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Medlab Asia 2023 Conferences at a glance

Dear colleagues,

Informa Markets and Impact Exhibition Management Co. Ltd. presents 6 CME-CMTE accredited conferences taking place LIVE in-person from 16-18 August 2023

We are elated to welcome you back to the 10th edition of Medlab Asia Conference 2023 in Bangkok, Thailand. Join your industry peers at the only medical scientific event in Asia providing multi-disciplinary education for medical laboratory professionals - to enhance your skills, productivity and quality performance. You may choose to attend any of these CME or CMTE accredited conferences, free of charge!

This year, not only you can network with local and international researchers and meet experts face-to-face, but you will also have the chance to experience the best of science and innovation in the industry.

On behalf of the scientific committee, I look forward to seeing you in-person!

Rejoy Penacerrada, Conference Director



Enhance your career & expand your knowledge











Conference Schedule (Live in-person)

16 August Wednesdαy	17 August Thursdαy	18 August Fridαy
Laboratory Management	Clinical Microbiology	Clinical Chemistry
Molecular Diagnostics	Hematology	Immunology

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Key topics:

- Rational lab use
- National laboratory accreditation program
- Competency training
- Sustainability in the lab
- Neurodevelopmental genetics
- Rare Genetic Disorders
- ELSI in Genomic Medicine
- Neonatal screening
- Epidemiology
- Vaccine development for infectious diseases
- Serology
- Apheresis
- POCT: Technological Advances and Vital Clinical Impact
- HbA1c in diabetes monitoring
- Approaches for deriving reference intervals
- Infectious Immunology
- Autoimmunity
- Primary Immunodeficiency in 2023

Key topics:

- Heads of Laboratory
- Laboratory Directors
- Laboratory Managers
- Clinical Pathologists
- Clinical Chemists
- Clinical Microbiologists
- Hematologists
- Molecular Biologists
- Immunologists
- Geneticists
- Clinical Scientists



Benefits of attending:

- Apply tailored quality control plans in your laboratory to avoid common
- pitfalls and improve quality
- Eliminate testing deficiencies to ensure consistent and accurate results that
- improve patient's outcome
- Discuss accreditation requirements and checklist
- Discuss new innovative tools that will help in screening, diagnosing, and
- managing genetic disorders
- Identify complexity and multiplicity of related ethical aspects in genetic
- testing
- Review the key and current national and global approaches to tackling AMR
- Discuss recent advances and application of vaccines
- Discover key technological breakthroughs in apheresis
- Identify new threats, new technologies for infectious diseases and safe
- blood transfusion
- Identify latest updates in assays
- Appraise use of biomarkers in clinical laboratory
- Discuss primary Immunodeficiency in 2023
- Analyse the management of autoimmune disorders within the region
- Describe the development and application of precision medicine



Laboratory Management

10:05 Opening remarks

A/Prof Kanit Reesukumal, President, Thai Society of Clinical Pathology; Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

SESSION 1 Rational Lab Use

Moderator: A/Prof Kanit Reesukumal

- 10:10 Policy for rational lab use in Thailand
 Dr Piya Sirilak, Deputy Director, Department of Medical Sciences, Ministry of Public
 Health, Bangkok, Thailand
- 10:30 Rational Lab use in Buriram Hospital Dr Detdanai Wannapong, Clinical pathologist, Medical professional level, Head of Medical Technology and Clinical Pathology Department, Buriram Hospital, Buriram, Thailand
- 10:50 Rational Lab use in King Chulalongkorn Memorial Hospital
 Dr Poranee Ganokroj, Assistant. Professor, Department of Laboratory Medicine, Faculty
 of Medicine, Chulalongkorn University, Bangkok, Thailand
- 11:10 O&A

SESSION 2 National Laboratory Accreditation program

11:20 Laboratory medicine foundation

Prof Young Kyung Lee, Director of Scientific Affairs, Korean Association of External Quality Assessment Services; Laboratory Medicine, **Hallym University Sacred Heart Hospital, Seoul, South Korea**

11:40 Thailand laboratory accreditation program

Dr Preechaya Wongkrajang, Associate Professor, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

- 12:00 PT/EQA testing benefits for laboratory quality and performance CAP
- 12:20 Q&A
- 12:30 Lunch break and visit the exhibition



