

# ABSTRACT BOOK and SEMINAR PROGRAM

## 3<sup>rd</sup> ICBEAU

International Conference of Bio-Based Economy  
for Application and Utilization

in conjunction with

## 1<sup>st</sup> ICoMSB

International Conference of Medical Science  
and Biotechnology

Via Zoom Meeting on November 10<sup>th</sup>, 2021

## Welcome Address by The Head of LPPM in Andalas University

Assalamu'alaikum wr. wb,

Good morning to all of you.

Dear respected keynote speakers,

Members of the organizing committee,

Dear participants and observers,

Distinguished guests, respected colleagues, ladies, and gentlemen.

We are very happy to welcome all participants of the International Conference on Bio-Based Economy for Application and Utilization (ICBEAU-2021). This year's conference collaborates with the Faculty of Medicine, 1st International Conference in Medical Science and Biotechnology (ICoMSB). This conference has a very strategic position in responding the global development.

Need on an agricultural product is not dominated currently in food aspect, but is becoming more broadly to the new aspect beyond the food. Fossil-based energy currently contributed to many pollution issues in the whole of the world, besides its existence which is scarce in the future. Drug development, based on synthetic chemicals and materials is believed and regarded to play a significant role in the occurring of new health problems and diseases. For that reason, a shift in medical treatment back to nature is becoming a trend nowadays. The pandemic of CoVid-19 switches medical science to explore more on the role of genomics in virulence and diseases, further the science in medical biotechnology and vaccine development is needed. This ICBEAU-2021 in conjunction with ICoMSB, should have a very significant impact on the above-mentioned issues.

Respected Ladies and Gentlemen,

As the Head of LPPM at Andalas University, I personally very much support this event. We thank all parties supporting and contributing to implementing this International Conference. Especially I would like to thank all keynote speakers who responded positively to our request to share their insight, experience, and expertise in this conference.

- Prof. Prashanta CN, REVA University, India.
- Assoc.Prof. Dr. Pasupuleti Visweswara Rao, Universiti Malaysia Sabah, Malaysia.
- Gunadi, MD, Ph.D, Pediatric Surgeon, Gadjah Mada University, Indonesia.

- Dr. Zolkapli Eshak, Universiti Teknologi Mara, Malaysia.
- Rauza Sukma Rita, MD, Ph.D, Andalas University, Indonesia.
- Asst. Prof. Dr. Sutthiwal SETHA, Mae Fah Luang University, Thailand.

Finally, I would like to congratulate the organizing committee for their tremendous efforts in organizing the conference.

Success for all of us,

Head of the LPPM in Andalas University,  
Dr.-Ing. Ir. Uyung Gatot Syafrawi Dinata, M.T.



## Welcoming Speech of The Committee's Chairman

Good morning, ladies and gentlemen,

On behalf of the committee, first of all let me welcome you and express our great thanks for participating in this 3<sup>rd</sup> International Conference of Bio-Based Economy for Application and Utilization 2021 (ICBEAU-2021). This year ICBEAU 2021 collaborate with Faculty of Medicine, Andalas University, 1<sup>st</sup> International Conference of Medical Science and Biotechnology. Thus, our conference theme is “Biotechnology for Better Life”.

Nowadays, we are still facing the CoVID-19 pandemic issue, which is significantly impact our activities and thus also our lifestyle as well. However, this situation on the other side, provide many opportunities particularly in the application and utilization of bio-based drugs and materials. Medical Science and medical biotechnology also has a great advancement and innovations to overcome this situation, especially in genomics and vaccine development. In this context, this seminar event should meet its relevancies and urgencies.

Dear honored participants,

In this opportunity let me sound my great thanks to all parties involving and contributing to the implementation of this seminar. Special thanks to our respected keynote speakers; Assc. Professor Prashanta CN from Reva University, India; dr, Rauza Sukma Rita, Ph.D from Andalas University; Assoc. Prof Dr Pasupuleti Visweswara Rao from Universiti Malaysia Sabah, Malaysia; Asst Prof Sutthiwal Setha, Ph D, from Mae Fah Luang University, Thailand, Dr. Zolkapli Eshak from Universiti Teknologi Mara, Malaysia, and dr. Gunadi, Ph.D, Sp.BA from Gadjah Mada University, for their collaboration and their kindness to share their experience and their expertise in this forum.

Many, many thanks also addressed to the Rector of Andalas University and head of Institution of Research and Community Service of Andalas University, Dr. Uyung Gatot, Director of Graduate School of Andlas University, Professor Dr.rer.soz.Nusyirwan Effendi, also all parties and valuable participants that could not be mentioned in this opportunity. Finally, we hope this seminar could bring a significant impact and contribution to the future application and utilization of Bio-Based economy.

Regards,

Chairman of the Committee  
Hirowati Ali, MD, Ph.D



**The Committee Structure of**

**3<sup>rd</sup> International Conference of Bio-based Economy for Application and Utilization 2021**

in conjunction with

**1<sup>st</sup> International Conference of Medical Sciences and Biotechnology**

Date: November 10<sup>th</sup>, 2021

**STEERING COMMITTEE**

Rector of Andalas University

Head Of Research And Public Service Institution, Andalas University

Dean of Faculty of Medicine, Andalas University

**CONFERENCE COMMITTEE**

**Head of Committee**

Hirowati Ali, M.D, Ph.D

**Secretariate**

Lily Syukriani, S.P., M.P.

