



Project Implementatin Unit  
Islamic Development Bank  
Universitas Sultan Ageng Tirtayasa



International Conference on  
*Food Security Innovation*  
2019

# Conference Programs and Abstract

## The 3<sup>rd</sup> ICFSI 2019

**"Rethinking Sustainable Development Goals, Climate Changes,  
Agriculture, Maritime, Plantation, and Local Resources  
Empowerment for Global Food Innovation"**

Le Dian Hotel, Serang - Banten  
September 9<sup>th</sup>, 2019



# **ABSTRAK AND PROGRAM BOOK**

**3<sup>rd</sup> International Conference on  
Food Security Innovation  
(ICFSI 2019)**

**9<sup>th</sup> September, 2019  
Le Dian Hotel  
Serang – Banten, Indonesia**

**Supported :**





## Table of Content

Welcome Speech from Rector University of Sultan Ageng Tirtayasa

Reports the Committee

Table of Content

Conference Program

Parralel Session Schedule

Technical Programs

Islamic Development Bank – Research Consortia

Abstracts







## CONFERENCE PROGRAM

<b>Monday, 9 September 2019</b>	
07.30 – 08.30	<b>Registration desk</b> : Registration
08.30 – 09.30	<b>Main hall</b> : Opening Ceremony <ol style="list-style-type: none"> <li>1. Opening Dance (Sendratasik Dancer) and Opening Song (Choir Performance from SMPN 10 Kota Serang)</li> <li>2. Opening by Master of Ceremony</li> <li>3. Singing National Anthem “Indonesia Raya”</li> <li>4. Doa</li> <li>5. Welcoming Speech from Director Executive Project Implementation Unit IDB (Dr. Eng. Agung Sudrajad)</li> <li>6. Welcoming Speech from Rector University of Sultan Ageng Tirtayasa (Dr. Ir. Fatah Sulaiman, ST., MT)</li> <li>7. Special gift :               <ul style="list-style-type: none"> <li>▪ All keynoted by Rector of University of Sultan Ageng Tirtayasa</li> <li>▪ All invited speaker by Director Executive Project Implementation Unit Islamic Development Bank</li> </ul> </li> <li>8. Photo session</li> </ol>
09.30 – 10.00	Coffee/Tea Break
10.00 – 12.00	<b>Main hall</b> : Plenary 1 Keynote Speech <ol style="list-style-type: none"> <li>1. Prof. Janet McIntyre – Mills (Flinder University – Australia)</li> <li>2. Prof. Yutaka Kitamura, Ph.D (University of Tsukuba – Japan)</li> <li>3. Prof. Nazamid Saari, Ph.D (Universiti Putra Malaysia – Malaysia)</li> <li>4. Prof. Dr. Ir. Umar Santoso, M.Sc (Ketua Perhimpunan Ahli Teknologi Pangan / Universitas Gadjah Mada - Indonesia)</li> <li>5. Dr. rer. Nat. Ir. Suseno Amien (Director Executive Project Management Unit Islamic Development Bank / Universitas Jenderal Soedirman - Indonesia)</li> <li>6. Dr. Rida Oktorida Khastini, M.Si (Indonesia Center of Excellence for Food Security / University of Sultan Ageng Tirtayasa – Indonesia)</li> </ol> <p><b>Moderator</b> : Riswanda, Ph.D (University of Sultan Ageng Tirtayasa)</p>

12.00 – 13.00	Lunch Break			
13.00 – 14.00	<b>Main hall</b> : Plenary 2 Invited Speech 1. Dr. Alimuddin, ST., MM., MT (Universitas Sultan Ageng Tirtayasa) 2. Prof. Dr. Yuli Witono, STP., MP (Universitas Negeri Jember) 3. Sulistyo Prabowo, STP., MP., MPH, Ph.D (Universitas Mulawarman) 4. Dr. Nunung Nurjanah, M.Kes (Universitas Negeri Malang)  <b>Moderator</b> : Nani Maryani, Ph.D (University of Sultan Ageng Tirtayasa)			
14.00 – 14.30	Coffee/Tea Break			
14.30 – 17.00	Parallel Session			
	<b>Room 1 :</b> <b>Moderator</b> <b>(Ratna Mega Sari,</b> <b>S.E., M.Si.)</b>	<b>Room 2 :</b> <b>Moderator</b> <b>(Zulfatun</b> <b>Najah, S.TP.,</b> <b>M.Si.)</b>	<b>Room 3 :</b> <b>Moderator</b> <b>(Dr. Rd. Nia</b> <b>Kania</b> <b>Kurniawati,</b> <b>M.Si.)</b>	<b>Room 4 :</b> <b>Moderator</b> <b>(Dr. Heni</b> <b>Pujiastuti, M.Pd.)</b>

