

# *Tropical Agricultural Research & Extension*

**An International Journal on Agricultural Research and Extension in the Tropical and Subtropical Areas, Published by the Faculty of Agriculture University of Ruhuna, Sri Lanka**

**Editor-in-Chief**

Prof. Wathugala GD Lakmini

**Founder Editor**

Prof. Ranjith Pathirana

**Associate Editor**

Dr. L Nugaliyadde

**Co- Editors**

Prof. NP Ranathunga  
Dr. MKDK Priyarthne

**Faculty Editorial Board**

Mrs. DABN Gunarathna  
Prof. CM Nawarathne  
Prof. DAL Leelamanie  
Prof. NY Hirimuthugoda  
Prof. GC Samaraweera  
Dr. PABN Perumpuli

**International Editorial Advisory Board**

Prof. MA Rahim (Bangladesh)  
Prof. Sakai Kazuhito (Japan)  
Prof. Morihiro Maeda (Japan)  
Prof. Hirohide Toyama (Japan)  
Prof Dinesh K Marothia (India)  
Dr. Avijit Dey (India)

**National Editorial Board**

Prof. BPA Jayaweera  
Prof. Ranjith B. Mapa  
Prof. WAJM De Costa  
Dr. Chandana Siriwardana  
Dr. WMW Weerakoon  
Dr. WLI Wijesekara  
Dr. Fredrick Abeyratne

**Editorial Assistants:** Dr. Dananjali Gamage & Ms. HLC Himanda

**Cover Page Design & Digital Image:** Mr. JMWCB Jayasinghe

**Computer Type Setting & Graphical Work:** Ms. HLC Himanda

**Scope of the Journal:** Tropical Agricultural Research and Extension publishes research results of broad practical significance for tropical agriculture. The subject areas covered include Agricultural Economics & Extension, Agricultural Engineering, Agro-forestry, Animal Science, Biotechnology, Crop Science, Fisheries Biology, Food Science & Post-Harvest Technology, Genetics & Plant Breeding, Plant Protection, Indigenous Knowledge Systems, Integrated Farming Systems, Natural Resource Management and Soil Science.

Fax: 94 41 229 2382

Phone: 94 41 229 2382

E-mail: tare@agri.ruh.ac.lk