Sisca Dwi Yarni, S.Si., M.Biotek.

Liza Aulia Yusfi, S.Si., M.Biotek.

Rahmi Hidayati, S.P., M.Biotek.

Dohan Pramudia

Suhada Tri Marneli

Nicholas Farrell Wijaya

**Treasury**

Roza Yunita, S.P., M.Si.



### **Event Coordinator**

Bastian Nova, S.Si., M.Biotek.

Robi Trivano, S.P.

Oliviana Evricia

Amalia Azizah

Yuanda Barta, S.E.

Irnaldi Yusuf, S. Kom.

### **Master of Ceremony**

Aisyah Salsabilla, S.P.

Muhammad Irsyad

### **Keynote Speaker**

Prof. Prashanta CN, REVA University, India

Assoc.Prof. Dr. Pasupuleti Visweswara Rao, Universiti Malaysia Sabah, Malaysia

Gunadi, MD, Ph.D, Pediatric Surgeon, Gadjah Mada University, Indonesia

Dr. Zolkapli Eshak, Universiti Teknologi Mara, Malaysia

Rauza Sukma Rita, MD, Ph.D, Andalas University, Indonesia

Asst. Prof. Dr. Sutthiwal Setha, Mae Fah Luang University, Thailand

### **Moderator on Panel Session of Keynote Speaker**

Prof. Dr. sc. agr. Ir. Jamsari, M.P.

dr. Mutia Lailani, M.Sc.

### **Parallel Session Moderator**

Dr. Raudhatul Fatiah, S.P., M.Biotek.

dr. Al Hafiz, Sp. THT-KL

Dr. My. Syahrawati, SP. M.Si

Dr. Ir. Irawati, M.Rur.Sc.

Maythesya Oktavioni, S.P., M.Biotek.

Dr. P.K. Dewi Hayati, SP., M.Si.

**Conference Academic Editor**

Prof. Dr.sc.agr. Ir. Jamsari, MP

Prof. Irfan Suliansyah

Prof. Akmal Djamaan

Dr. Djong Hon Tjong, MSi.

dr. Mutia Lailani, M.Sc

Dr. Dessy Arisanty, MSc.

dr. Al Hafiz, Sp.THT-KL

**Conference Editor**

Bastian Nova, SSi., M. Biotek.

Maythesya Oktavioni, S.P., M. Biotek.



## SCHEDULE

### **3<sup>rd</sup> International Conference of Bio-Based Economy for Application and Utilization in Conjunction with**

### **1<sup>st</sup> International Conference of Medical Sciences and Biotechnology**

Wednesday, 10<sup>nd</sup> November 2021

via Zoom, Meeting - ID: 685 343 6245, Passcode: UNAND

Time	Event	PIC
07.45-08.00	Log in zoom	IT
08.00-08.02	Opening ceremony	MC
08.02-08.05	Singing National Anthem “Indonesia Raya”	Recorded Song/IT
08.05-08.15	Opening Speech from the Head of LPPM Andalas University	Dr. Uyung Gatot
08.15-08.25	Opening Speech from the Director of Postgraduate Program of Andalas University	Prof. Nursyirwan Effendi
08.25-08.35	Opening Speech from the Dean of Medical Faculty of Andalas University	Dr. Afriwardi
08.35-08.45	Welcoming Video of ICBEAU 2020	IT Team
	<b>Keynote speech (1<sup>st</sup> Panel discussion)</b>	
08.45-10.15	<ol style="list-style-type: none"> <li>1. Assoc. Prof. Dr. Pasupuleti Visweswara Rao (Medicinal plants &amp; Bio Nanoparticles for oxidative stress and metabolic diseases)</li> <li>2. Asst. Prof. Dr. Sutthiwal Setha (From Agro-Technology to Agro-Industry: A Case Study in ‘Phulae’ Pineapple)</li> <li>3. Dr.Zolkapli Eshak (Effect of Malaysian Pineapple Honey on Weight Loss, Control, and Prevention In Vitro and In Vivo Models)</li> </ol>	Prof. Jamsari
	<i>Appreciation and Photo Session</i>	MC

