

ICAS 2024 – Program Agenda

Date : 08:00 – 17:00, September 28, 2024

Venue : Conference Hall at the Research Laboratory Complex (RLC) – Can Tho University
Campus 2, 3/2 Street, Xuan Khanh Ward, Ninh Kieu District, Can Tho City, Vietnam

Language : English

Time	Content
07:30 - 08:00	Registration
08:00 - 08:10	Welcome Speech
<p><i>Plenary session</i></p> <p><i>Chairman:</i> Prof. Tsutomu Arie Prof. Duong Nguyen Khang</p>	
08:10 - 08:40	<p>Keynote 1: “Impact and control of the transboundary banana wilt pathogen, <i>Fusarium oxysporum f. sp. cubense</i>”</p> <p>Prof. Tsutomu Arie – Tokyo University of Agriculture and Technology</p>
08:40 - 09:10	<p>Keynote 2: “Veterinary Diagnostic Techniques: Where we are now and future trends?”</p> <p>Assistant Professor Kasem Rattanapinyopituk - Faculty of Veterinary Science, Chulalongkorn University</p>
09:10 - 09:40	<p>Keynote 3: "Soil organic matter at the crux of land-based solutions for climate change; A critical examination"</p> <p>Associate Professor Scott Demyan – Ohio state University</p>
09:40 – 10:00	Tea break
10:00 - 10:30	<p>Keynote 4: “Application of CRISPR/Cas systems to enhance biotic and abiotic stress resistance of important crops in Vietnam”</p> <p>Dr. Do Tien Phat – Vietnam academic of Science & Technology, Vietnam</p>

10:30 – 11:00	<p>Keynote 5: “Translating science into policy to shift agriculture toward circular, low-carbon systems with a focus on reducing emissions in animal production” Prof. Duong Nguyen Khang – Nong Lam University</p>
11:00 – 11:30	<p>Keynote 6: “Alternative protein sources for animal feed industry” Mr. Gerry Oude Elferink, Director of Nutrition & support director Poultry in Asia, De Hues Company</p>
11:30 – 12:00	Discussion
12:00 – 13:30	<p>Lunch <i>Venue: College of Agriculture – Can Tho University</i></p>
Session presentation	
13:30 - 17:00	<p><u>Session 1: SOIL HEALTH FOR CLIMATE RESILIENCE AND SUSTAINABLE AGRICULTURE)</u> + <i>Chairman: Assoc. Prof. Tran Van Dzong</i> + <i>Secretary: Assoc. Prof. Nguyen Khoi Nghia</i> + <i>Venue: Room 106 – College of Agriculture, Can Tho University</i></p> <p>PT1: Dynamics and constraints of rice production in Soc Trang province, Vietnamese Mekong Delta <i>Nguyen Van My, Huynh Thi Hong Dao, Nguyen Thanh Tam, Dang Kieu Nhan - People’s Committee of Chau Thanh District, Soc Trang Province, Vietnam.</i></p> <p>PT2: Effects of organic fertilizers on improvement of soil properties to provide nutrients for organic rice <i>To Thi Mong Diem, Le Thi Phuong Quyen, Cao Dinh An Giang, Tran Nhat Hao, Dang Duy Minh, Chau Minh Khoi Nghia - College of Agriculture, Can Tho University</i></p> <p>PT3: Evaluation of salinity effects on the growth and yield of quinoa, beetroot and maize rotation on saline-affected rice soil -a greenhouse study <i>Chau Thi Nhien, Cao Dinh An Giang, Tran Duy Khanh, Nguyen Thi Truc Linh, Moc Thi Thuy Kieu, Nguyen Tran My Ngoc, Dang Duy Minh and Chau Minh Khoi, Jason Condon - College of Agriculture, Can Tho University</i></p>

PT4: Potential of crops diversification on saline-affected paddy rice field in the Vietnamese Mekong Delta: Case study in Soc Trang province

Nguyen Ngoc Mong Kha, Tran Duy Khanh, Dang Duy Minh, Jason Condon, Paul Kristiansen, Chau Minh Khoi - College of Agriculture, Can Tho University

PT5: Fractionation and remediation of quality components of saline acid-sulfate soil for improved pak choy with combined eco-friendly amendments

Tung Xuan Tan Nguyen, Binh Thanh Nguyen, Binh Vu Thai - Institute of Environmental Science, Engineering and Management, Industrial University of Ho Chi Minh.

PT6: Isolation and selection of melanin producing bacteria from agricultural soil for sustainable agricultural development

Nguyen Huu Thien, Nguyen Khoi Nghia - College of Agriculture, Can Tho University

PT7: Balancing yield and emissions: optimizing biochar for rice paddy

Nguyen Thanh Binh, Dong Phu Hao - Institute of Environmental Science, Engineering, Management, Industry University of Ho Chi Minh City, Vietnam.

