

Preface ICGAB 2024

ICGAB 2024, the 8th International Conference on Green Agro-Industry and Bioeconomy was held on 3rd October 2024 in Malang- Indonesia. ICGAB 2024 was organized by the Faculty of Agricultural Technology, Universitas Brawijaya (FAT-UB). The event was co-hosted by Universiti Putra Malaysia, Universiti Teknologi Mara, Mae Fah Luang University, Shinshu University, Universiti Malaysia Sarawak, Chiang Mai University and supported by IAAET (International Association of Agro-based Engineering and Technology), PATPI (Indonesian Association of Food Technologist), PERTETA (Indonesian Society of Agricultural Engineering), APTA (Indonesian Society of Agricultural Technologist), FKPTI (Forum Komunikasi Perguruan Tinggi Teknologi Pertanian Indonesia), P4I (Pusat Penelitian dan Pengembangan Porang Indonesia), BRI, ASENSINDO, and P3FNI. This year's conference theme is "Navigating a global future with smart sustainable agro-industrial technology", reflecting the growing interest in green technology and the need to address environmental challenges through innovative solutions. The conference aims to bring together researchers, academics, industry experts, policymakers, and practitioners from around the world to exchange knowledge, ideas, and best practices in green agro-industry and bioeconomy. We are privileged to have five esteemed keynote speakers joining us: Prof. Hirokazu Fukuda from Japan, Prof. Agustin Krisna Wardani from Indonesia, Prof. Jyh Jian Chen from Taiwan, Prof. Ts. Dr. Effendi Bin Mohamad from Malaysia, and Dr. Amorn Owatworakit from Thailand. Participants will have the opportunity to present their latest research findings, share their experiences and insights, and network with peers and stakeholders.

The conference successfully attracted 130 delegates from seven countries, including Indonesia, Japan, Taiwan, Malaysia, Thailand, the Philippines, and South Africa. In total, five keynote speakers and about 112 contributed parallel talks were given and 15 poster presentations. The conference covered a wide range of topics, including: 1. Smart technology for sustainable agro-industry 2. Bioeconomy in agro-industry 3. Agro-industrial system management and regulation 4. Food science and biotechnology 5. Agricultural and bioprocess engineering 6. Renewable energy and biorefinery 7. Waste and environmental management 8. Coffee agroforestry, science and technology 9. Sensory science. The contents of the talks can be found in the present contributions, arranged according to the topics. All the manuscripts were double-blind peer-reviewed, arranged by the editorial committee to meet the scientific standards expected of publication in the Bio Web of Conference Proceedings. We would like to extend our acknowledgement to the reviewers who provided their valuable comments and suggestions. Our gratitude also towards the authors for their trust and contributions. We are grateful towards the Bio Web of Conference for their on-going support for the publication of the proceedings. We would also like to thank the committees for their contributions and help – without whom we would not have been able to organise this event. Finally, we are grateful for the financial support from FAT-UB and Universitas Brawijaya. See you at the upcoming ICGAB 2025. We are looking forward to meeting you there.

Editor in Chief

Mochamad Nurcholis