



The 9<sup>th</sup> Princess Chulabhorn International Science Congress  
THE CHALLENGES OF ONE HEALTH: THE ROLES OF BIOSCIENCES AND CHEMISTRY  
*December 15 - 18, 2024, Bangkok, THAILAND*

## OPENING CEREMONY

*Sunday, December 15, 2024*

<b>Time</b>	<b>Grand Ballroom, Shangri-La Hotel</b>
<b>16:45</b>	- Guests to be seated in the Ballroom
<b>17:00</b>	- Arrival of His Majesty King Maha Vajiralongkorn Phra Vajiraklaochaoyuhua and Her Majesty Queen Suthida Bajrasudhabimalalakshana
<b>17:05</b>	- Report by Professor Dr. H.R.H. Princess Chulabhorn Mahidol, Chairperson of the National Organizing Committee
<b>17:10</b>	- Opening Address by His Majesty King Maha Vajiralongkorn Phra Vajiraklaochaoyuhua - Video Presentation in honor of the 6 <sup>th</sup> cycle (72 years) birthday of King Maha Vajiralongkorn Phra Vajiraklaochaoyuhua - Video Presentation in honor of His Late Majesty King Bhumibol Adulyadej the Great

# PC IX - PROGRAM OVERVIEW

Sunday, December 15, 2024	Monday, December 16, 2024	Tuesday, December 17, 2024	Wednesday, December 18, 2024
<b>REGISTRATION</b>  <b>10:00 – 15:00</b>	<b>09:00</b> <i>Grand Ballroom</i> <b>KEYNOTE LECTURE:</b> From Environmental Exposures to Disease Manifestation: The Lasting Impacts of Arsenic <b>Professor Dr. HRH Princess Chulabhorn</b> <i>(Chulabhorn Research Institute, Thailand)</i>  <b>SPECIAL REMARKS:</b> <b>Tedros Adhanom Ghebreyesus</b> <i>(WHO HQ, Geneva)</i>	<b>09:00</b> <i>Grand Ballroom</i> <b>PLENARY LECTURES:</b>  <b>PL3:</b> Drug Development and Regulatory Sciences: Turning Crises into Opportunities — A Valuable Perspective <b>Ram Sasisekharan</b> (U.S.A.)  <b>PL4:</b> The Two Sides of Precision Medicine: Proteomic Enablement of Biomarkers and Therapeutics <b>Jennifer van Eyk</b> (U.S.A.)  <b>PL5:</b> Programmable Therapeutics for Genetic Diseases <b>John M. Essigmann</b> (U.S.A.)  <b>PL6:</b> The Lessons Learned from COVID-19 <b>George F. Gao</b> (P.R. China)	<b>09:00 SYMPOSIA:</b> <b>S10:</b> Protein Changes in Disease (S-39 to S-43)  <b>S11:</b> Relationships between Genetic Mutation and the Environment in Cancer and Infectious Diseases (S-44 to S-47) <b>SPECIAL PLATFORM SESSION ON CANCERS</b> <i>(sO-5 to sO-8)</i>  <b>S12:</b> Role of Chemical and Biological Sciences for Discovery of Modern Drugs II (S-48 to S-51) <b>FREE COMMUNICATION III</b> <i>(O-26 to O-29)</i>
<i>Grand Ballroom</i> <b>OPENING CEREMONY:</b> <b>16:45</b> Guests to be seated in the Ballroom  <b>17:00</b> Arrival of His Majesty King Maha Vajiralongkorn Phra Vajiraklaochaoyuhua and Her Majesty Queen Suthida Bajrasudhabimalalakshana  <b>17:05</b> Report by Professor Dr. HRH Princess Chulabhorn  <b>17:10</b> Opening Address by His Majesty King Maha Vajiralongkorn  Video Presentation in honor of the 6 <sup>th</sup> cycle (72 years) birthday of King Maha Vajiralongkorn Phra ajiraklaochaoyuhua  Video Presentation in honor of His Late Majesty King Bhumibol Adulyadej the Great	<b>PLENARY LECTURES:</b> <b>PL1:</b> One Health Innovations: Predicting and Preempting Spillover Infections <b>Julie L. Gerberding</b> (U.S.A.)  <b>PL2:</b> AMR in 2024: We Still Have an Awareness Problem <b>Helen W. Boucher</b> (U.S.A.)	<b>L U N C H</b>	<b>S12:</b> Role of Chemical and Biological Sciences for Discovery of Modern Drugs II (S-48 to S-51) <b>FREE COMMUNICATION III</b> <i>(O-26 to O-29)</i>
	<b>POSTER PRESENTATION</b>	<b>POSTER PRESENTATION</b>	<i>Grand Ballroom</i>
	<b>13:00 SYMPOSIA:</b> <b>S1:</b> Antimicrobial Resistance (AMR) and One Health: Critical Issues (S-1 to S-3) <b>S2:</b> One Health: Climate Change and Communicable diseases (S-4 to S-7) <b>S3:</b> Role of Chemical and Biological Sciences for Discovery of Modern Drugs I (S-8 to S-13) <b>S4:</b> Genetic Diseases: From Detection to Therapy (S-14 to S-19)	<b>13:00 SYMPOSIA:</b> <b>S5:</b> Early Detection and Prevention of Cancer (S-20 to S-22) <b>S6:</b> Antimicrobial Resistance: One Health Perspectives (S-23 to S-26) <b>S7:</b> Zoonotic Diseases (S-27 to S-30) <b>S8:</b> One Health and Therapeutics (S-31 to S-33) <b>S9:</b> Environmental Risk Factors Affecting Health (S-34 to S-38) <b>SPECIAL PLATFORM SESSION ON ONE HEALTH</b> (sO-1 to sO-4) <b>FREE COMMUNICATION I</b> (O-1 to O-11) <b>FREE COMMUNICATION II</b> (O-12 to O-25)	<b>13:00 – 15:30</b> <ul style="list-style-type: none"> <li>• <b>ROUNDTABLE DISCUSSION:</b> Regulatory Innovation</li> <li>• <b>ROUNDTABLE DISCUSSION:</b> AMR Policy Impacting South and Southeast Asia</li> </ul> <b>16:00 CLOSING CEREMONY:</b> <ul style="list-style-type: none"> <li>• Presentation of the Princess Chulabhorn Gold Medal Award of Appreciation</li> <li>• Closing Remarks by Professor Dr. HRH Princess Chulabhorn</li> </ul>
	<b>CONGRESS DINNER</b> at Royal Thai Navy Convention Hall		