PT8: Options for cropping system intensification in coastal saline Indian Sundarbans deltas: Application of cropping system simulation modelling

Sukamal Sarkar, Saikat De, Anannya Dhar, Don Gaydon, Rupak Goswami, Koushik Brahmachari and Mohammad Mainuddin - School of Agriculture and Rural Development, Ramakrishna Mission Vivekananda Educational and Research Institute, India.

PT9: Soil management for a changing climate; experiences from US Midwest region

M. Scott Demyan - School of Environment and Natural Resources, The Ohio State University, USA

Session 2: INTEGRATED PEST MANAGEMENT IN SUSTAINABLE AGRICULTURE

+ *Chairman: Assoc. Prof. Nguyen Thi Thu Nga*

+ *Secretary: Dr. Ho Le Thi*

+ *Venue: B007 Hall – College of Agriculture, Can Tho University*

PT1: Effective knowledge of the mycoviruses for beneficial and effective application

Hiromitsu Moriyama, Tokyo University of Agriculture and Technology (TUAT)

PT2: Geminivirus diversity and community structure at the scale of agrosystems in Burkina Faso

Pierre Lefeuvre - Plant Protection Specialist, CIRAD, France

PT3: Application of sex pheromone and EAG-active components in a “push and pull system” to control the damage of the yellow peach moth (*Conogethes punctiferalis*) in the Mekong Delta of Vietnam

Le Van Vang - College of Agriculture, Can Tho University

PT4: Effectiveness of selected rodent management strategies in rice fields of Sri Lanka

Siriwardana Rampalage Sarathchandra, Post Graduate Institute of Agriculture, University of Peradeniya, Sri Lanka

PT5: Examination of antagonistic bacteria to control *Pythium* sp. caused wilt disease on black pepper (*Piper nigrum* L.)

Assoc. Prof. Nguyen Minh Chon - Institute of Food and Biotechnology, Can Tho University

PT6: Identification of endornavirus replication organelles in *Phytophthora cactorum* and analysis of exogenous sterol effects on their replication

Kohei Sakuta (PD) - Tokyo University of Agriculture and Technology

PT7: Investigation of Mycovirus on *Neoscytalidium dimidiatum* Causing Brown Spot Disease on Dragon Fruit in Vietnam

Do Thi Hong, Tokyo University of Agriculture and Technology (TUAT)

PT8: Potential effects of *Magnaporthe oryzae* chrysovirus on its host fungicide sensitivity

Goto Kanji, Tokyo University of Agriculture and Technology (TUAT)

PT9: Biological control of helicopter flower, *Hiptage benghalensis* (Malpighiaceae) in Reunion (France), preliminary studies in Vietnam

Lam Thi Xuan Mai - College of Agriculture, Can Tho University

PT10: Integrated pest management (IPM)- a case study of fruit fly management in Khyber Pakhtunkhwa

Hussain Ali - Directorate of Agriculture Research, Khyber Pakhtunkhwa, Pakistan

Session 3: METABOLIC ALTERATIONS AND GENE REGULATION IN PLANT UNDER STRESS

+ *Chairman: Dr. Nguyen Loc Hien and Assoc. Prof. Pham Phuoc Nhan*

+ *Secretary: Assoc. Prof. Huynh Ky and Dr. Le Minh Ly*

+ *Venue: Meeting room – College of Agriculture, Can Tho University*

PT1: Secondary metabolites, anthocyanin content and identification of genotypes regulating rice grain pigmentation in colored sticky rice varieties

Pham Thi Be Tu - College of Agriculture, Can Tho University

PT2: Multi-trait genomic prediction for grain yield and zinc content in rice (*oryza sativa* L.)

Chau Thanh Nha - College of Agriculture, Can Tho University

PT3: Evaluation of grain quality and anthocyanin content in colored sticky rice varieties for functional rice breeding

Huynh Nhu Dien - College of Agriculture, Can Tho University

PT4: Assessment of genetic on sweet mustard (*brassica integrifolia* L.)

Pham Vu Khuong Duy - College of Agriculture, Can Tho University

PT5: In vitro Culture of *Nashia inaguensis* Millsp.

