

Joint Proceedings of the 2nd and the 3rd International Conference on Food Security Innovation (ICFSI 2018-2019)

Advances in Biological Sciences Research Volume 9

Serang, Indonesia
23 October 2018 and 9 September 2019

Editors:

**Alimuddin
Nurul Huda
Soffan Nuraji**

ISBN: 978-1-7138-2731-3

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© (2021) by Atlantis Press
All rights reserved.
Copyright for individual electronic papers remains with the authors.

For permission requests, please contact the publisher:

Atlantis Press
Amsterdam / Paris

Email: contact@atlantis-press.com

Conference Website: <http://www.atlantis-press.com/php/pub.php?publication=icfsi-19>

Printed with permission by Curran Associates, Inc. (2021)

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

SESSION: ACCOUNTING

VERMICOMPOST BIOCHEMICAL CONTENT OF DIFFERENT TYPES OF WORMS AND WASTE FEED MATERIAL.....	1
<i>Dewi Hastuti, Sri Ritawati, Eltis Panca Ningsih, Rida Oktorida Kastini</i>	
BIPLOT AND CORRELATION ANALYSIS OF 189 SUPERIOR F2 GENOTYPES CHILI-UNPAD IN INDONESIA	5
<i>Ratna Fitry, N Rostini, Hersanti, Anas</i>	
POTENTIAL CONTRIBUTION OF DARK-SEPTATE ENDOPHYTIC FUNGUS ISOLATED FROM PULAU DUA NATURE RESERVE, BANTEN ON GROWTH PROMOTION OF CHINESE CABBAGE	10
<i>Rida Oktorida Khastini, Roihatul Jannah</i>	
DETERMINING THE EFFICIENT WEIGHING AREA FOR FOOD COMMODITIES IN PORT BY DISCRETE EVENT SIMULATION.....	17
<i>Asep Ridwan, Ade Irman Saeful, Rino Emil Agusta</i>	
STATE EXCLUSIVITY OF FISHERIES RESOURCES ON EXCLUSIVE ECONOMIC ZONE IN EFFORTS TO SUPPORT THE FISHERIES AVAILABILITY AS A MEANS OF INCREASING FOOD SECURITY FOR THE STATE.....	24
<i>Belardo Prasetya Mega Jaya, Afandi Sitamala, Danial</i>	
FACTORS INFLUENCING RISK OF SHALLOT BY USING ARCH GARCH AND VAR.....	31
<i>Ratna Mega Sari, Yeni Budiawati</i>	
UTILIZATION OF LOCAL FOOD SOURCES FROM THE DAYAK ETHNICITY OF WEST KUTAI AS MONGGOMAS ANALOG RICE TO SUPPORT OF FOOD SECURITY	37
<i>Bernatal Saragih, Indah Sari Purba, Anton Rahmadi</i>	
CARBOHYDRATE OF THE BROWN SEAWEED, SACCHARINA LATISSIMA: A REVIEW	41
<i>Saifullah, Yngvar Olsen, Dini Surilayani, Aleksander Handå</i>	
THE APPLICATION OF PROBIOTIC TO INCREASE GROWTH, BODY COMPOSITION, AND FEED EFFICIENCY ON CATFISH (CLARIAS SP.).....	44
<i>Achmad Noerkhaerin Putra, Mustahal, Mas Bayu Syamsunarno, Dodi Hermawan, Muh. Herjayanto</i>	
PERCEPTION OF PALM SUGAR SMES ON E-COMMERCE IN BUSINESS DEVELOPMENT EFFORT	49
<i>Agus David Ramdansyah, Nurul Ummi, Mira Maulani Utami</i>	
DIVISION OF REGIONS IN INDONESIA THAT CAN ACHIEVE FOOD SECURITY FOR CORN.....	54
<i>Romli Ardie, Mukhtar, Cecep Anwar Hadi Firdos Santosa, Sholih, Nana Hendracipta</i>	
GENDER JUSTICE AND EQUALITY IN RICE FARMING FRIENDLY ENVIRONMENT IN REALIZING FAMILY FOOD SECURITY	61
<i>Asih Mulyaningsih, Suherna, Gugun Gunawan</i>	