10.15-10.25	Introduction of Unand	IT
	<b>Keynote speech (2<sup>nd</sup> Panel discussion)</b>	
10.25-11.55	<ol style="list-style-type: none"> <li>1. Gunadi, MD, Ph.D, Pediatric Surgeon (The Role of Genomics During Covid-19 Pandemic)</li> <li>2. Assoc. Prof. Prashanta CN, Ph.D (Pharmacogenomic Approaches towards Personalized Medicine)</li> <li>3. Rauza Sukma Rita, MD, Ph.D (Islet Isolation and Primary <math>\beta</math>-Cell Culture Techniques to Study Diabetes)</li> </ol>	dr. Mutia
	<i>Appreciation and Photo Session</i>	MC/IT
11.55-12.15	Direction to joint seminar room	IT
12.15-13.00	Break	Committee
13.00-13.30	Log in Parallel Session	IT
13.30-16.00	<ul style="list-style-type: none"> <li>• Room A1: Biomedical Science, Nutraceutical, and Drug Developments - Re-emerging Infectious Diseases - Public Health, Midwifery, and Psychology Issue - Biomedical Sciences and Bioinformatics (Dr. Raudhatul Fatiah, S.P., M.Biotek. - Yuanda Barta, SE)</li> <li>• Room A2 : Biomedical Science, Nutraceutical, and Drug Developments - Cancer, Aging, and Degenerative Diseases - Biomedical Engineering and Bioremediation - Biodiversity and Microbiology (dr. Al Hafiz, Sp. THT-KL - Irnaldi Yusuf, S.Kom.)</li> <li>• Room B1 : Natural Resources, Agriculture, and Food Technology - Biodiversity and Microbiology (Dr. My. Syahrawati, SP. M.Si - Oliviana Evricia)</li> </ul>	IT/Room Coordinator

	<ul style="list-style-type: none"> <li>• Room B2 : Natural Resources, Agriculture, and Food Technology - Biodiversity and Microbiology (Dr. Ir. Irawati, M.Rur.Sc.- Amalia Azizah)</li>   <li>• Room C1 : Natural Resources, Agriculture, and Food Technology - Biodiversity and Microbiology (Maythesya Oktavioni, S.P., M. Biotek. - Muhammad Irsyad)</li>   <li>• Room C2 : Natural Resources, Agriculture, and Food Technology - Biodiversity and Microbiology (Dr. P.K. Dewi Hayati, SP., M.Si. - Suhada Tri Marneli)</li> </ul>	
16.00-16.20	Break	
16.20-17.00	<p>Closing Ceremony</p> <ol style="list-style-type: none"> <li>1. Best Presenter Announcements</li> <li>2. Closing Speech from Chief of Committee</li> </ol>	MC/ Chief of Committee

# **ABSTRACT OF KEYNOTE SPEAKERS**

## **Keynote Talk: Medicinal plants & Bio Nanoparticles for oxidative stress and metabolic diseases**

**Assoc Prof Dr Pasupuleti Visweswara Rao**

Research Coordinator, Head, Non-Communicable Diseases Research Niche Areas & Head of Internationalisation unit, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Universiti Malaysia Sabah, Kota Kinabalu, 88400, Sabah, Malaysia



### **Abstract**

Medicinal plants and herbs play an important role in human life and diseases. Medicinal plants and their extracts are being used since ages for various types of diseases. The isolated compounds from different plant species play very crucial role in treating numerous diseases including microbial diseases, inflammatory diseases, metabolic disorders, skin diseases etc. The modern technology using synthesis of nanoparticles using plant materials is now a booming field of research, where the synthesis occurs with the bio reductants and the nanoparticles are potential in treating various diseases and complications too. The most important components in the plants are secondary metabolites which acts as antioxidants and thereby playing their role in suppressing the free radicals or external particles entered the cells or tissues. These biologically synthesised nanoparticles with the smaller size perform larger activities at the cellular level. Natural products are always better since they possess very little or no toxic compounds. Testing the toxicity of the nanoparticles and the crude extracts is very important to apply these nanoparticles in the environment, human, plant or animal related issues.

**Keywords:** Natural Products, Medicinal plants, Metabolic diseases, herbal medicine, nanoparticles.

## **Keynote Talk: From Agro-Technology to Agro-Industry, A Case Study in 'Phulae' Pineapple**

**Assistant Professor Sutthiwal Seta, PhD**

School of Agro-Industry, Mae Fah Luang University, Chiang Rai 57100, Thailand; Research Group of Postharvest Technology, Mae Fah Luang University; E-mail; [sutthiwal.set@mfu.ac.th](mailto:sutthiwal.set@mfu.ac.th)



### **Abstract**

Pineapple 'Phulae' is an important economic crop and is considered a geographical indication of Chiang Rai Province, Thailand. It is suitable for consumption in fresh form due to its unique appearance and taste, as well as its high nutritional content. Although 'Phulae' pineapple is popular among consumers and has the potential to be exported to the international market, it is limited by its short self-life. Therefore, developing technologies to maintain the quality for export of 'Phulae' pineapple is extremely important to increase the number of fresh pineapples exported. Pineapple also has potential in the fresh-cut pineapple market due to its valued sensory attributes and demand for immediate consumption. The advantages of the fresh-cut process are lower transportation costs and problems with the internal quality of the fresh product. However, peeling, trimming or cutting injure the product, stimulate metabolism and initiate the growth of microorganisms, resulting in rapid spoilage. The application of postharvest treatments to the quality and safety of fresh cut 'phulae' has been developed. In recent years, increasing pineapple production has resulted in oversupply and lower prices. Processed pineapple is one way to increase the value of pineapple. High hydrostatic pressure (HHP) processing, a cold pasteurization process, has been applied to maintain the nutritional quality and shelf life of pineapple juice. HHP treatment was able to obtain higher nutritional value and more antioxidants than heat-treated pineapple juice. As the processed pineapple industry has huge number of by-products (30-50%) which are generally undervalued. The utilization of pineapple by-products as functional ingredients for food and feed is also being explored.