# SCIENTIFIC PROGRAM

## SUMMARY

Monday, December 16, 2024

Time	Grand Ballroom		
09:00	<b>Keynote Lecture:</b> From Environmental Exposures to Disease Manifestation: The Lasting Impacts of Arsenic <i>Professor Dr. H.R.H. Princess Chulabhorn Mahidol (Chulabhorn Research Institute, Thailand)</i>		
09:45	<b>Special Remarks:</b> <i>Tedros Adhanom Ghebreyesus (WHO, Switzerland)</i>		
10:00	<b>Chairpersons:</b> Ram Sasisekharan (U.S.A.) and M.R. Jisnuson Svasti (Thailand)		
10:00	<b>Plenary Lecture 1:</b> One Health: Predicting and Preempting Spillover and Infection Dissemination <i>Julie L. Gerberding (U.S.A.)</i>		PL-1
10:45	<b>Plenary Lecture 2:</b> AMR in 2024: We Still Have an Awareness Problem <i>Helen W. Boucher (U.S.A.)</i>		PL-2
11:30	L U N C H		
POSTER PRESENTATION: PA-01 to PB-30 (Discussion 08:30-09:00 and 12:00-13:00)			
Time	Ballroom I	Ballroom II	Ballroom III
13:00	<p><b>SYMPOSIUM I:</b> <b>Antimicrobial Resistance (AMR) and One Health: Critical Issues</b> <b>Chairperson:</b> Helen W. Boucher (U.S.A.) <b>Co-chairperson:</b> Mayuree Fuangthong (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>AMR Governance: Critical <b>S-1</b> Beyond the Science <i>Adam Kamradt-Scott (U.S.A.)</i></p> <p>Is This the End of the Antibiotic Era? <b>S-2</b> <i>David Paterson (Singapore)</i></p> <p>Ensuring Sustainable Access <b>S-3</b> to Effective Antibiotics: Key Messages from the Lancet Series <i>Ramanan Laxminarayan (U.S.A.)</i></p> <p><b>SYMPOSIUM II:</b> <b>One Health: Climate Change and Communicable diseases</b> <b>Chairperson:</b> Paul R. Hunter (U.K.) <b>Co-chairperson:</b> Mayuree Fuangthong (Thailand)</p> <p>World Health Organization Calls <b>S-4</b> for Urgent Action to Mitigate Climate-Related Health Risks and Promote Resilience through A One Health Perspective <i>Maria Neira (WHO, Switzerland)</i></p> <p>Climate Change and Emerging <b>S-5</b> Infectious Diseases <i>Paul R. Hunter (U.K.)</i></p> <p>Rational Design of Vaccines <b>S-6</b> against Zika and Dengue Viruses <i>Lianpan Dai (P.R. China)</i></p> <p>Elimination of Hepatitis in Thailand <b>S-7</b> by the Year 2030 <i>Yong Poovorawan (Thailand)</i></p>	<p><b>SYMPOSIUM III:</b> <b>Role of Chemical and Biological Sciences for Discovery of Modern Drugs I</b> <b>Chairperson:</b> Geoffrey A. Cordell (U.S.A.) <b>Co-chairperson:</b> Charnsak Thongsornkleeb (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>Phytochemicals of Liverworts: <b>S-8</b> Structures, Biological Activity, and Their Application to Foods and Medicinal Drugs <i>Yoshinori Asakawa (Japan)</i></p> <p>Phenotypic Assays and Analog <b>S-9</b> Synthesis: Effective Tools for the Discovery and Development of Marine Natural Product Drug Leads <i>Raymond Andersen (Canada)</i></p> <p>Discovery of Antiviral Natural <b>S-10</b> Products Based on Native Mass Spectrometry and Molecular Networking <i>Yang Ye (P.R. China)</i></p> <p>Natural Product Biosynthesis <b>S-11</b> and Associated Molecular Innovation <i>Wen Liu (P.R. China)</i></p> <p>Efficient Synthesis of Bioactive <b>S-12</b> Steroid and Terpenoid Natural Products <i>Jinghan Gui (P.R. China)</i></p> <p>One Health - An Aspect of the <b>S-13</b> Food, Medicines, and Environment Conundrum for 2040 and Beyond <i>Geoffrey A. Cordell (U.S.A.)</i></p>	<p><b>SYMPOSIUM IV:</b> <b>Genetic Diseases: From Detection to Therapy</b> <b>Chairperson:</b> Pornswan Wasant (Thailand) <b>Co-chairperson:</b> Suthat Fucharoen (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>Thalassemia: A Model of Genetic <b>S-14</b> Disease <i>Suthat Fucharoen (Thailand)</i></p> <p>Over 3 Decades of Organizing <b>S-15</b> Services for Inherited Metabolic Disorders in Thailand <i>Pornswan Wasant (Thailand)</i></p> <p>Gaucher Disease as A Model for <b>S-16</b> Rare Disorders <i>Ari Zimran (Israel)</i></p> <p>Rare Inborn Metabolic Disorders: <b>S-17</b> From Mystery to Diagnosis and Management <i>Duangrurdee Wattanasirichaigoon (Thailand)</i></p> <p>Newborn Screening by Tandem <b>S-18</b> Mass Spectrometry: From Early Detection of Rare Diseases to Therapy <i>Nithiwat Vatanavicharn (Thailand)</i></p> <p>Lysosomal Storage Diseases: <b>S-19</b> Progress in Diagnosis and Therapy in Thailand <i>Thipwimol Tim-Aroon (Thailand)</i></p>

# PROGRAM SUMMARY

Tuesday, December 17, 2024

Time	Grand Ballroom	
	<b>PLENARY LECTURES:</b>	<b>Abstract No.</b>
	<b>Chairpersons:</b> John M. Essigmann (U.S.A.) and Skorn Mongkolsuk (Thailand)	
09:00	<b>Plenary Lecture 3:</b> Drug Development and Regulatory Sciences: Turning Crises into Opportunities — A Valuable Perspective <i>Ram Sasisekharan (U.S.A.)</i>	PL-3
09:45	<b>Plenary Lecture 4:</b> The Two Sides of Precision Medicine: Proteomic Enablement of Biomarkers and Therapeutics <i>Jennifer van Eyk (U.S.A.)</i>	PL-4
10:30	<b>Plenary Lecture 5:</b> Programmable Therapeutics for Genetic Diseases <i>John M. Essigmann (U.S.A.)</i>	PL-5
11:15	<b>Plenary Lecture 6:</b> The Lessons Learned from COVID-19 <i>George F. Gao (P.R. China)</i>	PL-6
12:00	L U N C H	

POSTER PRESENTATION: **PC-01 to PF-07** (Discussion 12:30-13:00 and 16:30-17:00)