EVALUATION OF THE IMPLEMENTATION OF HALAL ASSURANCE SYSTEM (HAS) - 23000 WITH ERGONOMICS AND TECHNOMETRICS APPROACHES TO THE TEMPE INDUSTRY IN CILEGON CITY	65
<i>W Susihono, H Haryanto, A Gunawan, I Istianah, S Mukarromah</i>	
PROCESSING OF MILKFISH BONE ON AL/TI/MG INTO HYBRID COMPOSITES BY SELF- PROPAGATING HIGH TEMPERATURE SYNTHESIS (SHS).....	71
<i>Agus Pramono, Akmal Faiz Fiftyandi, Fatah Sulaiman, Anistasia Milandia, Suryana</i>	
MATHEMATICAL MODELLING IN AGRICULTURAL SYSTEMS IN INDONESIA: A CASE STUDY OF MODELLING IN PREDICTING PRODUCTION AND CONSUMPTION CORN TO REACH CORN SELF-SUFFICIENCY	76
<i>Romli Ardie, Mukhtar, Cecep Anwar Hadi Firdos Santosa, Sholih, Nana Hendracipta</i>	
PROSPECTIVE STRATEGY FOR STRENGTHENING THE FISH PROCESSING INNOVATION SYSTEM IN BANTEN PROVINCE.....	86
<i>Shanti Kirana Anggraeni, M. Syamsul Maarif, Sukardi, Sapta Raharja</i>	
CHARACTERIZATION OF FLOWER AND FRUIT OF SUGAR PALM IN PANDEGELANG AND SERANG DISTRICTS, BANTEN PROVINCE	92
<i>Nurmayulis Nurmayulis, Susiyanti Susiyanti, Meilani Yusi, Ismingsih Sulastri</i>	
CONSUMER PERCEPTIONS OF SATE BANDENG ATTRIBUTES.....	98
<i>Meutia, Tubagus Ismail, Ahmad Bukhori</i>	
THE EFFECT OF CELLULOSE NANOCRYSTALLINE BLENDING TO THE MECHANICAL PROPERTIES OF COMPOSITE EDIBLE FILM (PLA/CNC).....	103
<i>Rahmayetty, Endarto Y. Wardhono, Alfirano, Nufus Kanani</i>	
DESIGN AND APPLICATION OF MILK FISH PRESERVING MACHINE USING LIQUID SMOKE METHOD TO PREVENT ROTTING FISH AND ENHANCE STORABILITY OF THE FISH	111
<i>Agung Sudrajad, Iman Saefuloh, Dhimas Satria, Haryadi Surname, Risky Abi Pangestu, Andi Abdillah</i>	
LAND SUITABILITY EVALUATION FOR PATCHOULI PLANT CULTIVATION (POGOSTEMON CABLIN BENTH) IN DRY LAND PONTANG DISTRICT, SERANG REGENCY, BANTEN PROVINCE	116
<i>Sri Ritawati, Putra Utama, Eltis, Pancaningsih, Ismawati</i>	
EARLY REPORT ON FUNGAL RHIZOSPHERE OF RICE VARIETY KEWAL BULU PUTIH OF BANTEN ORIGIN.....	122
<i>Nani Maryani, IIng Dwi Lestari, Susiyanti, Nurmayulis</i>	
STUDY OF FOOD SECURITY BASED ON EXPENDITURE HOUSEHOLD FARMERS TEA ON THE COMMUNITY PLANTATION AT CITENGAH VILLAGE, SUMEDANG SELATAN DISTRICT	125
<i>Yuliana Samantha, Ning Sri Menganti, Lilis Rosdiana Amaliah</i>	
DEVELOPING TEACHING MATERIALS OF INDONESIAN FOOD SUBTOPIC TENGGER ETHNIC CUISINE BY USING ONLINE PLATFORM MODEL AS IMPLEMENTATION OF BLENDED LEARNING AND POTENTIAL TO SUPPORT TOURISM PROMOTION OF BROMO TENGGER SEMERU NATIONAL PARK.....	131
<i>Budi Wibowotomo, Soenar Soekopitojo, Titi Mutiara, Numung Nurjanah</i>	
HAZARD ANALYSIS OF SATE BANDENG AS INDIGENOUS FOOD FROM BANTEN.....	137
<i>Dian Anggraeni, Zulfatun Najah, Winda Nurtiana, Nia Ariani Putri</i>	