**Keywords:** pineapple, postharvest technology, fresh-cut process, high hydrostatic pressure, waste utilization.

## **Keynote Talk: Effect of Malaysian Pineapple Honey on Weight Loss, Control, And Prevention In Vitro And In Vivo Models**

**Dr. Zolkapli Eshak**

Universiti Teknologi Mara, Malaysia



### **Abstract**

Obesity is a global issue that can lead to chronic diseases. Honey is one of the nutrients that help manage weight. This study used in vivo and in vitro models to assess pineapple honey's anti-obesity effects. An initial screening of chosen honey such Gelam, Acacia pineapple and two adulterated honey was conducted. Gelam honey had the highest phenolic component and flavonoid concentration, followed by pineapple honey. Sugar profiles, HMF, and glucose oxidase activity of adulterated honey A and B did not meet IHC Honey Board quality criteria. On the other hand, the effect of honey on cell proliferation, adipogenesis, and adipocytokines was studied in vitro for 24, 48, and 72 hours. The MTT assay was used to assess cell proliferation, followed by oil red O staining to assess lipid triglyceride, adipogenesis, and Feret's diameter. Gelam, Acacia, and pineapple honey suppressed adipogenesis in 3T3-L1 adipocytes by lowering lipid accumulation, Feret diameter, and intracellular triglyceride content. Also, Gelam, Acacia, and Pineapple Honeys reduced leptin and resistin levels. The results suggested honey may help prevent obesity by modulating adipocytokines involved in adipogenesis.

The effects of honey on obesity were studied in Sprague Dawley rats fed hypercaloric or hyperlipidemic diets. For eight weeks, rats were fed a 45% fat high-fat diet (HFD). Anthropometrical, biochemical, and obesogenic data were assessed. After eight weeks, all high-fat diet groups became obese. In vivo research found that obese rats fed pineapple honey had significantly lower weight gain, BMI, lipids, glucose, plasma leptin, and resistin. The study also found that obese rats given adulterated honey gained weight and adiposity index compared to the NC group. Compared to the HFD group, the HFDPH AND orlistat group showed a 4% decrease in adiposity index.



Furthermore, lipids, cholesterol, and glucose levels were considerably lower than HFD and both adulterated honey groups (FHA and FHB). The study found that rats fed pineapple honey and orlistat had lower levels of leptin ( $p < 0.05$ ). The HFDPH group had slightly less aberrant changes than the HFD group but was not significantly different from the NC group.

In conclusion, honey may reduce obesity-related parameters in cell culture and animal models while also regulating adipocytokine production to counteract the effects of a high-fat diet. Honey modulates lipid metabolism by reducing plasma leptin and resistin levels in obese rats. Thus, it may indirectly promote lipolysis by reducing the physical barrier protection of lipid droplets, preventing fat buildup in cells.

## **Keynote Talk: Pharmacogenomic approaches towards personalized medicine**

**Prashantha CN**

Assistant Professor, Department of Biotechnology, School of Applied Sciences, REVA University, Bangalore-560064.

Email: prashantha.cn@reva.edu.in;

Mobile: +91-9844158444



### **Abstract**

Pharmacogenomics is an important example of the field of precision medicine, which aims to tailor medical treatment to each person or to a group of people. Pharmacogenomic approaches help to understand how the patient DNA affects the way they respond to drugs. When a gene variant is associated with a particular drug response in a patient, there is the potential for making clinical decisions based on genetics by adjusting the dosage or choosing a different drug. Many drugs that are currently available are “One size fit all”, but they don’t work the same way for everyone. It can be difficult to predict who will benefit from a medication, who will not respond at all, and who will experience negative side effects (called adverse drug reactions). Adverse drug reactions are a significant cause of hospitalizations and deaths. With the knowledge gained from the Human Genome Project, researchers are learning how inherited differences in genes affect the body’s response to medications. These genetic differences will be used to predict whether a medication will be effective for a particular person and to help prevent adverse drug reactions. Realizing this ambition requires nothing less than the ability to derive a genotype-to-phenotype map for a trait of interest. In the current study have adopted genome-wide association study (GWAS) will help to understand the large-scale determination of genetic variations correlated them with the phenotype of interest. Single locus approaches also helps for analyzing the functional effects of single loci, SNP, haplotype, and even intron variation. Based on these approaches that is likely that of Bayesian approach that incorporates prior knowledge on genetic association towards the personalized medicine or predictive medicine.

## **Keynote Talk: Islet Isolation and Primary $\beta$ -Cell Culture Techniques to Study Diabetes**

**dr.Rauza Sukma Rita, Ph.D**

Department of Biochemistry, Faculty of Medicine,  
Universitas Andalas, Padang, Indonesia.



