

Journal of South Pacific Agriculture

Volume 15 NOS. 1 & 2 2011



Address for Correspondence

The Managing Editor, JOSPA USP-IRETA, Alafua Campus Private Mail Bag Apia

Apia SAMOA

Telephone : (685) 22372/21671 Fax: (685) 22347 / 22933

Email: uspireta@samoa.usp.ac.fj or ebenebead@gmail.com

Sales and Distribution

IRETA Publications USP, Alafua Campus Private Mail Bag Apia

SAMOA

Telephone: (685) 22372/21671 Fax: (685) 22347 / 22933 Email: uspireta@samoa.usp.ac.fj

Annual Subscription

Free to agricultural workers in USP member countries. US \$40.00 (including postage for non-USP member countries).

Paper Contribution

Authors wishing to submit papers are advised to refer to the Guide for Authors on the last pages of this volume.

Layout: Adama Ebenebe

Cover Design: Ejiwa Adaeze Ebenebe

Printed by: IRETA Printery USP Alafua Campus Samoa

ISSN 1016-7774 Copyright ©USP-IRETA 2011

JOURNAL OF SOUTH PACIFIC AGRICULTURE

The Journal of South Pacific Agriculture (JOSPA) is a joint publication of the Institute for Research, Extension and Training in Agriculture (IRETA) and the School of Agriculture and Food Technology (SAFT) of The University of the South Pacific (USP)

Managing Editor

Dr. Adama Ebenebe School of Agriculture and Food Technology Alafua Campus Apia, Samoa

BOARD OF TECHNICAL EDITORS

Associate Professor Mareko Tofinga

(Farming Systems/Agronomist) SAFT-USP Samoa

Mr. Mohammed Umar

(Agriculture Project Development & Management) IRETA-USP Samoa

Mr. David Hunter

(Scientific Research Organisaion of Samoa) SAFT, USP Samoa

Dr. Joel Miles

(Crop Protection) Republic of Palua

Professor E. Martin Aregheore

(Animal Science) Marfel Consulting Canada

Professor Umezuruike Linus Opara

(Postharvest Technology) Stellenbosch University South Africa

Professor Anthony Youdeowei

(Consultant)
United Kingdom

Dr. Lalith Kumarasingh

(MAF Biosecurity) New Zealand

Acknowledgement

The Journal of South Pacific Agriculture hereby acknowledges the generous contributions of those who reviewed manuscripts for this volume.

Table of Contents

A descriptor list for giant swamp taro (Cyrtosperma merkusii) and its cultivars in the Federated States of Micronesia Shiwangni Rao, Mary Taylor and Anjeela Jokhan	1
Value of Leucaena leucocephala, Gliricidia sepium and Ipomea batatas supplements for apparent nutritional adequacy and maintenance of adult Anglo-Nubian x Fiji local goats on a basal diet of Elephant grass (Pennisetum purpureum) in the dry sea Simon Baete and Eroarome Martin Aregheore	
Forging Fijian Camaraderie: The cultural significance and social uses of kava (yaqona) (Piper methysticum Forst. f) in three upper watershed communities in north western Viti Levu (Fiji Islands) Dan F. Orcherton.	19
Approach to address bean acidity problems in Papua New Guinea cocoa using solar dryer technology Noel Y. Kuman	35
Optimization of flowering, pollen quantity and seed production in taro (Colocasia esculenta var. esculenta) Rosalene Sharma, Mary Taylor and Anjeela Jokhan	41
Observations on off-take and nutrient composition of milk from Papua New Guinea goats Atmaleo Aguyanto and Workneh Ayalew	53
Effect of blending sweet potato silage with commercial pellet feed or farm-made concentrate (fish meal and copra meal) on the performance of local crossbred pigs in Papua New Guinea (PNG) Michael Dom, Workneh Ayalew and James Tarabu.	62
Evidence of environmental effects on cocoa flavour attributes Noel Y. Kuman.	71
Comparative study of mutant and normal segregant seedlings of cocoa (<i>Theobroma cacao</i> L.) Eremas Tade, Doug A. George, Richard R. Williams and Peter Bapiwai	76
Climate change and food security – some conceptual considerations Eberhard H. Weber	85
What Ails Rural Economy of Fiji? A Diagnosis and Prescription Sunil Kumar and Jagdish Prasad Bhati	98
Food production and climate change in Pacific Islands Countries and Territories Morgan Wairiu, Viliamu Iese and Murari Lal	110
Constraints and gender involvement in relation to canarium nut marketing in Kakalano and Bitaama areas of Malaita Province, Solomon Islands Ramona S. Sulifoa and Sonny Lameta	122
Guide for authors	136