## Parallel Session Schedule

ROOM 1	
(Time : 14.30 – 17.00)	
Paper	Author
<b>ABS – 02</b>	Enos Arung, Swandari Swandari Paramita, Yadi, Sukemi and Nataniel Tandirogang
<b>ABS – 03</b>	Dian Anggraeni, Zulfatun Najah, Winda Nurtiana and Nia Ariani Putri
<b>ABS – 17</b>	Dewi Hastuti, Sri Ritawati, Eltis Panca Ningsih, and Rida Oktorida Kastini
<b>ABS – 18</b>	Ririn Imawati, Adi Susanto, Dini Surilayani, Hery S. Nurdin, Fahresa Nugraheni, and Asep Hamzah
<b>ABS – 20</b>	Susi Indriani, C. Hanny Wijaya, Suci Chaerunnisa, and Min Rahminiwati
<b>ABS – 29</b>	Achmad Noerkhaerin Putra, Mustahal Mustahal, Mas Bayu Syamsunarno, Dodi Hermawan and Muh. Herjayanto
<b>ABS – 33</b>	Herlina, Nita Kuswardhani, Sih Yuwanti and Fina Faradhilla
<b>ABS – 37</b>	Fitria Riany Eris, Aris Munandar, Kartina AM, Dian Anggraeni and Meutia
<b>ABS – 38</b>	A Pramono, Fatah Sulaiman, Af Fiftyandi, Suryana and A Milandia

<b>ABS – 41</b>	Yus Rama Denny, Endi Permata, Teguh Firmansyah, Erfan Handoko, Ali Alhamidi and Kartina Am
<b>ABS – 43</b>	Agung Sudrajad, Iman Saefuloh and Dhimas Satria
<b>ABS – 51</b>	Meri Yulfiati

**ROOM 2****(Time : 14.30 – 17.00)**

<b>Paper</b>	<b>Author</b>
<b>ABS – 04</b>	Evi Amelia, Indria Wahyuni and Pipit Marianingsih
<b>ABS – 12</b>	Chatarina Wariyah, Riyanto and Bayu Kanetro
<b>ABS – 13</b>	Susiyanti, Nurmayulis, Winda Wati, Sjaifuddin, and Sulastris Isminingsih
<b>ABS – 19</b>	Nurmayulis, Yusi Meilani, Sulastris Isminingsih, and Susiyanti
<b>ABS – 21</b>	Sri Agustina, Rahmayetti, Endarto Yudo Wardhono, and Hadi Wahyudi
<b>ABS – 25</b>	Bernatal Saragih, Almasih Isa and Hudaida Syahrumsyah
<b>ABS – 28</b>	Iling Dwi Lestari, Nani Maryani, Susiyanti, and Nurmayulis
<b>ABS – 30</b>	Romi Wiryadinata, Muhammad Saepudin, Andy Apriany Fatmawaty, Alimuddin Alimuddin, Imamul Muttakin and Oktavia Widia Ningrum
<b>ABS – 31</b>	Yeyen Maryani, Teguh Kumiawan and Agus Rochmat
<b>ABS – 39</b>	Jayanudin and Retno Sulisty D Lestari
<b>ABS – 40</b>	Kharisun, Mochamad Nazarudin Budiono and Mohammad Rifan
<b>ABS – 48</b>	Muhammad Fakhuriza Pradana and Bernd Notche
<b>ABS – 50</b>	Abdul Aziz

**ROOM 3****(Time : 14.30 – 17.00)**

<b>Paper</b>	<b>Author</b>
<b>ABS – 01</b>	Suherna, Gugun Gunawan and Asih Mulyaningsih
<b>ABS – 05</b>	Belardo Prasetya Mega Jaya, Afandi Sitamala and Danial
<b>ABS – 07</b>	Rani Sri Agustina and Ferina Ardhi Cahyani
<b>ABS – 09</b>	Gilang Ramadhan, Abdul Hamid, M. Dian Hikmawan, Yeby Ma'Asan Mayrudin and Bayu Nurrohman
<b>ABS – 10</b>	Muhamad Muslih and Palmawati Tahir
<b>ABS – 11</b>	Andjar Astuti and Ratna Mega Sari
<b>ABS – 16</b>	Lia Uzliawati, Nuniek Hermita, and Ari Tresna

<b>ABS – 22</b>	Heni Pujiastuti and Rudi Haryadi
<b>ABS – 42</b>	Wahyu Susihono, Akbar Gunawan, Syifa Mukarromah and Hery Haryanto
<b>ABS – 49</b>	Mukhtar Eri Suhaeri, Madjid Khan Majahar Ali, Mohd. Tahir Ismail, and Alimuddin

<b>ROOM 4</b> <b>(Time : 14.30 – 17.00)</b>	
<b>Paper</b>	<b>Author</b>
<b>ABS – 06</b>	Rena Yulia, Aliyth Prakarsa and Aan Asphianto
<b>ABS – 08</b>	Yearry Setianto, Puspita Asri Praceka and Uliviana Restu Handaningtias
<b>ABS – 14</b>	Agus David Ramdansyah, Munawar Muchlish, and Stannia Cahaya Suci
<b>ABS – 23</b>	Muhamad Taqi, Tubagus Ismail, Meutia Meutia and Sabaruddinsah
<b>ABS – 27</b>	Nia Kania Kurniawati, Usapfa Luvhengo
<b>ABS – 32</b>	Rangga Galura Gumelar, Syihabudin Syihabudin and Iman Mukhroman
<b>ABS – 44</b>	Benny Irawan, Nurul Anriani and Ahsanul Khair Asdar
<b>ABS – 45</b>	Ikomatussuniah and Mohammad Reevany Bustami
<b>ABS – 53</b>	Mirajiani