### **Abstract**

The pancreas is a large, retroperitoneal organ in the abdominal cavity. The pancreas is primarily an exocrine gland, although it also performs critical endocrine activities. The exocrine pancreas secretes digestive enzymes. The islets of Langerhans, which are found throughout the pancreatic substance, represent the endocrine component of the pancreas. Insulin-producing beta cells, glucagon-producing alpha cells, and somatostatin-producing delta cells are among the most common cell types found in islets. The pancreatic islets of Langerhans secrete hormones that are critical for blood glucose management, making them an essential subject of diabetes research. It is necessary to prepare the Langerhans islets properly. Every step of islet preparation, including solution preparation, islet isolation, and islet picking up, is vital and must be completed in the best condition. Islets of good quality can be used for islet insulin release experiments or primary  $\beta$ -cell culture, which has led to a variety of diabetes studies.

## **TIME TABLE OF THE PARALLEL SESSION**

## TIME TABLE OF THE PARALLEL SESSION

Room : A1  
 Topic : Biomedical Science, Nutraceutical, and Drug Developments  
 Re-emerging Infectious Diseases  
 Public Health, Midwifery, and Psychology Issue  
 Biomedical Sciences and Bioinformatics  
 Moderator : Dr. Raudhatul Fatiah, S.P., M.Biotek.  
 Operator : Yuanda Barta, SE

No	Time		ID	Author (s)	Title	Presentation ID
1	13:30	13:40	164	Gestina Aliska, Elly Usman, Yusticia Katar, Fadrian, Wirza Rahmania Putri, and Nisa	Differences of Cost Estimation by National Health Insurance Program (JKN) and Hospital Bills for Sepsis Cases in Indonesia	A1-164-Presenter Name
2	13:40	13:50	170	Nuryanto, Sri Maryani, Reni Oktarina, Oom Komalasari, Niken PNR, and A. Ubaidillah	Clean and Healthy Living Behavior of Purun Artisan Family in Pedamaran Village Ogan Komering Ilir Regency	A1-170-Presenter Name
3	13:50	14:00	171	Reni Oktarina, Nuryanto, Oom Komalasari, Sri Maryani, and Ekowati Retnaningsih	Implementation of Covid-19 Preventive Health Protocol in Palembang City, South Sumatera Province	A1-171-Presenter Name
4	14:00	14:10	175	Arina Widya Murni and Elfira Yusri	Analysis of The Relationship of Emotional Stress with Clinical Picture and Ratio of Neutrophil Lymphocytes in Covid-19 Sufferers at Andalas University Hospital	A1-175-Presenter Name
5	14:10	14:20	251	Elizabeth B and Roslaili R	Detection of People at Risk of Corona Virus Disease 2019 (Covid-19) to Visitors of Alai Health Center in Padang City	A1-251-Presenter Name

6	14:2 0	14:3 0	223	Noverika Windasari, Citra Manela, Taufik Hidayat, and Rika Susanti	Profile of Clinical Forensics from 2014 to 2018 at Dr. M. Djamil General Hospital Padang, Indonesia	A1-223-Presenter Name
7	14:3 0	14:4 0	179	Citra Manela, Rika Susanti, Djong Hon Tjong, and Ahmad Yudianto	Allele Frequency of 13 Loci Short Tandem Repeats (STR) in Minangkabau Ethnic group of Indonesia	A1-179-Presenter Name
8	14:4 0	14:5 0	239	Linosefa and Fory Fortuna	Phenotypic Characteristics and SHV Gene Distribution of Extended Spectrum $\beta$ -lactamase (ESBL)-Producing <i>Acinetobacter baumannii</i> from Dr. M. Djamil Hospital Padang	A1-239-Presenter Name
9	14:5 0	15:0 0	241	D D A Bakhtra, Yanwirasti, F S Wahyuni, and D Handayani	Cytotoxic Activity of Marine Sponge-Derived Fungus <i>Penicillium citrinum</i>	A1-241-Presenter Name
10	15:0 0	15:1 0	243	Fitra Fauziah, Dian Handayani, Hirowati Ali, Ilmiawati, Dwi Dinni Aulia Bakhtra, and Muhammad Taher	Marine-Derived Fungus <i>Penicillium citrinum</i> Xt6 isolated from <i>Xestospongia testudinaria</i> DD-01 induce Adipocyte Differentiation on 3T3-L1 Preadipocytes	A1-243-Presenter Name
11	15:1 0	15:2 0	246	Roza Silvia, Fory Fortuna, and Hirowati Ali	Cisplatin has The Highest Risk to Induce Apoptosis based on The STITCH Database	A1-246-Presenter Name

## TIME TABLE OF THE PARALLEL SESSION

Room : A2  
 Topic : Biomedical Science, Nutraceutical, and Drug Developments  
 Cancer, Aging, and Degenerative Diseases  
 Biomedical Engineering and Bioremediation  
 Biodiversity and Microbiology  
 Moderator : dr. Al Hafiz, Sp. THT-KL  
 Operator : Irnaldi Yusuf, S.Kom.

