Program

2 February 2026 (Arnoma Grand Hotel)

8:50	9:00	**Opening Remarks by Assoc. Prof. Prasit Suwannalert, Dean, Faculty of Science, Mahidol University**
9:00	9:10	**Opening Remarks by Prof Igor Mokrousov, Saint Petersburg's Pasteur Institute**
		Session chaired by Igor Mokrousov and Prasit Palittapongarnpim
9:10	9:40	**Keynote – Taane G. Clark** (London School of Hygiene and Tropical Medicine, UK) *What can 'omics tell us about tuberculosis?*
9:40	10:00	**Christophe Sola** (Université Paris-Saclay, Saint-Aubin, France) *Reconstructing a global evolutionary history of tuberculosis: what are the still unanswered questions ??*
10:00	10:20	**Kiatichai Faksri** (Faculty of Medicine, Khonkaen University, TH) *Application of Genomics and OMICS Approaches for the Diagnosis and Control of* Mycobacterium *and Related Pathogens*
10:20	10:50	**Coffee Break**
		Session chaired by Christophe Sola
10:50	11:10	**Amador Goodridge** (INDICASAT-AIP, City of Knowledge), Panama) *Endemic transmission of* Mycobacterium tuberculosis *Sublineage L2.2.M3 within Panama*
11:10	11:35	**Igor Mokrousov** (Saint Petersburg Pasteur Institute, Russia) *Genomic insight into* Mycobacterium tuberculosis *adaptation to external stress in the in vivo and in vitro models*
11:35	12:35	**Presentations sponsored by Qiagen** **Speaker 1: Vanitha Palaeya** (QIAGEN, Malaysia) *Transforming TB Genomic Surveillance and Resistance Profiling with QIAseq xHYB* Mycobacterium tuberculosis *Panel* **Speaker 2: Zirwatul Adilah Bt Aziz,** (National Public Health Surveillance Laboratory, Malaysia) *Culture-Free Whole Genome Sequencing: The NPHL Experience with QIAseq xHYB* Mycobacterium tuberculosis *Workflow*
12:35	13:30	**Lunch**
13:30	14:30	**Poster Session 1: Presentation of posters with odd numbers**
		Session chaired by Kiatichai Faksri
14:30	14:50	**Danila Zimenkov** (Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russia) *The hidden diversity of* Mycobacterium
14:50	15:10	**Nawamin Pinpathomrat** (Faculty of Medicine, Prince of Songkla University, Songkla, TH) *TB vaccine platforms and delivering system*
15:10	15:40	**Coffee Break**
15:40	16:55	**Oral Presentations chaired by Sayera Banu** **Oren Tzfadia** (Institute for Tropical Medicine, Belgium) *A next-generation Mycobacterial knowledge base* **Mohammad Khaja Mafij Uddin** (icddr,b, Bangladesh) *Genomic insights into drug resistance and transmission dynamics of multidrug-resistant tuberculosis strains in Bangladesh*

		Dyshelly Nurkartika Pascapurnama (Universitas Padjadjaran, Indonesia) *Proportion of pathogenic non-tuberculous mycobacteria identified by partial-gene sequencing among presumptive tuberculosis patients in Indonesia* **John Carlo Macasaddug Malabad** (Department of Science and Technology, Philippines) *A molecular epidemiologic analysis of drug-resistant* Mycobacterium tuberculosis *isolates derived from the Third Philippines TB Drug Resistance Survey 2018 and community-based study* **Pundharika Piboonsiri** (Medical Life Sciences Institute, Department of Medical Sciences, MOPH, Thailand) *Whole genome sequencing of* Mycobacterium tuberculosis *reveals emerging bedaquiline resistance variants in Thailand* **Motunrayo Badejo** (Stellenbosch University, South Africa) *Superparamagnetic iron oxide nanoparticles perturb mycobacterial homeostasis and unveil gene expression signatures of antimicrobial action*

