

A COFFEE AND COCOA RESEARCH JOURNAL

Pelita
PERKEBUNAN



About the Journal

Pelita Perkebunan, Coffee and Cocoa Research Journal (CCRJ): ISSN:0215-0212; E-ISSN:2406-9574

Since its establishment in 1911, Indonesian Coffee and Cocoa Research Institute (ICCRI) formerly Besoekisch Proefstation, had published its research findings through a journal call Mededelingen van het Besoekisch Proefstation. Between 1948-1981 the research institute was under the supervision of Bogor Research Institute for Estate Crops, and published its research findings through De Bergcultures which was later changed to Menara Perkebunan.

Since the institute held the national mandate for coffee and cocoa commodities, and due to rapid increase in the research findings, ICCRI published its first issue of **Pelita Perkebunan** journal in April 1985.

Pelita Perkebunan is an international journal providing rapid publication of peer-reviewed articles concerned with coffee and cocoa commodities based on the aspects of agronomy, plant breeding, soil science, crop protection, postharvest technology and social economy. Papers dealing with result of original research on the above aspects are welcomed with no page charge.

Pelita Perkebunan is managed by Indonesian Coffee and Cocoa Research Institute (ICCRI), which publish the research findings not only for coffee and cocoa but also other commodities relevant with coffee and cocoa, i.e. shade trees, intercrops and wind breakers.

Pelita Perkebunan is published in a single volume every year. Each volume consists of three issues, published in April, August and December.

Welcome to <http://www.ccrjournal.com>, the online submission and editorial system of the **Pelita Perkebunan**.

Manuscripts must be directed to the Secretariat of the Journal at the following address:

Editor-in-Chief,

Pelita Perkebunan (Coffee and Cocoa Research Journal)

Indonesian Coffee and Cocoa Research Institute
Jl. P.B. Sudirman 90, Jember 68118, Indonesia.
E-mail: pelita@iccri.net, Tel. (0331) 757130.
Fax. (0331) 757131.

Accredited:

SK Menteri Penerangan Republik Indonesia
No. 1234/SK/DITJEN PPG/STT/1988

Certificate of Kemennistek-Dikti
No. 21/E/KPT/2018
9 July 2018

- Each issue is free download available at www.iccri.net and www.ccrjournal.com.

Publisher

Indonesian Coffee and Cocoa Research Institute

Patron/Director

- **Dini Astika Sari**

EDITORIAL TEAM

Editor-in-Chief

John Bako Baon, Soil Fertility

Co-Editor

Noor Ariefandie Febrianto, Postharvest Technology

Agung Wahyu Susilo, Plant Breeding

Indah Anita Sari, Plant Breeding

Diany Faila Sophia Hartatri, Social Economy

Ari Wibowo, Plant Breeding

Soetanto Abdoellah, Land Evaluation

A. Adi Prawoto, Plant Science

Managing Editor

Fajar Sulaiman, Training and Publication Section, ICCRI

Technical Editor

Kristya Widhi Nugroho, Data Base Section, ICCRI

Editorial Board/Reviewer

Dapeng Zhang (Molecular Genetics), USDA Sustainable

Perennial Crops Lab., Beltsville, USA; **Dwidjono Hadi**

Darwanto (Social Economy), Faculty of Agriculture, Universitas

Gadjah Mada, Yogyakarta, Indonesia; **F.X. Wagiman** (Crop

Protection), Faculty of Agriculture, Universitas Gadjah Mada,

Yogyakarta, Indonesia; **Peter McMahon** (Agronomy), Department

of Botany, La Trobe University, Victoria, Australia; **Eko Handayanto**

(Soil Science), Faculty of Agriculture, Universitas Brawijaya,

Malang, Indonesia; **Loekas Soesanto** (Crop Protection),

Faculty of Agriculture, Universitas Jenderal Soedirman,

Purwokerto, Indonesia; **Sabariah Samsudin** (Postharvest

Technology), Cocoa Innovation and Technology Centre,

Malaysian Cocoa Board, Malaysia; **Divina M. Awalin**

(Entomology), De La Salle University, Manila, Philippines;

Teti Estiasih (Postharvest Technology), Faculty of Agriculture

Technology, Universitas Brawijaya, Malang, Indonesia;

Yusnita Said (Plant Breeding), Faculty of Agriculture,

Universitas Lampung, Lampung, Indonesia.

Invited Reviewers for Volume 40 Number 1 April 2024

Didi Rukmana (Social Economy), Faculty of Agriculture,

Hasanuddin University, Makassar, Indonesia; **Edhi Martono**

(Insecticides Toxicology), Faculty of Agriculture, Universitas

Gadjah Mada, Yogyakarta, Indonesia; **Hasri** (Chemist),

Faculty of Mathematics and Natural Sciences, State University

of Makassar, Makassar, Indonesia; **Kharisun** (Soil Science),

Faculty of Agriculture, Universitas Jenderal Soedirman,

Purwokerto, Indonesia; **Mohammad Ismet** (Social Economy),

Cokroaminoto University of Yogyakarta, Yogyakarta, Indonesia;

Sri Mulato (Postharvest Technology), Coffee and Cocoa Training

Centre, St. Pignatelli Foundation, Surakarta, Indonesia; **Subejo**

(Agricultural Extension and Communication), Faculty of

Agriculture, Universitas Gadjah Mada, Yogyakarta, Indonesia;

Sukartono (Soil Management), Faculty of Agriculture, Mataram

University, Mataram, Indonesia.