Dr. Tran Ngoc Quy - Institute of Food and Biotechnology, Cantho University

PT6: Effects of pre-harvest spray of calcium chloride on yield and fruit quality improvement of Hong mandarin (*Citrus reticulata* Blanco) in Lai Vung district, Dong Thap province

Trinh Xuan Viet - College of Agriculture, Can Tho University

PT7: In vitro propagation and evaluation new h1 rose line created from *in vitro* gamma ray 'lira' rose mutation

Le Nguyen Lan Thanh – Southern Horticultural Research Institute

Session 4: SUSTAINABLE CROP PRODUCTION

+ *Chairman: Prof. Le Vinh Thuc*

+ *Secretary: Dr. La Cao Thang*

+ *Venue: Room 105 – College of Agriculture, Can Tho University*

PT1: Effects of five cucurbitaceae rootstocks on yield, quality, and resistance to fusarium oxysporum-induced wilt disease in melon (*cucumis melo* l.) under greenhouse conditions

Tran Van Khai - An Giang University, Ho Chi Minh City National University

PT2: Comparative analysis of 5-year and 10-year soursop (*Annona muricata* L.) cultivation models in Phung Hiep district, Hau Giang province, Vietnam: Agronomic practices, Challenges, and Economic potential

La Cao Thang, Nguyen Hong Hue, Lam Thanh Qui, Le Vinh Thuc – College of Agriculture, Can Tho University

PT3: Optimization of Drip Irrigation for Sugarcane Using a Water Balance Model: A Comparative Study of Irrigation Strategies for Different Soil Moisture Levels

Pennapa Srisawat, Sodchol Wonprasaid, and Thitiporn Machikowa - Suranaree University of Technology, Thailand

PT4: Survey of biological characteristics of fruit development and physiological disorders of Musang King (*Durio zibethinus* Murr.)

Nguyen Huynh Duong, Huynh Thi Thanh Ngan, Tran Van Hau, Le Vinh Thuc – College of Agriculture, Can Tho University

PT5: Impact of P-solubilizing purple nonsulfur bacteria, *Cereibacter* spp. on soil property, phosphorus uptake, growth and yield of rice grown in acidic saline soil

Le Tien Dat, Nguyen Duc Trong, Tran Trong Khoi Nguyen, Nguyen Quoc Khuong – College of Agriculture, Can Tho University

PT6: Effects of nitrogen-fixing bacteria, *Rhodobacter sphaeroides* S01 and S06 on n uptake, growth and yield of rice grown in saline soil in Tran De-Soc Trang in paddy field

Nguyen Hoang Anh, Nguyen Duc Trong, Doan Thi Huyen Mai, Ngo Ly Cam Tu, Nguyen Quoc Khuong – College of Agriculture, Can Tho University

PT7: Exploring rice varietal diversity to co-design more sustainable rice cropping systems

Myriam Adam, Sievmeng Ly, Rama Sry, Dean Choun, Sreymon Sieng, Florent Tivet, Mathilde Sester, Rada Kong - CIRAD-AGAP Institute, University of Montpellier, France

PT8: Investigating the effects of alternative natural nutrient sources in submerged culture medium on shiitake Mushroom (*Lentinula edodes*) biomass

Bui Thi Cam Huong, Huynh Le Khanh Linh, Nguyen Viet Huynh Mai và Luu Thai Danh – College of Agriculture, Can Tho University

PT9: Net house evaluation of agronomic parameters, yield and quality of heat-tolerance cherry tomato (*Solanum Lycopersicum* L.) cultivated by static hydroponics in Cantho, Vietnam

Phan Ngoc Nhi, Ly Thi Thu Trang, and Tran Loc Thuy – College of Agriculture, Can Tho University

PT10: Assessment of the effectiveness of using terraflow, humixup, and NGO agro gold on the growth of mustard greens (*Brassica juncea*)

Vo Thi Minh Thao, Tran Tuan Anh, Nguyen Ngoc Phi, Pham Thi Ai Niem, Nguyen Minh Khanh, Nguyen Chi Long, Ha Thi, Loan, Nguyen Xuan Dong - Division of Environmental Biotechnology, Biotechnology Center of HCM city

Session 5: NAVIGATING CHALLENGES AND INNOVATIONS IN ANIMAL PRODUCTION FOR SUSTAINABLE AGRICULTURE

+ *Chairman: Prof. Nguyen Trong Ngu*

+ *Secretary: Assoc. Prof. Lam Phuoc Thanh*

+ *Venue: Room 205 – College of Agriculture, Can Tho University*

PT1: Effect of age periods and dietary neutral detergent fiber (NDF) levels on feed intake and nutrient digestibility of Charolais crossbred cattle.

Nguyen Binh Truong- An Giang University

PT2: Effects of supplementing tannin and protease on growth performance and meat quality of Japanese quail

Nguyen Thi Kim Khang – College of Agriculture, Can Tho University

PT3: Evaluation of digestibility of starchy and fibrous feedstuffs for pig by in-vitro enzymatic digestion technique

Ho Thieu Khoi- College of Agriculture, Can Tho University

PT4: Effect of metabolizable energy levels in diets on feed intakes, nutrient digestibility and nitrogen retention of crossbred Boer goats

Doan Tri Dung and Lam Phuoc Thanh - College of Agriculture, Can Tho University

PT5: Toward circular black pig farming from ethnic people community in Binh Phuoc province, Vietnam

