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AHSCU
FACULTY OF ALLIED HEALTH SCIENCES
CHULALONGKORN UNIVERSITY

Oral and Poster Presentation Program

**2025 AUA Postgraduate Academic Forum on AI & Bioinformatics
in the Study of the Biology of Aging & Age-related disease
May 14 – 16, 2026**



Oral Presentation (Room 105, Main conference room)

Date and Time: May 14, 2026 (13:30 – 15:15)

Presentation type: 10 min/presenter, Q&A: 5 min/presenter

Order of Presenters

ID	Presenter	Title
O01	Abubaker Eltayeib Hassan Suliman	Feature-selection Oblique Random Survival Forests for Clinical Time-to-Event Prognosis
O02	Alex Prima	Phage-Borne nadD and DNMT1 Reveal Redox and Epigenetic Reprogramming of the Human Microbiome at High Altitude
O03	Muhammad Iqbal Zulkarnain	Designing Novel α -Glucosidase Inhibitors for Diabetes Management through Integrated QSAR and Computational Studies of Sulfonyl Hydrazide Derivatives
O04	N. Saranya Rathan	AI-Guided Bioconversion of Chitinous Waste into Geroprotective Chitosan Oligosaccharides for Healthy Aging Applications
O05	Kasit Chatsirisupachai	Deciphering the molecular links between ageing and cancer through integrative multi-omic analyses
O06	Fajar Shodiq Permata	Physical Exercise and Fasting as Non-pharmacological Modulators of the Antioxidant Mechanism Pathway in Aging and Diabetes: A Bioinformatics Study



Oral Presentation (Room 103)

Date and Time: May 14, 2026 (13:30 – 15:15)

Presentation type: 10 min/presenter, Q&A: 5 min/presenter

Order of Presenters

ID	Presenter	Title
O07	Monsin Sangsawat	ML-QSAR-Assisted Prioritization of Small-Molecule PD-L1 Inhibitor Candidates for Cancer Immunotherapy
O08	Busadee Pratumvinit	AI-Driven Prediction of Corrected Calcium Without Albumin Using Routine Laboratory Data: Implications for Laboratory Testing in Aging Populations
O09	Shu-qin Cao	AI-guided cross-species drug discovery reveals therapeutic opportunities in neurodegenerative diseases
O10	Pratiksha Sharma	Bioinformatic Re-Analysis of NPSLE Microglia Reveals Focal Interferon Responses and Captopril-Mediated Restoration of the C1q-LAIR1 Axis
O11	Chan Chow Khuen	Home Digital Sleep Monitoring through Wearable Actigraphy for Sleep Quality and Mental Well-being: An Artificial Intelligence Approach in Cultivating Healthy Aging
O12	Wang Yilin	AI-Assisted Early Acoustic Risk Screening in Older Adult Support Facilities: A BIM-Integrated Workflow

Poster Presentation (Session I)

Date and Time: May 14, 2026 (11:00 – 12:30)

Presentation type: 4 min/presenter, Q&A: 4 min/presenter

Order of Presenters

ID	Presenter	Title
P01	Syarifah Maisarah Sayed Mohamad	Exploring the Binding Dynamics of Mitragynine at the Hippocampal GABAA Receptors: A Computational Perspective
P02	Ravi Aiswarya Krishna	Effect of Aging and Poor Oral Hygiene in the Disruption of Brain Homeostasis Regulation
P03	Murugan Mukilan	Effect of Probiotic Formulations in the Reversal of Aging Induced Microbial Dysbiosis on Brain Cognitive Functions
P04	Ruzanaz Syafira Ruzman Azlee	<i>In silico</i> analysis of LRG1 and its associated protein network as potential biomarkers for early colorectal cancer detection
P05	Tran Yen Nhi	Effect of <i>Moringa oleifera</i> leaf extract on orthodontic relapse: an <i>in vivo</i> study with bioinformatic analysis of miRNA–EGFR interaction
P06	Sunita Nilkhet	Anti-tumor effect of <i>Astraeus asiaticus</i> on human hepatocellular carcinoma cell line (HepG2)
P07	Adisorn Sirichotejirakul	Integrated Virtual Screening of Natural Product-Like A2A Receptor Antagonist Candidates for Parkinson's Disease
P08	Yasinth Lakshan Ranasinghe Ranepura Hewage	Machine Learning-Assisted Formulation Design of Chitosan-Alginate Polymeric Nanoparticles for Drug Delivery Applications
P09	Krittayabhorn Kongtanawanich	Systemic Epigenetic Aging: Unraveling the Impact of Chronological Age and BMI in Thai Population
P10	Omowumi Adewale	Combined Hepato-Renal Protective Effects of <i>Moringa oleifera</i> Crude Polysaccharides and <i>Ocimum gratissimum</i> Phenolics against Cisplatin-Induced Toxicity

Poster Presentation (Session II)

Date and Time: May 15, 2026 (11:00 – 12:00)

Presentation type: 4 min/presenter, Q&A: 4 min/presenter

Order of Presenters

ID	Presenter	Title
P11	Pandar Nartsawee	Integrated <i>In Vitro</i> and <i>In Silico</i> Studies of <i>Astraeus asiaticus</i> Against Human Lung Cancer Cells Targeting the PI3K/Akt Pathway
P12	Chen Ying	Robot Use in Elderly Care: A Review of Applications, Benefits, and Ethical Challenges
P13	Kamonwan Chaikhong	Unveiling the Therapeutic Potential of Phytochemicals derived from <i>Aquilaria crassna</i> Against Parkinson's Disease: An <i>In-Silico</i> Study
P14	Beatrice See Qin Thon	Digital Sleep Health Monitoring through Visual Arts and Auditory Interventions for Sleep and Mental Well-being: Implications for Promoting Healthy Aging
P15	Lovish sharma	Green Synthesized Carbon Dots for Myricetin Delivery: <i>In Vitro</i> & <i>In Silico</i> Evaluation Toward Diabetes-Associated Oxidative Stress
P16	Linda Erlina	Systems Biology of Diarrhea: Microbiome - Metabolome Crosstalk in Aging and Disease
P17	Fadilah Fadilah	Computational Discovery of Predictive Biomarkers in Chronic Obstructive Pulmonary Disease Using AI and Omics Data

Updated on May 7, 2026