



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:

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

	<u>Poster No.</u>	<u>Board No.</u>
EGFR mutations in 592 Thai NSCLC patients <i>Nithiphut Tantirukdham</i>	PA-19	019
Serum and urinary galectin-1 as a biomarker of chronic kidney disease progression <i>Nachayada Chaiyagot</i>	PA-20	020
VDa, VLe, and VLi demonstrated anti-tumor activity against A549 by targeting the JAK2/STAT3 pathway <i>Siriporn Keeratichamroen</i>	PA-21	021
The novel Q500X and r619x IDUA mutations in Thai patients and their potential treatment through aminoglycoside induced premature stop codon read-through mutations <i>Phanee Sawangareetrakul</i>	PA-22	021
Characterization and functional study of a novel CTSA variant in a family with late-infantile galactosialidosis associated with T-cell defects <i>Lukana Ngiswara</i>	PA-23	023
The role of ANKRD1-NF-KB-MAGE-A6 in metastatic breast cancer <i>Penchatr Diskul-Na-Ayudthaya</i>	PA-24	024
Identifying autoantibodies against NDE1, PYCR1, and VIM combined with CA19-9 for enhanced ICCA diagnosis <i>Wachira Kajornsrichon</i>	PA-25	025
Identification of NDRG1 as a potential target for anoikis resistance in breast cancer metastasis <i>Amnat Khongmanee</i>	PA-26	026
Elucidating the molecular mechanism of IMPDH2 in osteosarcoma metastasis <i>Petlada Yongpitakwattana</i>	PA-27	027
Label-free impedimetric immunosensors for detection of cervical cancer biomarkers <i>Kamolwan Watcharatanyatip</i>	PA-28	028
Label-free quantification mass spectrometry reveals metastatic proteins and advanced-stage prognostic biomarkers in cholangiocarcinoma <i>Toollayapron Audsasan</i>	PA-29	029
Investigation of the inhibitory effects of protein O-GlcNAcylation on SW620 metastatic colon cancer cells <i>Thirasak Bunsuk</i>	PA-30	030
Multidrug-resistant lung cancer cells are highly susceptible to ferroptosis <i>Phichamon Phetchahwang</i>	PA-31	031
Glycoproteomics of plasma immunoglobulin A in patients with colorectal cancer <i>Juthamard Chantaraamporn</i>	PA-32	032
Charge-based diagonal chromatography for isolating O-GlcNAc-modified peptides in HELA cell extracts <i>Churat Weearphan</i>	PA-33	033
CEliver: a novel cell-free DNA fragmentation-based prediction model for early hepatocellular carcinoma <i>Sasimol Udomruk</i>	PA-34	034
Investigation of cancer colony formation and proteomes of colorectal cancer cell lines using 3D culture models <i>Photsathorn Mutapat</i>	PA-35	035
Culture supernatants from cholangiocarcinoma cell lines induce the M2 phenotype of primary human monocytes <i>Sittisak Pui-ock</i>	PA-36	036
Actionable genetic alterations in non-small cell lung cancer identified through multi-gene panel testing <i>Chumut Phanthunane</i>	PA-37	037
The effect of passive smoking on inflammatory factors in infertile women in Southern China <i>Rongju Liu</i>	PA-38	038

	<u>Poster No.</u>	<u>Board No.</u>
Nurse sonographer competency in liver and bile duct cancer screening: an alternative to radiologist assessment <i>Teerapat Ungtrakul</i>	PA-39	039
The association of gut microbiome in Thai colorectal adenomas <i>Thoranin Intarajak</i>	PA-40	040
Health literacy regarding liver and bile duct cancer in high-risk groups <i>Kamonwan Soonklang</i>	PA-41	041
Predictor of advanced colorectal neoplasia development after polypectomy <i>Dawn Aneknuan</i>	PA-42	042