3 February 2026 (Arnoma Grand Hotel)

		Session chaired by Katsushi Tokunaga
9:00	9:30	**Keynote – Qian Gao** (Shanghai Medical College of Fudan University, China) *Molecular epidemiology of* Mycobacterium tuberculosis *in China*
9:30	10.00	**Keynote – Katsushi Tokunaga** (National Center for Global Health and Medicine, Tokyo, Japan) *Genomic approach to infectious diseases*
10.00	10:20	**Surakameth Mahasirimongkol** (Assistant Permanent Secretary, MOPH, TH) *Precision Control of TB: The future of ending TB by 2030.*
10:20	10:50	**Coffee Break**
		Session chaired by Richard Anthony
10:50	11:10	**Taisei Mushiroda** (RIKEN Center for Integrative Medical Sciences, Japan) *Toward Patient-Centered, Stratified Tuberculosis Treatment Through Pharmacogenomics*
11:10	11:30	**Margarita Shleeva** (Federal Research Centre "Fundamentals of Biotechnology" of the Russian Academy of Sciences, Russia) *A novel biochemical reaction in mycobacteria: coproporphyrin III tetramethyl ester synthesis and its adaptation significance*
11:30	11:50	**Egor Shitikov** (Lopukhin Federal Research and Clinical Center of Physical-Chemical Medicine, Moscow, Russia) *Mycobacteriophages: From Laboratory Research to Practical Applications in Medicine*
11:50	13:00	**Lunch**
13:00	14:00	**Poster Session 2: Presentation of posters with even numbers**
		Session chaired by Amador Goodridge
14:00	14:20	**Marisa Ponpuak** (Department of Microbiology, Faculty of Science, Mahidol University, TH) *Monocyte transcriptional responses to* Mycobacterium tuberculosis *associated with natural resistance to tuberculosis infection*
14:20	14:40	**Alexander Apt** (Central Institute of Tuberculosis, Moscow, Russia) *Tuberculosis infection control by the MHC-II in mice and the sequence of innate/adaptive immune responses to infection*
14:40	15:00	**Tomasz Jagielski** (University of Warsaw, Poland) *A water tale – new insights into the ecology of nontuberculous-mycobacteria*
15:00	15:20	**David Couvin** (Institut Pasteur de la Guadeloupe, France) *SITVIT++: Next-Generation* Mycobacterium tuberculosis *databases and biobanks for genomic surveillance, drug resistance monitoring, and predictive intelligence*

15:20	15:50	**Break**
15:50	17:00	**Oral Presentations chaired by Marisa Ponpuak** **Noppadon Nuntawong** (National Electronics and Computer Technology (NECTEC), Thailand) *Engineering a robust SERS-based POC system for tuberculosis screening* **Saradee Warit** (National Center for Genetic Engineering and Biotechnology (BIOTEC) Thailand) *Advancing tuberculosis diagnosis in macaques: A One Health approach* **Narisa Mohthong** (Prince of Songkla University, Thailand) *Investigating immune profiles in healthy and latent tuberculosis-infected participants.* **Yoopie Setiawan** (Universitas Katolik Parahyangan, Indonesia) *The interferon-gamma response to Latin American Mediterranean and modern Beijing sub-lineages of* Mycobacterium tuberculosis *in drug-sensitive and resistant tuberculosis* **Pyae Sone Oo** (Prince of Songkla University, Thailand) *Differential immune responses to novel and established* Mycobacterium tuberculosis *antigens among tuberculosis patients in Southern Thailand*

