Poster Presentation

Day 1: Thursday 15th January 2026

Room: Ratchaphruek 4-6, Avani Khon Kaen Hotel & Convention Centre, Khon Kaen

Setting up Time:	Presentation Time:	Poster Removal Time:
08.30 onwards	15.00 - 17.00 (GMT+7)	17.30 onwards

Poster Session 1: Life Sciences, Biodiversity, Local Wisdom, and Bioresource Innovation

Board number	Poster Code	Title
P-01	S1-P1	Melanogenic effects of Thai rice bran in B16F10 cells assessed L-DOPA staining Visoreach Chun
P-02	S1-P2	Leaf anatomy of some species in the genus *Ludwigia* L. (Onagraceae) in northeastern Thailand Panatda Boriban
P-03	S1-P3	Coupling of somatic growth and sensory development: 3D CT analysis of inner ear refinement across life stages in *Crocodylus siamensis* Parinya Thanoi
P-04	S1-P4	Temperature-dependent changes in FTIR spectra of *Adenosma indiana* inflorescence extracts across different drying and extraction methods Woraporn Laojinda
P-05	S1-P5	Effect of temperature on bioactive compounds and antioxidant activity in honey from honeybees and stingless bees Piyamas Nanork Sopaladawan
P-06	S1-P6	Preliminary insights into genetic diversity of the banded bullfrog (*Kaloula pulchra* Gray, 1831) in Thailand, revealed by mitochondrial cytochrome b Pitchapa Treemek
P-07	S1-P7	Exploring biodiversity through the gut: how *Filopaludina martensi* (Frauenfeld, 1864) feeds in Mae Kha Canal, Chiang Mai Province, Thailand Nattawadee Nantarat
P-08	S1-08	GC–MS profiling and antimicrobial assessment of defensive secretions from two spirostreptid millipede species Kingkan Ploysongsri
P-09	S1-P9	Diversity of praying mantises (Insecta: Mantodea) in Serinsim Substation (Kinabalu Park), Sabah: an insight into sampling effectiveness and morphometric approach Shehroz Abbas
P-10	S1-P10	Analysis of chloroplast genomes and metabolites profiling of *Phyllanthus* species in Thailand Thammaporn Junsai
P-11	S1-P11	Bioactive compounds, antioxidant properties, and inhibitory mechanisms against acne-causing *Cutibacterium acnes* of *Phellinus igniarius* cultured mycelial extracts Channarong Singkhot
P-12	S1-P12	Indigenous knowledge utilization of mushrooms for food, medicine and surveillance of poisonous mushroom into AI species identification Khwanyuruan Naksuwankul
P-13	S1-P13	A novel species of *Deinococcus* isolated from eucalyptus tissues grown in saline soil and its ability to tolerate ultraviolet radiation Kawintip Kiakhunthod
P-14	S1-P14	Mass occurrence of *Attacus atlas* (Lepidoptera: Saturniidae) in avocado orchards: sexual dimorphism in cocoon, pupa, adult morphology, and the snake-head pattern Kanitsara Magnussen

Poster Session 2: Biotechnology and Microbiology for Bioeconomy

Board number	Poster Code	Title
P-15	S2-P1	Antibacterial and antioxidant potentials, total phenolic, total flavonoid, and tannin analysis of the lichenized fungus Usnea himantodes Stirt crude extract Areerat Saisong
P-16	S2-P2	Seed morphology and bioactive compound comparison in twelve purple rice cultivars of northeastern Thailand Chadaporn Senakun

Poster Session 3: Agriculture, Animal Science, Fisheries, Food and Nutrition

Board number	Poster Code	Title
P-17	S3-P1	Effects of oil palm frond ensiling with *Baeckea frutescens* on carcass characteristics and meat quality of goats Nirandorn Nakdaeng
P-18	S3-P2	Local algae cultivation as a sustainable bioresource for agricultural fertilizer under the BCG community model Pradub Reanprayoon
P-19	S3-P3	Local algae cultivation as the basic ingredient in aquatic animal feed Sayam Raso
P-20	S3-P4	Evaluating the impact of hook type on catch efficiency and fish welfare in longline fisheries of the middle Chi River, Mahasarakham Province, Thailand Ruamruedee Panchan
P-21	S3-P5	Effects of zinc, selenium, and vitamin E supplementation on semen quality and testosterone levels in captive Malayan tapirs (Tapirus indicus) at Chiang Mai Night Safari Siriporn Umsook
P-22	S3-P6	Sustainable rice farming and technical efficiency: a two-stage analysis of farmers in Khon Kaen and Maha Sarakham Provinces, Thailand Orawan Srisompun
P-23	S3-P7	Toxicity and bioactivity of guava leaf essential oil against the red flour beetle Ruchuon Wanna
P-24	S3-P8	Enhancement of rheological, textural, structural, and nutritional properties of freeze-aligned meat analogues using silkworm pupae powder Parinya Boonarsa
P-25	S3-P9	Developing high-protein, healthy-fat salad dressings using cricket powder and hydrocolloids as functional fat replacers Guo Yanjun
P-26	S3-P10	Development of a seasoning recipe for wasabi substitute using early staged mustard green Piyathida Promjamorn
P-27	S3-P11	Development of learning resources towards an academic service ecosystem for sustainable development, Mahasarakham University Ritthikrai Chai-ngam
P-28	S3-P12	The study semen quality of sun bear (*helarctos malayanus*) in captive Chiang Mai Night Safari Nanthana Pothakam
P-29	S3-P13	Unravelling the biomolecular and physiological mechanisms of mulberry under nitrogen-free aeroponic conditions Kanyanat Somsakun
P-30	S3-P14	Impact of chitosan on physiology and gene expression in 'Sakon Nakhon' mulberry Titinan Chuaychana
P-31	S3-P15	Evaluation of green tea germplasm in Hue City – central of Vietnam based on morphological traits and molecular markers Phan Thi Phuong Nhi
P-32	S3-P16	Growth and disease resistance of fish fed black soldier fly larvae as fishmeal substitute Kanchai Sukphan

