

INVITATION

An International Exchange Seminar on Membranomics 2008 (IESM-2008) will be held at Sigma Hall, **Osaka University, Japan, on September 1-3, 2008.**

This event serves as a forum for Switzerland and Japanese researchers to present their research topics on "**Membranomics**", by perusing the basic and applied aspects of the biological and biomimetic membrane. This seminar also offers an opportunity for the young researchers in Switzerland and in Japan, as a whole, to strengthen **Membraneship**.

On behalf of the Organizing Committee, we would like to invite you to attend the International Exchange Seminar on "Membranomics". We sincerely do hope that you will join us to make this event a successful, enjoyable and memorable one.

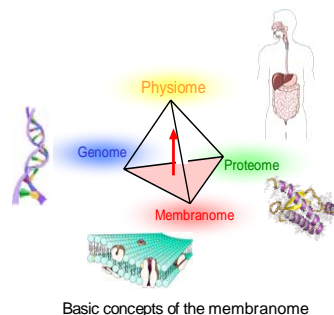
Ryoichi Kuboi
Osaka University
Chairperson (Japan)

Peter Walde
ETH Zurich
Chairperson (Switzerland)

EISM Organizing Committee

SCOPE OF THE MEETING

The **biomembrane** is one of the important molecular assemblies that contribute in an essential way to the functioning of organelles and of biological cells at large. A systematic study of the "**membranome**" - in



addition to the **genome** and **proteome** - is expected to be achieved in the 21st century with considerable potential for biomedicine, bioengineering and biomaterials development. Intensifying studies on the various aspects of biomembranes with the help of biomembrane mimics hopefully leads (a) to a better understanding of the mechanism responsible for biomembrane-related diseases and (b) to applications in the field of biomimetic materials and bioprocesses.

The planned seminar is aimed at strengthening and intensifying collaborations between Japanese and Swiss Scientists in the field of certain basic and applied aspects of biomembrane mimics and to hopefully create new collaborations within this research field. The aim of the seminar is to exchange research results and ideas concerning the newly developed "membranome" concepts, to systematize the knowledge on the "membranome" and to appeal its significance.

"**Membranone**" is a term used for a newly proposed research field, where a variety of potentials of biomembranes and the strategy for possible applications of biomembranes are investigated and systematically classified. (i) **Scientific aspect:** Elucidation of a "complex biological phenomena" by linking it with different view points on the genome and the proteome. (ii) **Engineering aspect:** The most efficient strategy in biological systems shall be utilized for the design and development of biomaterials and bioprocesses, a re-search area called "**Membrane Stress Biotechnology**".

PROGRAM (Tentative)

Monday, September 1st, 2008	
8:00	Registration
8:50	Opening Remark
9:00	Invited Lecture 1-3
11:30	Lunch
12:30	Invited Lecture 4-9
17:30	Oral Presentation
19:00-	Welcome Dinner
Tuesday, September 2nd, 2008	
9:00	Invited Lecture 10-12
11:30	Lunch
12:30	Oral Presentation
17:00	Short Oral Presentation
18:30	Banquet
Wednesday, September 3rd, 2008	
9:00	Short Oral Presentation
10:00	Poster Presentation
11:20	General Discussion
11:50	Closing Remark

ORGANIZING COMMITTEE

Prof. Dr. R. Kuboi, **Chairman**, Grad. Sch. of Eng. Sci., Osaka Univ., Chair of MSB Research Group

Prof. Dr. P. Walde, **Chairman**, ETH Zurich
Prof. Dr. T. Tsuchido, Dept. of Life Sci. Biotech., Faculty of Chem. Mater. Bioeng., Kansai Univ.

Prof. Dr. K. Kato, Grad. Sch. of Eng. Ehime Univ.

Prof. Dr. H. Umakoshi, Grad. Sch. of Eng. Sci., Osaka Univ., Leader of BINCF in Σ MDRL

Prof. Dr. T. Shimanouchi, Grad. Sch. of Eng. Sci., Osaka Univ.