No	Time		ID	Author (s)	Title	Presentation ID
1	13:30	13:40	208	Z Taufiq, DN Chandra, NI Lipoeto, and B Hegar	Chocolate Dadiah Pudding, as a Food Supplement for Pregnant Women Modified from Dadiah, Minangkabau Yogurt	A2-208-Presenter Name
2	13:40	13:50	253	Desmawati, Nur Indrawati Lipoeto, Neni Fitra Hayati, and Dita Hasni	Correlation of Macronutrient Intake with Blood Pressure and Lipid Profile in Minangkabau Women Ethnicity	A2-253-Presenter Name
3	13:50	14:00	185	Refa Rahmaddiansyah, Rauza Sukma Rita, and Almurdi	The Effect of Jamblang ( <i>Syzygium cumini</i> ) Leaves Extract on Serum Creatinine Level at Rats Induced by Lead Acetate	A2-185-Presenter Name
4	14:00	14:10	205	Husnil Kadri, Alwis Asidiq, and Firdawati	Effect of <i>Apis dorsata</i> Forest Honey and Metformin on Blood Glucose Levels in Alloxan-Induced Diabetic Mice	A2-205-Presenter Name
5	14:10	14:20	240	RS Rita, BO Putri, and E Kurniawan	Green Tea Decreased Blood Glucose and Total Cholesterol Serum Level in Rat Induced-Diabetic Model	A2-240-Presenter Name
6	14:20	14:30	174	Eva Decroli, Alexander Kam, and Upi Puspita	Description of Insulin Resistance and Prothrombotic Factors in Prediabetic Patients	A2-174-Presenter Name



7	14:3 0	14:4 0	202	Syamel Muhammad and Dheanisa Nofia	Analysis of Factors Related to The Incidence of Epithelial Ovarian Cancer	A2-202-Presenter Name
8	14:4 0	14:5 0	172	Restu Susanti and Yuliarni Syafrita	Analysis of Inducible Nitric Oxide Synthase, CXCL1 Serum Levels and Pericranial Tenderness Scores in Tension-Type Headache	A2-172-Presenter Name
9	14:5 0	15:0 0	257	Rizki Rahmadian, Marlina, Maharani Safitri, Riki Meksiko, and Nur Elida	Effect of Platelet-Rich Plasma on Differentiation of Sinovial Membrane-Derived Mesenchymal Stem Cells	A2-257-Presenter Name
10	15:0 0	15:1 0	258	Al Hafiz and Dolly Irfandi	The Effect of Nose Surgery on The Functionality of The Nose and Middle Ear in Minangkabau Ethnic	A2-258-Presenter Name
11	15:1 0	15:2 0	190	Nora Harminarti, Nuzulia Irawati, Hasmiwati, Sri Wahyuni Handayani, Zilga Ekha Regina, and Abdul Khairi Munzi Yulianto	Detection <i>Cryptosporidium sp</i> with Ziehl-Neelsen and ELISA Method in HIV/AIDS patients	A2-190-Presenter Name

## TIME TABLE OF THE PARALLEL SESSION

Room : B1  
 Topic : Natural Resources, Agriculture, and Food Technology  
           Biodiversity and Microbiology  
 Moderator : Dr. My. Syahrawati, SP. M.Si  
 Operator : Oliviana Evricia

No	Time		ID	Author (s)	Title	Presentation ID
1	13:30	13:40	180	Haliatur Rahma, Trizelia, Martinius, Gita Flowerina, and Yolma Hendra	In-vitro Antagonism of <i>Beauveria bassiana</i> Against <i>Curvularia lunata</i>	B1-180-Presenter Name
2	13:40	13:50	192	Trizelia, Haliatur Rahma, and Martinius	Selection of Endophytic Fungus from Shallots as Antagonists of <i>Colletotrichum gloeosporioides</i>	B1-192-Presenter Name
3	13:50	14:00	200	Yulmira Yanti, Hasmiandy Hamid, Reflin, and Yaherwandi	The consortium of Indigenous Endophytic Bacteria for Control of Fusarium Wilt ( <i>Fusarium oxysporum</i> f. sp <i>lycopersici</i> ) and to Increase Growth and Yield of Tomatoes	B1-200-Presenter Name
4	14:00	14:10	248	Nurbailis, Akmal Djamaan, and Yulmira Yanti	Extraction of Secondary Metabolites from <i>Trichoderma viridae</i> with Ethyl Acetate Solvent and Test the Ability in Suppressing The Growth of <i>Colletotrichum gloesporoides</i> Causes of Anthracnose in Chili	B1-248-Presenter Name
5	14:10	14:20	201	Tunjung Pamekas and Usman Kris Joko Suharjo	Variation of Symptoms and Severity of Blast Disease in 10 Swamp Paddy Rice of Bengkulu University	B1-201-Presenter Name
6	14:20	14:30	178	Chairil Ezward, Irfan Suliansyah, Nalwida Rozen, and Indra Dwipa	Resistance of Local Rice Genotypes Against Bacterial Leaf Blight based on Observed Parameters Incubation Period and Lesion Length	B1-178-Presenter Name