4 February 2026 (Arnoma Grand Hotel)

		Session chaired by Qian Gao
9:00	9:30	**Keynote – Urvashi Singh** (All Indian Institute of Medical Sciences, Delhi and Head of National TB program, India) Mycobacterium tuberculosis *genomics and transmission tracing in India*
9:30	9:50	**Virasakdi Chongsuvivatwong** (Faculty of Medicine, Prince of Songkla University, Songkla, TH) *Geno-spatio-temporal analysis, interpretation and implications on Infectious diseases*
9:50	10:10	**Richard Anthony** (National Institute for Public Health and the Environment, Netherland) *Micro-evolution in clustered cases of tuberculosis a useful signal or noise?*
10:10	10:40	**Coffee Break**
		Session chaired by Igor Mokrousov
10:40	11.00	**Sayera Banu** (Head, Programme on Emerging Infections, Infectious Diseases Division, icddr, Bangladesh) *Targeted next-generation sequencing for detection of drug-resistant tuberculosis: Challenges and insights from high burden settings in Bangladesh*
11:00	11:30	**Pakorn Aiewsakun** (Center for Microbial Genomics, Faculty of Science, Mahidol University, TH) *Whole genome sequence analysis to detect* Mycobacterium tuberculosis *transmission cluster*
11:30	12:00	**Robin Warren (**Stellenbosch University, South Africa) *The genesis and transmission of drug-resistant TB.*
12:00	13:00	**Lunch**
13:00	14:00	**Oral Presentation chaired by Violeta Valcheva** **Tania Jim** (National University of Singapore, Singapore) *The use of a novel conjugated oligoelectrolyte molecule to potentiate antibiotic efficacy against Non-Tuberculous Mycobacteria* **Kishan Kumar Parida** (National Institute of Pharmaceutical Education and Research, India) *Structure based identification and validation of Benzothiazole derivatives as potent DprE1 inhibitors against* Mycobacterium tuberculosis **Hleziphi Violah Mpundu** (Stellenbosch University, South Africa) *Targeting drug-tolerant tuberculosis through repurposing of approved drugs* **Arnab Roy** (National Institute of Pharmaceutical Education and Research, India) *Overcoming metabolic redundancy in* Mycobacterium tuberculosis *via dual inhibition of terminal oxidases*

		Session chaired by Egor Shitikov
14:00	14:20	**Mi Kaixia** (Institute of Microbiology, Chinese Academy of Sciences, China) *Elucidating the dual role of mycobacterial MfpA in fluoroquinolone resistance and virulence regulation*
14:20	14:40	**Violeta Valcheva** (Department of Infectious Microbiology, Stephan Angeloff Institute of Microbiology, ulgarian Academy of Sciences, Bulgaria) *Development and pharmacological evaluation of novel hydrazide - hydrazone derivatives as potential antituberculosis drug candidates*
14:40	15:00	**Oleg Ogarkov** (Scientific Center for Family Health and Human Reproduction Problems, Irkutsk, Russia) *The formation of a polybacterial community in caseous necrosis: a common and adverse consequence of tuberculosis*
15:00	15:20	**Prasit Palittapongarnpim** (Center for Microbial Genomics, Faculty of Science, Mahidol University, TH) *Structural variations of the pe/ppe gene family*
15:20	15:30	**Awarding and Closing ceremony**
1530	1630	**Coffee Break**

Abstracts (Poster presentations)

1. **P-01: Xiaoming Liu** (Beijing Chest Hospital, Capital Medical University; Beijing Tuberculosis and Thoracic Tumor Research Institute, China) | **Global burden of childhood tuberculosis (1990–2021): a systematic analysis from the Global Burden of Disease Study 2021**.....

2. **P-02: Zaidah Abdul Rahman** (School of Medical Sciences, Universiti Sains Malaysia, Malaysia) | **Latent tuberculosis infections (LTBI) among healthcare workers & laboratory staff: is screening mandatory?** .....

3. **P-03: Lapasrada Pattarapreeyakul** (Medical Life Sciences Institute, Department of Medical Sciences, MOPH, Thailand) | **Geographical distribution and characteristics of cutaneous non-tuberculous mycobacterial infections in Thailand from 2015 to 2024**.....

4. **P-04: Mahfuza Talukder Flowra** (Oslo Metropolitan University, Oslo, Norway) | **Barriers of multidrug-resistant tuberculosis (MDR- TB) detection from the community perspective in Bangladesh: A mixed method Study** .....

5. **P-05: Ayush Bhutada** (Indira Gandhi Government Medical College Nagpur, India) | **Open Negative Syndrome in tuberculosis: A rare diagnostic dilemma post-treatment** .....