Time	Ballroom I	Ballroom II	Ballroom III	
13:00	<p><b><u>SYMPOSIUM VII:</u></b> <b>Zoonotic Diseases</b> <b>Chairperson:</b> Khongsak Thiangtum (Thailand) <b>Co-chairperson:</b> Waraphon Phimpraphai (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>Protecting Animals and Human Lives from Rabies Project: One Health Approach for Rabies Control and Elimination in Thailand <i>Professor Dr. H.R.H. Princess Chulabhorn Mahidol (Thailand)</i> <b>S-27</b></p> <p>One Health in Actions on Zoonoses and Agrifood Systems: Perspectives for Global Health and Food Security <i>Thanawat Tiensin (FAO, Italy)</i> <b>S-28</b></p> <p>Successful One Health Approach to Reduce Zoonotic Disease from Pigs <i>Cate Dewey (Canada)</i> <b>S-29</b></p> <p>Complexity, Context, and Community Engagement: Centering Anthropology Within the One Health Paradigm <i>Elizabeth Finnis (Canada)</i> <b>S-30</b></p> <p><b><u>SYMPOSIUM VIII:</u></b> <b>One Health and Therapeutics</b> <b>Chairpersons:</b> Helen W. Boucher (U.S.A.) <b>Co-chairperson:</b> Ram Sasisekharan (U.S.A.)</p> <p>Vaccine Manufacturing Considerations for Pandemic Preparedness <i>Rahul Singhvi (U.S.A.)</i> <b>S-31</b></p> <p>Design and Patterns of Optimized Drug Combinations for TB <i>Bree Aldridge (U.S.A.)</i> <b>S-32</b></p> <p>Development of Multi-Epitope Subunit Vaccines Against <i>Acinetobacter baumannii</i> <i>Bernard Arulanandam (U.S.A.)</i> <b>S-33</b></p>	<p><b><u>SYMPOSIUM V:</u></b> <b>Early Detection and Prevention of Cancer</b> <b>Chairperson:</b> Xin Wei Wang (U.S.A.) <b>Co-chairperson:</b> Jittiporn Chaisaingmongkol (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>Adductomic Strategies for Emerging Risk Factors in Liver Cancer <i>John D. Groopman (U.S.A.)</i> <b>S-20</b></p> <p>Liver Cancer Prevention <i>Hashem B. El-Serag (U.S.A.)</i> <b>S-21</b></p> <p>Emerging Strategies of Early Detection of Liver Cancer <i>Xin Wei Wang (U.S.A.)</i> <b>S-22</b></p> <p><b><u>SYMPOSIUM VI:</u></b> <b>Antimicrobial Resistance: One Health Perspectives</b> <b>Chairperson:</b> Peter Dedon (U.S.A.) <b>Co-chairperson:</b> Nisanart Charoenlap (Thailand)</p> <p>One Health Selection and Transmission of Antibiotic Resistance in Thailand, Argentina and the United Kingdom <i>Matthew B. Avison (U.K.)</i> <b>S-23</b></p> <p>Lessons from Wastewater Surveillance: Impact of COVID-19 on AMR <i>Motoyuki Sugai (Japan)</i> <b>S-24</b></p> <p>Mining the Epitranscriptome for First-In-Class Antimicrobials <i>Peter Dedon (U.S.A.)</i> <b>S-25</b></p> <p>AMASS: AutoMated Tool for Antimicrobial Resistance Surveillance System – How Thailand Utilizes Timely Data from 127 Public Hospitals for Actions at the Facility and National Levels <i>Direk Limmathurotsak</i> <b>S-26</b></p>	<p><b><u>SYMPOSIUM IX:</u></b> <b>Environmental Risk Factors Affecting Health</b> <b>Chairperson:</b> Martin van den Berg (The Netherlands) <b>Co-chairperson:</b> Piyajit Watcharasit (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>Towards One Health: Toxicokinetics at the Intersection of Human and Ecological Health <i>Michelle Embry (U.S.A.)</i> <b>S-34</b></p> <p>Food Safety from a One Health Perspective <i>Maged Younes (U.K.)</i> <b>S-35</b></p> <p>Per- and Polyfluoroalkyl Substances (PFAS): The Complexity in Toxicity and Risk Assessment <i>Martin van den Berg (The Netherlands)</i> <b>S-36</b></p> <p>The Air We Breathe – Chemical Challenges to Health, A UK-Thailand Perspective <i>Dudley E. Shallcross (U.K.)</i> <b>S-37</b></p> <p>PM<sub>2.5</sub> Toxicity and Adverse Health Effects <i>Herman Autrup (Denmark)</i> <b>S-38</b></p> <p><b><u>SPECIAL PLATFORM SESSION</u></b> <b><u>ON ONE HEALTH</u></b> (sO-1 to sO-4)</p>	<p><b>FREE COMMUNICATION I (O-1 to O-11) at The Study</b></p> <p><b>FREE COMMUNICATION II (O-12 to O-25) at The Garden Gallery</b></p>

# PROGRAM SUMMARY

Wednesday, December 18, 2024

Time	Ballroom I	Ballroom II	Ballroom III
9:00	<p><b><u>SYMPOSIUM X:</u></b>  <b>Protein Changes in Disease</b>  <b>Chairperson:</b>                      John R. Yates III (U.S.A.)  <b>Co-chairperson:</b>                      Sittiruk Roytrakul (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>How a Single Mutation in CFTR S-39                      Causes the Systemic Disease Cystic                      Fibrosis: Interactions, PTMs, and                      Structure  <i>John R. Yates III (U.S.A.)</i></p> <p>Ultrasensitive Proteomics for S-40                      Precision Oncology  <i>Yu-Ju Chen (Chinese Taipei)</i></p> <p>Navigating Drug-Targetome- S-41                      Phenotype Interaction and                      Its Translational Implications  <i>Ho Jeong Kwon (Republic of Korea)</i></p> <p>Advancement in Peptidoproteomics S-42                      for Cancer Research  <i>Sittiruk Roytrakul (Thailand)</i></p> <p>Exploring Microproteins and S-43                      Interferon Pathways in Colorectal                      Cancer: Implications for Disease                      Progression and FOLFOX                      Chemoresistance  <i>Teck Yew Low (Malaysia)</i></p>	<p><b><u>SYMPOSIUM XI:</u></b>  <b>Relationships between                      Genetic Mutation and the                      Environment in Cancer and                      Infectious Diseases</b>  <b>Chairperson:</b>                      Tariq Enver (U.K.)  <b>Co-chairperson:</b>                      Panida Navasumrit (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>Genetic and Epigenetic Cues S-44                      Shape Initiation, Promotion and                      Therapy Resistance in Childhood                      Leukaemia  <i>Tariq Enver (U.K.)</i></p> <p>Towards an Understanding of S-45                      Air Pollution Driven Lung Cancer                      Promotion  <i>Charles Swanton (U.K.)</i></p> <p>Axonal Injury Initiates Glioblastoma S-46  <i>Simona Parrinello (U.K.)</i></p> <p>What Does Our Knowledge of S-47                      Innate Immune Regulation during                      Infection Tell Us about Innate Immune                      Contribution to Cancer Outcome?  <i>Greg Towers (U.K.)</i></p> <p><b><u>SPECIAL PLATFORM SESSION</u></b>  <b><u>ON CANCERS</u></b>                      (sO-5 to sO-8)</p>	<p><b><u>SYMPOSIUM XII:</u></b>  <b>Role of Chemical and                      Biological Sciences for                      Discovery of Modern Drugs II</b>  <b>Chairperson:</b>                      Roderick Bates (Singapore)  <b>Co-chairperson:</b>                      Jutatip Boonsombat (Thailand)</p> <p style="text-align: right;"><b>Abstract No.</b></p> <p>The Infinite Loop: Machine Learning S-48                      for Discovery, Delivery, and Rapid                      Manufacturing of Potential Medicines  <i>Bradley L. Pentelute (U.S.A.)</i></p> <p>Antibody-Drug Conjugates (ADCs) – S-49                      A Perfect Synergy?  <i>John A. Hartley (U.K.)</i></p> <p>Developments of Molecular Probes S-50                      for Detection of Biological Targets  <i>Sun-Joon Min (Republic of Korea)</i></p> <p>From Structural Biology to Organic S-51                      Synthesis: A Collaborative Search for                      New Anti-Mycobacterial Drugs  <i>Roderick Bates (Singapore)</i></p> <p><b><u>FREE COMMUNICATION III</u></b>                      (O-26 to O-29)</p>
12:00	L U N C H		
Time	<b>Grand Ballroom</b>		
13:00	<p><b><u>CLOSING SESSION:</u></b></p> <p><b>REGULATORY INNOVATION</b></p> <p><b>Moderators:</b> Ram Sasisekharan (U.S.A.) and Surachoke Tangwiwat (Thailand)</p> <ul style="list-style-type: none"> <li>U.S. FDA's Efforts to Advance Gene Therapy Development [Virtual Presentation] RD  <i>Peter Marks (U.S.A.)</i></li> <li>Perspectives from the Thai FDA  <i>Worasuda Yoongthong (Thailand)</i></li> </ul> <p><b>Roundtable Discussion:</b></p> <p><b>Panelists:</b> ● Helen W. Boucher (U.S.A.)                      ● Rahul Singvi (U.S.A.)                      ● Worasuda Yoongthong (Thailand)                      ● Ram Sasisekharan (U.S.A.)</p> <p><b>Roundtable Discussion - AMR Policy Impacting South and Southeast Asia</b></p> <p><b>Moderators:</b> Helen W. Boucher (U.S.A.) and Julie L. Gerberding (U.S.A.)</p> <p><b>Panelists:</b> ● Helen W. Boucher (U.S.A.)                      ● George F. Gao (P.R. China)                      ● Julie L. Gerberding (U.S.A.)                      ● Ramanan Laxminarayan (U.S.A.)                      ● David Paterson (Singapore)</p>		
16:00	<p><b><u>CLOSING CEREMONY:</u></b></p> <ul style="list-style-type: none"> <li>Presentation of the Princess Chulabhorn Gold Medal Award of Appreciation</li> <li>Closing Remarks by Professor Dr. H.R.H. Princess Chulabhorn</li> </ul>		

