

イノベーションから 応用へ

学際シンポジウム
イノベーションから応用へ

2024
16 / 18
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From Innovations to Applications

COLLOQUE

INTERDISCIPLINAIRE



20° ANNIVERSAIRE DES RELATIONS OSAKA-UNISTRA
大阪大学-ストラスブール大学 交流20周年記念

The symposium «From Innovations to Applications» is organized to celebrate the 20th anniversary and strengthen exchanges and collaborations between Osaka and Strasbourg universities.

It will focus on the relationship between innovation and cutting-edge technologies, and how they are translated into industrial applications.

The aim of the symposium is to organize a multi-disciplinary meeting bringing together researchers from different fields.

ORGANIZING INSTITUTIONS

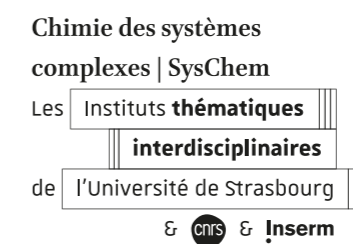
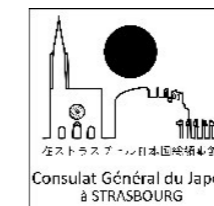
- Osaka University
- University of Strasbourg

WITH THE SUPPORT OF

- Maison Universitaire France-Japon
- Consulate General of Japan in Strasbourg
- IdEx
- JSPS Strasbourg Office
- Institute of Chemistry – UMR7177
- ITI SysChem

SCIENTIFIC COORDINATORS

- Pierre Braunstein
- Toshie Kai (Symposium)
- Takashi Kubo (Cadet)





*From
Innovation to
Applications*

8h30-8h55 Opening remarks

- ✦ MICHEL DENEKEN, PRESIDENT OF THE UNIVERSITY OF STRASBOURG
- ✦ TOSHIE KAI, SENIOR ADVISOR TO THE PRESIDENT OF OSAKA UNIVERSITY
- ✦ HIROYUKI UCHIDA, GENERAL CONSUL, CONSULATE OF JAPAN IN STRASBOURG
- ✦ TOSHIYUKI TAKAGI, DIRECTOR, JSPS STRASBOURG OFFICE
- ✦ MICHÈLE FORTÉ, DIRECTOR, MUFJ

8h55-9h00 Presentation of the Interdisciplinary Symposium: Background and Motivations

- ✦ PIERRE BRAUNSTEIN

_session 1: Innovation in Medicine and Genomics

CHAIRS: TOSHIE KAI AND FRÉDÉRIC LEROUX

9h00-9h30 Strategies for cancer therapy by controlling the intracellular dynamics of antibody drugs

- ✦ KAZUYA KABAYAMA, OSAKA UNIVERSITY

9h30-10h00 Intellectual disability: a frequent condition, 1500 rare genetic disorders and counting: from genomics to participatory research

- ✦ JEAN-LOUIS MANDEL, UNIVERSITY OF STRASBOURG

10h00-10h15 Discussion

10h15-10h45 Coffee Break and group photo

_session 2: Immunity and Medical Robotics

CHAIRS: YOICHI NAKATANI AND YUJI SATO

10h45-11h15 Sensing self- and non-self metabolites via immune systems

- ✦ SHO YAMASAKI, OSAKA UNIVERSITY

11h15-11h45 From innovation to applications in medical robotics: case studies

- ✦ MICHEL DE MATHÉLIN, UNIVERSITY OF STRASBOURG

11h45-12h00 Discussion

Afternoon Visits –Members only–

_session 3: Material Sciences

CHAIRS: PAOLO SAMORI AND AI SHINOBU

8h30-9h00 Additive Manufacturing for Metal with Blue Laser

- ✦ YUJI SATO, OSAKA UNIVERSITY

9h00-9h30 Photo(redox)active and photo(electro)switchable materials based on polyoxometalates and (iso)porphyrins

- ✦ LAURENT RUHLMANN, UNIVERSITY OF STRASBOURG

9h30-9h45 Discussion

9h45-10h15 Coffee break

_session 4: Science, Innovation and Management

CHAIRS: MICHELE FORTE AND KEI OHKUBO

10h15-10h45 Design and Functions of Polymeric Materials Based on Supramolecular Science

- ✦ YOSHINORI TAKASHIMA, OSAKA UNIVERSITY

10h45-11h15 Create long-term relations with stakeholders to favor sustainable open innovation : The case of Japan.