THE INFLUENCE OF MAGNETIC FIELDS SUPPLY AND HYGROMYCIN CONCENTRATION TO THE OPTIMIZATION OF FOLATE GENE PUTATIVE TRANSFORMANT SELECTION IN RICE (CV. FATMAWATI)	142
<i>Susiyanti, Winda Wati, Nurmayulis Nurmayulis, Sulastri Isminingsih, Sjaifuddin Sjaifuddin</i>	
PROXIMATE ANALYSIS OF SOME LOCAL FOOD IN BADUY ETHNIC	148
<i>Fitriariany Eris, Aris Munandar, Am Kartina, Dian Anggraeni, Meutia, Taufik Hidayat, Dodi Hermawan</i>	
FERTILIZER ENCAPSULATION TO SUPPORT FOOD SECURITY: REVIEW	152
<i>Retno Sulisty Dhamar Lestari, Jayanudin</i>	
EFFECT OF SPEED SCREW PRESS EXTRUDER ON THE GRAIN CAPACITY AND SENSORY PROPERTIES OF MONGGOMAS ANALOG RICE	156
<i>Bernatal Saragih, Almasih Isa, Hudaida Syahrumsah</i>	
THE ROLE OF LEADING COMMODITIES IN AGRICULTURAL SECTOR ON SECURITY FOOD AND POVERTY AT FOOD BARN IN BANTEN PROVINCE	159
<i>Samsul Arifin, Sayifullah</i>	
THE DIVERSIFICATION USE OF MELINJO (GNETUM GNEMON) IN BANTEN LOCAL FOOD	165
<i>Evi Amelia, Indria Wahyuni, Pipit Marianingsih</i>	
SHORT-DATED PRODUCTS MARKETING STRATEGIES, ANALYTIC NETWORK PROCESS APPROACH.....	169
<i>Muhamad Taqi, Tubagus Ismai, Meutia Meutia, Sabaruddinsah Sabaruddinsah</i>	
THE ROLE OF RICE, CORN, AND SOYBEAN FARMERS HOUSEHOLDS IN BANTEN PROVINCE: GENDER PERSPECTIVE	175
<i>Asih Mulyaningsih, Aida Vitayala S Hubeis, Dwi Sadono Djoko Susanto</i>	
THE EVALUATION OF HAS-23000 IMPLEMENTATION IN SATE BANDENG INDUSTRY CERTIFIED OF HALAL	182
<i>Mirajiani, Wahyu Susihono</i>	
HALAL THAYYIB & KOSHER FOOD IN LEGAL CONCEPTUAL FRAMEWORK BASED ON SOCIAL STUDY IN INDONESIA AND AMERICA	188
<i>Ikomatussuniah, Mohammad Reevany Bin Bustami</i>	
THE EFFECT OF ADDITIONAL SLUDGE RESULTED FROM LAUNDRY WASTEWATER IN FLOCCULATION – COAGULATION WHICH USED AS MIXTURE OF PLANTING MEDIA IN THE GROWTH OF CHILI PLANTS (CAPSICUM ANNUUM L).....	195
<i>Yeyen Maryani, Daniel Baginda, Ila Nurfadilah</i>	
RASCH MODEL ON SERANG CITY’S FOOD SECURITY INSTRUMENT BASED ON MILKFISH’S STABILITY AND AVAILABILITY	202
<i>Benny Irawan, Nurul Anriani, Ahsanul Khair Asdar</i>	
EXAMINING THE ARRANGEMENT OF COMMUNITY FOOD BARNS IN TERM OF REALIZING FOOD SECURITY IN BANTEN PROVINCE ACCORDING TO LAW DEVELOPMENT THEORY PERSPECTIVE.....	205
<i>Rena Yulia, Aliyth Prakarsa, Aan Asphianto</i>	
DESIGN OF TEMPERATURE AND HUMIDITY MONITORING SYSTEM FOR DRYING AND STORAGE OF ALLIUM ASCALONICUM L. (ONION).....	210
<i>Irma Saraswati, Abdul Rahman, Heri Haryanto, Alimuddin, Untung Mardono</i>	