Laboratory Management

SESSION 3 Competency in the clinical laboratory

- 14:00 Competency assessment in clinical laboratories
 Prof Rajiv Erasmus, Emeritus Professor Division of Chemical Pathology, University of
 Stellenbosch, Cape Town, South Africa
- 14:20 Laboratory leadership and competency training
 Carlo Kaabar, Medical Director, MOHAP Laboratories, Purehealth, Sharjah, UAE
- 14:50 Q&A
- 15:00 Coffee break and visit the exhibition

SESSION 4 Smart laboratories

- 15:40 The medical laboratory in digital health
 Dr Thaddeus Carvajal, President, Philippine Society for Microbiology, Manila,
 Philippines
- 16:00 Digital transformation of the medical laboratory
 Dr Ida Parwati, Head of Department Clinical Pathology, Dr Hasan Sadikin Central
 General Hospital, Bandung, Indonesia
- 16:20 Q&A
- 16:30 End of conference

Conference Chair:

A/Prof Kanit Reesukumal, President, Thai Society of Clinical Pathology; Faculty of Medicine

Siriraj Hospital, Mahidol University, Bangkok, Thailand

- Carlo Kaabar, Medical Director, MOHAP Laboratories, Purehealth, Sharjah, UAE
- Dr Ida Parwati, Head of Department Clinical Pathology, Dr. Hasan Sadikin Central General Hospital, Bandung, Indonesia
- Dr Poranee Ganokroj, Assistant. Professor, Department of Laboratory Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand



Laboratory Management

- **Dr Piya Sirilak,** Deputy Director, Department of Medical Sciences, **Ministry of Public Health, Bangkok, Thailand**
- Dr Preechaya Wongkrajang, Associate Professor, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand



Molecular Diagnostics

09:30 Opening remarks

Prof Dr Pornprot Limprasert, Professor of Clinical Pathology; Director of Genomic Medicine, Genomic Medicine Center, Faculty of Medicine, **Prince of Songkla University, Hat Yai, Songkhla, Thailand**

SESSION 1 Neurodevelopmental Genetics

- Moderator: Prof Dr Pornprot Limprasert, Professor of Clinical Pathology; Director of Genomic Medicine, Genomic Medicine Center, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkhla, Thailand
- 09:30 Genomic Medicine: From diagnosis to treatment Prof Dr Kanya Suphapeetiporn, Center of Excellence for Medical Genomics, Department of Pediatrics, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
- 10:15 Genomic study in autism spectrum disorders A/Prof Dr Areerat Hnoonual, Lecturer, Department of Pathology, Genomic Medicine Center, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkhla, Thailand
- 10:45 Molecular diagnosis for triplet repeat disorders
 A/Prof Dr Samuel S Chong, Associate Professor, Dept of Pediatrics, National University
 of Singapore, Singapore
- 11:15 Q&A
- 11:30 Lunch break and visit the exhibition

SESSION 2 Rare Genetic Diseases

Moderator: Prof Dr Pornprot Limprasert, Professor of Clinical Pathology; Director of Genomic Medicine, Genomic Medicine Center, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkhla, Thailand

12:30 Rare genetic diseases in Thailand

Prof Dr Duangrurdee Wattanasirichaigoon, Lecturer, Division of Medical Genetics, Department of Pediatrics, Faculty of Medicine **Ramathibodi Hospital, Mahidol University, Thailand**

- 13:00 Neonatal screening for rare genetic disease
 To be confirmed
- 13:30 Role of whole genome sequencing for rare diseases



Molecular Diagnostics

A/Prof Hon Yin Brian Chung, Clinical Associate Professor, Department of Paediatrics and Adolescent Medicine, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Hong Kong

14:00 Q&A

14:15 Coffee break and visit the exhibition

SESSION 3 Genomics in clinical practice

Moderator: A/Prof Dr Kitiwan Rojnueangnit, Associate Professor, Division of Medical Genetics, Department of Pediatrics, Faculty of Medicine Thammasat University, Pathumthani, Thailand

15:00 Current genomic diagnosis in pediatrics
Dr Ahmad Abou Tayoun, Director of the Genomics Center of Excellence, Al Jalila
Children's Specialty Hospital; Associate Professor of Genetics, Mohammed Bin Rashid
University of Medicine and Health Sciences, Dubai, UAE

15:30 Current genomic diagnosis in internal medicine
A/Prof Dr Polakit Teekakirikul, Clinical Molecular Genetecist. Bumrungrad International
Hospital, Bangkok, Thailand

16:00 Q&A

16:30 End of conference

Conference Chair:

Prof Dr Pornprot Limprasert, Professor of Clinical Pathology; Director of Genomic Medicine, Genomic Medicine Center, Faculty of Medicine, **Prince of Songkla University**, **Hat Yai, Songkhla, Thailand**

