

CONTENTS

Volume 32 Number 5 2018

- 599 Understanding root, tuber, and banana seed systems and coordination breakdown: a multi-stakeholder framework
Jeffery W. Bentley, Jorge Andrade-Piedra, Paul Demo, Beloved Dzomeku, Kim Jacobsen, Enoch Kikulwe, Peter Kromann, P. Lava Kumar, Margaret McEwan, Netsayi Mudege, Kwame Ogero, Richardson Okechukwu, Ricardo Orrego, Bernardo Ospina, Louise Sperling, Stephen Walsh and Graham Thiele
- 622 Improved rice seed use and drivers of source choice for rice farmers in Tanzania
Rajabu Joseph Kangile, Setegn Gebeyehu and Herman Mollel
- 635 Effects of cytoplasm, male and female parents on biomass productivity in sorghum (*Sorghum bicolor* L. Moench)
Luke A. Vacek and William L. Rooney
- 648 Fertigation improves potato production in Inner Mongolia (China)
Liguo Jia, Yonglin Qin, Yang Chen and Mingshou Fan
- 657 Correlating karyomorphology and molecular marker analyses in turmeric: a case study
Sreetama Bhadra, Debabrata Maity and Maumita Bandyopadhyay
- 681 First report of *Orobanche cernua* parasitism on *Allium cepa* in Banda district of Uttar Pradesh, India
Gulwaiz Akhter, Tabreiz Ahmad Khan and Aiman Zafar
- 690 Identification of CMS maintainers and restorers for hybrid rice development in Ghana
Samuel Oppong Abebrese, Paul Kofi Ayirebi Dartey, Richard Akromah, Vernon Edward Gracen, Samuel Kwame Offei and Eric Yirenkyi Danquah
- 705 Agronomic comparisons of sugarcane varieties derived from tissue culture (NovaCane®) and conventional propagation under rainfed conditions
Sbonelo Nicholus Shezi and Sanesh Ramburan
- 717 Adoption of improved crop varieties by involving farmers in the e-wallet program in Nigeria
Joseph Ikechukwu Uduji and Elda Nduka Okolo-Obasi
- 738 Image analysis and histochemistry to identify mobile stem resources for seed production in soybean
Anne B. Alerding, Mary C. Irvine, Mia J. Cunicelli, Matthew R. Waalkes, Emily S. Hill, Richard A. Rowe, Garrett Parsons, Laura D. Davis and Angela E. Mullins

Volume 32 Number 6 2018

- 757 Principal component analysis of early generation sorghum lines for yield-contributing traits and resistance to midge
Massaoudou Hamidou, Oumarou Souleymane, Malick Ba, Eric Danquah, Issoufou Kapran, Vernon Gracen and Kwadwo Ofori
- 766 Quantitative trait loci for salt tolerance in soybean
Cindy Lopez, Moldir Orazaly, Leandro Mozzoni, Kenneth L. Korth and Pengyin Chen
- 781 Genotypic differences in yield loss of irrigated soybean attributable to charcoal rot
James R. Smith, Jeffery D. Ray and Alemu Mengistu
- 801 Somatic embryogenesis and evaluation of genetic fidelity in *Amorphophallus paeoniifolius* (Dennst.) Nicolson
Swati T. Gurme, Pooja P. Jadhav, Kiran D. Pawar, Vishwas A. Bapat and Jyoti P. Jadhav
- 812 Groundnut production constraints, farming systems, and farmer-preferred traits in Tanzania
Happy Daudi, Hussein Shimelis, Mark Laing, Patrick Okori and Omari Mponda
- 829 Learning from farmers to improve sorghum breeding objectives and adoption in Mali
Chiaka Diallo, Krista Isaacs, Vernon Gracen, Aboubacar Touré, Eva Weltzien Rattunde, Eric Y. Danquah, Mamourou Sidibé, Daniel K. Dzidzienyo, Rattunde Fred, Baloua Nébié, Almamy Sylla and Pangirayi B. Tongoona
- 847 Quantifying sugarcane cultivar differences in tiller and stalk phenology: identifying traits suited to crop model-assisted breeding
Immaculate Ngobese, Sanesh Ramburan and Maryke Labuschagne
- 861 Estimation of plant health in a sorghum field infected with anthracnose using a fixed-wing unmanned aerial system
N. Ace Pugh, Xiongzhe Han, S. Delroy Collins, J. Alex Thomasson, Dale Cope, Anjin Chang, Jinha Jung, Thomas S. Isakeit, Louis K. Prom, Geraldo Carvalho, Ian T. Gates, Andrew Vree, G. Cody Bagnall and William L. Rooney
- 878 Modeling germination rate and cardinal temperatures of seven mediterranean crops
José A. Andrade, Jorge Cadima and Francisco M. Abreu