INFAQ AND SHODAQOH AS SELF-FINANCING SOURCES FOR INDONESIAN HALAL PRODUCTS ASSURANCE IN FOOD SECURITY: A LITERATURE STUDY	217
<i>Ikomatussuniah, Mohammad Reevany Bin Bustami</i>	
CALIFORNIA PAPAYA FRUIT MATURITY CLASSIFICATION USES LEARNING VECTOR QUANTIZATION.....	222
<i>Romi Wiryadinata, Andy A. Fatmawaty, Muhammad Saepudin, Alimuddin, Oktavia Widia Ningrum, Imamul Muttakin</i>	
POLICY ANALYSIS AND DEVELOPMENT STRATEGY OF COCOA AGRIBUSINESS IN LEBAK DISTRICT, BANTEN.....	227
<i>Andjar Astuti, Ratna Mega Sari</i>	
HOW IMPACT EXCHANGE RATE TO PROCESSED FOOD INDUSTRY IN INDONESIA.....	232
<i>Indra Suhendra, Navik Istikomah</i>	
THE EFFECTS OF ZEOLITE-BASED SLOW-RELEASE NITROGEN FERTILIZER AND SULFUR ON THE DYNAMICS OF N,P,K, AND S SOIL NUTRIENTS, GROWTH AND YIELD OF SHALLOT (ALLIUM CEPA L.)	235
<i>Kharisun, Mochammad Nazarudin Budiono, Muhammad Rif'An</i>	
IDENTIFICATION OF MACRO ELEMENTS (SUCROSE, GLUCOSE AND FRUCTOSE) AND MICRO ELEMENTS (METAL MINERALS) IN THE PRODUCTS OF PALM SUGAR, COCONUT SUGAR AND SUGAR CANE	240
<i>Yeyen Maryani, Agus Rochmat, Rida Oktorida Khastini, Teguh Kurniawan, Irma Saraswati</i>	
SMALL PELAGIS FISHERIES PRODUCTIVITY IN COAST OF THE SUNDA STRAIT OF BANTEN PROVINCE.....	244
<i>Ririn Irnawati, Hery Sutrawan Nurdin, Adi Susanto, Fahresa Nugraheni Supadminingsih, Dini Surilayani, Asep Hamzah</i>	
CONCEPTUAL UNDERSTANDING OF FOOD SECURITY OF HIGHER EDUCATION STUDENT IN BANTEN PROVINCE.....	247
<i>Heni Pujiastuti, Rudi Haryadi</i>	
ANALYSIS AND EVALUATION OF THE POLITICAL IMPLEMENTATION OF LAND AGAINST SUSTAINABLE FOOD SECURITY IN INDONESIA (ISLAMIC ECONOMIC APPROACH)	251
<i>Hady Sutjipto, Tubagus Ismail</i>	
ZEOLITE AND ACTIVE CARBON ADDITION ON CLOSED SYSTEM TRANSPORTATION FOR MILKFISH JUVENILE (CHANOS CHANOS) SURVIVAL RATE	257
<i>Mustahal, Forcep Rio Indaryanto, Deri Hermawan, Mas Bayu Syamsunarno</i>	
MONITORING SYSTEM OF HUMIDITY ENVIRONMENTAL ON CHILLI RED GREEN HOUSE AEROPONIC SYSTEM	261
<i>Alimuddin, Dwi Rahmat Aryanto, Dewa Made Subrata, Rida Oktorida Khastini, Nurmayulis, Ria Arafiyah, Irma Saraswati</i>	
GAME MEDIA DESIGN FOR STUDENTS' BANTEN LOCAL FOOD KNOWLEDGE.....	265
<i>Hepsi Nindiasari, Nurhaidah Gailea, Novaliyosi, Pipit Marianingsih, Ayrin</i>	
DEFINING INDONESIAN AND AFRICAN SMALL-HOLDER FARMERS' CLIMATE CHANGE ADAPTIVE CAPACITY AND PRACTICES: A BRIEF ARGUMENT	271
<i>Kurniawati, Nia Kania, Luvhengo, Usapfa</i>	

MAPPING OF PROCESSED FOOD PRODUCT INNOVATION ON SMALL AND MEDIUM ENTERPRISES IN BANTEN.....	277
<i>Fauji Sanusi, Gerry Ganika Koswara</i>	
STUDY OF SOIL FERTILITY STATUS IN SOME USE OF RUBBER PLANT LAND IN PANDEGLANG AND LEBAK REGENCIES, BANTEN PROVINCE	284
<i>Andi Apriany Fatmawati, Nuniek Hermita, Aris Munandar, Mas Bayu Syamsunarno, Dodi Hermawan, Lukman Anugrah Agung, Achmad Noerkhaerin Putra</i>	
RISK PREFERENCE OF PALM SUGAR CRAFTSMAN IN LEBAK REGENCY, BANTEN.....	287
<i>Andjar Astuti, Ratna Mega Sari, Suherman, Asih Mulyaningsih, Setiawan Sariyoga</i>	
COMMUNITY EMPOWERMENT AND SOCIAL MEDIA MODELS AS MARKETING COMMUNICATION INNOVATIONS FOR LOCAL CULINARY PRODUCTS IN SERANG, INDONESIA	291
<i>Nurprapti Wahyu Widyastuti, Abdelrahman Ali, Rahmi Winangsih, Hidayatullah Haila</i>	
MINERAL CONTENTS OF SEVERAL INDONESIAN RICE VARIETIES	298
<i>Susiyanti Susiyanti, Nurmayulis Nurmayulis, Sulastris Isminingsih, Rahmayety Rahmayety, Yeyen Maryani, Suseno Amin</i>	
INVESTIGATION OF THE MILKFISH (CHANOS CHANOS SP) FRESHNESS BY INFRARED SPECTROSCOPY	303
<i>Yus Rama Denny, Untung Yudho Prakoso, Endi Permata, Am Kartina, Teguh Firmansyah</i>	
UTILIZATION OF MILKFISH IN MAKING OF ULI, LOCAL FOOD OF BADUY TRIBE	308
<i>Fitria Riany Eris, Dian Anggraeni, Aris Munandar, Meutia, Am Kartina</i>	

Author Index