# DAILY PROGRAM

Monday, December 16, 2024

Grand Ballroom

**09:00 KEYNOTE LECTURE:**

From Environmental Exposures to Disease Manifestation:  
The Lasting Impact of Arsenic

**Professor Dr. HRH Princess Chulabhorn Mahidol**  
(Chulabhorn Research Institute, Thailand)

**09:45 SPECIAL REMARKS:**

**Tedros Adhanom Ghebreyesus** (World Health Organization, Switzerland)

**PLENARY LECTURES:**

**Chairpersons:** Ram Sasisekharan (U.S.A.)

**M.R. Jisnuson Svasti** (Thailand)

**Abstract No.**

**10:00 Plenary Lecture 1**

**PL-1**

One Health: Predicting and Preempting Spillover and Infection Dissemination

**Julie L. Gerberding** (Foundation for the National Institutes of Health, U.S.A.)

**10:45 Plenary Lecture 2**

**PL-2**

AMR in 2024: We Still Have an Awareness Problem

**Helen W. Boucher** (Tufts University, U.S.A.)

**11:30 LUNCH**

**SYMPOSIUM I: Antimicrobial Resistance (AMR) and One Health: Critical Issues**

**Chairperson:** Helen W. Boucher (U.S.A.)

**Co-chairperson:** Mayuree Fuangthong (Thailand)

		<b>Abstract No.</b>
<b>13:00</b>	AMR Governance: Critical Challenges Beyond the Science <i>Adam Kamradt-Scott (Tufts University, U.S.A.)</i>	<b>S-1</b>
<b>13:30</b>	Is This the End of the Antibiotic Era? <i>David Paterson (National University of Singapore, Singapore)</i>	<b>S-2</b>
<b>14:00</b>	Ensuring Sustainable Access to Effective Antibiotics: Key Messages from the Lancet Series <i>Ramanan Laxminarayan (One Health Trust, U.S.A.)</i>	<b>S-3</b>

**SYMPOSIUM II: One Health: Climate Change and Communicable Diseases**

**Chairperson:** Paul R. Hunter (U.K.)

**Co-chairperson:** Mayuree Fuangthong (Thailand)

<b>14:30</b>	World Health Organization Calls for Urgent Action to Mitigate Climate-Related Health Risks and Promote Resilience through A One Health Perspective [VDO presentaion] <i>Maria Neira (World Health Organization, Switzerland)</i>	<b>S-4</b>
<b>14:45</b>	Climate Change and Emerging Infectious Diseases <i>Paul R. Hunter (University of East Anglia, U.K.)</i>	<b>S-5</b>
<b>15:15</b>	Rational Design of Vaccines against Zika and Dengue Viruses <i>Lianpan Dai (Chinese Academy of Sciences, P.R. China)</i>	<b>S-6</b>
<b>15:45</b>	Elimination of Hepatitis in Thailand by the Year 2030 <i>Yong Poovorawan (Chulalongkorn University, Thailand)</i>	<b>S-7</b>

**Ballroom II*****SYMPOSIUM III: Role of Chemical and Biological Sciences for  
Discovery of Modern Drugs I*****Chairperson:** Geoffrey A. Cordell (U.S.A.)**Co-chairperson:** Charnsak Thongsornkleeb (Thailand)

		<b>Abstract No.</b>
<b>13:00</b>	Phytochemicals of Liverworts: Structures, Biological Activity, and Their Application to Foods and Medicinal Drugs <i>Yoshinori Asakawa (Tokushima Bunri University, Japan)</i>	<b>S-8</b>
<b>13:30</b>	Phenotypic Assays and Analog Synthesis: Effective Tools for the Discovery and Development of Marine Natural Product Drug Leads <i>Raymond Andersen (University of British Columbia, Canada)</i>	<b>S-9</b>
<b>14:00</b>	Discovery of Antiviral Natural Products Based on Native Mass Spectrometry and Molecular Networking <i>Yang Ye (Chinese Academy of Sciences, P.R. China)</i>	<b>S-10</b>
<b>14:30</b>	Natural Product Biosynthesis and Associated Molecular Innovation <i>Wen Liu (Chinese Academy of Sciences, P.R. China)</i>	<b>S-11</b>
<b>15:00</b>	Efficient Synthesis of Bioactive Steroid and Terpenoid Natural Products <i>Jinghan Gui (Chinese Academy of Sciences, P.R. China)</i>	<b>S-12</b>
<b>15:30</b>	One Health - An Aspect of the Food, Medicines, and Environment Conundrum for 2040 and Beyond <i>Geoffrey A. Cordell (Natural Products Inc., U.S.A.)</i>	<b>S-13</b>



**SYMPOSIUM IV: Genetic Diseases: From Detection to Therapy****Chairperson: Pornswan Wasant** (Thailand)**Co-chairperson: Suthat Fucharoen** (Thailand)

	<b>Abstract No.</b>
<b>13:00</b> Thalassemia: A Model of Genetic Disease <i>Suthat Fucharoen</i> (Mahidol University, Thailand)	<b>S-14</b>
<b>13:30</b> Over 3 Decades of Organizing Services for Inherited Metabolic Disorders in Thailand <i>Pornswan Wasant</i> (Mahidol University, Thailand)	<b>S-15</b>
<b>14:00</b> Gaucher Disease as a Model for Rare Disorders <i>Ari Zimran</i> (Hebrew University of Jerusalem, Israel)	<b>S-16</b>
<b>14:30</b> Rare Inborn Metabolic Disorders: From Mystery to Diagnosis and Management <i>Duangrurdee Wattanasirichaigoon</i> (Mahidol University, Thailand)	<b>S-17</b>
<b>15:00</b> Newborn Screening by Tandem Mass Spectrometry: From Early Detection of Rare Diseases to Therapy <i>Nithiwat Vatanavicharn</i> (Mahidol University, Thailand)	<b>S-18</b>
<b>15:20</b> Lysosomal Storage Diseases: Progress in Diagnosis and Therapy in Thailand <i>Thipwimol Tim-Aroon</i> (Mahidol University, Thailand)	<b>S-19</b>