B. DRUG DEVELOPMENT FOR PREVENTION AND TREATMENT

Synergistic antibacterial activity of 1-methyl ester-nigericin and methyl 5-(hydroxymethyl) furan-2-carboxylate against <i>Proteus</i> spp. <i>Thongchai Taechowisan</i>	PB-01	043
Adenosine: its molecular mechanisms and potential in cholangiocarcinoma tumor inhibition <i>in vivo</i> <i>Jomnarong Lertsuwan</i>	PB-02	044
<i>Piper nigrum</i> extract reduces breast cancer incidence by modulation of cancer cytokines/chemokines and T cells <i>Sirinapa Dokduang</i>	PB-03	045
Lycopodium alkaloids: isolation, semi-synthesis, anti-acetylcholinesterase activity and novel protective application against neurodegenerations <i>Nopporn Thasana</i>	PB-04	046
The first bioactive polyphenolic glycosides and methods validation for the quantification from <i>Hypodematium</i> sp. <i>Wachirasak Thaisaeng</i>	PB-05	047
Base-mediated and silver-catalyzed divergent synthesis of naphthalene derivatives from enone-oxazolone <i>Rattana Worayuthakarn</i>	PB-06	048
Synthesis and evaluation of tacrine-α-onocerin hybrids as cholinesterase inhibitors against Alzheimer's disease <i>Chuleeporn Ngernnak</i>	PB-07	049
Two unprecedented classes of biflavonoid linkage from <i>Selaginella</i> plants <i>Wanlaya Thamnarak</i>	PB-08	050
Photoinduced cascade reaction of ene-yne-oxazolones with TMSN₃ and NIS: Synthesis of azidyl spiroindenox-azolones <i>Sireethon Khotsombat</i>	PB-09	051
Photosensitizer-loaded polymer-lipid hybrid nanoparticles; synthesis, photophysical properties and <i>in vitro</i> photodynamic therapy with thyroid cancer cells <i>Sasivimon Pramual</i>	PB-10	052
Troloxamide derivatives as potent acetylcholinesterase inhibitors <i>Jitkanya Holim</i>	PB-11	053
The utilization of a combined protein selection strategy to isolate anti-PCSK9 nanobodies from synthetic libraries <i>Apisitt Thaiprayoon</i>	PB-12	054
Novel sulfonamide derivatized Zn(II)-dipicolylamine complexes as potential antibacterial drug leads <i>Kithmini Yasarithna</i>	PB-13	055
The application of boron nitride nanostructures in anti-cancer and anti-inflammatory drugs delivery <i>Elham Tazikeh-Lemeski</i>	PB-14	056
Preparation and evaluation of sprayable hydrogel formulations for wound dressing <i>Amlika Rungrod</i>	PB-15	057

