

CONTENTS

AGRICULTURAL ECONOMICS

- Stochastic Frontier Model with Distributional Assumptions for Rice Production Technical Efficiency.
A. Baten, and I. Hossain 481

AGRICULTURAL ENTOMOLOGY

- Biological Control of Sugarcane Top-borer, *Scirpophaga excerptalis* (Walker) (Lepidoptera: Crambidae) through Different Release Levels of *Telenomus beneficiens* (Zehntner) (Hymenoptera: Scelionidae)
I. Khan, H. Zada, S. K. Khalil, M. Sharif and Z. Mahmood, 497

AGRONOMY

- Drought Stress-Induced Changes at Physiological and Biochemical Levels in Some Common Vetch (*Vicia sativa* L.) Genotypes.
A. R. Abbasi, R. Sarvestani, B. Mohammadi, and A. Bagheri 505
- Effect of Cobalt Application on Seed Production in Red Clover (*Trifolium pratense* L.)
D. Tomić, V. Stevović, D. Đurović, and R. Stanisavljević 517

ANIMAL SCIENCE

- A Determination of the Nutritive Value of Unheated vs. Heat Processed Grass Pea Seed in Ruminants.
A. Riasi, M. Golizadeh, M. H. Fathi, N. Asadzadeh, and A. Taghizadeh 527
- Evaluation of Nutritive Value of Grass Pea Hay in Sheep Nutrition and Its Palatability as Compared with Alfalfa.
N. Vahdani, H. Moravej, K. Rezayazdi, and M. Dehgan-Banadaki 537
- Sequence Characterization of Promoter Region at the Melanocortin-1 Receptor *MC1R* Gene in Karakul Sheep Breed.
M. Muhaghegh-Dolatabady, and J. Habibizad 551

FOOD SCIENCE

- Application of Some Antifungal and Antioxidant Compounds Extracted from Some Herbs to Be Used in Cakes as Biopreservatives.
A. Saatchi, M. Kadivar, S. Soleimani Zad, and M. S. Abaee 561
- Effects of Corn Resistant Starch on the Physicochemical Properties of Cake.
M. Majzooobi, S. Hedayati, M. Habibi, F. Ghiasi, and A. Farahnaky 569

IRRIGATION AND DRAINAGE

- Effect of Center Pivot System Lateral Configuration on Water Application Uniformity in an Arid Area.
H. M. Al-Ghobari 577
- Optimum Management of Furrow Fertigation to Maximize Water and Fertilizer Application Efficiency and Uniformity.
H. Ebrahimián, and E. Playán 591

Continued from front cover:

PLANT BREEDING

GGE Biplot and AMMI Analysis of Yield Performance of Barley Genotypes across Different Environments in Iran.
S. M. M. Mortazavian, H. R. Nikkhah, F. A. Hassani, M. Sharif-al-Hosseini, M. Taheri, and M. Mahlooji 609

Isolation of *Bacillus* spp. from Soil and an Evaluation of Their Sensitivity towards Different Extracts and Essential Oils of Cumin (*Cuminum cyminum* L.).
M. Y. Ali, M. M. Rahman, A. Rahman, M. Basaglia, M. M. Rahman, T. Sultana, and S. Casella 623

PLANT PATHOLOGY

Blue Mold (*Penicillium expansum*) Decay Resistance in Apple Cultivars, and Its Association with Fruit Physicochemical Traits.
T. Naeem Abadi, M. Keshavarzi, H. Alaei, H. Hajnajari, and S. Hoseinava 635

Identification of Tobacco Leaf Curl Virus Infecting *Lonicera japonica*, an Ornamental Plant Common in Japan.
A. Ali, M. Ahmed, H. Nishigawa, and T. Natsuaki 645

Nucleotide Sequence and Structural Features of Hop Stunt Viroid and Citrus Bent Leaf Viroid Variants from Blighted Citrus Plants in Kohgiluyeh–Boyerahmad Province of Iran.
M. Amiri Mazhar, S. A. A. Bagherian, A. Salahi Ardakani, and K. Izadpanah 657

SOIL SCIENCE

Linking Soil Organic Carbon Stocks to Land-use Types in a Mediterranean Agroforestry Landscape
V. H. Durán Zuazo, J. R. Francia Martínez, C. R. Rodríguez Pleguezuelo, and S. Cuadros Tavira 667

Micromorphological and Biocalcification Effects of *Sporosarcina pasteurii* and *Sporosarcina ureae* in Sandy Soil Columns.
M. Sarmast, M. H. Farpoor, M. Sarcheshmehpoor, and M. K. Eghbal 681