Tentative Program

OPENING SESSION

Sunday, December 15^{th} , 2024

OPENING CEREMONY

Time	Grand Ballroom, Shangri-La Hotel
16:45	- Guests to be seated in the Ballroom
17:00	- Arrival of His Majesty King Maha Vajiralongkorn Phra Vajiraklaochaoyuhua and Her Majesty Queen Suthida Bajrasudhabimalalakshana
17:05	- Report by Professor Dr. H.R.H. Princess Chulabhorn, Chairperson of the National Organizing Committee
17:10	- Opening Address by His Majesty King Maha Vajiralongkorn Phra Vajiraklaochaoyuhua
	- Video Presentation in honor of the 6 th cycle (72 years) birthday of His Majesty King Maha Vajiralongkorn Phra Vajiraklaochaoyuhua
17:20	- Report on Advances in Biological Drugs for the Treatment and Prevention of Disease by Sir Gregory P. Winter (Nobel Laureate, U.K.)

Date: November 15th, 2024

SCIENTIFIC PROGRAM

Monday, December 16th, 2024

Time			Grand Ba	llroom
09:00	Keynote Lecture: (Title to be annou	•		
09:45	Professor Dr. H.R.H. Princess Chulabhorn (Chulabhorn Research Institute, Thailand)			
09:45	Nobel Laureate Lecture: Harnessing Evolution to Make New Medicines Sir Gregory P. Winter (Nobel Laureate, U.K.)			
10:30	Special Remarks: Tedros Adhanom Ghebreyesus (WHO, Switzerland)			
	Chairpersons: Ram Sasisekharan (U.S.A.) and M.R. Jisnuson Svasti (Thailand)			
10:40	<u>Plenary Lecture 1:</u> One Health: Predicting and Preempting Spillover and Infection Dissemination Julie L. Gerberding (U.S.A.)			
11:25	Plenary Lecture 2: AMR in 2024: We Still Have an Awareness Problem Helen Boucher (U.S.A.)			
12:10		LUNCH		
		POSTER PRESENTATION		
Time	Ballroom I	Ballroom II	Ballroom III	The Study
13:00	SYMPOSIUM I: Antimicrobial Resistance (AMR) and One Health: Critical Issues Chairperson: Helen Boucher (U.S.A.) Co-chairperson: Mayuree Fuangthong (Thailand) AMR Governance: Critical Challenges Beyond the Science	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) Phytochemicals of Liverworts:	SYMPOSIUM IV: Genetic Diseases: From Detection to Therapy Chairperson: Pornswan Wasant (Thailand) Co-chairperson: Suthat Fucharoen (Thailand) Thalassemia: A Model of Genetic Disease	
	Adam Kamradt-Scott (U.S.A.) Is This the End of the Antibiotic Era? David Paterson (Singapore) Ensuring Sustainable Access to Effective Antibiotics Ramanan Laxminarayan (U.S.A.) SYMPOSIUM II: One Health: Climate Change and Communicable diseases Chairperson: Paul Hunter (U.K.) Co-chairperson: Mayuree Fuangthong (Thailand)	Structures, Biological Activity, and Their Application to Foods and Medicinal Drugs Yoshinori Asakawa (Japan) Phenotypic Assays and Analog Synthesis: Effective Tools for the Discovery and Development of Marine Natural Product Drug Leads Raymond Andersen (Canada) Discovery of Antiviral Natural Products Based on Native Mass Spectrometry and Molecular Networking	Suthat Fucharoen (Thailand) Over 3 Decades of Organizing Services for Inherited Metabolic Disorders in Thailand Pornswan Wasant (Thailand) Gaucher Disease as A Model for Rare Disorders Ari Zimran (Israel) Rare Inborn Metabolic Disorders: From Mystery to Diagnosis and Management Duangrurdee Wattanasirichaigoon (Thailand)	PLATFORM SESSION
	World Health Organization Calls for Urgent Action to Mitigate Climate-Related Health Risks and Promote Resilience through A One Health Perspective Maria Neira (WHO, Switzerland) Climate Change and Emerging Infectious Diseases Paul Hunter (U.K.) Elimination of Hepatitis in Thailand by the Year 2030 Yong Poovorawan (Thailand)	Yang Ye (P.R. China) Natural Product Biosynthesis and Associated Molecular Innovation Wen Liu (P.R. China) Efficient Synthesis of Bioactive Steroid and Terpenoid Natural Products Jinghan Gui (P.R. China) One Health - An Aspect of the Food, Medicines, and Environment Conundrum for 2040 and Beyond Geoffrey A. Cordell (U.S.A.)	Newborn Screening by Tandem Mass Spectrometry: From Early Detection of Rare Diseases to Therapy Nithiwat Vatanavicharn (Thailand) Lysosomal Storage Diseases: Progress in Diagnosis and Therapy in Thailand Thipwimol Tim-Aroon (Thailand)	

			Tuesday, December 17 th ,	, 2024
Time			Grand Ba	llroom
	PLENARY LECTURES:			
	Chairpersons: John M. Essig	mann (U.S.A.) and Skorn Mongkolsuk	(Thailand)	
09:00	Plenary Lecture 3: Drug Development and Regulatory Sciences: Turning Crises into Opportunities — A Valuable Perspective Ram Sasisekharan (U.S.A.)			
09:45	Plenary Lecture 4: Two Sides of Precision Medicine: Proteomic Enablement of Biomarkers and Therapeutics Jennifer van Eyk (U.S.A.)			
10:30	Plenary Lecture 5: Programmable Therapeutics for Genetic Diseases John M. Essigmann (U.S.A.)			
11:15	Plenary Lecture 6: The Lessons Learned from COVID-19 George F. Gao (P.R. China)			
12:00	LUNCH			
		POSTER PRESENTATION		
Time	Ballroom I	Ballroom II	Ballroom III	The Study
	SYMPOSIUM V: Early Detection and Prevention	SYMPOSIUM VII: Zoonotic Diseases	SYMPOSIUM IX: Environmental Risk Factors	

		POSTER PRESENTATION		
Time	Ballroom I	Ballroom II	Ballroom III	St
13:00	SYMPOSIUM V: Early Detection and Prevention of Cancer Chairperson: Xin Wei Wang (U.S.A.) Co-chairperson: Jittiporn Chaisaingmongkol (Thailand) Adductomic Strategies for Emerging Risk Factors in Liver Cancer John D. Groopman (U.S.A.) Liver Cancer Prevention Hashem B. El-Serag (U.S.A.) Emerging Strategies of Early Detection of Liver Cancer Xin Wei Wang (U.S.A.) SYMPOSIUM VI: Antimicrobial Resistance: One Health Perspectives Chairperson: Peter Dedon (U.S.A.) Co-chairperson: Nisanart Charoenlap (Thailand) One Health Selection and Transmission of Antibiotic Resistance in Thailand, Argentina and the United Kingdom Matthew B. Avison (U.K.) Lessons from Wastewater Surveillance: Impact of COVID-19 on AMR Motoyuki Sugai (Japan) Mining the Epitranscriptome for First-In-Class Antimicrobials Peter Dedon (U.S.A.) 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	SYMPOSIUM VII:	SYMPOSIUM IX: Environmental Risk Factors Affecting Health Chairperson: Martin van den Berg	St