**Grand Ballroom****PLENARY LECTURES:**

**Chairpersons:** John M. Essigmann (U.S.A.)  
Skorn Mongkolsuk (Thailand)

**Abstract No.**

- |       |                                                                                                                                                                                                                    |      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 09:00 | <b><u>Plenary Lecture 3</u></b><br>Drug Development and Regulatory Sciences: Turning Crises into Opportunities — A Valuable Perspective<br><i>Ram Sasisekharan (Massachusetts Institute of Technology, U.S.A.)</i> | PL-3 |
| 09:45 | <b><u>Plenary Lecture 4</u></b><br>The Two Sides of Precision Medicine: Proteomic Enablement of Biomarkers and Therapeutics<br><i>Jennifer van Eyk (Cedars-Sinai Medical Center, U.S.A.)</i>                       | PL-4 |
| 10:30 | <b><u>Plenary Lecture 5</u></b><br>Programmable Therapeutics for Genetic Diseases<br><i>John M. Essigmann (Massachusetts Institute of Technology, U.S.A.)</i>                                                      | PL-5 |
| 11:15 | <b><u>Plenary Lecture 6</u></b><br>The Lessons Learned from COVID-19<br><i>George F. Gao (Chinese Academy of Sciences, P.R. China)</i>                                                                             | PL-6 |
| 12:00 | LUNCH                                                                                                                                                                                                              |      |

**SYMPOSIUM VII: Zoonotic Diseases****Chairperson:** Khongsak Thiangtum (Thailand)**Co-chairperson:** Waraphon Phimprapai (Thailand)

		<b>Abstract No.</b>
<b>13:00</b>	Protecting Animals and Human Lives from Rabies Project: One Health Approach for Rabies Control and Elimination in Thailand <b>Professor Dr. H.R.H. Princess Chulabhorn Mahidol</b> (Chulabhorn Research Institute, Thailand)	<b>S-27</b>
<b>13:30</b>	One Health in Actions on Zoonoses and Agrifood Systems: Perspectives for Global Health and Food Security <b>Thanawat Tiensin</b> (Food and Agriculture Organization of the United Nations (FAO), Italy)	<b>S-28</b>
<b>14:00</b>	Successful One Health Approach to Reduce Zoonotic Disease from Pigs <b>Cate Dewey</b> (University of Guelph, Canada)	<b>S-29</b>
<b>14:30</b>	Complexity, Context, and Community Engagement: Centering Anthropology within the One Health Paradigm <b>Elizabeth Finnis</b> (University of Guelph, Canada)	<b>S-30</b>

**SYMPOSIUM VIII: One Health and Therapeutics****Chairperson:** Helen W. Boucher (U.S.A.)**Co-chairperson:** Ram Sasisekharan (U.S.A.)

<b>15:00</b>	Vaccine Manufacturing Considerations for Pandemic Preparedness <b>Rahul Singhvi</b> (National Resilience, Inc., U.S.A.)	<b>S-31</b>
<b>15:30</b>	Design and Patterns of Optimized Drug Combinations for TB <b>Bree Aldridge</b> (Tufts University, U.S.A.)	<b>S-32</b>
<b>16:00</b>	Development of Multi-Epitope Subunit Vaccines Against <i>Acinetobacter baumannii</i> <b>Bernard Arulanandam</b> (Tufts University School of Medicine, U.S.A.)	<b>S-33</b>

## Ballroom II

**SYMPOSIUM V: Early Detection and Prevention of Cancer****Chairperson:** Xin Wei Wang (U.S.A.)**Co-chairperson:** Jittiporn Chaisaingmongkol (Thailand)

		<b>Abstract No.</b>
<b>13:00</b>	Adductomic Strategies for Emerging Risk Factors in Liver Cancer <i>John D. Groopman (Johns Hopkins School of Medicine, U.S.A.)</i>	<b>S-20</b>
<b>13:30</b>	Liver Cancer Prevention <i>Hashem B. El-Serag (Baylor College of Medicine, U.S.A.)</i>	<b>S-21</b>
<b>14:00</b>	Emerging Strategies of Early Detection of Liver Cancer <i>Xin Wei Wang (National Cancer Institute, U.S.A.)</i>	<b>S-22</b>

**SYMPOSIUM VI: Antimicrobial Resistance: One Health Perspectives****Chairperson:** Peter Dedon (U.S.A.)**Co-chairperson:** Nisanart Charoenlap (Thailand)

		<b>Abstract No.</b>
<b>14:30</b>	One Health Selection and Transmission of Antibiotic Resistance in Thailand, Argentina and the United Kingdom <i>Matthew B. Avison (University of Bristol, U.K.)</i>	<b>S-23</b>
<b>15:00</b>	Lessons from Wastewater Surveillance: Impact of COVID-19 on AMR <i>Motoyuki Sugai (National Institute of Infectious Diseases, Japan)</i>	<b>S-24</b>
<b>15:30</b>	Mining the Epitranscriptome for First-In-Class Antimicrobials <i>Peter Dedon (Massachusetts Institute of Technology, U.S.A.)</i>	<b>S-25</b>
<b>16:00</b>	AMASS: AutoMated Tool for Antimicrobial Resistance Surveillance System – How Thailand Utilizes Timely Data from 127 Public Hospitals for Actions at the Facility and National Levels <i>Direk Limmathurotsakul (Mahidol University, Thailand)</i>	<b>S-26</b>

**SYMPOSIUM IX: Environmental Risk Factors Affecting Health****Chairperson: Martin van den Berg** (The Netherlands)**Co-chairperson: Piyajit Watcharasit** (Thailand)

		<b>Abstract No.</b>
<b>13:00</b>	Towards One Health: Toxicokinetics at the Intersection of Human and Ecological Health <i>Michelle Embry</i> (Health and Environmental Sciences Institute, U.S.A.)	<b>S-34</b>
<b>13:30</b>	Food Safety from a One Health Perspective <i>Maged Younes</i> (Robert Gordon University, U.K.)	<b>S-35</b>
<b>14:00</b>	Per- and Polyfluoroalkyl Substances (PFAS): The Complexity in Toxicity and Risk Assessment <i>Martin van den Berg</i> (Utrecht University, The Netherlands)	<b>S-36</b>
<b>14:30</b>	The Air We Breathe – Chemical Challenges to Health, A UK-Thailand Perspective <i>Dudley E. Shallcross</i> (University of Bristol, U.K.)	<b>S-37</b>
<b>15:00</b>	PM <sub>2.5</sub> Toxicity and Adverse Health Effects <i>Herman Autrup</i> (University of Aarhus, Denmark)	<b>S-38</b>

**Special Platform Session on One Health****Chairperson: Bette Meek** (Canada)**Co-chairperson: Kwanrawee Sirikanchana** (Thailand)

<b>15:30</b>	World Health Organization Calls for Enhanced Multisectoral Action to Improve Chemical Safety and Protect Public Health, Including Through A One Health Approach <i>Virunya Bhat</i> (World Health Organization, Switzerland)	<b>sO-1</b>
<b>15:45</b>	Development of Guidance on Problem Formulation for Implications for One Health Approaches <i>Bette Meek</i> (University of Ottawa, Canada)	<b>sO-2</b>
<b>16:00</b>	Harnessing Nano- and Bio-Technology Platforms for Human and Plant Health <i>Archana Bhaw-Luximon</i> (University of Mauritius, Mauritius)	<b>sO-3</b>
<b>16:15</b>	Tracking Communicable Diseases Using Wastewater in an Environmental One Health Framework <i>Kwanrawee Sirikanchana</i> (Chulabhorn Research Institute, Thailand)	<b>sO-4</b>