Prof. Dr. Y. Matsumura, Dept. of Life Sci. Biotech., Faculty of Chem. Mater. Bioeng., Kansai Univ.

Prof. Dr. S. Morita, Wakayama Nat'l College

Prof. Dr. H. Nakamura, Grad. Sch. of Eng., Osaka Pref. Univ.

Prof. Dr. K. Shiomori, Faculty of Eng., Univ. Miyazaki

Mr. H. Ishii, Grad. Sch. of Eng. Sci., Osaka Univ. (**Young Researchers Committee**)

Mr. LQ. Tuan, Grad. Sch. of Eng. Sci., Osaka Univ. (**Young Researchers Committee**)

Mr. Z.-W. Guo, ETH Zurich (**Young Researchers Committee**)

INVITED SPEAKERS

Prof. Dr. E. Reimhult, ETH Zurich

Prof. Dr. J. Vörös, ETH Zurich

Prof. Dr. C. Veber, Univ. of Basel

Prof. Dr. H. Vogel, EPFL

Prof. Dr. S. Matile, Univ. Geneva

Prof. Dr. A. Nakao, Univ. of Tokyo

Prof. Dr. T. Kobayashi, RIKEN

Prof. Dr. K. Murofushi, Ochanomizu Univ.

Prof. Dr. S. Nakagawa, Osaka Univ.

Prof. Dr. Y. Yoshioka, Osaka Univ.

Prof. Dr. Y. Goto, Osaka Univ.

Prof. Dr. S. Ichikawa, Tsukuba Univ.

Prof. Dr. K. Morigaki, AIST

Prof. Dr. M. Yoshimoto, Yamaguchi Univ.

FINANCIAL SUPPORT

JSPS-SNSF (Int'l Exchange Seminar)

JSPS (Grant in Aid)

GCOE (Bio-Environmental Chemistry)

SMDRL (BINCF Laboratory)

CONFERENCE SITE

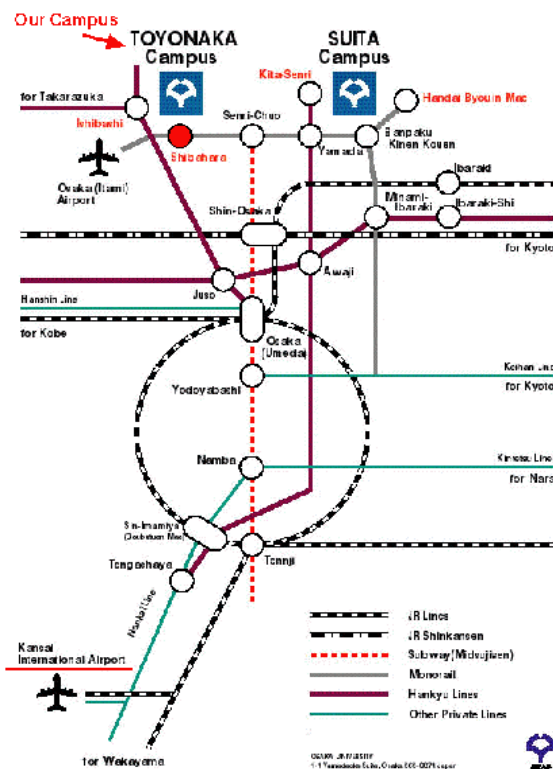
International HALL (Sigma Hall)

Grad. Sch. of ENGINEERING SCIENCE,

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RESEARCH GROUP ON

MEMBRANE STRESS BIOTECHNOLOGY
<http://www.cheng.es.osaka-u.ac.jp/MSB/>

JSPS-SNSF International Seminar



Membranomics

Basic and Applied Aspects of Biological Membrane

International Hall
Osaka University

2008.9.1-3

Organized by

R. Kuboi, Osaka Univ.

P. Walde, ETH Zurich



BERUFGEMEINSCHAFT NATIONALFORSCHUNG
ZUM FÖRDERN VON WISSENSCHAFTLICHEN FORSCHUNG