Date: July 31, 2025

Academic Symposium on

"Frontiers in Biologics Development: Towards a Brighter Future for Thailand"

as a Tribute to Professor Dr. Her Royal Highness Princess Chulabhorn Mahidol for Her Vision and Leadership in Establishing Drug Self-reliance for Thailand

Organized by Chulabhorn Research Institute

August 1st, 2025

at Chulabhorn Research Institute Convention Center, Bangkok, Thailand

Background

For over two decades, Thailand's life sciences community has been shaped by visionary leadership, key partnerships among stakeholders, and a shared commitment to improving the lives of its people. This academic symposium aims to reflect on that journey, but to also importantly plan the road ahead.

With the vision and leadership of Professor Dr. Her Royal Highness Princess Chulabhorn Mahidol, President of the Chulabhorn Research Institute and Chancellor of the Chulabhorn Graduate Institute Council, Thailand has developed a vibrant ecosystem where teaching, training, and translational science converge to enhance public health and well-being. This academic symposium is a celebration of that progress, and a call to action for what lies ahead.

The goal is to unite researchers, educators, innovators, and leaders from Thailand and beyond towards reinforcing our shared purpose of advancing scientific knowledge, enhancing human capacity, promoting impactful collaborations across disciplines, and translating them to serve humanity. Together, from vision to realization, the aim is to shape the future of life sciences in Thailand and beyond.

Objectives

- To honor the vision and leadership of Her Royal Highness Princess Chulabhorn Mahidol in advancing translational research in Thailand.
- To reflect on Thailand's journey from capacity building to biotherapeutics innovation.
- To highlight key milestones and lessons from various leaders in Life Sciences.
- To foster future scientific collaboration between Thailand and the global research community.

List of Speakers:

- **Professor Bernard Arulanandam**
  Tufts University Vice Provost for Research and
  Professor of Immunology, Tufts School of Medicine, USA

- **Professor Helen Boucher (M.D.)**
  Dean and Professor of Medicine
  Tufts University School of Medicine, USA

- **Professor John M. Essigmann**
  Professor of Chemistry, Biological Engineering and Toxicology,
  Department of Bioengineering,
  Massachusetts Institute of Technology, USA

- **Associate Professor Mayuree Fuangthong**
  Research Scientist II, Center for Biologics Research and Development (CBRD),
  Chulabhorn Research Institute, Thailand

- **Professor Jenny Low (M.D.)**
  Senior Consultant and Professor
  Department of Infectious Diseases, Singapore General Hospital,
  Vice chair (Research), Academic Clinical Programme, Medicine,
  SingHealth Duke-NUS Medical School and
  Deputy Scientific Director, SingHealth lnvestigational Medicine Unit, Singapore

- **Dr. Uma Narayanasami (M.D.)**
  Medical Oncologist/ Hematologist
  Massachusetts General Hospital Harvard Medical School, USA

- **Dr. Trairak Pisitkun (M.D.)**
  Affiliated Researcher, Center of Excellence in Systems Biology,
  Faculty of Medicine, Chulalongkorn University, Thailand

- **Professor Ram Sasisekharan**
  Alfred H. Caspary Professor of Biological Engineering,
  Department of Bioengineering,
  Massachusetts Institute of Technology, USA

- **Professor Tan Chuen Wen**
  Deputy Director, Department of Haematology,
  Singapore General Hospital, Professor, Duke-NUS Medicine,
  President-elect - Singapore Society of Haematology, Singapore

- **Dr. Janet Woodcock (M.D.)**
  Former Principal Deputy Commissioner, U.S. FDA

- **Ms. Worasuda Yoongthong**
  Director of the Medicines Regulation Division,
  Thai Food and Drug Administration, Thailand

SCIENTIFIC PROGRAM

August 1st, 2025

08:00 – 08:30 *Registration*

Session I: Opening Ceremony

08:30 - Guests to be seated in the Convention Hall

09:00 - **Arrival of Professor Dr. Her Royal Highness Princess Chulabhorn Mahidol**
President of the Chulabhorn Research Institute, Thailand

- **Report by Emeritus Professor Dr. *Khunying* Mathuros Ruchirawat**
Vice President for Research and Academic Affairs,
Chulabhorn Research Institute, Thailand

- **Royal Address by Professor Dr. Her Royal Highness Princess Chulabhorn Mahidol**

- Video Presentation

09:20 – 09:35 **A Tribute to Her Royal Highness Princess Chulabhorn Mahidol: Thailand's Role in the Global Biologics Era**
Professor Ram Sasisekharan
Massachusetts Institute of Technology, USA

As Thailand emerges as a key player in biopharmaceutical innovation, this session offers a forward-looking perspective on how the country can shape the global future of biologics. With insights into new therapeutic frontiers and innovation ecosystems, this talk explores the strategic directions Thailand must take to become a true leader in translational medicine.