	<u>Poster No.</u>	<u>Board No.</u>
Repurposing ceftriaxone: A potential therapy for acquired epilepsy in Alzheimer's disease: findings from <i>in vivo</i> and <i>in vitro</i> studies <i>Hattapark Dejakaisaya</i>	PB-16	058
The active constituent roles in anti-cancer activity of <i>Bulbophyllum</i> orchid <i>Pattana Srifah</i>	PB-17	059
Synthesis of Caerulomycin analogues for improve anti-cancer activity <i>Rungnapha Saeeng</i>	PB-18	060
Synthesis and characterization of syringic acid-loaded MIL-100(Fe) metal-organic framework for potential therapeutic applications <i>Rikkamae Zinca Marie L. Walde</i>	PB-19	061
Phytochemical and antimicrobial potential of endemic philippine <i>Vanoverberghia</i> species: Unveiling their medicinal value <i>Rikkamae Zinca Marie L. Walde</i>	PB-20	062
Development and validation of ELISA for the measurement of trastuzumab anti-drug antibody in rat serum <i>Patchara Ngok-ngam</i>	PB-21	063
Bioaccessibility and bioactivity of microencapsulated calamansi waste extract during simulated digestion <i>Boon Jen Lee</i>	PB-22	064
The effect of melatonin and small molecules on cell re-programming in human skin fibroblast <i>Nongnuch Singrang</i>	PB-23	065
Legume-5K protects SH-SY5Y cells from erastin-induced neurite outgrowth damage linked with OTUB1 and midkine <i>Theetat Ruangjaroon</i>	PB-24	066
Development and validation of an HPTLC method for determining mitragynine in OD-FIN polyherbal extract <i>Jaenjira Angsusing</i>	PB-25	067
ALOIFOL I: A novel anti-inflammatory agent with favorable CNS safety profile for treating sickness behaviors <i>Peththa Wadu Dasuni Wasana</i>	PB-26	068
Formulation and evaluation of topical gel using <i>Securinega leucopyrus</i> and <i>Aloe vera</i> for wound healing activity <i>Vindya Pathiraja</i>	PB-27	069
Uncovering the potential of DEAB as a compound selectively kills multidrug-resistant lung cancer cells <i>Kriengsak Lirdprapamongkol</i>	PB-28	070
HMG-CoA reductase and cholinesterase inhibitors of <i>Citrus hystrix</i>: Molecular docking-enzymatic evaluations <i>Suriphon Singha</i>	PB-29	071
Developing a system for the rational use of antibiotics in agriculture in a participatory manner in Amnatcharoen Province <i>Sutida Paboot</i>	PB-30	072

GROUP 2:**C. ANTIMICROBIAL RESISTANCE****Poster
No.****Board
No.**

Tracking antibiotic resistance genes and human fecal marker CrAssphage in hospital effluents <i>Supitchaya Theplhar</i>	PC-01	001
Prospects of bacteriophages in developing solutions to reduce antibiotic abuse in aquaculture in Thailand <i>Tharindu Pollwatta Gallage</i>	PC-02	002
The study of antibiotic resistance mechanisms in <i>Pseudomonas aeruginosa</i> PCIP screened from PAO1 genomic DNA library <i>Punyawee Dulyayangkul</i>	PC-03	003
Tracking ESBL-producing <i>E. coli</i> and antibiotic resistance genes in livestock waste for one health surveillance <i>Phub Zam</i>	PC-04	004
Oxidative stress mediated mechanistic insights of silver nanoparticles in bacterial cells to overcome antimicrobial resistance <i>Aakash Shukla</i>	PC-05	005
A synergistic antibiotic combination against pulmonary NTM <i>Peiyang Ho</i>	PC-06	006
Developing a novel class of antibiotic by targeting tRNA methyltransferase (TrmD) <i>Peiyang Ho</i>	PC-07	007
Investigation of the <i>Agrobacterium tumefaciens</i> novel Zur-regulon members in zinc modulation <i>Nirmanani Wishwakala Nawarathne</i>	PC-08	008
Roles of 16S rRNA methyltransferase KsgA in oxidative stress response and antibiotic resistance of <i>Pseudomonas aeruginosa</i> <i>Kamonwan Phatinuwat</i>	PC-09	009
Antimicrobial resistance mechanisms: Investigation of role of the ferritin-like gene on antibiotic resistance in <i>Stenotrophomonas maltophilia</i> <i>Parinya Tipanyo</i>	PC-10	010
Enrofloxacin-induced antimicrobial resistance of <i>Stenotrophomonas maltophilia</i> <i>Nuchjaree Boonyong</i>	PC-11	011
Quinoclamine inhibits mitomycin-C-induced SOS response in <i>Pseudomonas aeruginosa</i> PAO1 <i>Saknarin Nin-injan</i>	PC-12	012
Tetracycline induces minocycline resistance in <i>Stenotrophomonas maltophilia</i> <i>Amita Mekarunothai</i>	PC-13	013
Killing effect of phage-ceftazidime combination against ceftazidime-resistant <i>Burkholderia pseudomallei</i> on pig skin <i>Kunsuda Saleepoung</i>	PC-14	014
Characterization of 5-methyluridine in TRNA in <i>Pseudomonas aeruginosa</i> <i>Jurairat Chittrakanwong</i>	PC-15	015
Role of herbicides in antibiotic resistance in <i>Stenotrophomonas maltophilia</i> <i>Pitthawat Grittanaanun</i>	PC-16	016
SoxR-regulated oxidative stress response and its impact on antibiotic resistance in <i>Stenotrophomonas maltophilia</i> <i>Poonyaporn Kanawong</i>	PC-17	017
Gaps in antimicrobial resistance research in southeast Asian water sources: An environmental one health perspective <i>Prasert Makkaew</i>	PC-18	018
An automated snakemake-based pipeline for the detection of antimicrobial resistance genes in the genus <i>Burkholderia</i> <i>Auripan Porat</i>	PC-19	019
Antibiotic resistance genes and mobile genetic elements from the microbiome of Barbour's seahorses <i>Rose Chinly Mae H. Ortega-Kindica</i>	PC-20	020