Nguyen Thanh Van, Ho Thi Thuy Dung, Le Ba Chung, and Nguyen Thi Be Tho

PT6: The effect of replacing levels of compound feed by Cowpea bean (Vignamarina) in the diet on the growth of Goat

Ngo Thi Minh Suong, Ho Thieu Khoi and Ho Quang Do - College of Agriculture, Can Tho University

PT7: Effects of collection frequency on semen characteristics of crossbred buck rabbits (Newzealand white×local)

Truong Thanh Trung and Tran Long Hai - College of Agriculture, Can Tho University

PT8: Effect of *Saccharomyces cerevisiae* on the quality of fermented jackfruit by-products

Nguyen Minh Thu and Ho Thanh Tham - College of Agriculture, Can Tho University

PT9: Effect of planting distance on yield, nutritinal content and gas production under in vitro conditions of beach beans (*Vigna marina*)

Ho Quang Do, Ngo Thi Minh Suong and Mai Van Tuan Vu - College of Agriculture, Can Tho University

Section 6: ADVANCED IMPLICATIONS IN DIAGNOSIS AND TREATMENT OF ANIMAL DISEASES

+ *Chairman: Asst. Prof. Dr. Kasem Rattanapinyopituk*

+ *Secretary: Dr. Nguyen Phuc Khanh*

+ *Venue: Room 206 – College of Agriculture, Can Tho University*

PT1: Prevalence and antibiotic resistance of *Staphylococcus* spp. isolated from goats in Can Tho city

Nguyen Khanh Thuan, Nguyen Khanh Thuan, Truong Thanh Trung, Nguyen Thanh Lam, Dang Thi Tham, Nguyen Ly Phuong Vy and Nguyen Tran Phuoc Chien - College of Agriculture, Can Tho University

PT2: Risk factors for foot-and-mouth disease and molecular characteristics of foot-and-mouth disease virus strains in cattle in Dong Thap province

Tran Duy Khang, Nguyen Phuc Khanh - College of Agriculture, Can Tho University

PT3: Immune responses of ring-necked pheasants (*Phasianus colchicus*) to nobilis® Newcavac and Nobilis® ma5+clone30 vaccine

Nguyen Thanh Binh, Bui Thi Le Minh, Huynh Ngoc Trang and Le Thanh Binh. - College of Agriculture, Can Tho University

PT4: Molecular report based on the F gene of canine distemper virus in dogs in An Giang province

Van My Tien, Le Quang Trung, Tran Ngoc Bich - College of Agriculture, Can Tho University

PT5: Platelet-rich plasma increased the chondrogenic regeneration of immature canine bone marrow-derived mesenchymal stem cells in knee cartilage repair.

Le Thi Bich Thuy, Pham Thi Vang, Tran Ngoc Bich, Truong Minh Dung - College of Agricultural Technology, Ho Chi Minh city

PT6: Study on the effect of time and solvent on the antibacterial activity of garlic extract on *Salmonella*

Nguyen Ho Quang Minh, Bui Thi Le Minh, Nguyen Khoi Nghia, Dang Huynh Giao, Nguyen Phuoc Toan - College of Agriculture, Can Tho University

PT7: Investigation of the association between physiological, biochemical markers and detection method *Ehrlichia Canis* infection in dogs in Ho Chi Minh City, Viet Nam

Nguyen Thi Lieu Kieu, Nguyen Thi Thanh Thuy, Tran Ngoc Bich, Tran Thi Thao - College of Agricultural Technology, Ho Chi Minh city

	<p>PT8: Clinical lumpy skin disease risk factors in Tien Giang province, Vietnam, in 2023 <i>Vo Tuan Khai Huyen, Thai Quoc Hieu and Tran Ngoc Bich - College of Agriculture, Can Tho University</i></p> <p>PT9: The circulation and molecular characterization of S1 segment of duck reovirus in Tien Giang province <i>Phan Nhan, Nguyen Tran Phuoc Chien, Nguyen Phuc Khanh - Faculty of Applied Biology, Tay Do University</i></p> <p>PT10: Virus isolation and whole genome sequence characterization of canine parvovirus in Vietnam <i>Nguyen Thuy Y Vi, Dao Huyen Tran, Doan Thi Kim Cuc, Nguyen Thi Lan Anh, Lam Thanh Nguyen - College of Agriculture, Can Tho University</i></p> <p>PT11: Study on the feline anaplasmosis caused by <i>Anaplasma platys</i> <i>Nguyen Ngoc Huynh Nhu, Tran Thi Thao, Nguyen Thi Mai Phuong, Nguyen Thi Minh Thu, Lieu Thi Cam Nhung - College of Agriculture, Can Tho University</i></p>
<p>18:00 – 20:00</p>	<p>Gala dinner <i>Venue: Ninh Kieu Riverside restaurant - 02 Hai Ba Trung street, Ninh Kieu district, Can Tho city</i></p>