

Contents

Special Issue

Agrobiodiversity & Africa

Introduction

| | |
|--|----|
| Introduction to special issue on agricultural biodiversity, ecosystems and environment linkages in Africa J.J. Baidu-Forson, T. Hodgkin and M. Jones (Kenya, Italy, Ghana)..... | 1 |
| Major agro-ecosystems of West and Central Africa: Brief description, species richness, management, environmental limitations and concerns A. Jalloh, H. Roy-Macauley and P. Sereme (Senegal) | 5 |
| The status of agrobiodiversity management and conservation in major agroecosystems of Southern Africa S. Khumalo, P.W. Chirwa, B.H. Moyo and S. Syampungani (Kenya, South Africa, Malawi, Zambia)..... | 17 |
| Arbuscular mycorrhizal fungi in the rhizosphere of banana and plantain and the growth of tissue culture cultivars J.M. Jefwa, E. Kahangi, T. Losenge, J. Mung'atu, W. Ngului, S.M. Ichami, N. Sanginga and B. Vanluawe (Kenya)..... | 24 |
| Impact of land use types and farming practices on occurrence of arbuscular mycorrhizal fungi (AMF) Taita-Taveta district in Kenya J.M. Jefwa, S. Okoth, P. Wachira, N. Karanja, J. Kahindi, S. Njuguini, S. Ichami, J. Mung'atu, P. Okoth and J. Huising (Kenya)..... | 32 |
| Mycorrhizal colonization of major banana genotypes in six East African environments S. Gaidashova, A. Nsabimana, D. Karamura, P. van Asten and S. Declerck (Rwanda, Uganda, Belgium) | 40 |
| Seasonal changes of bacterial communities in the rhizosphere of <i>Acacia senegal</i> mature trees inoculated with <i>Ensifer</i> strains in Burkina Faso and Niger L. Herrmann, K. Sanon, A.M. Zoubairou, M. Dianda, S. Sall, M. Thuita and D. Lesueur (Kenya, Burkina Faso, Niger, Senegal, Thailand) | 47 |
| Quantifying the masses of <i>Macrotermes subhyalinus</i> mounds and evaluating their use as a soil amendment A. Tilahun, F. Kebede, C. Yamoah, H. Erens, B.B. Mujinya, A. Verdoodt and E. Van Ranst (Ethiopia, Belgium)..... | 54 |
| Symbiotic nitrogen fixation of wild legumes in Tunisia: Soil fertility dynamics, field nodulation and nodules effectiveness M. Rejili, M. Mahdhi, A. Fterich, S. Dhaoui, I. Guefrachi, R. Abdeddayem and M. Mars (Tunisia) | 60 |
| A risk-minimizing argument for traditional crop varietal diversity use to reduce pest and disease damage in agricultural ecosystems of Uganda J.W. Mulumba, R. Nankya, J. Adokorach, C. Kiwuka, C. Fadda, P. De Santis and D.I. Jarvis (Uganda, Kenya, Italy) | 70 |
| Genotype–environment interaction in <i>Gliricidia sepium</i> : Phenotypic stability of provenances for leaf biomass yield B.I. Nyoka, A.J. Simons and F.K. Akinnifesi (Malawi, Kenya) | 87 |
| Variation in biochemical composition of baobab (<i>Adansonia digitata</i>) pulp, leaves and seeds in relation to soil types and tree provenances A.E. Assogbadjo, F.J. Chadare, R.G. Kakaï, B. Fandohan and J.J. Baidu-Forson (Benin, Kenya) | 94 |