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Innovative strategies to combat antimicrobial resistance: integrating biofilm disruption, nanotechnology, and one health approaches <i>Muhammad Hassnain</i>	PC-21	021
Biofilm structure of colistin-resistant <i>Pseudomonas aeruginosa</i> on foley catheter <i>Piyaporn polyiam</i>	PC-22	022
Agrocydine-induced multidrug antibacterial resistance in <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> <i>Shanaka Karunathilaka</i>	PC-23	023
Factors affecting resistance to multiple drugs of pulmonary tuberculosis treatment in Thai Charoen Hospital. Thai Charoen District, Yasothon Province <i>Chanchai Booncherd</i>	PC-24	024
Genetic diversity and antimicrobial resistance of <i>Salmonella enterica</i> isolated from Nile tilapia in retail markets: implications for public health and aquaculture <i>Justice Opare Odoi</i>	PC-25	025
Prevalence of colistin-resistant and plasmid-mediated colistin resistance genes in <i>E. coli</i> isolates from the Chao Phraya River <i>Suleepon Poomchuchit</i>	PC-26	026
<u>D. CLIMATE CHANGE AND COMMUNICABLE DISEASES</u>		
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Evaluating tomato brown rugose fruit virus as a one health tool for detecting human-specific contamination <i>Phongsawat Paisantham</i>	PD-03	029
Discovery of novel anelloviruses in Thai Human Sequencing Data <i>Worakorn Phumiphanjarphak</i>	PD-04	030
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Optimizing saliva microbial DNA extraction to reduce human DNA contamination <i>Donlaporn Sripan</i>	PD-08	034
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Analysis of the immune response to structural and non-structural proteins derived from chikungunya virus <i>Jiratchaya Charoenkul</i>	PD-10	036
Analysis of the non-structural proteins deduced from whole-genome sequencing of SARS-CoV-2 strains in Bangkok <i>Nathaphon Khamthani</i>	PD-11	037

<u>E. ENVIRONMENTAL HEALTH ISSUES</u>	<u>Poster No.</u>	<u>Board No.</u>
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Adverse health effects of PM_{2.5} in Ho Chi Minh City, Vietnam <i>Tinh Ho Huu</i>	PE-02	039
The health effects of household air pollution on children under five in Addis Ababa, Ethiopia <i>Kidus Workineh Tebikew</i>	PE-03	040
Awareness of dental fluorosis in Ban Huy Phak School, Suan Phueng, Ratchaburi province, Thailand <i>Patcharaporn Gavila</i>	PE-04	041
Potentially toxic trace elements and their health risk assessment in Lake Rara, a Ramsar site, of west Nepal <i>Rita Bhatta</i>	PE-05	042
Effects worker at risk of asbestos related diseases in Lao PDR <i>Naly Khaminsou</i>	PE-06	043
Contents of arsenic in free-range chicken in suburban area of Kui Buri, Prachuap Khiri Khan, Thailand <i>Phanwimol Tanhan</i>	PE-07	044
Screening of microplastic degradable bacteria from Samut Songkhram mangrove area, Thailand <i>Kanjana Imsilp</i>	PE-08	045
Genotoxicity and fibrosis in human hepatocytes <i>in vitro</i> from exposure to low doses of PBDE-47, arsenic, or both chemicals <i>Chonnikarn Jirasit</i>	PE-09	046
Efficient removal of bisphenol a using a magnetic carbon nanofiber adsorbent derived from bacterial cellulose <i>Piyatida Thaveemas</i>	PE-10	047
Diesel exhaust nanoparticle exposure disrupts CD34+ hematopoietic stem and progenitor cell differentiation in experimental stem cell Niche models <i>Mayer Calma</i>	PE-11	048
Natural rubber foam: Utilizing clean energy for water purification and <i>Parichart Onsri</i>	PE-12	049
Effects of particulate air pollution (PM_{2.5}, ultrafine particles, and PAHs) on the formation of BPDE-DNA adducts, telomere length, and mitochondrial DNA copy number in human exhaled breath condensate and human bronchial epithelial cell line (BEAS-2B) <i>Naruporn Pedklang</i>	PE-13	050
Comparisons of measurements and modelling of pollutants at an urban and Peri-Urban site in Bangkok <i>James C. Matthews</i>	PE-14	051
Distribution and accumulation of per- and polyfluoroalkyl substances in human tissue with thyroid cancer <i>Xiyang Zhang</i>	PE-15	052
Microbial regrowth and biostability control in Bangkok water purification processes <i>Parinda Thayanukul</i>	PE-16	053
Assessment of immunomodulatory effects of five commonly used parabens on human THP-1 derived macrophages: Implications for ecological and human health impacts <i>Phum Tachachartvanich</i>	PE-17	054
Effect of the tidal regime and season on bacterial community composition in a tropical estuary <i>Chantima Piyapong</i>	PE-18	055
Exposure to dichloromethane or glyphosate stimulated the transformation of cholangiocytes and increased the invasiveness of cholangiocarcinoma cell lines <i>Angkhameen Buranarom</i>	PE-19	056

	<u>Poster No.</u>	<u>Board No.</u>
The relationship between DNA damage and lead exposure in children <i>Nguyen Thi Huyen</i>	PE-20	057
Exposure to airborne PAHs during pregnancy increases DNA damage in pregnant women and placental tissues <i>Preeyanut Ratanayut</i>	PE-21	058
Assessment of prenatal exposure to airborne microplastics and potential health effects in mother and newborns <i>Wanrada Jiranantawut</i>	PE-22	059
Characterization and sources of elemental carbon, organic carbon in fine particulate matter (PM_{2.5}) in the southern key economic region of Vietnam <i>Tran Hoang Minh</i>	PE-23	059a

F. FOOD SAFETY AND SECURITY

Safety assessment of low piperine <i>Piper nigrum</i> extract <i>Juntakarn Sangket</i>	PF-01	060
Microbiome profiling of hydroponic greenhouses for development of rapid pathogen diagnostics <i>Wei Lin Lee</i>	PF-02	061
TUSLOB: rapid dipstick DNA extraction system for African swine fever virus detection <i>John Paulo G. Jose</i>	PF-03	062
One health challenge from heavy metal exposure risk in a coastal area of northern Vietnam <i>Nguyen Thi Minh Ngoc</i>	PF-04	063
Effect of different storage temperatures on aflatoxin contamination of peanut (<i>Arachis hypogaea</i> L.) in Myanmar <i>Cho Mar</i>	PF-05	064
Impact of vaccination and water management on Tilapia lake virus control in hatchery systems <i>Montakarn Sresung</i>	PF-06	065
Comparison of allergens in common beans (<i>Phaseolus vulgaris</i>) and soybeans (<i>Glycine max</i>) <i>Pantipa Subhasitanont</i>	PF-07	066