Board number	Poster Code	Title
P-33	S3-P17	Effects of the supplementation of vitamin D3 on the growth and its metabolism in Nile tilapia (*Oreochromis niloticus*) Paradon Chintu
P-34	S3-P18	Cellular and humoral immunity of Nile tilapia (*Oreochromis niloticus*) Against *Aeromonas veronii* following inactivated vaccine immunization Areerat Thongsrisuk
P-35	S3-P19	Reproductive biology and hormonal sex reversal of fancy betta (*Betta splendens*) using 17 α-methyltestosterone immersion treatment Panarat Phadee

Poster Session 4: Chemistry and Materials for Smart and Sustainable Innovation

Board number	Poster Code	Title
P-36	S4-P1	Validation of UHPLC-PDA for the determination of carbamate residues in rice Chunyapuk Kukusamude
P-37	S4-P2	Determination of nitrate and nitrite in agricultural products by capillary electrophoresis Supalak Kongsri
P-38	S4-P3	Lewis acid–enhanced sulfonated SBA-16 silica derived from sugarcane bagasse ash for efficient Hantzsch reaction catalysis Natthida Thongkhamsan
P-39	S4-P4	Structural modifications of toxyloxanthone C and macluraxanthone isolated from *Maclura cochinchinensis*: cytotoxicity, antibacterial activity, and *in silico* studies Oue-artorn Limtragool
P-40	S4-P5	α-amylase inhibitory activity of proteins and protein hydrolysates from FIR-dried green banana flour Rakrudee Sarnthima

Poster Session 5: Climate Action and Carbon Solutions for a Net-Zero Future

Board number	Poster Code	Title
P-41	S5-P1	Evaluation of total organic carbon (TOC) storage in seaweeds Siriwan Choosri
P-42	S5-P2	Assessing drought and flood characteristics in Northeastern Thailand using ONI-based trivariate copula Prapawan Chomphuwiset

Poster Session 6: Applied Science, Data, and Modeling for Sustainability

Board number	Poster Code	Title
P-43	S6-P1	Electron number fluctuations and charge stability in a triple-island system via path integral Monte Carlo simulation Pipat Harata
P-44	S6-P2	Application of machine learning techniques to predict moisture ratio and foam expansion behavior in microwave-assisted foam-mat drying of mango pulp Pattamaporn Gaewsondee

Poster Session 7: Community-based Development

Board number	Poster Code	Title
P-45	S7-P1	Cost-effective egg layer feed development for smallholder farms Khanitta Pengmeesri
P-46	S7-P2	Soil quality improvement for large-scale fruit orchards at Mahasarakham University farm Waranyoo Kaewduangta
P-47	S7-P3	Development of cage-culture systems in a large reservoir as an academic service and community capacity-building platform, Mahasarakham University Supranee Wigraiboon
P-48	S7-P4	Effect of contrasting seedling substrate properties on seed germination and seedling growth of red cos lettuce and rice cv. RD49 Benjapon Kunlanit

Presentation Award Guidelines and Criteria

To recognize academic excellence and effective communication, BioSat 2026 will present awards based on the final evaluation scores (100-point scale).

1. Award Categories and Eligibility Awards are determined by the following score ranges:

- **The Outstanding Poster Award** is granted to the poster with the highest overall score within each session, provided that the poster achieves a minimum total score of 90% or higher**.**
- Excellent Poster Presentation Award (≥ 90 points)
- Very Good Poster Presentation Award (80–89 points)
- Good Poster Presentation Award (70–79 points)

** No award will be given to posters scoring below 70 points. In the event of a tie, the final decision will be made by the Poster Evaluation Committee.

2. Award Ceremony

- **Presenters on January 15th:** The *Outstanding Presentation Award* will be presented on stage during the **Evening Reception**.

Note:

- **For Award Winners**: Recipients of the Outstanding, Excellent, Best, and Good awards will receive E-certificate detailing their achievement.
- **For All Presenters**: Every participant who completes their presentation will receive E-certificate of participation.