Speaker Faculty:

 Dr Ahmad Abou Tayoun, Director of the Genomics Center of Excellence, Al Jalila Children's Specialty Hospital; Associate Professor of Genetics, Mohammed Bin Rashid University of Medicine and Health Sciences, Dubai, UAE



Molecular Diagnostics

- A/Prof Dr Areerat Hnoonual, Lecturer, Department of Pathology, Genomic Medicine Center, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkhla, Thailand
- Prof Dr Duangrurdee Wattanasirichaigoon, Lecturer, Division of Medical Genetics, Department of Pediatrics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand
- A/Prof Hon Yin Brian Chung, Clinical Associate Professor, Department of Paediatrics and Adolescent Medicine, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Hong Kong
- Prof Dr Kanya Suphapeetiporn, Center of Excellence for Medical Genomics, Department of Pediatrics, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
- A/Prof Dr Kitiwan Rojnueangnit, Associate Professor, Division of Medical Genetics, Department of Pediatrics, Faculty of Medicine Thammasat University, Pathumthani, Thailand
- A/Prof Dr Polakit Teekakirikul, Clinical Molecular Genetecist.
 Bumrungrad International Hospital, Bangkok, Thailand
- A/Prof Dr Samuel S Chong, Associate Professor, Dept of Pediatrics, National University of Singapore, Singapore
- A/Prof Thipwimol Tim-Aroon, Associate Professor, Division of Medical Genetics, Department of Pediatrics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand



Clinical Microbiology

10:05 Opening remarks

Dr Nina G. Gloriani, Head of Vaccine Expert Panel, **Department of Science and Technology**; Former Dean of the College of Public Health, **University of the Philippines Manila**, **Manila**, **Philippines**

SESSION 1 MOLECULAR MICROBIOLOGY AND AMR

- 10:10 Role and future of whole genome sequencing in clinical microbiology

 Dr Wael Faroug Mohammed Elamin, Medical Directior, G43 Healthcare, Abu Dhabi,

 UAE
- 10:40 Molecular epidemiology surveillance for emerging pathogens Institute of Medical Research Malaysia
- 11:10 Anti-microbial resistance stewardship in the Philippines; special discussion on Carbapenem Resistant Enterobacteriaceae (CRE)
 Dr Arthur Dessi Roman, Head, Medical Department, Research Institute for Tropical
 Medicine, Department of Health, Manila, Philippines
- 11:40 Q&A

SESSION 2 KEYNOTE

- 11:50 Keynote Immunization programs for vaccine preventable diseases in the Western Pacific Region

 Dr Tigran Avagyan, Technical Officer, Expanded Programme on Immunization, World
 - **Dr Tigran Avagyan**, Technical Officer, Expanded Programme on Immunization, **World Health Organization, Regional Office for the Western Pacific, Manila, Philippines**
- 12:20 Q&A
- 12:30 Lunch break and visit the exhibition

SESSION 3 VACCINES, DIAGNOSTIC AND THERAPEUTIC AGENTS

- 13:30 Diagnostics-therapeutics- prevention through vaccination
 Dr Arunee Thitithanyanont, Associate Professor, Department of Microbiology, Faculty of
 Science, Mahidol University, Bangkok, Thailand
- 14:00 Novel antiviral agents and antiviral resistance studies
 Dr Rozainanee Mohd Zain, Biosafety Officer, Institute of Medical Research, Kuala
 Lumpur, Malaysia



Clinical Microbiology

14:30 Medlab Middle East Scientific Poster Competition Winner:

Potentiality of lytic bacteriophages and their virolysins in lysing multi-drug resistant salmonella typhi

Dr Ayman Elshayeb, Microbiologist, Research and Development Manager, **Elbarkal Multi Activities Dept. Research & Consulting, Sudan**

14:50 Q&A

15:00 Coffee break and visit exhibition

SESSION 4 EMERGING TECHNOLOGIES

- 15:30 Microbiology laboratory automation
 Dr Puspa Wardhani, Clinical Pathologist Consultant, Airlangga University Surabaya,
 Jawa Timur, Indonesia
- 16:00 Biosafety and biosecurity in the clinical microbiology and research laboratories Dr Irma Makalinao, Professor, Department of Pharmacology and Toxicology, College of Medicine, University of the Philippines, Manila, Philippines

16:30 Q&A

16:40 Coffee break and visit exhibition

Conference Chair:

Dr Nina G. Gloriani, Head of Vaccine Expert Panel, **Department of Science and Technology**; Former Dean of the College of Public Health, **University of the Philippines Manila**, **Manila**, **Philippines**

- Dr Arthur Dessi Roman, Head, Medical Department, Research Institute for Tropical Medicine, Department of Health, Manila, Philippines
- Dr Ayman Elshayeb, Microbiologist, Research and Development Manager, Elbarkal Multi Activities Dept. Research & Consulting, Sudan
- Dr Irma Makalinao, Professor, Department of Pharmacology and Toxicology, College Of Medicine, University of the Philippines, Manila, Philippines



Clinical Microbiology

- Dr Puspa Wardhani, Clinical Pathologist Consultant, Airlangga University Surabaya,
 Jawa Timur, Indonesia
- Dr Tigran Avagyan, Technical Officer, Expanded Programme on Immunization, World Health Organization, Regional Office for the Western Pacific, Manila, Philippines
- Dr Wael Faroug Mohamed Elamin, Medical Director, G42 Healthcare, Abu Dhabi, UAE



Hematology

09:30 Opening remarks

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

SESSION 1

- 09:45 Next Generation Sequencing for Myelodysplastic Syndrome
 A/Prof Phandee Watanaboonyongcharoen, Medical Director, Department of Laboratory
 Medicine, Chulalongkorn University, Bangkok, Thailand
- 10:15 Thalassemia: An update

Prof Suthat Fuchareon, Professor, Emeritus at the Institute of Molecular Biosciences, Director of the Thalassemia Research Center, **Mahidol University**, **Nakornpathom**, **Thailand**

- 10:45 Q&A
- 11:00 Coffee break

SESSION 2

- 11:45 Effects and possible negative outcomes associated with transfusion
 Dr John-Paul Tung, Senior Research Fellow, Australian Red Cross Lifeblood, Melbourne,
 Australia
- 12:15 Adult patients with hematologic malignancies
 Philippine Society of Hematology and Blood Transfusion, Manila, Philippines
- 12:45 Q&A
- 13:00 Lunch break and visit the exhibition

SESSION 3

- 14:00 Ultrasound-guide peripheral venous access for therapeutic apheresis
 A/Prof Sukit Raksasuk, Nephrologist, Sirirat Hospital, Mahidol University; Executive committee, Thai Society for Apheresis, Bangkok, Thailand
- 15:40 Q&A
- **16:00** End of conference



Hematology

Conference Chair:

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

- Dr Joseph Vincent Alba, President, Philippine Society of Hematologyand Blood Transfusion, Manila, Philippines
- A/Prof Sukit Raksasuk, Nephrologist, Sirirat Hospital, Mahidol University; Executive committee, Thai Society for Apheresis, Bangkok, Thailand
- Prof Suthat Fuchareon, Professor, Emeritus at the Institute of Molecular Biosciences, Director of the Thalassemia Research Center, Mahidol University, Nakornpathom, Thailand



Clinical Chemistry

10:05 Opening remarks

A/Prof Busadee Pratumvinit, Faculty, Department of Clinical Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

SESSION 1

- 10:10 Central role of laboratory medicine in public health and patient care
 Prof Khosrow Adeli, Head & Professor, Clinical Biochemistry, The Hospital for Sick
 Children, Toronto, Ontario, Canada
- 10:40 How is analytical QC in clinical chemistry practiced now and how can it be improved? Dr Tararat Khaokhiew, Head of Holistic Health and Medical Diagnostic, Faculty of Medical Technology, Mahidol University, Bangkok, Thailand
- 11:10 Q&A

SESSION 2 National Laboratory Accreditation program

- 11:20 Interferences in clinical chemistry
 Colonel Dr Pitipat Jamnarnwej, Deputy Director Department of Clinical Pathology,
 Phramongkutklao Hospital, Bangkok, Thailand
- 11:50 Lipoprotein electrophoresis: applications & interprétations

 To be confirmed
- 12:20 Q&A
- 12:30 Lunch break and visit the exhibition

SESSION 3 Competency in the clinical laboratory

- 14:00 Hemoglobin A1c: POCT or Laboratory?

