3rd International Conference on Agricultural and Biological Sciences (ABS 2017)

IOP Conference Series: Earth and Environmental Science Volume 77

Qingdao, China 26 - 29 June 2017

Editor:

Mohammad H. Golabi

ISBN: 978-1-5108-4556-5 ISSN: 1755-1307 Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2017) by the Institute of Physics All rights reserved. The material featured in this book is subject to IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact the Institute of Physics at the address below.

Institute of Physics Dirac House, Temple Back Bristol BS1 6BE UK

Phone: 44 1 17 929 7481 Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

Table of contents

Volume 77

3rd International Conference on Agricultural and Biological Sciences (ABS 2017) 26–29 June 2017, Qingdao, China

Accepted papers received: 17 July 2017 Published online: 25 July 2017

Preface

011001 OPEN ACCESS <u>3rd International Conference on Agricultural and Biological Sciences (ABS 2017)</u>

011002 OPEN ACCESS Peer review statement

Papers

012001 OPEN ACCESS The comparison of light responses among four species of *Calligonum* L. in early autumn

H Pan, Y Feng and Y Li....1

012002 OPEN ACCESS The exploit of cereal embryo structure for productive reasons by *in vitro* techniques

C Savaskan.....8

012003 OPEN ACCESS Properties of different aged jicama (*Pachyrhizus Erozus*) plants

F Nursandi, M Machmudi, U Santoso and D Indratmi.....14

012004 OPEN ACCESS Review on sugar beet salt stress studies in Iran

S Khayamim, H Noshad, M R Jahadakbar and K Fotuhi.....18

012005 OPEN ACCESS Unusual varieties and duplication of Rig-I like receptors encoded in the marine mollusk, Crassostrea gigas

Z H Tian and C Z Jiao.....22

012006 OPEN ACCESS Evaluation of the comprehensive potential for land reclamation in Huadian City

C Sun, Y Liu, X M Tang and Y M Ren.....32

012007 OPEN ACCESS Characterization of pre-curing behavior of urea-formaldehyde resin affected by different temperatures

Y Z Chen and H Xiao.....39

012008 OPEN ACCESS Spatiotemporal dynamics of climate and agricultural landscape patterns in Xinjiang, China (2000-2015)

T Huang, Q Y Du and J Q Zou.....47

012009 OPEN ACCESS <u>Characteristics of soil stability and carbon sequestration under water storage and drainage</u> <u>model</u>

J Li, J C Han, C Chen and J J Yang.....55

012010 OPEN ACCESS Optimization test of the 2BSL-320 vegetable seeders with air-suction drum type

B Tang, Y S Wang and S Z Ji.....68

012011 OPEN ACCESS Fertilizer nitrogen, soil chemical properties, and their determinacy on rice yield: Evidence from 92 paddy fields of a large-scale farm in the Kanto Region of Japan

D Li, T Nanseki, Y Chomei and S Yokota.....74

012012 OPEN ACCESS Hydrodynamic characteristics of the oval cambered double slotted otter board in bottom trawl fisheries

J Liu, H L Huang, L Z Li, T C Qu, Y Wu, S Chen, J L Yang and X Rao.....82

012013 OPEN ACCESS <u>Mesh size selectivity of the gillnet in East China Sea</u>

L Z Li, J H Tang, Y Xiong, H L Huang, L Wu, J J Shi, Y S Gao and F Q Wu.....91

012014 OPEN ACCESS The changes of oil palm roots cell wall lipids during pathogenesis of *Ganoderma* <u>boninense</u>

A Alexander, J Dayou, S Abdullah and K P Chong.....100

012015 OPEN ACCESS <u>A study on the spatial characteristics and correlation of migrant workers' urban</u> integration and well-being: A case study of Xi'an (China)

D H Wang, X J Yang and F J Hao.....109

012016 OPEN ACCESS Fluctuation traits of Litchi wholesale price in China

F F Yan, W E Qi and X Ouyang.....115

012017 OPEN ACCESS Planting structure adjustment and food security in major food production district: A case study on 10 main food production counties in Gansu Province, China

S J Wang, C L Yang and L Y Zhou.....132

012018 OPEN ACCESS Development of newly enriched bread with quinoa flour and whey

D M Salazar, M Naranjo, L V Pérez, A F Valencia, L P Acurio, L M Gallegos, F C Alvarez, P I Amancha, M P Valencia, C A Rodriguez and M Y Arancibia.....142

012019 OPEN ACCESS Response surface method optimization of ectoine fermentation medium with moderate halophilic bacteria *Halomonas* sp. H02

T T Li, A Qu, X N Yuan, F X Tan, X W Li, T Wang and L H Zhang.....149

012020 OPEN ACCESS The characteristics of phosphorus adsorption and desorption in gray desert soil of Xinjiang, China

B Wang, J S Sun, H Liu and Y B Ma....157

012021 OPEN ACCESS Simultaneous determination of 9 heterocyclic aromatic amines in pork products by liquid chromatography coupled with triple quadrupole tandem mass spectrometry

X C Shen, Y L Zhang, Y Q Cui, L Y Xu, X Li and J H Qi.....167