09:35 – 09:50 **From Blackboard to Benchside: The Origin of Biologics in Thailand**
Professor John M. Essigmann
Massachusetts Institute of Technology, USA

This session traces the visionary roots of the Chulabhorn Research Institute, from its early days in teaching and basic science to its groundbreaking role in Thailand's first successful biologics registration. A journey once considered a dream, now a national milestone in biomedical innovation.

09:50 – 10:30 *Coffee Break*

Session II – Regulatory and Clinical Innovations

10:30 – 10:50 **Harmonizing for Health: Regulatory Innovation Across Border** *(Virtual Presentation)*
Dr. Janet Woodcock
Former Principal Deputy Commissioner, U.S. FDA

Regulatory science is undergoing a global shift—away from rigid rules and toward adaptive, evidence-based approaches. Delivered by a former US FDA expert, this session explores how international regulatory collaboration can accelerate access to safe, effective, and affordable biologics, especially in low- and middle-income regions. A must-attend for those navigating regulatory pathways in an interconnected world.

10:50 – 11:10 **From Resistant to Resilience: AMR as a Case Study for Clinical Innovation**
Professor Helen Boucher (M.D.)
Dean of Tufts Medical School and Chief Academic Officer of Tufts Medicine, USA

Antimicrobial resistance (AMR) is not just a crisis—it's an opportunity to rethink how we conduct and regulate clinical research. This session, led by a global authority on AMR trials, will use real-world case studies to illustrate how science-driven, flexible regulatory strategies can transform crisis response into long-term innovation for global health.

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Session III – Panel Discussions

11:10 – 11:50 **Biologics in the Future of Cancer Care**

Moderators
- ***Professor John M. Essigmann***
- ***Professor Ram Sasisekharan***

Panelists
- ***Dr. Trairak Pisitkun***
- ***Dr. Uma Narayanasami***
- ***Dr. Janet Woodcock*** *(Virtual Presentation)*

With oncology leading the way in biologics innovation, this panel brings together experts to discuss the evolving landscape of cancer therapeutics—from monoclonal antibodies to personalized treatments. Learn how emerging trends are reshaping clinical strategy, manufacturing, and regulatory review in one of the most dynamic fields in modern medicine.

11.50 – 12.30 **Transforming Rare Disease access through Innovation**

Moderator
- ***Professor Ram Sasisekharan***

Panelists
- ***Ms. Worasuda Yoongthong***
- ***Professor Ram Sasisekharan***
- ***Dr. Janet Woodcock*** *(Virtual Presentation)*
- ***Professor Tan Chuen Wen***
- ***Professor Jenny Low***

Rare diseases represent some of the most urgent and complex challenges in healthcare. This discussion will examine how cutting-edge science, novel clinical approaches, and patient-centered regulatory frameworks are converging to improve access to biologics for rare disease populations.

12:30 – 13.15 *Buffet Lunch*

13.15 – 14.00 **Advanced Analytics and Reinventing Biomanufacturing for the Next Era**

Moderator
- ***Professor Ram Sasisekharan***

Panelists
- ***Ms. Worasuda Yoongthong***
- ***Professor Ram Sasisekharan***
- ***Professor Jenny Low***
- ***Professor Bernard Arulanandam***
- ***Associate Professor Mayuree Fuangthong***

Biomanufacturing is evolving rapidly, powered by data-driven analytics, automation, and precision quality control. In this panel, leading scientists and regulators explore how next-generation technologies can enhance speed without compromising safety—ushering in a new paradigm of scalable, agile, and compliant biologics production.

GENERAL INFORMATION

Venue: The Chulabhorn Research Institute (CRI) Convention Center
Lak Si, Bangkok, Thailand

Registration:

Location: The Registration Counter is located on the ground floor of the convention center.

Hours: From **08:00** to **11:00**

Audio-Visual Center:

Location: The Audio-Visual Center is located between the Secretariat Office and the Convention Hall on the second floor.

Hours: From **08:00** to **13:00**

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Floor Plan: