

โครงการประชุมสัมมนาวิชาการ  
“Medlab Asia Congress 2024”  
ระหว่างวันที่ 10-12 กรกฎาคม 2567 ณ ศูนย์การประชุมแห่งชาติสิริกิติ์

**1. หน่วยงานที่รับผิดชอบ**

ภาควิชาพยาธิวิทยาคลินิก คณะแพทยศาสตร์ศิริราชพยาบาล มหาวิทยาลัยมหิดล, สมาคมพยาธิวิทยาคลินิกไทย ร่วมกับ บริษัท อินฟอร์มา มาเก็ตส์

**2. หลักการและเหตุผล**

ประชุมวิชาการทางด้านห้องปฏิบัติการทางการแพทย์หนึ่งเดียวในเอเชียที่ รวบรวมหลากหลายสาขาทางการแพทย์สำหรับบุคลากรในห้องปฏิบัติการเพื่อเสริมสร้างทักษะวิชาการและความรู้เพื่อประโยชน์ต่อผู้ป่วย

การจัดประชุมครั้งนี้เป็นการรวมตัวของผู้เชี่ยวชาญทางด้านห้องปฏิบัติการทางคลินิกจากทุกประเภท ไม่ว่าจะเป็นผู้บริหารห้องปฏิบัติการ หัวหน้าห้องปฏิบัติการ นักเทคนิคการแพทย์ ที่ปรึกษาและนักวิทยาศาสตร์ เพื่อเชื่อมโยงและแบ่งปันประสบการณ์ความรู้ร่วมกันในทุกแง่มุมของความรู้ทางด้านห้องปฏิบัติการและการวิจัยทางคลินิก

การประชุมยังจัดให้มีการนำเสนอและอภิปรายเกี่ยวกับนวัตกรรมล่าสุด แนวนวัตกรรม และข้อกังวลต่าง ๆ ในการดำเนินงานห้องปฏิบัติการทางคลินิก

การประชุมนี้ Medlab Asia Congress ครั้งนี้จัดเป็นครั้งที่ 11 ในทวีปเอเชีย โดยจะจัดแบบ onsite ในประเทศไทย ทุก session จะนำเสนอโดยผู้เชี่ยวชาญด้านห้องปฏิบัติการเพื่อให้ความรู้แก่บุคลากรในห้องปฏิบัติการด้านทักษะทางเทคนิค และการวินิจฉัย

**3. วัตถุประสงค์**

เพื่อเสริมสร้างทักษะวิชาการและความรู้ทางด้านการวิจัยให้แก่ นักเทคนิคการแพทย์ บุคลากรและผู้เชี่ยวชาญด้านห้องปฏิบัติการทางการแพทย์ และเสริมสร้างทักษะทั้งด้านวิชาการและความรู้ทางด้านการวิจัย โดยรวบรวมผู้เชี่ยวชาญทางด้านห้องปฏิบัติการทางการแพทย์ทั้งในประเทศไทยและต่างประเทศเพื่อมาร่วมแลกเปลี่ยนประสบการณ์ นำเสนอนวัตกรรม แนวนวัตกรรมและประเด็นสำคัญ ตลอดจนความท้าทายในทางปฏิบัติที่พบเพื่อหาแนวทางแก้ไขที่นำมาใช้ในห้องปฏิบัติการทางการแพทย์

**4. เนื้อหาโดยสังเขป**

ประเด็นสำคัญที่ใช้ในห้องปฏิบัติการทางการแพทย์ด้านต่าง ๆ โดยแบ่งเป็น 6 ด้าน

- Laboratory management
- Molecular diagnostics
- Clinical Microbiology
- Anatomic Pathology
- Clinical Chemistry
- Hematology

**5. กิจกรรมในการดำเนินงาน**

- การบรรยาย การนำเสนอของวิทยากร การเสวนาและถาม-ตอบการอภิปราย-ซักถาม

**6. กลุ่มเป้าหมาย**

แพทย์และเจ้าหน้าที่ห้องปฏิบัติการทางการแพทย์ภาครัฐ และเอกชนทั้งในและต่างประเทศ

## 7. วิทยากร

### Speaker :

#### หัวข้อการประชุม Laboratory Management

- **Scientific Chair:**  
A/Prof Kanit Reesukumal, Assistant Professor, **Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand**
- Dr Asvin Nurulita, Department of Clinical Pathology, Faculty of Medicine, Member, IACPALM, **Makassar, Indonesia**
- Dr Astuti Giantini, Specialist, Clinical Pathology, Member, IACPALM, **Makassar, Indonesia**
- Dr Barnali Das, Lead Consultant, Biochemistry & Immunology, **Dhirubhai Ambani Hospital; Chair, ADLM, India Section, Mumbai, India**
- Louie Berlin Cadao, Board of Directors, **PAMET, Manila, Philippines**
- Mark Raymund G Nava, National Executive Secretary, **PAMET, Manila, Philippines**
- Ron S Quicho, Director for Standards Development and Interpretation, **Standards Development and Interpretation, Joint Commission International, Chicago, Illinois, USA**

#### หัวข้อการประชุม Molecular Diagnostics

- Scientific Chairs:
- Prof Dr Chonlaphat Sukasem, Division of Pharmacogenomics and Personalized Medicine, Department of Pathology, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**
- Asst Prof Dr Polakit Teekakirikul, Chief Scientific Officer (Multi-omics), **Bumrungrad Genomic Medicine Institute (BGMI), Bumrungrad International Hospital, Bangkok, Thailand**
- Speaker Faculty:
- Prof Dr Chonlaphat Sukasem, Division of Pharmacogenomics and Personalized Medicine, Department of Pathology, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**
- Prof Ekaterina Voroshilina, Head of the Department of Medical Microbiology, **Ural State Medical University, Yekaterinburg, Russian Federation**
- Assoc Prof Dr Fabienne Thomas, Cancer Research Center of Toulouse (CRCT), **Université Paul Sabatier, Toulouse, France**
- Dr Goh Lih Ling, Director for the Molecular Diagnostic Laboratory (MDL), **Tan Tock Seng Hospital, Singapore**
- Dr Harit Suwanrusme, Oncology Consultant, Horizon Cancer Center, **Bumrungrad International Hospital, Bangkok, Thailand**
- Asst Prof Dr Polakit Teekakirikul, Chief Scientific Officer (Multi-omics), **Bumrungrad Genomic Medicine Institute (BGMI), Bumrungrad International Hospital, Bangkok, Thailand**

- **Dr Shobana John**, Division of Pharmacogenomics and Personalized Medicine, Department of Pathology, **Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**
- **Dr Thidathip Wongsurawat**, Siriraj Long-read Lab (Si-LoL), Faculty of Medicine, **Siriraj Hospital, Mahidol University, Bangkok Thailand.**
- **Assoc Prof Dr Usanarat Anurathapan**, Department of Pediatrics, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**
- **Dr Wipa Panmontha**, Senior Director of Clinical Genomics Laboratory, **Bumrungrad International Hospital, Bangkok, Thailand**

#### หัวข้อการประชุม Clinical Microbiology

- **Scientific Chair:**  
**Dr Arkom Chaiwongkot**, Academic Researcher & Secretary, **Dept of Microbiology, Chulalongkorn University, Bangkok, Thailand**
- **Co-Chair:** **Dr Ati Burasakarn**, Academic Researcher, Virology Unit, Department of Microbiology, Faculty of Medicine, **Chulalongkorn University, Bangkok, Thailand**
- **Speaker Faculty:**
- **Dr Ati Burasakarn**, Academic Researcher, Virology Unit, Department of Microbiology, Faculty of Medicine, **Chulalongkorn University, Bangkok, Thailand**
- **Dr Evalyn Roxas**, College Secretary, **University of the Philippines**; Immediate Past President. Philippine Hospital Infection Control Society Inc, **Manila, Philippines**
- **Dr Jemelyn Garcia**, Medical Specialist III, Antimicrobial Stewardship Committee Chair, **Asian Hospital & Medical Center, Manila, Philippines**
- **Dr Nina Gloriani**, Member, WHO Scientific Steering Committee for COVID19, **WHO, Manila, Philippines**
- **Niranjan Nagarajan**, Associate Director (Genome Architecture & Design), Senior Group Leader (Laboratory of Metagenomic Technologies & Microbial Systems), **Genome Institute of Singapore, A\*STAR, Singapore**
- **Dr Philip Ian Padilla**, Asst to the Executive Director, Core Facilities and Extension Services, **Philippine Genome Center, Quezon City, Philippines**
- **Dr Popchai Ngamskulrungraj**, Head of dept, Microbiology, Faculty of Medicine, **Siriraj Hospital, Bangkok, Thailand**
- **Dr Pornchai Kaewsapsak**, Department of Biochemistry, Faculty of Medicine, **Chulalongkorn University, Bangkok, Thailand**
- **Dr Sunisa Chirakul**, Department of Microbiology, Faculty of Medicine, **Chulalongkorn University, Bangkok, Thailand**
- **Dr Thanayod Sasivimolrattana**, Lecturer, Department of Microbiology, Faculty of Public Health, **Mahidol University, Bangkok, Thailand**

- หัวข้อการประชุม Anatomic Pathology Conference (New)

- Scientific Chairs:

- Dr Andrey Bychkov, Director of Digital Pathology, **Kameda Medical Center, Kamogawa, Japan**
- Prof Somboon Keelawat, President, **Royal College of Pathologists of Thailand, Bangkok, Thailand**
- Speaker Faculty:
- Prof Gary Tse, Chairman and Professor in the Department of Anatomical and Cellular Pathology, **The Chinese University of Hong Kong, Hong Kong**
- Prof Junya Fukuoka, Chair, Professor, Department of Pathology Informatics, **Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan**
- Ngoentra Tantranont, Department of Pathology, Faculty of Medicine, **Siriraj Hospital, Mahidol University, Bangkok, Thailand**
- Panitta Sitthinamsuwan, Department of Pathology, Faculty of Medicine, **Siriraj Hospital, Mahidol University, Bangkok, Thailand**
- Prof Priyanthi Kumarasinghe, Chief Pathologist, **PathWest, Government of Western Australia, Perth, Australia**
- Prof Shanop Shuangshoti, Professor of Pathology, Department of Pathology & Director, Chulalongkorn GenePRO Center, Faculty of Medicine, **Chulalongkorn University, Bangkok, Thailand**
- Talent Theparee, Department of Pathology, Faculty of Medicine **Chulalongkorn University, Bangkok, Thailand**
- Tauangtham Anekpuritanang, Department of Pathology, Faculty of Medicine, **Siriraj Hospital, Mahidol University, Bangkok, Thailand**

หัวข้อการประชุม Clinical Chemistry

- Scientific Chair:

Assoc Prof Busadee Pratumvinit, President, **Thai Society of Clinical Pathology**; Department of Clinical Pathology, **Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand**

- Speaker Faculty:

- Dr Fayha Ahmed, Consultant and Head of Biochemistry Unit, Pathology & Genetics Department, **Dubai Hospital, Dubai, UAE**
- A/Prof Kanit Reesukumal, Assistant Professor, **Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand**
- Dr Leslie Lam, President, **Singapore Association of Clinical Biochemists (SACB), Singapore**
- Assoc Prof Narisa Kengtrong Bordeerat, Department of Medical Technology, Faculty of Allied Health Sciences, **Thammasat University, Bangkok, Thailand**
- Dr Sibtain Ahmed, Assistant Professor, Department of Pathology & Laboratory Medicine, **The Aga Khan University, Karachi, Pakistan**

## หัวข้อการประชุม Hematology

- Scientific Chair:
- Assoc Prof Phandee Watanaboonyongcharoen, Medical Director, Department of Laboratory Medicine, Chulalongkorn University, Bangkok, Thailand
- Speaker Faculty:
- Duangnapa Intrarasongkroh, Medical Technologist, National Blood Centre, Thai Red Cross Society, Bangkok, Thailand
- Prof Erica Wood, Head, Transfusion Research Unit, Public Health and Preventive Medicine, Monash University, Melbourne, Australia
- Prof Fang-Yeh Chu, President, Asian Society for Clinical Pathology and Laboratory Medicine (ASCPaLM); President, Taiwan Society of Histocompatibility and Immunogenetics, Taipei City, Taiwan
- Assoc Prof Dr Kamonlak Leecharoenkiet, Lecturer, Department of Clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Member, The Association of Medical Technologists of Thailand, Bangkok, Thailand
- Ken Yamaji, Vice Director and Professor, Department of Internal Medicine and Rheumatology, Faculty of Medicine, Juntendo University, Tokyo, Japan
- Assoc Prof Noppacharn Uaprasert, Chief, Division of Hematology, Department of Medicine, Chulalongkorn University, Bangkok, Thailand
- Pichika Chanrathammachart, Medical Instructor, Division of Hematology, Department of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- Sasanan Traiwongpaisarn, Medical Technologist, National Blood Centre, Thai Red Cross Society, Bangkok, Thailand
- Assoc Prof Teerapong Siriboonpiputtana, Human Genetic Laboratory, Department of Pathology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- Assoc Prof Wanjak Pongsittisak, Nephrology and Renal Replacement Therapy Division, Dept of Internal Medicine, Faculty of Medicine, Vajira hospital, Navamindradhiraj University, Bangkok, Thailand

### 8. จำนวนผู้เข้ารับการอบรม

ประมาณ 1,600 คน โดยผู้เข้าร่วมรับการอบรมมาจากทั้งประเทศไทยและต่างประเทศ โดยเฉพาะในทวีปเอเชีย

### 9. การประเมินผลโครงการ

จากแบบประเมินผลโดยผู้เข้าอบรม เมื่อเสร็จสิ้นการอบรม

### 10. ผลที่คาดว่าจะได้รับ

ผู้เข้าอบรมมีความรู้ความเข้าใจ และสามารถนำไปประยุกต์ใช้กับห้องปฏิบัติการทางการแพทย์ เพื่อเป็นประโยชน์ต่อการวินิจฉัย รักษาและติดตามโรคของผู้ป่วยต่อไป

### 11. ตัวชี้วัดและเป้าหมายโครงการ

ตัวชี้วัด	หน่วยนับ	เป้าหมาย
1) จำนวนผู้เข้าร่วมประชุม อบรม สัมมนา	คน	1,600
2) ค่าเฉลี่ยของระดับความพึงพอใจโดยรวมของผู้เข้าร่วมอบรม	คะแนน	$\geq 4$
3) ร้อยละของความพึงพอใจระดับมากและมากที่สุด	ร้อยละ	$\geq 80$

### 12. แผนการดำเนินงานโครงการ

กิจกรรม		พ.ศ. 2567		
		พ.ค.	มิ.ย.	ก.ค.
1.ประชุมปรึกษาหารือผู้รับผิดชอบโครงการ และจัดทำโครงการเพื่อเสนอขอสนับสนุนงบประมาณ	แผน	↔		
2. ขออนุมัติจัดโครงการ คำนวณค่าใช้จ่ายโครงการ, ติดต่อจองสถานที่จัดประชุม, ลงในระบบ IO	แผน		↔	
3.ประสานงานหน่วยงานและบุคลากรที่เกี่ยวข้อง เพื่อขอความร่วมมือในด้านต่าง ๆ	แผน		↔	
4.ประชาสัมพันธ์โครงการ และรับสมัครผู้เข้าร่วมการประชุม	แผน		↔	
5. เตรียมงานและจัดการประชุม	แผน		↔	↔
6. สรุปการดำเนินงาน ประเมินผลโครงการและรายงานผล	แผน			↔
7. นำข้อมูลมาวิเคราะห์เพื่อสามารถนำมาปรับปรุงการจัดประชุมวิชาการต่อไปในอนาคต	แผน			↔

กำหนดการประชุมวิชาการทางการแพทย์ Medlab Asia Congress 2024  
วันที่ 10-12 กรกฎาคม 2567

ประชุมวิชาการด้านห้องปฏิบัติการทางการแพทย์  
(บรรยายภาษาอังกฤษ)

Laboratory Management Conference Day 1- 10 July 2024 Bangkok Room

10:00 Opening remarks

A/Prof Kanit Reesukumal, Assistant Professor, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

SESSION 1 Continuous quality improvement in the clinical laboratory

Moderator: A/Prof Kanit Reesukumal

10:10 Risk management in clinical laboratory: ISO22367

Dr Navapun Charuruks, Laboratory Director and General Manager, Global Plus Diagnostics, Bangkok, Thailand

10:50 DQ, IQ, OQ and PQ: Important tools in laboratory management

Dr Barnali Das, Lead Consultant, Biochemistry & Immunology, Dhirubhai Ambani Hospital; Chair, ADLM, India Section, Mumbai, India

11:30 Masterclass session led by Joint Commission International

Healthcare excellence: JCI lab accreditation, patient-centric quality, and ISO 15189:2022 compliance

Ron S Quicho, Director for Standards Development and Interpretation, Standards Development and Interpretation, Joint Commission International, Chicago, Illinois, USA

12:10 Visit the exhibition

SESSION 2 Hospital informatics and smart laboratory

13:10 Clinical decision support

A/Prof Kanit Reesukumal

13:50 Masterclass session led by Asian Society of Clinical Pathology and Laboratory Medicine (ASCPaLM)

Evolution of smart microbiology laboratory

Prof Fang-Yeh Chu, President, Asian Society for Clinical Pathology and Laboratory Medicine (ASCPaLM); President, Taiwan Society of Histocompatibility and Immunogenetics, Taipei City, Taiwan

14:30 Masterclass led by Indonesian Society of Clinical Pathologists and Laboratory Medicine (IACPALM)

The supply chain & cost in laboratory services

Dr Asvin Nurulita, Department of Clinical Pathology, Faculty of Medicine, Member, IACPALM, Makassar, Indonesia

Dr Astuti Giantini, Specialist, Clinical Pathology, Member, IACPALM, Makassar, Indonesia

15:10 Sponsored Session

15:40 Coffee break

### SESSION 3

16:10 Masterclass session led by Philippine Association of Medical Technologists, Inc (PAMET)  
Balancing biosafety: Exploring biorisk management in enterprise and academic laboratories  
Louie Berlin Cadao, Board of Directors, PAMET, Manila, Philippines  
Mark Raymund G Nava, National Executive Secretary, PAMET, Manila, Philippines

16:50 End of conference

#### Scientific Chair:

A/Prof Kanit Reesukumal, Assistant Professor, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

#### Speaker Faculty:

Dr Asvin Nurulita, Department of Clinical Pathology, Faculty of Medicine, Member, IACPALM, Makassar, Indonesia

Dr Astuti Giantini, Specialist, Clinical Pathology, Member, IACPALM, Makassar, Indonesia

Dr Barnali Das, Lead Consultant, Biochemistry & Immunology, Dhirubhai Ambani Hospital; Chair, ADLM, India Section, Mumbai, India

Louie Berlin Cadao, Board of Directors, PAMET, Manila, Philippines

Mark Raymund G Nava, National Executive Secretary, PAMET, Manila, Philippines

Ron S Quicho, Director for Standards Development and Interpretation, Standards Development and Interpretation, Joint Commission International, Chicago, Illinois, USA



## Molecular Diagnostics Conference Day 1-10 July 2024 Dubai Room

10:00 Opening remarks

Asst Prof Dr Polakit Teekakirikul, Chief Scientific Officer (Multi-omics), Bumrungrad Genomic Medicine Institute (BGMI), Bumrungrad International Hospital, Bangkok, Thailand

### SESSION 1 Pharmacogenomics and Precision Medicine

Moderator: Prof Dr Chonlaphat Sukasem

10:15 Clinical pharmacogenomics implementation in Thailand: A dream comes true

Prof Dr Chonlaphat Sukasem, Division of Pharmacogenomics and Personalized Medicine, Department of Pathology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

11:00 Translating pharmacogenomics and precision medicine into clinical practices: experience sharing from Singapore

Dr Goh Lih Ling, Director for the Molecular Diagnostic Laboratory (MDL), Tan Tock Seng Hospital, Singapore

11:30 Factors affecting tamoxifen metabolism in patients with breast cancer: Preliminary results of the French PHACS study

Assoc Prof Dr Fabienne Thomas, Cancer Research Center of Toulouse (CRCT), Université Paul Sabatier, Toulouse, France

12:00 Visit the exhibition

### SESSION 2 Precision Medicine in Clinical Practices

Moderator: Asst Prof Dr Polakit Teekakirikul

13:00 Integrating genomics into cardiovascular medicine

Asst Prof Dr Polakit Teekakirikul, Chief Scientific Officer (Multi-omics), Bumrungrad Genomic Medicine Institute (BGMI), Bumrungrad International Hospital, Bangkok, Thailand

13:30 Implementing precision cancer medicine: case-based study

Dr Harit Suwanrusme, Oncology Consultant, Horizon Cancer Center, Bumrungrad International Hospital, Bangkok, Thailand

14:00 Genomics-driven precision medicine in pediatric hematologic tumors

Assoc Prof Dr Usanarat Anurathapan, Department of Pediatrics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

14:30 Session sponsored by DNA Technology

Molecular Diagnostics in Reproductive Medicine

Prof Ekaterina Voroshilina, Head of the Department of Medical Microbiology, Ural State Medical University, Yekaterinburg, Russian Federation

15:00 Coffee break

### SESSION 3 Genomics Laboratory and Bioinformatics Workflow

Moderators: Prof Dr Chonlaphat Sukasem and Asst Prof Dr Polakit Teekakirikul

15:30 From WGS data into a comprehensive Thai pharmacogenomics database (TPGxD-1): a workflow of PGx analysis

Dr Shobana John, Division of Pharmacogenomics and Personalized Medicine, Department of Pathology, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**

16:00 **Chasing mutation: a tale from laboratory**

Dr Wipa Panmontha, Senior Director of Clinical Genomics Laboratory, **Bumrungrad International Hospital, Bangkok, Thailand**

16:30 **Nanopore-based CNV approach for adult glioma classification**

Dr Thidathip Wongsurawat, Siriraj Long-read Lab (Si-LoL), Faculty of Medicine **Siriraj Hospital, Mahidol University, Bangkok Thailand.**

17:00 **End of conference**

#### Scientific Chairs:

**Prof Dr Chonlaphat Sukasem**, Division of Pharmacogenomics and Personalized Medicine, Department of Pathology, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**

**Asst Prof Dr Polakit Teekakirikul**, Chief Scientific Officer (Multi-omics), **Bumrungrad Genomic Medicine Institute (BGMI), Bumrungrad International Hospital, Bangkok, Thailand**

#### Speaker Faculty:

**Prof Dr Chonlaphat Sukasem**, Division of Pharmacogenomics and Personalized Medicine, Department of Pathology, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**

**Prof Ekaterina Voroshilina**, Head of the Department of Medical Microbiology, **Ural State Medical University, Yekaterinburg, Russian Federation**

**Assoc Prof Dr Fabienne Thomas**, Cancer Research Center of Toulouse (CRCT), **Université Paul Sabatier, Toulouse, France**

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**Asst Prof Dr Polakit Teekakirikul**, Chief Scientific Officer (Multi-omics), **Bumrungrad Genomic Medicine Institute (BGMI), Bumrungrad International Hospital, Bangkok, Thailand**

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**Dr Thidathip Wongsurawat**, Siriraj Long-read Lab (Si-LoL), Faculty of Medicine, **Siriraj Hospital, Mahidol University, Bangkok Thailand.**

**Assoc Prof Dr Usanarat Anurathapan**, Department of Pediatrics, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**

**Dr Wipa Panmontha**, Senior Director of Clinical Genomics Laboratory, **Bumrungrad International Hospital, Bangkok, Thailand**

Theme: Next generation sequencing and its application in clinical microbiology.

10:00 Opening remarks

Dr Arkom Chaiwongkot, Academic Researcher & Secretary, Dept of Microbiology, Chulalongkorn University, Bangkok, Thailand

#### SESSION 1

10:15 Emergence of antibiotic-resistant burkholderia pseudomallei: a case study on paired isogenic isolates in melioidosis treatment

Dr Sunisa Chirakul, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

11:00 Mycobacterium diagnostics by leveraging CRISPR-Cas12a system and nanopore sequencing technology

Dr Pornchai Kaewsapsak, Department of Biochemistry, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

11:45 Visit the exhibition

#### SESSION 2

13:00 Masterclass session led by University of the Philippines

Drawing the sword of clinical microbiology in addressing diagnostics in infectious diseases

Dr Nina Gloriani, Member, WHO Scientific Steering Committee for COVID19, WHO, Manila, Philippines

Dr Evalyn Roxas, College Secretary, University of the Philippines; Immediate Past President.

Philippine Hospital Infection Control Society Inc, Manila, Philippines

Dr Jemelyn Garcia, Medical Specialist III, Antimicrobial Stewardship Committee Chair, Asian Hospital & Medical Center, Manila, Philippines

13:45 Discovery of the sixth candida auris clade in Singapore

Niranjan Nagarajan, Associate Director (Genome Architecture & Design), Senior Group Leader (Laboratory of Metagenomic Technologies & Microbial Systems), Genome Institute of Singapore, A\*STAR, Singapore

14:45 Coffee break

#### SESSION 3

15:15 Masterclass session led by Philippine Society of Biochemistry and Molecular Biology

From bench to public health: Genomics technology in infectious diseases

Dr Philip Ian Padilla, Asst to the Executive Director, Core Facilities and Extension Services, Philippine Genome Center, Quezon City, Philippines

16:00 Xenosurveillance: Illuminating viral threats beyond borders

Dr Ati Burasakarn, Academic Researcher, Virology Unit, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

16:30 Human virome in health and diseases

**Dr Thanayod Sasivimolrattana**, Lecturer, Department of Microbiology, Faculty of Public Health, Mahidol University, Bangkok, Thailand

17:00 End of conference

**Scientific Chair:**

**Dr Arkom Chaiwongkot**, Academic Researcher & Secretary, Dept of Microbiology, Chulalongkorn University, Bangkok, Thailand

**Co-Chair: Dr Ati Burasakarn**, Academic Researcher, Virology Unit, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

**Speaker Faculty:**

**Dr Ati Burasakarn**, Academic Researcher, Virology Unit, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

**Dr Evalyn Roxas**, College Secretary, University of the Philippines; Immediate Past President. Philippine Hospital Infection Control Society Inc, Manila, Philippines

**Dr Jemelyn Garcia**, Medical Specialist III, Antimicrobial Stewardship Committee Chair, Asian Hospital & Medical Center, Manila, Philippines

**Dr Nina Gloriani**, Member, WHO Scientific Steering Committee for COVID19, WHO, Manila, Philippines

**Niranjan Nagarajan**, Associate Director (Genome Architecture & Design), Senior Group Leader (Laboratory of Metagenomic Technologies & Microbial Systems), Genome Institute of Singapore, A\*STAR, Singapore

**Dr Philip Ian Padilla**, Asst to the Executive Director, Core Facilities and Extension Services, Philippine Genome Center, Quezon City, Philippines

**Dr Popchai Ngamskulrungraj**, Head of dept, Microbiology, Faculty of Medicine, Siriraj Hospital, Bangkok, Thailand

**Dr Pornchai Kaewsapsak**, Department of Biochemistry, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

**Dr Sunisa Chirakul**, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

**Dr Thanayod Sasivimolrattana**, Lecturer, Department of Microbiology, Faculty of Public Health, Mahidol University, Bangkok, Thailand

## Anatomic Pathology Conference (New) Day 2-11 July 2024 Dubai Room

10:00 Opening remarks  
Dr Andrey Bychkov, Director of Digital Pathology, Kameda Medical Center, Kamogawa, Japan

### SESSION 1 Navigating frontiers of anatomic pathology: from molecules to pixels

10:15 Molecular testing in oncology: The more you test, the more you find  
Prof Shanop Shuangshoti, Professor of Pathology, Department of Pathology & Director, Chulalongkorn GenePRO Center, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

10:45 Embarking on digital diagnosis: implementation strategies and checklist  
Prof Junya Fukuoka, Chair, Professor, Department of Pathology Informatics, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

11:15 AI in pathology 2024: Exploring current applications and use cases  
Prof Junya Fukuoka, Chair, Professor, Department of Pathology Informatics, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

11:45 Novel tissue biomarkers: from unveiling mutations to predicting treatment response via IHC  
Talent Theparee, Department of Pathology, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand

12:00 Visit the exhibition

### SESSION 2 Daily diagnostic challenges and pitfalls

13:15 Triple negative breast cancer: An update for pathologists  
Prof Gary Tse, Chairman and Professor in the Department of Anatomical and Cellular Pathology, The Chinese University of Hong Kong, Hong Kong

13:35 HER2 low breast cancer: What, how, and why?  
Prof Gary Tse, Chairman and Professor in the Department of Anatomical and Cellular Pathology, The Chinese University of Hong Kong, Hong Kong

14:00 Early neoplasia of the esophagus: Pathologist's role in management  
Prof Priyanthi Kumarasinghe, Chief Pathologist, PathWest, Government of Western Australia, Perth, Australia

14:20 IBD-associated dysplasia – diagnostic conundrums  
Prof Priyanthi Kumarasinghe, Chief Pathologist, PathWest, Government of Western Australia, Perth, Australia

14:45 PRAME: immunohistochemistry for melanoma diagnosis, reliability and error  
Panitta Sitthinamsuwan, Department of Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

15:05 Coffee break

### SESSION 3 Updates in the Recent WHO Classifications

15:30 CtDNA & CTC-the Dynamic duo to help guide treatment decision in cancer

Dr Gowhar Shafi, Chief Geneticist, OneCellDx Inc, California, USA

15:55 Advances in the 2021 WHO classification of thoracic tumors

Prof Junya Fukuoka, Chair, Professor, Department of Pathology Informatics, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

16:20 Navigating the 2022 WHO and ICC classifications of hematolymphoid tumors

Tauangtham Anekpuritanang, Department of Pathology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

16:45 Approach to renal tumors based on the 2022 WHO classification

Ngoentra Tantranont, Department of Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

17:15 End of conference

#### Scientific Chairs:

Dr Andrey Bychkov, Director of Digital Pathology, Kameda Medical Center, Kamogawa, Japan

Prof Somboon Keelawat, President, Royal College of Pathologists of Thailand, Bangkok, Thailand

#### Speaker Faculty:

Prof Gary Tse, Chairman and Professor in the Department of Anatomical and Cellular Pathology, The Chinese University of Hong Kong, Hong Kong

Prof Junya Fukuoka, Chair, Professor, Department of Pathology Informatics, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

Ngoentra Tantranont, Department of Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

Panitta Sitthinamsuwan, Department of Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

Prof Priyanthi Kumarasinghe, Chief Pathologist, PathWest, Government of Western Australia, Perth, Australia

Prof Shanop Shuangshoti, Professor of Pathology, Department of Pathology & Director, Chulalongkorn GenePRO Center, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

Talent Theparee, Department of Pathology, Faculty of Medicine Chulalongkorn University, Bangkok, Thailand

Tauangtham Anekpuritanang, Department of Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

## Clinical Chemistry Conference Day 3-12 July 2024 Dubai Room

10:00 Opening remarks

Assoc Prof Busadee Pratumvinit, President, Thai Society of Clinical Pathology; Department of Clinical Pathology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

### SESSION 1

Moderator: A/Prof Busadee Pratumvinit

10:15 Masterclass session led by Thai Society of Clinical Pathology

Preanalytical factors in blood gas analysis

A/Prof Kanit Reesukumal, Assistant Professor, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

11:00 From high risk to new born screening of inherited metabolic disorders – A Pakistan perspective

Dr Sibtain Ahmed, Assistant Professor, Department of Pathology & Laboratory Medicine, The Aga Khan University, Karachi, Pakistan

12:00 Visit the exhibition

### SESSION 2

13:00 Quality indicator in medical laboratory service

Assoc Prof Narisa Kengtrong Bordeerat, Department of Medical Technology, Faculty of Allied Health Sciences, Thammasat University, Bangkok, Thailand

14:00 Masterclass led by Singapore association of clinical biochemists (SACB)

Practical solutions to immunoassay interferences: Insights from case studies

Dr Leslie Lam, President, Singapore Association of Clinical Biochemists (SACB), Singapore

15:00 Coffee break

### SESSION 3

15:30 Most common chemistry deficiencies

Dr Fayha Ahmed, Consultant and Head of Biochemistry Unit, Pathology & Genetics Department, Dubai Hospital, Dubai, UAE

16:00 End of conference

Scientific Chair:

Assoc Prof Busadee Pratumvinit, President, Thai Society of Clinical Pathology; Department of Clinical Pathology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

Speaker Faculty:

Dr Fayha Ahmed, Consultant and Head of Biochemistry Unit, Pathology & Genetics Department, Dubai Hospital, Dubai, UAE

A/Prof Kanit Reesukumal, Assistant Professor, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

Dr Leslie Lam, President, Singapore Association of Clinical Biochemists (SACB), Singapore

Assoc Prof Narisa Kengtrong Bordeerat, Department of Medical Technology, Faculty of Allied Health Sciences, Thammasat University, Bangkok, Thailand

Dr Sibtain Ahmed, Assistant Professor, Department of Pathology & Laboratory Medicine, The Aga Khan University, Karachi, Pakistan

## Hematology Conference Day 3 - 12 July 2024 Bangkok Room

10:00 Opening remarks

Assoc Prof Phandee Watanaboonyongcharoen, Medical Director, Department of Laboratory Medicine, Chulalongkorn University, Bangkok, Thailand

### SESSION 1

Moderator: Assoc Prof Dr Kamonlak Leechaoenkiet, Lecturer, Department of Clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Member, The Association of Medical Technologists of Thailand, Bangkok, Thailand

10:05 Session led by Thai Society for Haematology

Diagnostic tests for anti-platelet factor 4 antibodies related disorders (including HIT, VITT, etc)  
Assoc Prof Noppacharn Uprasert, Chief, Division of Hematology, Department of Medicine, Chulalongkorn University, Bangkok, Thailand

Global hemostasis

Pichika Chanrathammachart, Medical Instructor, Division of Hematology, Department of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

11:00 Keynote: Patient blood management: Where to from here

Prof Erica Wood, Head, Transfusion Research Unit, Public Health and Preventive Medicine, Monash University, Melbourne, Australia

11:30 Integrating cytogenetics, cytogenomics, and molecular genetics for the management of hematologic malignancy

Assoc Prof Teerapong Siriboonpiputtana, Human Genetic Laboratory, Department of Pathology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

12:00 Visit the exhibition

### SESSION 2 Society-led sessions

Moderator: Assoc Prof Phandee Watanaboonyongcharoen

13:00 Advancements in histocompatibility and immunogenetics: Implications for personalized medicine and transplantation success

Prof Fang-Yeh Chu, President, Asian Society for Clinical Pathology and Laboratory Medicine (ASCPaLM); President, Taiwan Society of Histocompatibility and Immunogenetics, Taipei City, Taiwan

13:30 Thai National Blood Centre

Blood safety in transfusion medicine

Duannnapa Intrarasongkroh, Medical Technologist, National Blood Centre, Thai Red Cross Society, Bangkok, Thailand

Hemovigilance for blood safety

Sasanan Traiwongpaisarn, Medical Technologist, National Blood Centre, Thai Red Cross Society, Bangkok, Thailand

14:30 Thai Society for Apheresis



**Update on therapeutic apheresis**

**Assoc Prof Wanjak Pongsittisak**, Nephrology and Renal Replacement Therapy Division, Dept of Internal Medicine, Faculty of Medicine, **Vajira hospital, Navamindradhiraj University, Bangkok, Thailand**

15:00 Coffee break

**SESSION 3**

**Moderator:** Assoc Prof Phandee Watanaboonyongcharoen

15:30 Sponsored session

16:00 Japanese Society for Apheresis

**Immunoabsorption for collagen and rheumatic diseases**

**Ken Yamaji**, Vice Director and Professor, Department of Internal Medicine and Rheumatology, Faculty of Medicine, **Juntendo University, Tokyo, Japan**

16:30 End of conference

**Scientific Chair:**

**Assoc Prof Phandee Watanaboonyongcharoen**, Medical Director, Department of Laboratory Medicine, **Chulalongkorn University, Bangkok, Thailand**

**Speaker Faculty:**

**Duannnapa Intrarasonkroh**, Medical Technologist, **National Blood Centre, Thai Red Cross Society, Bangkok, Thailand**

**Prof Erica Wood**, Head, Transfusion Research Unit, Public Health and Preventive Medicine, **Monash University, Melbourne, Australia**

**Prof Fang-Yeh Chu**, President, **Asian Society for Clinical Pathology and Laboratory Medicine (ASCPaLM); President, Taiwan Society of Histocompatibility and Immunogenetics, Taipei City, Taiwan**

**Assoc Prof Dr Kamonlak Leecharoenkiet**, Lecturer, Department of Clinical Microscopy, Faculty of Allied Health Sciences, **Chulalongkorn University, Member, The Association of Medical Technologists of Thailand, Bangkok, Thailand**

**Ken Yamaji**, Vice Director and Professor, Department of Internal Medicine and Rheumatology, Faculty of Medicine, **Juntendo University, Tokyo, Japan**

**Assoc Prof Noppacharn Uaprasert**, Chief, Division of Hematology, Department of Medicine, **Chulalongkorn University, Bangkok, Thailand**

**Pichika Chantrathammachart**, Medical Instructor, Division of Hematology, Department of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**

**Sasanan Traiwongpaisarn**, Medical Technologist, **National Blood Centre, Thai Red Cross Society, Bangkok, Thailand**

**Assoc Prof Teerapong Siriboonpiputtana**, Human Genetic Laboratory, Department of Pathology, Faculty of Medicine, **Ramathibodi Hospital, Mahidol University, Bangkok, Thailand**

**Assoc Prof Wanjak Pongsittisak**, Nephrology and Renal Replacement Therapy Division, Dept of Internal Medicine, Faculty of Medicine, **Vajira hospital, Navamindradhiraj University, Bangkok, Thailand**