogs are promising leads towards new antibiotics

Chie Kojima (Osaka Prefecture University, Japan)

Temperature-Dependent Self-Assembly of Collagen-Mimic Dendrimers with Pro-Hyp-Gly Repeats

Carlos Mas-Murano (Technische Universitaet Muenchen, Germany)

Investigation of integrin and osteoblast adhesion influenced by RGD-peptide coating and surface properties

Ryosuke Misu (Kyoto University, Japan)

Functional Characterization of Kisspeptin Receptor Ligands: Activation of Neuropeptide FF Receptors

Koji Ohara (Kyoto University, Japan)

Antitumor effect of the EGFR-lytic hybrid peptide in animal model of human cancers with K-ras mutation

Youhei Sohma (Kyoto Pharmaceutical University, Japan)

Use of O-acyl isopeptides to identify new functions of amyloid beta peptides

Misako Taichi (Peptide Institute, Inc., Japan)

Structure-Activity Relationship of Marinostatin, an ester-linked serine protease inhibitor

Gen Tanaka (Kyoto University, Japan)

Identification of a receptor responsible for cellular uptake of R12 peptide

Koichi Tanaka (Kagoshima University, Japan)

Mimotope peptides of amyloid beta42 fibril-specific antibodies binding to amyloid plaques in brain section of alzheimer's disease model mouse, J20

Frederic Tewes (Trinity College Dublin, Ireland)

Effect of PEG type and HP β CD on salmon calcitonin biopharmaceutical properties following pulmonary delivery

Gerbrand J. Van der Heden van Noort (Leiden University, The Netherlands)

Synthesis of Nucleotidylated Amino Acids for Preparation of Nucleopeptides

Peter R. Wich (University of California Berkeley, USA)

Surface Recognition and Inhibition of β -Trypsin by Tetravalent Peptide Ligands

Yuji Yamada (Tokyo University of Pharmacy and Life Science, Japan)

Development of artificial basement membranes using peptide-polysaccharide complexes

Yusuke Yamagishi (The University of Tokyo, Japan)

Selection of cyclic N-methyl peptide inhibitors against human ubiquitin ligase E6AP using RaPID display

Yuri Yamazaki (Tokyo University of Pharmacy and Life Sciences, Japan)

Development of chemical probes towards the elucidation of binding mechanism of plinabulin, a cyclicdipeptide based anti-microtubule agent