6. **P-06: Ayush Bhutada** (Indira Gandhi Government Medical College Nagpur, India) | **Unveiling Gender and BMI influences on outcome of hospitalization in TB cases: Insights from a Central India hospital study** .....

7. **P-07: Rashmi Ratnam** (Microbiology, King George's Medical University, Lucknow, India) | **Influence of diabetes and socioeconomic variables on treatment response in pulmonary tuberculosis patients** .....

8. **P-08: Rashmi Ratnam** (Microbiology, King George's Medical University, Lucknow, India) | **Emerging phenotypic resistance to delamanid and pretomanid in MDR-TB: Co-resistance patterns from a North Indian Reference Laboratory** .....

9. **P-09: Nenekazi Masikantsi** (Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Stellenbosch University, South African) | **CRISPR interference-mediated discovery of antitubercular compounds from South African medicinal plants**.....

10. **P-10: Nuhu Ibrahim Tukur** (Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Stellenbosch University, South Africa) | **Discovery of potent DnaK-targeting Cyclomarin- A derived BacPROTACs as a potential anti-tuberculosis therapeutic modality**.....

11. **P-11: Onpreeya Kritwatcharas** (Department of Medical Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand) | **Investigation of propolis-loaded niosomes for tuberculosis: anti-mycobacterial activity and three-dimensional granuloma model** .....

12. **P-12: Sujata Sharma** (Department of Biophysics, All India Institute of Medical Sciences, India) | **Lactoferrin as a multifunctional modulator of oxidative stress and antimycobacterial immunity in tuberculosis**.....

13. **P-13: Nikhat Khan** (Symbiosis International University, India; Regional Medical Research Centre, India) | **Population genetic analysis of *NAT2* Gene in Saharia Tribe: A particularly vulnerable tribal group of Central India**.....

14. **P-14: Pathida Prakongsup** (Department of Biochemistry, Faculty of Pharmacy, Mahidol University, Thailand) | **The association study between DNA methylation on *CYP2D6* and *CYP2E1* gene promoter and anti-tuberculosis drug-induced liver injury in tuberculosis patients in Thailand .....**

15. **P-15: Taratorn Kemthong** (Faculty of Science, Chulalongkorn University, Thailand) | **Evaluating the tuberculin skin test as a practical tool for staging *Mycobacterium tuberculosis* infection in cynomolgus macaques .....**

16. **P-16: Prapaporn Srilohasin** (Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand) | ***Mycobacterium tuberculosis* Beijing Lineage from cynomolgus macaques compared with human isolates in Thailand .....**

17. **P-17: Zhenli Liang** (Guangxi Center for Disease Control and Prevention, China) | **The impact of Influenza on TB treatment outcomes: a retrospective matched cohort study in Guangxi, China, 2012-2024 .....**

18. **P-18: Natapohn Saowaphong** (Faculty of Medicine, Prince of Songkla University, Thailand) | **Evaluation of stability and viability of BCG microneedle vaccine derived from three different conditions .....**

19. **P-19: Trinh Minh Phuong** (College of Medicine, Gyeongsang National University, Republic of Korea) | **Disentangling relapse and reinfection in *Mycobacterium intracellulare* using MIRU-VNTR genotyping .....**

20. **P-20: Minh Phuong Trinh** (College of Medicine, Gyeongsang National University, Republic of Korea) | **Gram-negative–driven TLR4 activation reshapes cytokine dynamics and host response during *Mycobacterium avium* infection.....**

21. **P-21: Sahasawat Suksan** (Department of Biomedical Science and Biomedical Engineering, Prince of Songkhla University, Thailand) | **Modeling human tonsil organoids to study adaptive immune responses against BCG .....**

22. **P-22: Suthirote Meesawat** (Department of Biology, Faculty of Science, Chulalongkorn University, Thailand) | **Rapid detection of antibody against *Mycobacterium tuberculosis* complex in synanthropic rhesus (*Macaca mulatta*) and long-tailed (*M. fascicularis*) macaques across Thailand .....**