<i>The Study</i>
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**Free Communication I:****Chairperson: James Dubbs** (Thailand)**Co-chairperson: Rojana Sukchawalit** (Thailand)

		<b>Abstract No.</b>
<b>13:00</b>	The Impact of Glyphosate on Emergence of Antimicrobial Resistance <i>Nisanart Charoenlap</i> (Chulabhorn Research Institute, Thailand)	<b>O-1</b>
<b>13:15</b>	Biocide-associated Resistance Mechanisms in <i>Pseudomonas Aeruginosa</i> : Impacts on Antibiotics and Host Immunity <i>Adisak Romsang</i> (Mahidol University, Thailand)	<b>O-2</b>
<b>13:30</b>	Nano Boost: Enhancing Antibacterial Efficacy of Ceftriaxone with Magnesium Oxide Nanoparticles to Tackle Antimicrobial Resistance <i>Qaiser Akram</i> (University of Veterinary and Animal Sciences, Pakistan)	<b>O-3</b>
<b>13:45</b>	Evaluating AMR Surveillance Methodologies in Cholistan and Sahiwal Cattle: A Comparative Study of Sampling Strategies and Testing Techniques in Pakistan <i>Muhammad Amjad Ali</i> (Bahauddin Zakariya University, Pakistan)	<b>O-4</b>
<b>14:00</b>	Emergence of Multi-Drug Resistant Bacteria Due to Irrational Antibiotic Use in Livestock <i>Dhanushka Darshana Silva Nammuni</i> (University of Ruhuna, Sri Lanka)	<b>O-5</b>
<b>14:15</b>	The Gut Microbiota in Children from an E-waste Recycling Area with 6PPDQ and Other Pollutant Exposure <i>Xia Huo</i> (Jinan University, P.R. China)	<b>O-6</b>
<b>14:30</b>	Heavy Metal (Loid) Exposure Increases the Risk of Childhood Anemia: Evidence from a Typical E-waste Recycling Area in China <i>Bo Xie</i> (Jinan University, P.R. China)	<b>O-7</b>
<b>14:45</b>	Influence of E-waste Exposure on DNA Damage and DNA Methylation in People Living Near Recycling Sites <i>Jinhan Wang</i> (Chinese Academy of Medical Sciences, P.R. China)	<b>O-8</b>
<b>15:00</b>	The Health Status Assessment of Personnel Handling Electronic Waste in Developing Country: A Situation Analysis <i>Ravichandran Beerappa</i> (ICMR Regional Occupational Health Centre, India)	<b>O-9</b>
<b>15:15</b>	Blood Heavy Metals, DNA Damage, and Intelligence Quotient Among Children from an Informal E-waste Processing Village in Vietnam <i>Hien Thi Thu Ngo</i> (Phenikaa University, Vietnam)	<b>O-10</b>
<b>15:30</b>	Environmental Health Risks of Post-Ban Paraquat Residues in Phitsanulok's Nan River and Vicinity Areas <i>Pantip Hinhumpatch</i> (Naresuan University, Thailand)	<b>O-11</b>

**Free Communication II****The Garden Gallery****Chairperson: Daam Settachan** (Thailand)**Co-chairperson: Chotirat Rattanasinchai** (Thailand)

		<b>Abstract No.</b>
<b>13:00</b>	Enhancing Anti-glioma Activity with Combined Epigenetic Agents and MAGE-D4 Peptide-specific T Cells <i>Xiaoxun Xie</i> (Guangxi Medical University, P.R. China)	<b>O-12</b>
<b>13:15</b>	Adipose Tissue Levels of PBDEs in Relation to Chemotherapy Toxicity, Chemoresistance and Prognosis in Breast Cancer Patients <i>Lin Peng</i> (Shantou University Medical College, P.R. China)	<b>O-13</b>
<b>13:30</b>	Genetic Underpinnings of Hypoglycemia-Induced Epilepsy: Insights from GYS2 Gene Mutations <i>Muhammad Ilyas</i> (Riphah International University, Pakistan)	<b>O-14</b>
<b>13:45</b>	<i>Candida albicans</i> DNA-protein crosslink repair and its roles in stress response <i>Oranart Matangkasombut</i> (Chulabhorn Research Institute, Thailand)	<b>O-18</b>
<b>14:00</b>	Differential Requirement for IL-2 And IL-23 in the Differentiation and Effector Functions of T Cell Against Cancer <i>Cai Ping Koh</i> (Quest International University, Malaysia)	<b>O-16</b>
<b>14:15</b>	Clinical Feasibility of MALDETEC-CTC For Detection of Circulating Tumor Cells in Osteosarcoma Using Whole-Cell MALDI-TOF Mass Fingerprint <i>Santhasiri Orrapin</i> (Chiang Mai University, Thailand)	<b>O-17</b>
<b>14:30</b>	Aminoacyl-tRNA Synthetase Deficiencies: Clinical Presentations, Biochemical Analyses, and Functional Studies <i>Parith Wongkittichote</i> (Mahidol University, Thailand)	<b>O-15</b>
<b>14:45</b>	Metabolic Dysfunction in Mice with Adipocyte Specific Ablation of the Adenosine A2A Receptor <i>Narendra Verma</i> (Centre of Biomedical Research Lucknow, India)	<b>O-19</b>
<b>15:00</b>	PI3K/AKT Mediate Collagen Type 1- Induced Osteogenesis of Dental Pulp Stem Cells Via Focal Adhesion Mechanism <i>Norhayati Yusop</i> (Universiti Sains Malaysia, Malaysia)	<b>O-20</b>

(To be continued)

**The Garden Gallery****Free Communication II (continued)**

		<b>Abstract No.</b>
<b>15:15</b>	Synergistic Effects of AMPK Activation and TBK1 Inhibition to Improve Metabolic Health and Insulin Sensitivity in Obese Mice <b>Churaibhon Wisessaowapak</b> (University of California San Diego, U.S.A.)	<b>O-21</b>
<b>15:30</b>	Unraveling the Intracellular Action of Antimicrobial Peptide A11 through Proteomic Analysis in <i>Acinetobacter baumannii</i> <b>Ratchaneewan Aunpad</b> (Thammasat University, Thailand)	<b>O-22</b>
<b>15:45</b>	Glycolipid Biosurfactant and Its Potential Applications in Biomedicines <b>Nitnipa Soontorngun</b> (King Mongkut's University of Technology Thonburi, Thailand)	<b>O-23</b>
<b>16:00</b>	Genome Persistence & Survival of <i>Clostridium perfringens</i> from Ichthyofauna of Dal Lake Himalaya-A Possible Future Public Health Hazard <b>Irfan Ahmad</b> (University of Agricultural Sciences & Technology of Kashmir, India)	<b>O-24</b>
<b>16:15</b>	Toxicological Impacts of Clofibric Acid, Diclofenac and Ibuprofen on Fish: An Environmental Health Issue <b>Manoharan Saravanan</b> (Bharathiar University, India)	<b>O-25</b>



