

# JARQ

Japan Agricultural Research Quarterly

---

[www.jircas.go.jp](http://www.jircas.go.jp)

Vol. 54 No. 3 July 2020



JIRCAS

Japan International Research Center for Agricultural Sciences

**REVIEWS****Agricultural Environment**

- 201 Suppression of Root-knot Nematode Damage to Next Crop by Prior Cultivation of Root-knot Nematode-resistant Sweet Potato Cultivars  
Takayuki SUZUKI, Hideaki IWAHORI & Katsuki ADACHI

**Agricultural Engineering**

- 211 Review of Research on Irrigation Pond Damage due to Heavy Rain and Related Disaster Prevention Countermeasures in Japan  
Sangyoon LEE, Hajime KOJIMA & Takeshi TAKEMURA

**Information Technology**

- 219 Common Agriculture Vocabulary for Enhancing Semantic-level Interoperability in Japan  
Akane TAKEZAKI, Sungmin JOO, Hideaki TAKEDA & Tomokazu YOSHIDA

**ARTICLES****Biotechnology**

- 227 Seed Productivity of Genebank Sorghum Accessions in India (Tamil Nadu) and Japan (Tsukuba)  
Tomotsugu NOGUCHI, Sivakumar SUBBARAYAN, Atsushi KIYOSAWA, Kazumi GOTOH, Yasufumi MURAKAMI & Hisato OKUIZUMI

**Agricultural Environment**

- 239 Pathogenicity of Rice Blast (*Pyricularia oryzae* Cavara) Isolates from Mekong River Delta, Vietnam  
Yoshimichi FUKUTA, Thi Lang NGUYEN, Thi Thu Ha PHAM, Thi Luy TRINH, Van Du PHAM, Nagao HAYASHI, Akiko KAWASAKI-TANAKA, Mitsuhiro OBARA, Bao Toan Toan TRAN & Chi Buu BUI

**Social Science**

- 253 Childhood Health and Mother Empowerment in Rural Myanmar  
Chisa NAKAMURA, Yoko SAITO & Thuzar SHWE
- 263 Variation of Cowpea Production and Usage in Rural Households: A Comparison between Northern and Southern Burkina Faso  
Sakiko SHIRATORI, Eveline M. F. W. SAWADOGO-COMPAORE & Hsiaoping CHIEN

**Animal Science**

- 271 Molecular Identification of *Trichuris suis* Worms and Eggs in Pig Feces, Infected Intestines, and Farm Environments in Japan  
Ryunosuke MURAMATSU, Ryo SATO, Naruhisa ONUMA, Kazumi SASAI, Tomoyuki SHIBAHARA & Makoto MATSUBAYASHI

**Fisheries**

- 277 Efficacy of Poultry By-product Meal as an Effective Alternative to Fish Meal in Aquaculture Feed for Milkfish *Chanos chanos*  
Tsuyoshi SUGITA, Amafe Belleza GAVILE & Joemel Gentelizo SUMBING