

Contents

Vol. 55 No. 1 2021

REVIEW

Social Science

- 1 The Farm-type TMR Center as a Regional Farming System in Hokkaido Makoto HIMI

ARTICLES

Crop Science

- 5 Radioactive Cesium Concentration in Silage Corn (*Zea Mays* L.) and Italian Ryegrass (*Lolium Multiflorum* Lam.) Cultivated with Three Different Tillage Methods after the Fukushima Daiichi Nuclear Power Plant Accident Tsutomu KANNO, Hisatomi HARADA, Koichi AMAHA, Yoshiyuki ABE, Noritoshi SUMIDA, Hidehiko INOUE, Yoichiro KOJIMA, Soichiro MORITA, Toshihiko IBUKI & Setsuro SATO

Agricultural Environment

- 17 Nitrous Oxide Emissions from a Sugarcane Field with Green Manure and Chemical Fertilizer Applications in Okinawa, Japan Tabito MAEDA, Soh SUGIHARA, Tomohiro NISHIGAKI, Naoko MIYAMARU, Koichi YOSHIDA, Akinori YAMAMOTO, Koki TOYOTA & Haruo TANAKA
- 29 Development of Rapid Immunofilter Paper Assay for Chrysanthemum Stem Necrosis Orthotospovirus using Polyclonal Antibody Generated in Rabbits Yasuhiro TOMITAKA

Agricultural Engineering

- 35 Applicability of Water Level Monitoring System and Water Level Estimation System to Tank Cascade in Sri Lanka Akira IZUMI & Toshikazu HORI
- 45 Recurrent Neural Network Predictions for Water Levels at Drainage Pumping Stations in an Agricultural Lowland Nobuaki KIMURA, Ikuo YOSHINAGA, Kenji SEKIJIMA, Issaku AZECHI, Hirohide KIRI & Daichi BABA

Social Science

- 59 Soybean Rust and Resistant Cultivar Effects on Global Soybean Supply and Demand Yuki ISHIKAWA-ISHIWATA & Jun FURUYA

Contents

Vol. 55 No. 1 2021

Animal Science

- 69 Comparative Analysis of Rumen Bacteria between Water Buffalo and Cattle Fed the Same Diet during their Fattening Period in the Philippines
Ken ASAI, Khin Ohnmar LWIN, Abraham G. TANDANG, Rosalina M. LAPITAN, Jesus Rommel V. HERRERA, Arnel N. DEL-BARRIO, Makoto KONDO, Tomomi BAN-TOKUDA, Arfan ABRAR, Tsutomu FUJIHARA & Hiroki MATSUI
- 77 The Effects of Chronic Social Defeat Stress on Solid Gastric Emptying and Defecation in C57BL/6J Mice
Naoko MORIYA, Naoko YAMAGISHI, Tatsuhiko GOTO, Hikari OTABI, Hiromi NIRA-KIMOTO, Atsushi TOYODA & Chise SUZUKI

Fisheries

- 85 Identification of Potential Predators for Asari Clam *Ruditapes philippinarum* Using Time-lapse Camera Observations
Naoaki TEZUKA, Yoshitake TAKADA, Toshihiro SHIGETA & Motoharu UCHIDA
- 97 Practical Research on Rearing Broodstock Abalone Using a Closed Recirculating System
Yukio MATSUMOTO & Tomoki MAEDA