***SYMPOSIUM X: Protein Changes in Disease*****Chairperson: John R. Yates III (U.S.A.)****Co-chairperson: Sittiruk Roytrakul (Thailand)**

		<b><i>Abstract No.</i></b>
<b>09:00</b>	How a Single Mutation in CFTR Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and Structure <b><i>John R. Yates III (The Scripps Research Institute, U.S.A.)</i></b>	<b>S-39</b>
<b>09:30</b>	Ultrasensitive Proteomics for Precision Oncology <b><i>Yu-Ju Chen (Academia Sinica, Chinese Taipei)</i></b>	<b>S-40</b>
<b>10:00</b>	Navigating Drug-Targetome-Phenotype Interaction and Its Translational Implications <b><i>Ho Jeong Kwon (Yonsei University, Republic of Korea)</i></b>	<b>S-41</b>
<b>10:30</b>	Advancement in Peptidoproteomics for Cancer Research <b><i>Sittiruk Roytrakul (National Center for Genetic Engineering and Biotechnology, Thailand)</i></b>	<b>S-42</b>
<b>11:00</b>	Exploring Microproteins and Interferon Pathways in Colorectal Cancer: Implications for Disease Progression and FOLFOX Chemoresistance <b><i>Teck Yew Low (Universiti Kebangsaan Malaysia, Malaysia)</i></b>	<b>S-43</b>
<b>11:30</b>	LUNCH	

**Ballroom II****SYMPOSIUM XI: Relationships between Genetic Mutation and the Environment in Cancer and Infectious Diseases****Chairperson: Tariq Enver** (U.K.)**Co-chairperson: Panida Navasumrit** (Thailand)

		<b>Abstract No.</b>
<b>09:00</b>	Genetic and Epigenetic Cues Shape Initiation, Promotion and Therapy Resistance in Childhood Leukaemia <i>Tariq Enver</i> (University College London, U.K.)	<b>S-44</b>
<b>09:30</b>	Towards an Understanding of Air Pollution Driven Lung Cancer Promotion <i>Charles Swanton</i> (Francis Crick Institute, U.K.)	<b>S-45</b>
<b>10:00</b>	Axonal Injury Initiates Glioblastoma <i>Simona Parrinello</i> (University College London, U.K.)	<b>S-46</b>
<b>10:30</b>	What does Our Knowledge of Innate Immune Regulation during Infection Tell Us About Innate Immune Contribution to Cancer Outcome? <i>Greg Towers</i> (University College London, U.K.)	<b>S-47</b>

**Special Platform Session on Cancers****Chairperson: Christopher Loffredo** (U.S.A.)**Co-chairperson: Benjarath Javed** (Thailand)

<b>11:00</b>	The Landscape of Etiological Patterns of Hepatocellular Carcinoma and Intrahepatic Cholangiocarcinoma in Thailand <i>Benjarath Javed</i> (Chulabhorn Research Institute, Thailand)	<b>sO-5</b>
<b>11:15</b>	Integrated Genomic Applications Discern Molecular Subgroups and Treatment Response in Liver Cancer <i>Anuradha Budhu</i> (National Cancer Institute, U.S.A.)	<b>sO-6</b>
<b>11:30</b>	Ionizing Radiation-associated Liver Cancers in the Mayak Worker Cohort <i>Christopher Loffredo</i> (Georgetown University, U.S.A.)	<b>sO-7</b>
<b>11:45</b>	Urinary Biomarkers for Early Lung Cancer Detection in Non-smokers: A Step Toward Personalized Screening <i>Daxeshkumar P. Patel</i> (National Cancer Institute, U.S.A.)	<b>sO-8</b>
<b>12:00</b>	LUNCH	

***SYMPOSIUM XII: Role of Chemical and Biological Sciences for  
Discovery of Modern Drugs II***

**Chairperson:** Roderick Bates (Singapore)

**Co-chairperson:** Jutatip Boonsombut (Thailand)

		<b>Abstract No.</b>
<b>09:00</b>	The Infinite Loop: Machine Learning for Discovery, Delivery, and Rapid Manufacturing of Potential Medicines <i>Bradley L. Pentelute (Massachusetts Institute of Technology, U.S.A.)</i>	<b>S-48</b>
<b>09:30</b>	Antibody-Drug Conjugates (ADCs) – A Perfect Synergy? <i>John A. Hartley (University College London, U.K.)</i>	<b>S-49</b>
<b>10:00</b>	Developments of Molecular Probes for Detection of Biological Targets <i>Sun-Joon Min (Hanyang University (ERICA), Republic of Korea)</i>	<b>S-50</b>
<b>10:30</b>	From Structural Biology to Organic Synthesis: A Collaborative Search for New Anti-Mycobacterial Drugs <i>Roderick Bates (Nanyang Technological University, Singapore)</i>	<b>S-51</b>

**Free Communication III:**

**Chairperson:** Poonsakdi Ploypradith (Thailand)

**Co-chairperson:** Rapeepat Sangsuwan (Thailand)

<b>11:00</b>	Exploring and Characterizing the Biosynthetic Machineries for Synthesizing Fungal Natural Products <i>Hsiao-Ching Lin (Academia Sinica, Chinese Taipei)</i>	<b>O-26</b>
<b>11:15</b>	<i>In Vitro</i> Screening Anti-Viral and Virucidal Effects Against HIV-1 RT and SARS-COV-2 By Phenylamino-Phenoxy-Quinoline <i>Arthit Makarasen (Chulabhorn Research Institute, Thailand)</i>	<b>O-27</b>
<b>11:30</b>	Design and Application of Ultrasensitive & Selective Sensor for the Detection of An Anticancer Drug Using Nanoparticles <i>Amber Solangi (University of Sindh, Pakistan)</i>	<b>O-28</b>
<b>11:45</b>	Unraveling Heparan Sulfate–SARS-COV-2 Spike Protein Interaction: Strategy to Develop Novel Viral Inhibitors <i>Michela Parafioriti (Istituto di Ricerche Chimiche e Biochimiche "G. Ronzoni", Italy)</i>	<b>O-29</b>
<b>12:00</b>	LUNCH	

**Grand Ballroom**

**CLOSING SESSION:**

13:00-15:30

**REGULATORY INNOVATION**

**Moderators:** Ram Sasisekharan (U.S.A.) and Surachoke Tangwiwat (Thailand)

**Abstract No.**

- U.S. FDA's Efforts to Advance Gene Therapy Development RD  
**Peter Marks** (Food and Drug Administration, U.S.A.) [Virtual presentation]
- Perspectives from the Thai FDA  
**Worasuda Yoongthong** (Food and Drug Administration, Thailand)

**Roundtable Discussion**

- Panelists:**
- Helen W. Boucher (U.S.A.)
  - Rahul Singhvi (U.S.A.)
  - Worasuda Yoongthong (Thailand)
  - Ram Sasisekharan (U.S.A.)

