

Tropical Agricultural Research and Extension

An International Journal on Agricultural Research and Extension in the Tropical and Subtropical Areas, published by the Faculty of Agriculture, University of Ruhuna.

Editor-in-Chief

Prof. M.De S. Liyanage

Co-Editor

Prof. K.D.N.Weerasinghe

Faculty Editorial Board

Prof. R.H.S.Rajapaksha
Prof. R.T.Seresinhe
Prof. S. Subasinghe
Dr. P.L.A.G. Alwis
Dr. S.D. Wanniarachchi
Dr. K.H. Dharmasena
Dr. R.W.K.Punchihewa

National Editorial Board

Prof. I.A.U.N.Gunathilaka
Prof. H.P.M.Gunasena
Prof. Nimal Gunawardena
Prof. U. Samarajeewa
Prof. C. Sivayoganathan
Prof. U.R.Sangakkara
Prof. R.Mapa
Dr. Fredrick Abeyratne
Dr. M.C.N.Jayasooriya
Dr. S.N.De S.Seneviratne
Dr. C. Kudagamage
Dr. A.Nugawela
Dr. C.R. Panabokke
Dr.J.D.H.Wijewardene

International Editorial Advisory Board

Prof. R. Pathirana (New Zealand)
Prof. P.G.Keven (Canada)
Prof. G. Edwards (Australia)
Prof. S.K.A.Danso (Ghana)
Prof. M.P.L.D.Martin (Australia)
Prof. P.K.R.Nair (USA)
Prof. Hermann Kreutzmann (Germany)
Prof. Robert I. Papendick (USA)
Prof. Yoshohiro Tokashiki (Japan)
Dr. D.B.Davis (UK)
Dr. M. Geypens (Belgium)
Dr. Hans R. Herren (Kenya)
Dr. M.S.Islam (Bangladesh)
Dr. E.S.Jensen (Denmark)
Dr. E. Jacobson(Netherlands)
Dr. J.G.W. Jones (UK)
Dr. Ismail Khan (Pakistan)
Dr. N. Boonkard (Thailand)
Dr. A.N.Atta-Krah(Nigeria)
Dr. M. Van Noordwijk (Indonesia)
Dr. P.Ryser (Switzerland)
Dr. M.N.Salleh (Malaysia)
Dr. J.L.Sabatier (France)
Dr. O.S.Verma (India)

Editorial Assistant: K.M.W.Rajawatta

Computer type setting & Graphical work: Chandima Wanniarachchi and Chamila Kuruppu Arachchi

Cover page design & Digital Image Editing: M.K.D.K.Piyaratne

Scope of the Journal: *Tropical Agricultural Research and Extension* publishes research results of broad practical significance for tropical agriculture. The subject areas covered include crop genetic resources, agronomy, crop improvement, crop physiology, plant protection, weed science, ecology and sustainable management of tropical and subtropical agricultural environments, restoration of degraded environments, agro-forestry, utilization and domestication of under- exploited plant and animal resources, bio-technological applications, horticulture, perennial crops, animal science including fisheries, food science, post- harvest technology, farming systems, agricultural economics, extension and education.

Subscription rates, editorial policies and instructions for contributors are given at the end of the journal. For advertisements and rates for distributors and agents, please write to the Editor-in Chief at the following address: Editorial Office, Faculty of Agriculture, University of Ruhuna, Kamburupitiya, Sri Lanka.

Fax: 94 41 2292384, Phone: 94 41 2292382, E- mail: tare@agricc.ruh.ac.lk