 Praveen Sharma, Professor of Biochemistry and former Dean (Research), All India
 Institute of Medical Sciences, Jodhpur, India
- 14:30 Implementing POCT blood gas in different clinical settings
 Dr Jatupon Krongvorakul, Instructor, Department of Pathology, Faculty of medicine
 Ramathibodi hospital, Mahidol university, Bangkok, Thailand



Clinical Chemistry

15:00 Coffee break and visit exhibition

SESSION 4

- 15:30 Novel biomarkers in kidney diseases
 Dr Sadudee Peerapornratana, Instructor, Department of Laboratory Medicine, Faculty
 of Medicine, Chulalongkorn University, Bangkok, Thailand
- 16:00 Cardiac biomarkers
 A/Prof Sarawut Kumphune, Associate Professor, Biomedical engineering institute, Chiang
 Mai University, Chiang Mai, Thailand
- 16:15 Q&A

16:30 End of conference

Conference Chair:

A/Prof Busadee Pratumvinit, Faculty, Department of Clinical Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

- Dr Jatupon Krongvorakul, Instructor, Department of Pathology, Faculty of medicine Ramathibodi hospital, Mahidol university, Bangkok, Thailand
- Prof Khosrow Adeli, Head & Professor, Clinical Biochemistry, The Hospital for Sick Children, Toronto, Ontario, Canada
- Colonel Dr Pitipat Jamnarnwej, Deputy Director Department of Clinical Pathology, Phramongkutklao Hospital, Bangkok, Thailand
- Praveen Sharma, Professor of Biochemistry and former Dean (Research), All India Institute of Medical Sciences, Jodhpur, India
- Dr Sadudee Peerapornratana, Instructor, Department of Laboratory Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
- A/Prof Sarawut Kumphune, Associate Professor, Biomedical engineering institute, Chiang Mai University, Chiang Mai, Thailand



Clinical Chemistry

 Dr Tararat Khaokhiew, Head of Holistic Health and Medical Diagnostic, Faculty of Medical Technology, Mahidol University, Bangkok, Thailand



Immunology

09:30 Opening remarks

A/Prof Jaruda Kobkitjaroen, Asst Professor, Department of Clinical Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

SESSION 1

- 09:45 Attempting on Adopting the ICAP Classification for HEp-2 IFA Reporting in Thailand A/Prof Dr Mongkol Kunakorn, Associate Professor in Clinical Pathology, Department of Pathology, Faculty of Medicine Ramathibodi Hospital, Mahidol University
- 10:15 ANCA IF pattern in current clinical practice
 Dr Jan Damoiseaux, Assistant Professor, Diagnostic Centre, NUTRIM School of Nutrition
 and Translational Research in Metabolism; Faculty of Health, Medicine and Life Sciences,
 Maastricht University Medical Center, Maastricht, The Netherlands
- 10:45 Q&A
- 11:00 Coffee break

SESSION 2

- 11:45 Basophil activation test for drug and food allergy
 A/Prof Dr Yuttana Srinoulprasert, Associate Professor. Department of Immunology,
 Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand
- 12:15 House dust mite allergy: From research to products and biodesign program A/Prof Anchalee Tungtrongchitr, Associate Professor, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand
- 12:45 Q&A
- 13:00 Lunch break and visit the exhibition

SESSION 3

- 14:30 Update on melioidosis: insights into patient characteristics and new diagnostics
 Prof Dr Narisara Chantratita, Professor in Microbiology, Faculty of Tropical Medicine,
 Mahidol University, Bangkok, Thailand
- 15:00 Immunogenicity of COVID-19 vaccine A/Prof Jaruda Kobkitjaroen, Asst Professor, Department of Clinical Pathology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand



Immunology

15:30 Update on biomarkers of disease activity in SLE To be confirmed

16:00 Q&A

16:15 End of conference

16:30 Coffee break and visit the exhibition

Conference Chair:

A/Prof Jaruda Kobkitjaroen, Asst Professor, Department of Clinical Pathology, Faculty of Medicine, **Siriraj Hospital, Mahidol University, Bangkok, Thailand**

- A/Prof Anchalee Tungtrongchitr, Associate Professor, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand
- Dr Jan Damoiseaux, Assistant Professor, Diagnostic Centre, NUTRIM
 School of Nutrition and Translational Research in Metabolism; Faculty of
 Health, Medicine and Life Sciences, Maastricht University Medical
 Center, Maastricht, The Netherlands
- A/Prof Dr Mongkol Kunakorn, Associate Professor in Clinical Pathology, Department of Pathology, Faculty of Medicine Ramathibodi Hospital, Mahidol University
- Prof Dr Narisara Chantratita, Professor in Microbiology, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand
- A/Prof Dr Yuttana Srinoulprasert, Associate Professor. Department of Immunology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand

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