- ✦ MARION NEUKAM AND RENÉ CARRAZ, UNIVERSITY OF STRASBOURG

11h15-11h30 Discussion

_session 5: Chemistry and Applications

CHAIRS: JEAN WEISS AND YOSHINORI TAKASHIMA

13h15-13h45 Photodriven C-H Oxygenation of Hydrocarbons with Chlorine Dioxide

- ✦ KEI OHKUBO, OSAKA UNIVERSITY

13h45-14h15 Strategies towards fluoroalkylated building-blocks for Industrial Application

- ✦ FRÉDÉRIC LEROUX, ECPM, UNIVERSITY OF STRASBOURG

14h15-14h30 Discussion

14h30-15h00 Coffee break

_session 6: Life Sciences

CHAIRS: MARIE-CLAIRE LETT AND SHO YAMASAKI

15h00-15h30 Processing of Small RNAs Safeguarding the Germline Genome in the Non-Membrane Structure, Nuage

- ✦ TOSHIE KAI, OSAKA UNIVERSITY

15h30-16h00 From innovation to Application in advanced Liver diseases

- ✦ CATHERINE SCHUSTER, UNIVERSITY OF STRASBOURG, INSERM

16h00-16h30 Deciphering the molecular origin of cellular processes using advanced molecular dynamics simulations

- ✦ AI SHINOBU, OSAKA UNIVERSITY

16h30-16h45 Discussion

_session 7: Ethics and Perspective

CHAIRS: CATHERINE SCHUSTER AND KAZUYA KABAYAMA

16h45-17h15 Ethics in Science: The Example of Advances in Human Genetics

- ✦ YVES ALEMBIK, STRASBOURG

17h15-17h30 Discussion

17h30-17h45 Concluding Remarks of the Symposium

- ✦ RÉMI BARILLON, VICE-PRESIDENT OF THE UNIVERSITY OF STRASBOURG FOR RESEARCH, DOCTORAL STUDIES AND OPEN SCIENCE.

- ✦ TOSHIE KAI, SENIOR ADVISOR TO THE PRESIDENT OF OSAKA UNIVERSITY

CADET Workshop Chemistry Physical Chemistry

8h30-8h45 Presentation of the CADET Workshop
✦ TAKASHI KUBO AND PIERRE BRAUNSTEIN

_session 1: Complex Molecules

CHAIRS: HIROSHI UMAKOSHI AND PIERRE BRAUNSTEIN

8h45-9h15 Recent studies on open-shell π -conjugated molecules

✦ TAKASHI KUBO, OSAKA UNIVERSITY

9h15-9h45 Multifunctional organic - inorganic hybrid structures using molecular bricks for magnetic, luminescent or electrocatalytic properties

✦ PIERRE RABU, UNIVERSITY OF STRASBOURG AND CNRS

9h45-10h00 Discussion

10h00-10h15 Coffee break

_session 2: Molecular Assemblies

CHAIRS: VINCENT ROBERT AND TAKASHI HAYASHI

10h15-10h45 Design Lipid Nano-carriers for Drug Delivery

✦ HIROSHI UMAKOSHI, OSAKA UNIVERSITY

10h45-11h15 Surfactantless, nonpolar microemulsions with distinctive film spreading behavior for applications in Energy

✦ MARIE PIERRE KRAFFT, UNIVERSITY OF STRASBOURG

11h15-11h30 Discussion

_session 3: Biorelevant Systems

CHAIRS: VALERIE HEITZ AND TAKASHI KUBO

11h30-12h00 Conversion of myoglobin to Artificial metalloenzymes responsible for non-natural chemical reactions

✦ TAKASHI HAYASHI, OSAKA UNIVERSITY

12h00-12h30 Acridinium-based Recognition Units: from Molecular Tweezers to Persistent Radicals

✦ HENRI-PIERRE JACQUOT DE ROUVILLE, UNIVERSITY OF STRASBOURG

12h30-12h45 Discussion

Afternoon Visit -Members only-

Friday

18 OCTOBER 2024

AMPHI BERETZ - BUILDING LE NOUVEAU PATIO