# FOOD AND AGRICULTURAL IMMUNOLOGY

# Volume 25 Numbers 1-2 March-June 2014

# **CONTENTS**

#### Volume 25 Number 1 March 2014

### **ARTICLES**

Development of a monoclonal antibody-based sandwich ELISA for the detection of ovalbumin in foods	•
Juan Peng, Xu Meng, Xiaofang Deng, Jianping Zhu, Hua Kuang and Chuanlai Xu	1
Sunflower seed extract enhances the differentiation of osteoblastic MC3T3-E1 cells Eun Mi Choi	9
Determination of histamine content in vegetable juices by using direct and competitive immunosensors  Nóra Adányi, Inna Székács, István Szendrő and András Székács	20
Allergenicity of recombinant human lactoferrin to an animal model Brown Norway rats  Cui Zhou, Jianwu Wang, Na Sun, Jing Tian, Jing Wang, Yingshuang Lv, Peng Wang, Kunlun Huang and Huilian Che	34
The effect of matured date palm tree ( <i>Phoenix dactylifera</i> L.) fruit extract on mite-induced allergic symptoms in NC/Nga mice Koji Karasawa and Hajime Otani	49
Determination of trace aflatoxin M1 levels in milk and milk products consumed in Turkey by using enzyme-linked immunosorbent assay  Sezgin Bakırdere, Tolga Yaroğlu, Nihan Tırık, Mehmet Demiröz and Abdullah Karaca	61
Identification and purification of a novel fish allergen from largemouth bass (Micropterus salmoides) Chu-Yi Liu, Sha Tao, Jing-Yi Xue, Hui Zhang, Wen-Tong Xue and Fu-Sheng Chen	70
Development of a fluorescence-linked immunoassay based on quantum dots for fenvalerate  Jingkun Liu, Qi Zhang. Wen Zhang, Xiaoxia Ding, Xiaofeng Hu, Fangfang Zhao and Peiwu Li	82
An analytical device for on-sight immunoassay: demonstration of its applicability in detection of DDT in food samples  N. Deepthi, M.S. Thakur and Haravey Krishnan Manonmani	94
Evaluation of Compositae sp. plants for antioxidant activity, antiinflammatory, anticancer and antiadipogenic activity in vitro  Je-Hyuk Lee, Eun Jeong Choi, Hee-Sook Park and Gun Hee Kim	104
Molecular characterisation of type II collagen from chick sternal cartilage and its anti-rheumatoid arthritis activity  Hui Cao, Shiying Xu, Hongshan Ge and Fei Xu	119
An ultrasensitive chemiluminescent ELISA for determination of chloramphenicol in milk, milk powder, honey, eggs and chicken muscle Xiaoqi Tao, Haiyang Jiang, Jinghui Zhu, Xia Wang, Zhanhui Wang, Lanlan Niu,	
Xiaoping Wu, Weimin Shi and Jianzhong Shen	137

# Volume 25 Number 2 June 2014

### ARTICLES

Improved preparation of a chitosan-based immunoaffinity column using antibody against methandrostenolone as ligand  Yun Wang, En-lan Wang, Yan Xu, Juan Wu and Ying Dong	149
Immunosorbent analysis of ricin contamination in milk using colorimetric, chemiluminescent and electrochemiluminescent detection  David L. Brandon, Anna M. Korn and Lily L. Yang	160
Study of the effect of instant controlled pressure drop (DIC) treatment on IgE-reactive legume-protein patterns by electrophoresis and immunoblot Krisztina Takács, Eva Guillamon, Mercedes Martin Pedrosa, Carmen Cuadrado, Carmen Burbano, Mercedes Muzquiz, Joseph Haddad, Karim Allaf, Anita Maczó, Marianne Polgár and Éva Gelencsér	173
Determination of zearalenone in corn based on a biotin-avidin amplified enzyme-linked immunosorbent assay  Yunhong Huang, Yang Xu, Qinghua He, Jinsheng Chu, Bibai Du and Jing Liu	186
Comparison of gluten recovery in gluten-incurred buckwheat flour using different commercial test kits  Pedro A. Alvarez and Joyce I. Boye	200
In vitro differential modulation of immune response by probiotics in porcine peripheral blood mononuclear cells  Verónica Mata-Haro, Mónica Reséndiz-Sandoval and Jesús Hernández	209
Studies on the association of BF1/BF2 gene expression patterns with traits of genetic resistance to Marek's disease in chickens  Yuan-Chang Jin, Ping Wei, Bo-Xue Niu, Meng Li and Qing-Li Yang	220
Rapid monitoring of dicyclohexyl phthalate in foods using the direct competitive ELISA  Mingcui Zhang, Yue Wang, Xiaona Yu, Yurong Hu and Shaohui Liu	229
Development of an indirect competitive immunoassay for determination of L-hydroxyproline in milk  Ju Xiang Liu, Li Li Wang, Jing Liu and Jian Ping Wang	243
Preparation and validation of monoclonal antibody-based indirect competitive ELISA for detecting testosterone levels  Hai-Tang Zhang, Jin-Qing Jiang, Zi-Liang Wang, Jun-Jie Chen, Shu-Yun Wang,  Han Ding, Xin-peng Li and Yi Li	256
Changes in quantity of Cry jl, a major cedar pollinosis allergen, in Cryptomeria japonica pollen during spring in Japan Takashi Kuribayashi, Testuro Seita, Kayoko Takada, Toshio Honjo and	267
Shizuo Yamamoto  Protective effect of blueberry anthocyanins in a CCl <sub>4</sub> -induced injury model in human embryonic liver cells  Jian Chen, Xiao-yun Tao, Lu-ning Li, Ai-dong Sun, Yin Wang and Shi Zhang	274
A silver enhanced and sensitive strip sensor for Cadmium detection Changrui Xing, Hua Kuang, Changlong Hao, Liqiang Liu, Libing Wang and Chuanlai Xu	287