Contents

Vol. 49 No. 4 2015

REVIEWS

Crop Science

301 Epimutant Induction as a New Plant Breeding Technology

Atsushi KASAI & Takeo HARADA

Agricultural Environment

307 Mitigation Option of Greenhouse Gas Emissions from Livestock Manure Composting

Yasuyuki FUKUMOTO, Kazuyoshi SUZUKI, Miyoko WAKI & Tomoko YASUDA

Food Science

Recent Progress in Technologies for Enzymatic Peeling of Fruit

Masaki NOGUCHI, Yoshihiko OZAKI & Jun-ichi AZUMA

ARTICLES

Crop Science

Comparison of Physicochemical Properties of Soils under Contrasting Land Use Systems in Southwestern Nigeria

Yoshinori WATANABE, Hidehiko KIKUNO, Robert ASIEDU, Tsugiyuki MASUNAGA & Toshiyuki WAKATSUKI

333 Rice Bran Affects Dry-matter Production of Chinese and Japanese Rice Cultivars

Jiabin BIAN, Masanori TOYOTA, Masahiro MOROKUMA & Akihito KUSUTANI

Comparison of Genome Size in Reed Canarygrass (*Phalaris arundinacea* L.) Exotic and Putative Native Japanese Genotypes by Flow Cytometry

Yukio AKIYAMA, Kenji KIMURA, Akito KUBOTA, Masahiro FUJIMORI, Hitomi YAMADA-AKIYAMA, Yoshinori TAKAHARA & Yasufumi UEYAMA

Agricultural Environment

Anthracnose Fungi with Curved Conidia, *Colletotrichum* spp. belonging to Ribosomal Groups 9-13, and Their Host Ranges in Japan Toyozo SATO, Jouji MORIWAKI & Shigeru KANEKO

363 Modeling of Paddy Water Management with Large Reservoirs in Northeast Thailand and its Application to Climate Change Assessment Ryoji KUDO, Takao MASUMOTO & Naoki HORIKAWA

Agricultural Engineering

377 Extreme Learning Machine-based Crop Classification using ALOS/PALSAR Images

Rei SONOBE, Hiroshi TANI, Xiufeng WANG, Yasuhito KOJIMA & Nobuyuki KOBAYASHI

Agricultural Economics

Revitalization of Rural Economies though the Restructuring the Self-sufficient Realm – Growth in Small-scale Rapeseed Production in Japan

Akihisa NONAKA & Hiroshi ONO

Horiticulture

391 Shoot Growth and Fruit Production of the 'Masui Dauphine' Variety of Fig (*Ficus carica* L.) Undergoing Renewal Long Pruning

Akihiro HOSOMI, Takeshi ISOBE & Yuka MIWA

Vol. 49 No. 4 2015

Animal Husbandry

Enteric Methane Emission, Energetic Efficiency and Energy Requirements for the Maintenance of Beef Cattle in the Tropics

Natthamon TANGJITWATTANACHAI, Ittipon PHAOWPHAISAL, Makoto OTSUKA & Kritapon SOMMART

Biomass Utilization

409 Dynamics of Fertilizer Nitrogen Applied to Sweet Sorghum (Sorghum bicolor (L.) Moench) in the Semi-Arid Tropics

Hiroshi UCHINO, Takeshi WATANABE, Karri RAMU, Kanwar L. SAHRAWAT, Subramanian MARIMUTHU, Suhas P. WANI & Osamu ITO