

CONFERENCE CHAIRS



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PLEANARY SPEAKERS



DAVID CRAIK

Professor
UQ Laureate Fellow & Group Leader
The University of Queensland
Australia



SHIN-ICHIRO NISHIMURA

Professor
Hokkaido University
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R&D Japan Region Head
Takeda Pharmaceutical
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Kyung Hee University
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Distinguished Professor
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ANNETTE BECK-SICKINGER

Professor of Biochemistry
Leipzig University
Germany

SUPPORTING PARTNERS



MEDIA PARTNERS



INTERNATIONAL CONFERENCE AND EXHIBITION ON

PROGRESSIVE MEDICINAL CHEMISTRY

Where Scientific Excellence Meets the Beauty of Cherry Blossoms

📅 April 12–14, 2027 📍 Kyoto University, Kyoto, Japan

CONFERENCE THEME

From Intelligent Discovery to Precision Therapeutics

ProMediCon 2027, co-organised by Chemical Biology Society of India (CBSI), IN-CBI (Initiative for Intelligent ChemBioInformatics), Kyoto University On-Site Laboratory, and SciVerse Global, will bring together leading researchers, healthcare professionals, industry experts, and young scientists from around the world to share knowledge, discuss emerging trends, and foster collaborations in medicine, healthcare, and life sciences. The conference provides a unique platform to showcase innovative research, exchange ideas, and address global healthcare challenges. Hosted at the prestigious Kyoto University during the beautiful Sakura (Cherry Blossom) season, the conference offers an inspiring environment that combines scientific excellence, cultural heritage, and international networking.

We warmly invite you to join us in Kyoto, Japan, from April 12–14, 2027, and contribute to shaping the future of medicine and healthcare through collaboration, innovation, and scientific excellence.

We look forward to welcoming you to ProMediCon 2027.

KEYNOTE SPEAKERS



Aaron Ciechanover

2004 Nobel Laureate in Chemistry



Susumu Kitagawa

2025 Nobel Prize in Chemistry



Trevor W. Robbins

2014 Brain Prize Laureate

CO-ORGANIZERS



www.medicinalchemistryconference.com

PROMEDICON 2027 -TOPICS

1. Intelligent Drug Discovery & AI

- AI/ML-driven drug discovery
- Generative AI and molecular design
- Computational chemistry
- Quantum computing
- Digital twins
- Big data and predictive modelling
- Autonomous laboratories and robotics

2. Medicinal Chemistry & Molecular Innovation

- Modern medicinal chemistry
- Small-molecule drug design
- Covalent drug design
- Fragment-based drug discovery
- Structure-based drug design
- PROTACs and targeted protein degradation
- Polypharmacology
- Macrocycles and peptide therapeutics
- Advanced synthetic chemistry

3. Chemical Biology & Target Discovery

- Chemical biology
- Functional genomics
- Chemical probes
- Chemoproteomics
- CRISPR and gene editing
- Target identification and validation
- Biosensors
- Organoids and advanced disease models

4. Precision Medicine & Precision Therapeutics

- Personalized medicine
- Precision oncology
- Immuno-oncology
- Neurodegenerative diseases
- Rare and orphan diseases
- Targeted therapies
- Biomarker-guided therapeutics

5. Advanced Therapeutics & Biopharmaceuticals

- mRNA therapeutics
- RNA-targeting therapeutics
- Antibody-drug conjugates (ADCs)
- Biologics
- Protein engineering
- Microbiome-based therapeutics
- Next-generation therapeutic platforms

6. Drug Delivery, ADME & Translational Medicine

- Nanomedicine
- Targeted and smart drug delivery
- Blood-brain barrier strategies
- Pharmacokinetics/pharmacodynamics (PK/PD)
- ADME and toxicology
- Drug safety
- Translational research
- Lab-to-market development

7. Radiopharmaceuticals & Theranostics

- Radioligand therapy
- Molecular imaging
- Radioisotopes in medicine
- Theranostics
- Diagnosis-therapy integration

8. Green & Future Pharmaceutical Technologies

- Green medicinal chemistry
- Sustainable pharmaceutical chemistry
- Circular chemistry
- Natural products and bio-inspired drug discovery
- Electrochemical and photochemical approaches
- High-throughput experimentation
- Automated synthesis
- AI-driven process optimization
- Regulatory science
- Technology transfer and commercialization

WHY KYOTO UNIVERSITY ?

Founded in 1897, Kyoto University is one of Asia's most respected institutions of higher learning and a global leader in scientific discovery. Renowned for its culture of academic freedom, curiosity-driven research, and innovation, the university has nurtured numerous Nobel Prize laureates and world-changing discoveries across medicine, chemistry, physics, and the life sciences.

Kyoto University's remarkable legacy includes pioneering breakthroughs in immunology and regenerative medicine, including Nobel Prize-winning research by **Prof. Tasuku Honjo** and **Prof. Shinya Yamanaka**, whose discoveries have transformed modern healthcare and biomedical research worldwide. The university's influence also extends to fundamental chemistry and materials science through the groundbreaking work of **Prof. Susumu Kitagawa**, whose pioneering development of porous coordination polymers and metal-organic frameworks (MOFs) opened new horizons in molecular design, porous materials, gas storage, separation, sensing, and advanced functional materials.

The conference venue, the **International Science Innovation Building**, was specifically established to promote collaboration among academia, industry, government, and international research organizations. As a hub for innovation and knowledge creation, it provides an ideal environment for scientific exchange, interdisciplinary collaboration, and partnership development.

Unlike traditional conferences focused only on discovery or clinical outcomes, **PROMEDICON 2027** is intentionally positioned at the high-impact translational stage—where scientific discoveries, molecular innovation, and emerging technologies converge to transform therapeutic concepts into real-world healthcare solutions.

WHY ATTEND PROMEDICON 2027?

Cutting-Edge Science — Explore breakthroughs in Drug Discovery & Development Chemical Biology Molecular Design, Computational Drug Design, Medicinal Natural Products, and Pharmacology & Translational Therapeutics.

Global Networking — Meet leading academicians, pharmaceutical scientists healthcare professionals industry experts, and young researchers.

Learn From World Leaders — Interact with internationally recognized keynote speakers and distinguished scientists shaping the future of medicine.

Experience Kyoto in Cherry Blossom Season — Combine scientific excellence with unforgettable cultural experiences in one of Japan's most historic cities.

Foster Collaborations — Create opportunities for interdisciplinary partnerships industry engagement and future innovations.

Scientific Excellence — Driving scientific progress through exceptional research innovation, and collaboration across borders.