## **Poster Presentation**

<b>ROOM 1</b>	
<b>Paper</b>	<b>Author</b>
<b>ABS – 20</b>	Susi Indriani, C. Hanny Wijaya, Suci Chaerunnisa, and Min Rahminiwati





# TECHNICAL PROGRAMS

## Keynote Speaker

1. Professor. Janet McIntyre – Mills  
Flinder University – Australia
  2. Professor. Yutaka Kitamura, Ph.D  
Tsukuba University - Japan
  3. Professor. Nazamid Saari, Ph.D  
Universiti Putra Malaysia – Malaysia
  4. Professor. Dr. Ir. Umar Santoso, M.Sc  
Ketua Perhimpunan Ahli Teknologi Pangan / Universitas Gadjah  
Mada - Indonesia
  5. Dr. rer. Nat. Ir. Suseno Amien  
Director Executive Project Management Unit Islamic  
Development Bank / Universitas Padjadjaran - Indonesia
  6. Dr. Rida Oktorida Khastini, M.Si  
Indonesia Center of Excellence for Food Security / University of  
Sultan Ageng Tirtayasa – Indonesia
- 

## Oral Presentation

### **(ABS – 01) Gender Justice and Equality in Rice Farming Friendly Environment in Realizing Family Food Security**

Asih Mulyaningsih, Suherma, and Gugun Gunawan (Universitas Sultan Ageng Tirtayasa)

The purpose of this study was to analyze justice and gender equality in environmentally friendly lowland rice farming in realizing family food security in Banten Province. The research method is a survey with research design is descriptive that takes samples in one population using questionnaires as a data collection tool. The study was conducted for three months from April to June 2019. The research sites were in three districts in Banten Province, namely Serang Regency, Pandeglang Regency, and Lebak Regency. The number of samples in the study were 160 lowland rice farmer families (husband and wife). Data analysis uses gender equality and equity indexes. The results showed that access and control in farming activities were dominated by male farmers such as: land management, fertilization, pest and disease control, and marketing was dominated by male farmers while female farmers dominated in the nursery and maintenance stages. Planting and harvesting is done jointly between male and female farmers. Here we see the division of labor between male farmers and female farmers, where male farmers work on farming activities that rely on physical strength while female farmers get a division of labor that requires perseverance such as nursery and maintenance. The conclusion is that to realize justice and gender equality of eco-friendly rice farmers to achieve sustainable food security, of course, it must be supported by all parties, both government and farmers.

### **(ABS – 02) Potency of Stingless Bee (*Homotrigona fimbriata*) Honey as anti Cancer**

Enos Arung, Swandari Swandari Paramita, Yadi, Sukemi and Nataniel Tandirogang (Mulawarman University)

The study objective is to obtain medicine and cosmetic materials from tropical rain forests resources, especially from non-timber forest products, such honey and its derivatives namely propolis and bee pollen. The Stingless bee (*Homotrigona fimbriata*) produced honey, propolis and bee pollen. The honey by in vitro have an effect to kill cancer cells. The results in MTT assay showed cytotoxicity effect of *Homotrigona fimbriata* honey in some cancer cells. These findings showed the potential of this honey for cancer treatment but need further experiment to be done.

### **(ABS – 03) Hazard Analysis of Sate Bandeng Processing as Indigenous Food from Banten**

Dian Anggraeni, Zulfatun Najah, Winda Nurtiana and Nia Ariani Putri (Universitas Sultan Ageng Tirtayasa)

Sate bandeng is indigenous food from Banten Province and produced by SMEs (small and medium enterprises). The market of sate bandeng is not yet wide because it has short shelf life about two days only. The short shelf life of sate bandeng because it is made from coconut milk and their standard processing method is not good yet. The quality standard of processing sate bandeng in SMEs can be improved through implementation of quality assurance. The quality assurance was applied by identification of hazards, assessing of the risks, and control of hazard. The aim of this study was to analyze hazards on all production steps of sate bandeng and to design the control of production process from raw material until packaging in the SMEs. The research method was conducted by interview, observation, analyze all hazards in raw material and production steps like chemical, physical, and microbiological hazard. Based on observation and hazard analysis, the SME's quality control worker needs to be established. There are ten processes that consider as hazard potential, there are water source, removing of fish scales, pulling out of fish spine, washing fish skin, filleting, removing of smooth fish bone, meat mincing, mixing with seasoning, grilling, and packaging. The critical point are water source, washing fish skin, and grilling.



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