23. **P-23: Anna Vyazovaya** (St. Petersburg Pasteur Institute, Russia) | **Overwhelming dominance of the Beijing genotype among pre-extensively drug-resistant *Mycobacterium tuberculosis* strains in western Siberia, Russia .....**

24. **P-24: Nik Mohd Noor Nik Zuraina** (Department of Medical Microbiology & Parasitology, School of Medical Sciences, Universiti Sains Malaysia, Malaysia) | **Rapid detection of *Mycobacterium tuberculosis* SIT745/EAI1-MYS Using a five-spacer multiplex PCR.....**

25. **P-25: Manu Singh** (Department of Respiratory Medicine, King George's Medical University, India) | **Discrepancies in molecular and culture-based detection of central nervous system tuberculosis and its drug resistance profile.....**

26. **P-26: Waritta Sawaengdee** (Department of Medical Sciences, MOPH, Thailand) | **Whole-genome sequencing reveals the co-dominance of *Mycobacterium tuberculosis* lineages 1 and 2 in Thailand .....**

27. **P-27: Pornpen Tantivitayakul** (Department of Oral Microbiology, Faculty of Dentistry, Mahidol University, Thailand) | **Interactions of human genomes and mycobacterial genomes contribute to severity and transmissibility of pulmonary tuberculosis .....**

28. **P-28: Manita Yimcharoen** (Department of Medical Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand) | **Adaptive genome remodeling and conserved virulence shape interactions between host and pathogen in drug-resistant *Mycobacterium tuberculosis*.....**

29. **P-29: Zayar Phyo** (Department of Medical Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand) | **Comparative transcriptional signatures reveal strain-specific isoniazid responses in *Mycobacterium tuberculosis* under host-mimicked stress conditions ...**

30. **P-30: Grigorii Sergeev** (St. Petersburg Pasteur Institute, St. Petersburg, Russia) | **Development of bedaquiline resistance in *Mycobacterium tuberculosis* serial isolates recovered during treatment of MDR/pre-XDR tuberculosis patients .....**

31. **P-31: SM Rezvi** (Microbiology Department, Faculty of Medicine, Universitas Andalas, Indonesia) | **Development and validation of an RT-PCR Kit for rapid detection of *Mycobacterium tuberculosis* in clinical samples.....**

32. **P-32: Sushma Yadav** (King George's Medical University, India) | **Identification of Drug-resistant profile of multidrug-resistant patients receiving bedaquiline and delamanid based regimen .....**

33. **P-33: Charintip Yenyuvadee** (Medical Life Sciences Institute, Department of Medical Science, MOPH, Thailand) | **Comparative analysis of phenotypic and whole genome sequencing for drug susceptibility testing in *Mycobacterium tuberculosis* isolates .....**

34. **P-34: Ye Win Aung** (Department of Microbiology, Faculty of Medicine, Khon Kaen University, Thailand) | **Heteroresistance of *Mycobacterium tuberculosis* in the sputum detected by Droplet Digital PCR.....**

35. **P-35: Arkan Hidayat** (Stem Cell and Cancer Institute, Indonesia) | **Performance of Wide-Coverage Open-System RT-PCR to detect *Mycobacterium tuberculosis*, rifampicin, and isoniazid resistance in sputum samples from presumed pulmonary tuberculosis patients in Indonesia.....**

36. **P-36: Muhammad Mu'iz Ehsannudin bin Abu Bakar** (National Mycobacteria Reference Laboratory, Department of Laboratory Services, Ministry of Health, Brunei Darussalam) | **High prevalence of inducible macrolide resistance in *Mycobacterium abscessus* Complex revealed by nationwide implementation of the GenoType NTM-DR Assay in Brunei Darussalam. ...**

37. **P-37: Selly Erwina** (Faculty of Medicine, Universitas Andalas, Indonesia) | **Potency of whole-genome sequencing for mapping lineage and drug resistance of *Mycobacterium tuberculosis* in Indonesia: a systematic review .....**