PLATFORM SESSION

Wednesday, December 18th, 2024

P H C F S	SYMPOSIUM X: Protein Changes in Disease Chairperson: John R. Yates III (U.S.A.) Co-chairperson: Sittiruk Roytrakul (Thailand) How a Single Mutation in CFTR Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and	SYMPOSIUM XI: Relationships between Genetic Mutation and the Environment in Cancer and Infectious Diseases Chairperson: Tariq Enver (U.K.) Co-chairperson: Panida Navasumrit (Thailand)	Modern Drugs II Chairperson: Roderick Bates (Singapore) Co-chairperson:		
H C F	Chairperson: John R. Yates III (U.S.A.) Co-chairperson: Sittiruk Roytrakul (Thailand) How a Single Mutation in CFTR Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and	Mutation and the Environment in Cancer and Infectious Diseases Chairperson: Tariq Enver (U.K.) Co-chairperson:	Sciences for Discovery of Modern Drugs II Chairperson: Roderick Bates (Singapore) Co-chairperson:		
H C F S	John R. Yates III (U.S.A.) Co-chairperson: Sittiruk Roytrakul (Thailand) How a Single Mutation in CFTR Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and	Cancer and Infectious Diseases Chairperson: Tariq Enver (U.K.) Co-chairperson:	Modern Drugs II Chairperson: Roderick Bates (Singapore) Co-chairperson:		
H C F S	John R. Yates III (U.S.A.) Co-chairperson: Sittiruk Roytrakul (Thailand) How a Single Mutation in CFTR Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and	Chairperson: Tariq Enver (U.K.) Co-chairperson:	Chairperson: Roderick Bates (Singapore) Co-chairperson:		
H C F S	Sittiruk Roytrakul (Thailand) How a Single Mutation in CFTR Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and	Tariq Enver (U.K.) Co-chairperson:	Roderick Bates (Singapore) Co-chairperson:		
C F S	How a Single Mutation in CFTR Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and	Co-chairperson:	Roderick Bates (Singapore) Co-chairperson:		
C F S	Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and		Co-chairperson:		
C F S	Causes the Systemic Disease Cystic Fibrosis: Interactions, PTMs, and	Panida Navasumrit (Thailand)	Lutatia Danca and at /TL 11 11		
F S	Fibrosis: Interactions, PTMs, and		Jutatip Boonsombat (Thailand)		
S		Genetic and Epigenetic Cues	Abstract No.		
	Structure	Shape Initiation, Promotion and	The Infinite Loop: Machine Learning for Discovery, Delivery, and Rapid		
	John R. Yates III (U.S.A.)	Therapy Resistance in Childhood	Manufacturing of Potential Medicines		
	I litura a maitir ra Duata ami aa fan	Leukaemia	Bradley L. Pentelute (U.S.A.)		
	Ultrasensitive Proteomics for Precision Oncology	Tariq Enver (U.K.)			
	Yu-Ju Chen (Chinese Taipei)	Towards an Understanding of	Antibody-Drug Conjugates (ADCs) –		
	• • •	Air Pollution Driven Lung Cancer	A Perfect Synergy? John A. Hartley (U.K.)		
	Navigating Drug-Targetome-	Promotion Charles Swanton (U.K.)			
	Phenotype Interaction and Its Translational Implications	Axonal Injury Initiates Glioblastoma	Developments of Molecular Probes		
	Ho Jeong Kwon	Simona Parrinello (U.K.)	for Detection of Biological Targets		
	(Republic of Korea)	What Does Our Knowledge of	Sun-Joon Min (Republic of Korea)		
	, ,	Innate Immune Regulation during	From Structural Biology to Organic		
	Advancements in Peptidoproteomics for Cancer Research	Infection Tell Us about Innate Immune	Synthesis: A Collaborative Search for		
"	Sittiruk Roytrakul (Thailand)	Contribution to Cancer Outcome?	New Anti-Mycobacterial Drugs		
		Greg Towers (U.K.)	Roderick Bates (Singapore)		
	Exploring Microproteins and	1			
	Interferon Pathways in Colorectal Cancer: Implications for Disease	PLATFORM SESSION	PLATFORM SESSION		
	Progression and FOLFOX				
	Chemoresistance	1			
	Teck Yew Low (Malaysia)	!			
12:00		LUNCH			
Time			Grand Ballroom		
13.00 (CLOSING SESSION:				
	Roundtable Discussion - Regulatory Innovation				
	Moderators: Ram Sasisekharan (U.S.A.) and Surachoke Tangwiwat (Thailand)				
	U.S. FDA's Efforts to Advance Gene Therapy Development [Virtual Presentation]				
	Peter Marks (U.S.A.)				
	 Perspectives from the Thai FDA Worasuda Yoongthong (Thailand) Case Studies of Regulatory Innovations 				
	Ram Sasisekharan (U.	S.A.)			
	Roundtable Discussion - AMR Policy Impacting South and Southeast Asia				
		(U.S.A.) and Julie L. Gerberding (U.S.A	<i>\.</i>)		
	Panelists: Helen Boucher (U.S.A.)				
		(D.D. China)	George F. Gao (P.R. China) Halia L. Corta pullar (U.S.A.)		
	George F. Gao	•			
	George F. GaoJulie L. Gerberdin	ng (U.S.A.)			
	George F. Gao	ng (U.S.A.) inarayan (U.S.A.)			
16:00	George F. Gao (Julie L. GerberdinRamanan Laxm	ng (U.S.A.) inarayan (U.S.A.)			
16:00	George F. Gao Julie L. Gerberdin Ramanan Laxm David Paterson CLOSING CEREMONY:	ng (U.S.A.) inarayan (U.S.A.)	ation		