The 9th Princess Chulabhorn International Science Congress

THE CHALLENGES OF ONE HEALTH: THE ROLES OF BIOSCIENCES AND CHEMISTRY

December 15 - 18, 2024, Shangri-La Hotel, Bangkok, THAILAND

POSTER SESSIONS

Location: The Ballroom Foyer on the Lobby level of the Shangri-La Hotel.

List of Poster Presentations:

Code	Topic	Poster No.	Group	Board No.
PA	Diseases of Public Health Concerns (Genetic Diseases, Cancer)	PA-01 to PA-42	1	001 - 042
PB	Drug Development for Prevention and Treatment	PB-01 to PB-30	1	042 - 072
PC	Antimicrobial Resistance	PC-01 to PC-26	2	001 - 026
PD	Climate Change and Communicable Diseases	PD-01 to PD-11	2	027 - 037
PE	Environmental Health Issues	PE-01 to PE-22	2	038 - 059
PF	Food Safety and Security	PF-01 to PF-07	2	060 - 066

Hours:

Group 1: Poster Number PA-01 to PB-30, 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 12:30 to 13:00.

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

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 from 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.

The Poster Board is 1.0 m. (width) x 2.5 m. (height). The poster size should not be larger than 0.9 m. (width) x 1.2 m. (height).

Please check the **Poster Number and Board Number** from the list of Poster Presentations in the Poster Session of the "Program and Abstracts" book. **The Board Number** refers to the location that does not change throughout the Congress and will be posted at the top of the poster boards by the organizers. Posters can be mounted with double-sided foam mounting tape, which will be available on site.

Staff will be available in the morning of Monday, December 16 to Wednesday, November 18, and at all times during the day (08:00 to 17:00) to assist presenters.

LIST OF POSTER PRESENTATIONS

GROUP 1:

A. DISEASES OF PUBLIC HEALTH CONCERNS (GENETIC DISEASES, CANCER)

	Poster No.	Board No.
Apoptosis induction and molecular docking of 3,4-dihydro-lactucin from *Microbispora rosea* AL22 with anticancer properties *Thongchai Taechowisan*	PA-01	001
Kinase library screening identifies IGF-1R as an oncogenic vulnerability in cholangiocarcinoma stem-like cells *Chotirat Rattanasinchai*	PA-02	002
Inhibition of breast cancer cell migration and invasion by a novel neutralizing monoclonal antibody targeting ADAM9 *Chayapat Thammarak*	PA-03	003
Gene alterations detection in Thai patients with solid tumors *Phanasit Phuwasanphet*	PA-04	004
Prevalence of JAK2V^{617F} mutation in polycythemia vera and essential thrombocythemia patients at Chulabhorn hospital *Nattida Cholnakasem*	PA-05	005
Correlation of HER-2 testing methods by immunohistochemistry and fluorescence *in situ* hybridization in Chulabhorn hospital *Thivaratana Sinthuwiwa*	PA-06	006
The assessment of concordant of HER2 status using fluorescence in situ hybridization (FISH) technique within the ASCO/CAP guideline between 2013 and 2018 *Kanthida Jangyubol*	PA-07	007
Detection of *Legionella pneumophila* and its amoeba host in wastewater treatment plants using droplet digital polymerase chain reaction *Rojana Sukchawalit*	PA-08	008
Development of a droplet digital PCR (ddPCR) assay for detection of Legionella species *Benya Nontaleerak*	PA-09	009
Frequency of CALR mutation in Thai myeloproliferative neoplasm patients *Kriangpol Wiriyaukaradecha*	PA-10	010
Capsaicin exhibits anti-metastatic activity in human nasopharyngeal carcinoma cells through the modulation of mTOR signaling *Pattama Singhirunnusorn*	PA-11	011
Targeting mitotic proteins induces G2/M arrest and apoptosis in cholangiocarcinoma cells *Benchamart Moolmuang*	PA-12	012
Methylome profiling reveals subtype-specific epigenetic patterns in Thai intrahepatic cholangiocarcinoma *Jittiporn Chaisaingmongkol*	PA-13	013
Urinary biomarkers for intrahepatic cholangiocarcinoma using metabolomics *Nattamon Narkwichearn*	PA-14	014
Manganese induced inflammation in oral cancer cells *Nutsira Vajeethaveesin*	PA-15	015
Evaluation of the anticancer potentials of sugar-rich fraction and crude aqueous extract of *Moringa oleifera* seeds in estrogen receptor-positive and triple-negative breast cancer cells *Omowumi O. Adewale*	PA-16	016
Local invasion suppressor in intraductal papillary neoplasm of the bile duct tumors identified by clonal evolution analysis *Khajeelak Chiablaem*	PA-17	017
Metformin modulates pancreatic stellate cell migration and cancer stemness in 3D pancreatic ductal adenocarcinoma models, suggesting potential for enhanced therapeutic efficacy *Soojung Hahn*	PA-18	018

GROUP 2:

C. ANTIMICROBIAL RESISTANCE

	Poster No.	Board No.
Tracking antibiotic resistance genes and human fecal marker CrAssphage in hospital effluents *Supitchaya Theplhar*	**PC-01**	**001**
Prospects of bacteriophages in developing solutions to reduce antibiotic abuse in aquaculture in Thailand *Tharindu Pollwatta Gallage*	**PC-02**	**002**
The study of antibiotic resistance mechanisms in *Pseudomonas aeruginosa* PCIP screened from PAO1 genomic DNA library *Punyawee Dulyayangkul*	**PC-03**	**003**
Tracking ESBL-producing *E. coli* and antibiotic resistance genes in livestock waste for one health surveillance *Phub Zam*	**PC-04**	**004**
Oxidative stress mediated mechanistic insights of silver nanoparticles in bacterial cells to overcome antimicrobial resistance *Aakash Shukla*	**PC-05**	**005**
A synergistic antibiotic combination against pulmonary NTM *Peiying Ho*	**PC-06**	**006**
Developing a novel class of antibiotic by targeting tRNA methyltransferase (TrmD) *Peiying Ho*	**PC-07**	**007**
Investigation of the *Agrobacterium tumefaciens* novel Zur-regulon members in zinc modulation *Nirmani Wishwakala Nawarathne*	**PC-08**	**008**
Roles of 16S rRNA methyltransferase KsgA in oxidative stress response and antibiotic resistance of *Pseudomonas aeruginosa* *Kamonwan Phatinuwat*	**PC-09**	**009**
Antimicrobial resistance mechanisms: Investigation of role of the ferritin-like gene on antibiotic resistance in *Stenotrophomonas maltophilia* *Parinya Tipanyo*	**PC-10**	**010**
Enrofloxacin-induced antimicrobial resistance of *Stenotrophomonas maltophilia* *Nuchjaree Boonyong*	**PC-11**	**011**
Quinoclamine inhibits mitomycin-C-induced SOS response in *Pseudomonas aeruginosa* PAO1 *Saknarin Nin-injan*	**PC-12**	**012**
Tetracycline induces minocycline resistance in *Stenotrophomonas maltophilia* *Amita Mekarunothai*	**PC-13**	**013**
Killing effect of phage-ceftazidime combination against ceftazidime-resistant *Burkholderia pseudomallei* on pig skin *Kunsuda Saleepoung*	**PC-14**	**014**
Characterization of 5-methyluridine in TRNA in *Pseudomonas aeruginosa* *Jurairat Chittrakanwong*	**PC-15**	**015**
Role of herbicides in antibiotic resistance in *Stenotrophomonas maltophilia* *Pitthawat Grittanaanun*	**PC-16**	**016**
SoxR-regulated oxidative stress response and its impact on antibiotic resistance in *Stenotrophomonas maltophilia* *Poonyaporn Kanawong*	**PC-17**	**017**
Gaps in antimicrobial resistance research in southeast Asian water sources: An environmental one health perspective *Prasert Makkaew*	**PC-18**	**018**
An automated snakemake-based pipeline for the detection of antimicrobial resistance genes in the genus *Burkholderia* *Auripan Porat*	**PC-19**	**019**
Antibiotic resistance genes and mobile genetic elements from the microbiome of Barbour's seahorses *Rose Chinly Mae H. Ortega-Kindica*	**PC-20**	**020**

E. ENVIRONMENTAL HEALTH ISSUES