



## 北海道大学未来創薬・医療イノベーション拠点形成事業

### 第9回国際シンポジウムの開催について（お知らせ）

**開催概要：テーマ「 Structural Biology and Drug Discovery」(構造生物学と創薬)**

最近の構造生物学の発展により、疾患の原因となるタンパク質の立体構造が数多く決定されるようになり、創薬研究は、タンパク質の立体構造に基づいた薬剤探索が大きな流れとなってきました。

今回のシンポジウムでは、"Structural Biology and Drug Discovery"(構造生物学と創薬)というテーマで、構造生物学的立場より創薬研究を展開している国際的に著名な研究者に講演をお願いいたします。2010年ノーベル化学賞を受賞された鈴木章先生にもご講演いただきます。

**主な講演者：**

**招待講演：** Joseph Schlessinger 教授（エール大学・米）， Rolf Hilgenfeld 教授（リューベック大学・独）， 満屋裕明教授（熊本大学/NIH・米）， 嶋田一夫教授（東京大学） 他

**特別講演：** 鈴木章北海道大学名誉教授

**日程：** 2011年9月29日（木）～ 9月30日（金）

29日 10:30/17:00, 30日 9:00/12:30

**場所：** 北海道大学医学部学友会館フラテ大ホール（札幌市北区北 15 西 7）札幌駅北口より徒歩 12 分

**主催：** 北海道大学

**参加対象・募集人数：** 研究者，企業研究者，その他

**参加費：** 無料

**言語：** 英語（同時通訳なし）

**プログラム：** 別紙

**お問い合わせ先**

所属・職・氏名：北海道大学未来創薬・医療イノベーション推進室・広報担当・和田雅子

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# The 9th International Symposium for Future Drug Discovery and Medical Care Structural Biology and Drug Discovery

Venue: The Alumni Hall "Frate" Graduate School of Medicine, Hokkaido University

## September 29, Thursday

09:45-  
10:20-10:30

Registration  
Opening Remarks  
Hiroshi Saeki, Ph.D. (President, Hokkaido University (HU), JPN)  
Yasuyuki Igarashi, Ph.D. (Director, Frontier Research Center for Post-genome Science and Technology, HU, JPN)  
Naohito Kimura (Director for Regional R&D Promotion, Science and Technology Policy Bureau, MEXT, JPN)

General Chairperson: Hajime Takayama, Ph.D. (Coordinating Office, HU)

10:30-11:20

Invited Lecture 1

Chairperson\_\_Fuyuhiko Inagaki, Ph.D. (Faculty of Advanced Life Science, HU, JPN)  
***Cell Signaling by Receptor Tyrosine Kinases; from Basic Principles to Cancer Therapy***  
**Joseph Schlessinger, Ph.D. (Yale University School of Medicine, USA)**

11:20-12:10

Invited Lecture 2

Chairperson\_\_Isao Tanaka, Ph.D. (Faculty of Advanced Life Science, HU, JPN)  
***Getting Prepared for Future Virus Outbreaks: Structure-based Discovery of Antivirals for Emerging RNA Viruses***  
**Rolf Hilgenfeld, Ph.D. (Institute of Biochemistry, University of Luebeck, GER)**

12:10-13:15

Lunch Time

13:15-14:05

Invited Lecture 3

Chairperson\_\_Ken-ichi Honma, M.D., Ph.D. (Graduate School of Medicine, HU, JPN)  
***Drug Discovery of a Melatonin Agonist to Advance Towards Natural Sleep***  
**Shigenori Ohkawa, Ph.D. (Takeda Pharmaceutical Company Limited, JPN)**

14:05-14:55

Invited Lecture 4

Chairperson\_\_Katsumi Maenaka, Ph.D. (Faculty of Pharmaceutical Sciences, HU, JPN)  
***Structure-guided Development of Molecular-targeting Antiviral Agents for Treatment of HIV Infection and AIDS***  
**Hiroaki Mitsuya, M.D., Ph.D. (Faculty of Life Sciences, Kumamoto University, JPN)**

14:55-15:45

Invited Lecture 5

Chairperson\_\_Nagara Tamaki, M.D., Ph.D. (Graduate School of Medicine, HU, JPN)  
***Molecular Imaging Science for Medical Innovation***  
**Yasuyoshi Watanabe, M.D., Ph.D. (RIKEN Center for Molecular Imaging Science, JPN)**

15:45-16:00

Coffee Break

16:00-16:50

Special Lecture by Nobel Laureate in Chemistry 2010

Chairperson\_\_Yasuyuki Igarashi, Ph.D. (Frontier Research Center for Post-genome Science and Technology, HU, JPN)

***Cross-Coupling Reactions of Organoboranes: An Easy Way for Carbon-Carbon Bonding***  
**Akira Suzuki, Ph.D. (Hokkaido University, JPN)**

17:30-19:30

Welcome Reception Party : Faculty House "Enreiso"

## September 30, Friday

08:30-

Registration  
Greeting from the Dean Nagara Tamaki, M.D., Ph.D. (Graduate School of Medicine, HU, JPN)

09:00-09:50

Invited Lecture 6

Chairperson\_\_Makoto Demura, Ph.D. (Faculty of Advanced Life Science, HU, JPN)  
***Probing Cancer Cell Signaling by NMR: structure, interaction, and enzymatic kinetics of small GTPases***  
**Mitsuhiko Ikura, Ph.D. (Ontario Cancer Institute, University of Toronto, CAN)**

09:50-10:40

Invited Lecture 7

Chairperson\_\_Toyoyuki Ose, Ph.D. (Faculty of Pharmaceutical Sciences, HU, JPN)  
***Antibiotic Fusidic Acid Trapping EF-G in the Ribosome and mRNA Quality Control in Translation by Bacterial Toxin RelE***  
**Yonggui Gao, Ph.D. (School of Biological Sciences, Nanyang Technological University, SIN)**

10:40-11:30

Invited Lecture 8

Chairperson\_\_Min Yao, Ph.D. (Faculty of Advanced Life Science, HU, JPN)  
***Structural Studies of Influenza RNA-polymerase for Novel Drug Design***  
**Sam-Yong Park, Ph.D. (Protein Design Laboratory, Yokohama City University, JPN)**

11:30-12:20

Invited Lecture 9

Chairperson\_\_Kenji Ogura, Ph.D. (Faculty of Advanced Life Science, HU, JPN)  
***Functional Analyses of Membrane Proteins by NMR***  
**Ichio Shimada, Ph.D. (Graduate School of Pharmaceutical Sciences, The University of Tokyo, JPN)**

12:20-

Closing Remarks Fuyuhiko Inagaki, Ph.D. (Faculty of Advanced Life Science, HU, JPN)

12:30-14:00

Lunch & Poster Sessions