**Roundtable Discussion – AMR Policy Impacting South and Southeast Asia**

**Moderators:** Helen W. Boucher (U.S.A.) and Julie L. Gerberding (U.S.A.)

- Panelists:**
- Helen W. Boucher (U.S.A.)
  - George F. Gao (P.R. China)
  - Julie L. Gerberding (U.S.A.)
  - Ramanan Laxminarayan (U.S.A.)
  - David Paterson (Singapore)

**CLOSING CEREMONY**

**16:00 - Presentation of the Princess Chulabhorn Gold Medal Award of Appreciation**

**Recipients:** (in alphabetical order)

- Professor Martin van den Berg (The Netherlands)
- Dr. Norbert Frank (Germany)
- Dr. Curtis C. Harris (U.S.A.)
- Professor Leonard Ritter (Canada)
- Dr. Xin Wei Wang (U.S.A.)
- *Thanphuying* Putrie Viravaidya (Thailand)

**- Closing Remarks by Professor Dr. HRH Princess Chulabhorn**

# **POSTER SESSIONS:**

*The Ballroom Foyer*

## **GROUP 1:**

**POSTER NUMBER: PA-01 to PB-31**

**BOARD NUMBER: 001 - 072**

Posters should be set up for display on Monday, December 16 from 08:00.

*Display: Monday, December 16, 08:00 to Tuesday, December 17, 10:00.*

*Discussion: Monday, December 16 from 08:30 to 09:00 and 12:00 to 13:00.*

The display must be removed by 10:00, on Tuesday, December 17, 2024.

### ***List of Poster Presentations:***

Code	Topic	Poster No.	Board No.
PA	Diseases of Public Health Concerns (Genetic Diseases, Cancer)	PA-01 to PA-42	001 - 042
PB	Drug Development for Prevention and Treatment	PB-01 to PB-30	043 - 072

## **GROUP 2:**

**POSTER NUMBER: PC-01 to PF-07**

**BOARD NUMBER: 001 - 066**

Posters should be set up for display on Tuesday, December 17 from 11:00.

*Display: Tuesday, December 17, 11:00 to Wednesday, December 18, 18:00.*

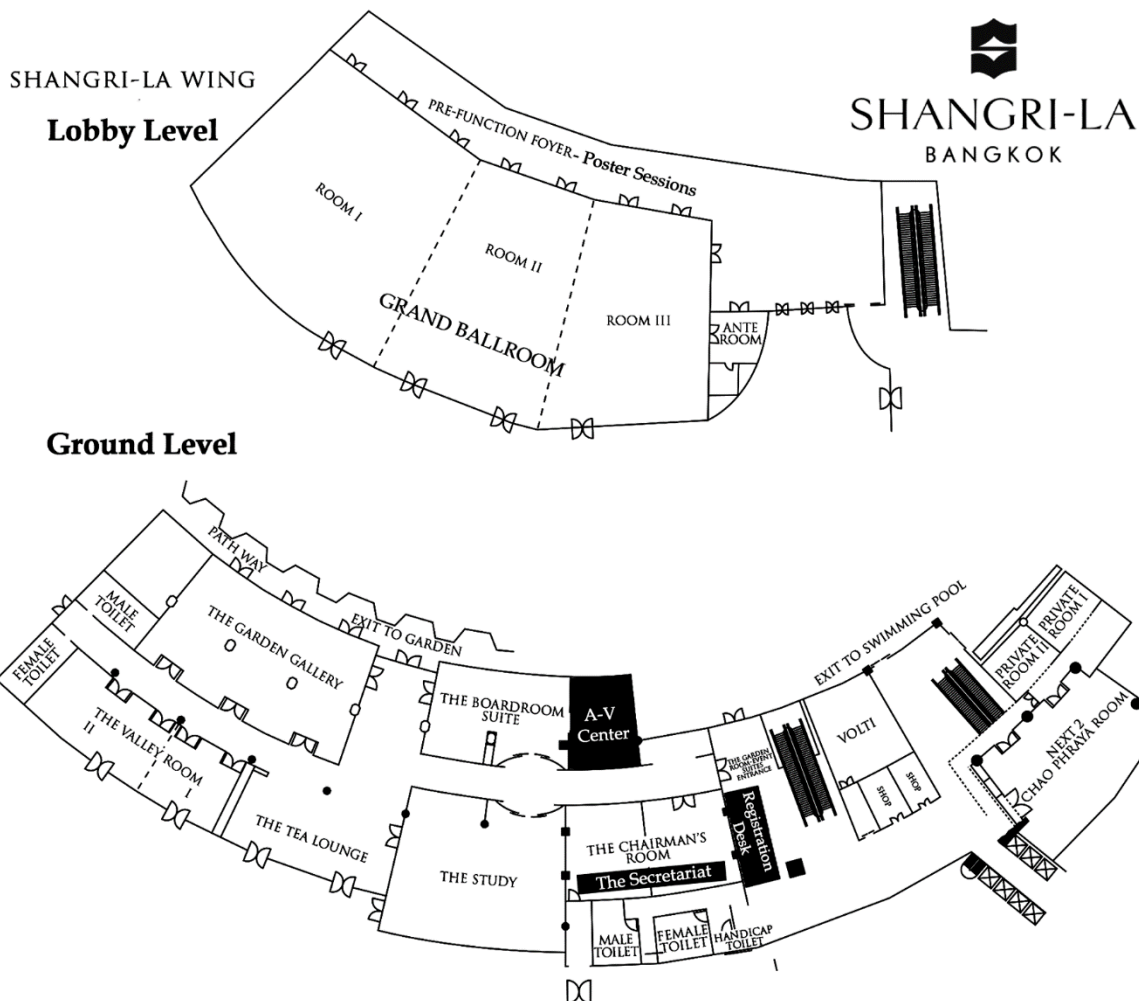
*Discussion: Tuesday, December 17 from 12:30 to 13:00 and 16:30 to 17:00.*

The display must be removed by 18:00, on Wednesday, December 18, 2024.

### ***List of Poster Presentations:***

Code	Topic	Poster No.	Board No.
PC	Antimicrobial Resistance	PC-01 to PC-26	001 - 026
PD	Climate Change and Communicable Diseases	PD-01 to PD-11	027 - 037
PE	Environmental Health Issues	PE-01 to PE-22	038 - 059
PF	Food Safety and Security	PF-01 to PF-07	060 - 066

## THE CONGRESS CENTER MAP



### **REGISTRATION:**

**Location:** Registration takes place in *the Garden Room-Event Suites Entrance* on the Ground Floor.

**On-site registration hours:** Sunday, December 15 from **10:00 to 15:00**.

Monday to Tuesday, December 16 - 17 from **08:00 to 17:00**.

**Full registration fee** includes admission to all congress sessions, Program-Abstract book (e-book), and lunches.

**Accompanying person's fee** is only for social activities (including the opening ceremony) and accompanying guests' program. It does not admit individuals to scientific sessions.

### **IDENTIFICATION BADGES:**

Name badges are issued to all registered participants and accompanying guests.

These are entry badges and should be worn at all times.

### **LUNCH:**

For all participants, lunch is arranged in the room indicated on the meal vouchers, starting on Monday, December 16 to Wednesday, December 18 during lunch breaks. **Meal vouchers will be required.**

### **AUDIO-VISUAL CENTER (A-V Center):**

**Location:** *The Boardroom Suite* on the Ground Floor of the Shangri-La Hotel.

**Hours:** Sunday, December 15 from **10:00 to 15:00**

Monday, December 16 to Wednesday, December 18 from **08:00 to 17:30**.

### **SECRETARIAT OFFICE:**

**Location:** *The Chairman's Room* on the Ground Floor of the Shangri-La Hotel

**Hours:** Sunday, December 15 to Wednesday, December 18 from **08:00 to 17:30**.