7	14:3 0	14:4 0	209	L A Yusfi, D H Tjong, I Chaniago, and J Jamsari	Screening The Effect of YM Media Component and Tryptophan Levels on IAA Production of <i>Serratia plymuthica</i> UBCF_13	B1-209-Presenter Name
8	14:4 0	14:5 0	210	Z Andini, L A Yusfi, and J Jamsari	Optimization of Culture Medium Volume for Indole-3-Acetic Acid [IAA] Production by <i>Serratia plymuthica</i> UBCF_13	B1-210-Presenter Name
9	14:5 0	15:0 0	212	A Salsabilla, L A Yusfi, and J Jamsari	Determination of The Optimum Duration for Indole-3-Acetic Acid [IAA] Production in <i>Serratia plymuthica</i> UBCF_13	B1-212-Presenter Name

## TIME TABLE OF THE PARALLEL SESSION

Room : B2  
 Topic : Natural Resources, Agriculture, and Food Technology  
           Biodiversity and Microbiology  
 Moderator : Dr. Ir. Irawati, M.Rur.Sc.  
 Operator : Amalia Azizah

No	Time		ID	Author (s)	Title	Presentation ID
1	13:30	13:40	230	I. Darfis, A. Maulana, A. N. M. Fathi, D. Rezki, Junaidi, and Herviyanti	The Effect of Pyrolysis Methods and Particle Size on Biochar Characteristics of Coconut Shell as Ameliorant	B2-230-Presenter Name
2	13:40	13:50	233	Herviyanti, T. B. Prasetyo, M. Harianti, A. Maulana, A. L. Lita, and R. Ryswaldi	The Chemical Characteristics of Secondary Forest and Mixed Gardens of Inceptisol Order with the Addition of Rice Husk Biochar	B2-233-Presenter Name
3	13:50	14:00	238	T. B. Prasetyo, A. Maulana, Z. Naspendra, V. Sukma, and Herviyanti	In-situ Inactivation of The Contaminated Ex-Gold Mining Soil of Hg Using Biochar from Young Coconut Waste and Its Effect on Growth of Corn ( <i>Zea mays</i> L.)	B2-238-Presenter Name
4	14:00	14:10	245	M. Harianti, Junaidi, O. Emalinda, Herviyanti, S. Yasin, Z. Naspendra	Correlation of $\beta$ -glucosidase Activity and Soil Physicochemical Properties in Monoculture and Agroforestry Land in Mount Talang, Solok	B2-245-Presenter Name
5	14:10	14:20	198	Hermansah, Nurainas, L Maira, Suryani, and L N Hakim	Characteristics and Stock of Soil Nutrients at The Microhabitat of Traditional Medicinal Plants in West Sumatera	B2-198-Presenter Name
6	14:20	14:30	221	S. Prima, Z. Naspendra, A. Maulana, T. B. Prasetyo, M. Harianti, K. Febriana, and H. Herviyanti	Identification of Mercury (Hg) Status in Gold Mining Land in Dharmasraya, Indonesia	B2-221-Presenter Name

7	14:3 0	14:4 0	237	Gusmini, Hermansah, Adrinal, Panji Romadhan, and Aldo Aditya	Residual of Ex-Gold Mining Land Residual on Sunflower Growth in The Second Growing Season	B2-237-Presenter Name
8	14:4 0	14:5 0	218	Fitri Ekawati, Doni Hariandi, Meisilva Erona S, and Irfan Suliansyah	The Effect of Liquid Organic Fertilizer Towards Increased Vegetative Growth Some Varieties of Grapes ( <i>Vitis vinifera</i> L.)	B2-218-Presenter Name

## TIME TABLE OF THE PARALLEL SESSION

Room : C1  
 Topic : Natural Resources, Agriculture, and Food Technology  
           Biodiversity and Microbiology  
 Moderator : Maythesya Oktavioni, S.P., M. Biotek.  
 Operator : Muhammad Irsyad

No	Time		ID	Author (s)	Title	Presentation ID
1	13:30	13:40	263	Bastian Nova, Jamsari Jamsari, Irfan Suliansyah, and Irawati Chaniago	Genetic Variability of Begomovirus Replicase gene in West Sumatera	C1-263-Presenter Name
2	13:40	13:50	270	Irfan Suliansyah, Bastian Nova, Fitri Ekawati, and Doni Hariandi	Genetic Diversity of West Sumatera Pepper ( <i>Capsicum Annuum</i> L.) based on Sequence-related amplified polymorphism	C1-270-Presenter Name
3	13:50	14:00	264	Epi Supri Wardi, Sumaryati Syukur, Zulkarnain Chaidir, Jamsari Jamsari, Muthia Miranda Zaunit	DNA Barcoding for the Discrimination of <i>Uncaria gambir</i> and rbcL Closely Related Species Using rbcL Genes	C1-264-Presenter Name
4	14:00	14:10	229	Try Surya Harapan, Nurainas, and Syamsuardi	Crown morphological characteristics of national protected tree <i>Castanopsis argentea</i> and their allied species (Family: Fagaceae) using UAV high-resolution aerial photograph	C1-229-Presenter Name
5	14:10	14:20	256	N Azizah, R Fatiah, R Trivano, and J Jamsari	Response of <i>OocE</i> and <i>OocO</i> Gene Expression Levels in <i>Serratia plymuthica</i> UBCF_13 to the Presence of Pathogenic Fungus <i>Colletotrichum gloeosporioides</i>	C1-256-Presenter Name
6	14:20	14:30	254	R Trivano, N Azizah, R Fatiah, and J Jamsari	Transcription Level of Pyrrolnitrin Biosynthesis Pathway Related Genes in <i>Serratia plymuthica</i> UBCF_13	C1-254-Presenter Name

