

# CONTENTS

## AGRICULTURAL ECONOMICS, EXTENSION AND RURAL DEVELOPMENT

- Pricing of Rainfall Index Insurance for Rice and Wheat in Nepal.  
*M. P. Poudel, S. E. Chen, and W. C. Huang* 291
- Impact Assessment of an Integrated Dairy Farming Project in Turkey Financed by Europe Funds.  
*S. Akin* 303

## ANIMAL SCIENCE

- Camelia (*Camelina sativa* L. Crantz Variety) Oil and Seeds as n-3 Fatty Acids Rich Products in Broiler Diets and Its Effects on Performance, Meat Fatty Acid Composition, Immune Tissue Weights, and Plasma Metabolic Profile.  
*G. Ciurescu, M. Ropota, I. Toncea, and M. Habeanu* 315
- Dietary Zinc Oxide and 6-Phytase Effects on Fertility Rate in Old Broiler Breeder Hens.  
*H. Sharideh, M. Zhandi, M. Zaghari, and A. Akhlaghi* 327
- Improving Qualitative Properties of Extruded Linseed as Mixed with Different Absorbent Materials in Iran.  
*M. Kordi, A. A. Naserian, R. Valizadeh, A. M. Tahmasbi, and M. Safarian* 337
- Omega-3 Enrichment of Quail Eggs: Age, Fish Oil, and Savory Essential Oil.  
*M. Kamely, M. A. Karimi Torshizi, and H. Khosravinia* 347

## PLANT SCIENCE

- Insecticidal Efficacy of Iranian Diatomaceous Earths on Adults of *Oryzaephilus surinamensis*.  
*M. Ziaee, M. Atapour, and A. Marouf* 361
- Microbial-based Production System: A Novel Approach for Plant Growth and Pest and Disease Management in Greenhouse-grown Peppers (*Capsicum annuum* L.).  
*A. Dogan, F. Erler, M. Erkan, A. Ozgur Ates, H. Sule Sabanci, and E. Polat* 371
- Estimating and Validating Wheat Leaf Water Content with Three MODIS Spectral Indexes: A Case Study in Ningxia Plain, China.  
*S. Zhao, Q. Wang, Y. Yao, S. Du, C. Zhang, J. Li, and J. Zhao* 387
- Root Vigor and Kinetic Characteristics and Nitrogen Use Efficiencies of Different Potato (*Solanum tuberosum* L.) Cultivars.  
*S. L. Zheng, H. Cheng, P. H. Li, and J. C. Yuan* 399
- Tillage, Crop Establishment, and Weed Management for Improving Productivity, Nutrient Uptake, and Soil Physico-chemical Properties in Soybean-wheat Cropping System.  
*A. Monsefi, A. R. Sharma, and N. Rang Zan* 411
- Agrobacterium Mediated Transformation of Somatic Embryos of Persian Walnut Using *fld* Gene for Osmotic Stress Tolerance.  
*M. A. Sheikh Beig Goharrizi, A. Dejahang, M. Tohidfar, A. Izadi Darbandi, N. Carillo, M. R. Hajirezaei, and K. Vahdati* 423

Continued on back cover

**Continued from front cover:**

**PLANT SCIENCE**

- De Novo* Characterization of the Root Transcriptome and Development of EST-SSR Markers in *Paris polyphylla* Smith var. *yunnanensis*, an Endangered Medical Plant  
*L. Wang, Y. Yang, Y. Zhao, S. Yang, S. Udikeri, and T. Liu* 437
- Effects of Alkali Stress and Growing Media on Growth and Physiological Characteristics of Gerbera Plants.  
*M. Manzari Tavakkoli, H. R. Roosta, and M. Hamidpour* 453
- Efficient Protocol for Protoplast Isolation and Plant Regeneration of *Fritillaria imperialis* L.  
*E. Chamani, and S. K. Tahami* 467
- Influence of Substrate pH on Root Growth, Biomass and Leaf Mineral Contents of Grapevine Rootstocks Grown in Pots.  
*S. Vršič, L. Kocsis, and B. Pulko* 483
- Physiochemical Changes during Growth and Development of Pineapple (*Ananas comosus* L. Merr. cv. Sarawak).  
*D. Solomon George, Z. Razali, and C. Somasundram* 491
- Yield and Quality of Mini-watermelon as Affected by Grafting and Mycorrhizal Inoculum.  
*A. Miceli, C. Romano, A. Moncada, G. Piazza, L. Torta, F. D'Anna, and F. Vetrano* 505
- Comparative Analysis of Genetic Diversity among *Bt* Cotton Genotypes Using EST-SSR, ISSR and Morphological Markers.  
*J. Ashraf, W. Malik, M. Z. Iqbal, A. Ali Khan, A. Qayyum, E. Noor, M. A. Abid, H. M. Naseer Cheema, and M. Q. Ahmad* 517
- GGE Biplot-Based Evaluation of Yield Performance of Barley Genotypes across Different Environments in China.  
*Y. Meng, P. Ren, X. Ma, B. Li, Q. Bao, H. Zhang, J. Wang, J. Bai, and H. Wang* 533
- Identification of SSR Marker Linked to Leaf Rust Resistant Gene *Lr24* and Marker Assisted Transfer of Leaf Rust Resistance Genes into Bread Wheat.  
*B. S. Savitha, S. A. Desai, S. S. Biradar, R. Naik, and H. C. Lohithaswa* 545
- Stability Performance of Bread Wheat (*Triticum aestivum* L.) Lines.  
*P. O. Kurt Polat, E. A. Cifci, and K. Yagdi* 553
- Population Structure and Sexual Fertility of *Colletotrichum gloeosporioides* sensu lato from Citrus in Northern Iran.  
*M. Behnia, M. Javan-Nikkhah, H. Aminian, M. Razavi, and A. Alizadeh* 561

**RESEARCH NOTES**

**PLANT SCIENCE**

- Physio-chemical and Functional Quality Evaluation of Mandarin Peel Powder.  
*P. Ojha, T. Bahadur Karki, and R. Sitaula* 575