7	14:3 0	14:4 0	259	Nicholas Farrell Wijaya, Bastian Nova, and Jamsari	In Silico Studies of Molecular Interaction of Various PepYLCV's Replication Enhancer (C3) Protein with <i>Capsicum annuum</i> 's Retinoblastoma-related Protein (pRBR)	C1-259-Presenter Name
8	14:4 0	14:5 0	249	R Yunita, R Hidayati, L Syukriani, and J Jamsari	Isolation and Characterization of HPPD Gene Active Domain in Sunflower	C1-249-Presenter Name
9	14:5 0	15:0 0	236	L Syukriani, R Hidayati, M Oktavioni, D Saputra, I Suliansyah, A Asben, and J Jamsari	Isolation of Starch Branching Enzymes (SBE) Genes from Banana ( <i>Musa paradisiaca</i> ) Raja Genotypes and Prediction of Secondary and Tertiary Protein Structures	C1-236-Presenter Name



## TIME TABLE OF THE PARALLEL SESSION

Room : C2  
 Topic : Natural Resources, Agriculture, and Food Technology  
           Biodiversity and Microbiology  
 Moderator : Dr. P.K. Dewi Hayati, SP., M.Si.  
 Operator : Suhada Tri Marneli

No	Time		ID	Author (s)	Title	Presentation ID
1	13:30	13:40	182	Arief Munandar, P.K. Dewi Hayati, Agung Primatara M, Auzar Syarif, and Risa Meutia Fiana	Performance, Heritability, and Variability of Grain Characters of 29 West Sumateran Local Upland Rice Cultivars	C2-182-Presenter Name
2	13:40	13:50	203	Usman Kris Joko Suharjo and Tunjung Pamekas	Gamma Rays Irradiation Induced Drought Tolerance in Potato Crops Grown at Medium Elevation	C2-203-Presenter Name
3	13:50	14:00	206	Nalwida Rozen, Musliar Kasim, and Indra Dwipa	The Effect of Organic Mulch on Yields Components of Batang Piaman Rice Variety with SRI Method	C2-206-Presenter Name
4	14:00	14:10	220	F N Rosadi, M Sitepu, N Ramadhan and J Jamsari	Study of Morpho-physiology of Sunflower Plants in The Highlands and Lowlands Areas	C2-220-Presenter Name
5	14:10	14:20	197	Irfan Suliansyah, Yusniwati, and Fadilla Arishadea	Agronomic Characters of Several Genotypes of Sigah Red Rice at Two Location in West Sumatera	C2-197-Presenter Name
6	14:20	14:30	231	Mutia Muharani, Nurainas, and Syamsuardi	Local knowledge on the utilization of Bilongkiang <i>Zingiber</i> sp. (Zingiberaceae) in Solok Regency, West Sumatera	C2-231-Presenter Name
7	14:30	14:40	217	Afriarningsih Putri, Rahmat Syahni, Hasnah, and Alfian Miko	Factors Affecting Coffee Supply in West Sumatera	C2-217-Presenter Name

8	14:40	14:50	215	L Triana, R Syahni, N Nofialdi, YH Yeni	Marketing Response and Innovation of Coffee Powder SMEs Address Unstable Business Environment	C2-215-Presenter Name
9	14:50	15:00	207	Devi Analia and Cipta Budiman	Identification Aspects of Covid-19 Adaptive Tourism Sustainability in Padang City, West Sumatera	C2-207-Presenter Name

# **ABSTRACT OF ORAL PRESENTERS**

# Chocolate Dadiah Pudding as a Food Supplement for Pregnant Women Modified from Dadiah, Minangkabau Yogurt

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**Abstract.** Undernutrition of mothers during pregnancy correlated with low-birth-weight outcomes. As a potential source of probiotics, dadiah, a traditional fermented dairy product from Minangkabau, also contain macronutrients. This research aimed to determine the contents of carbohydrate, protein, and fat in chocolate dadiah pudding as a modification of the original dadiah. Chocolate dadiah pudding was manufactured using dadiah originated from Gaduik region, Bukittinggi, West Sumatera. Carbohydrate, protein and fat levels were analyzed according to Indonesian National Standard (SNI) and total calories were calculated by using 4:4:9 kcal/g conversion. There were 4.75 g of carbohydrate (SNI 01-2891-1992,9), 4.7 g of protein (SNI 01-2891-1992,7.1), 5.47 g of fat (SNI 01-2891-1992,8.1), and 87.03 kcal in 100 g of chocolate dadiah pudding. This research found that macronutrients and total calories content in chocolate dadiah pudding may help cover one-third until half of the additional daily intake during pregnancy. We suggest chocolate dadiah pudding as a local and potential food supplementation in optimizing birth outcomes.

**Keywords:** chocolate dadiah pudding, food supplementation, Minangkabau yogurt, pregnant women, West Sumatera