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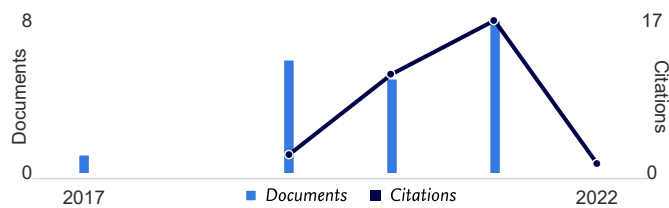
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Potential of fibrinolytic protease enzyme from tissue of sand sea cucumber (*Holothuria scabra*) as thrombolysis agent

Hidayati, N., Fuad, H., Munandar, H., ...Darmawati, S., Ethica, S.N.

*IOP Conference Series: Earth and Environmental Science*, 2021, 743(1), 012007

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10.1088/1755-1315/292/1/012033

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# In-silico specificity comparison between GMF-GMR and JMF-JMR primers for detecting moaC genes of food spoilage bacteria pseudomonas spp

Ethica S.N.<sup>a, b</sup> ✉, Sulistyaningtyas A.R.<sup>a</sup>, Darmawati S.<sup>a</sup>

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*Pseudomonas* spp. have been known as notorious food spoilage bacteria with ability to produce thermo-tolerant enzymes. They pose serious risk to public health as its most pathogenic member, *P. aeruginosa*, could cause nosocomial infections affecting people with immunodeficiency. The use of GMF-GMR primers had been reported capable for detecting bacterial moaC of *Alcaligenes javaensis* JG3. The gene is suspected to be related with dormancy of pathogenic bacteria. This study aimed to investigate specificity of the GMR-GMF as well as a newly designed JMF-JMR pairs of primers (JMF: 5'-GGCGTACATCATCCACACTG-3' and JMR: 5'-GGCGTTGACCATCTATGACA-3') for detecting moaC genes of 57 members of *Pseudomonas* spp. retrieved from <http://insilico.ehu.eus/database> using in silico PCR (Polymerase Chain Reaction). The results showed that GMF-GMR primers could selectively amplify

**Cited by 1 document**

Detection of RtxA gene as a biomarker of seafood-borne pathogen vibrio cholerae using in silico PCR assay

Ethica, S.N., Hidayati, N., Fuad, H.  
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Detection of RtxA gene as a biomarker of seafood-borne pathogen vibrio cholerae using in silico PCR assay

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(2020) *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*

Protease producers predominate cultivable hydrolytic bacteria isolated from liquid biomedical waste

Ethica, S.N., Muchlissin, S.I., Saptaningtyas, R.  
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# PROCEEDING



The Topic of 1st ICHESTECH – ICFST'18 is  
“Current Trends and Future Perspectives in the Food Sector :  
From Novel Concepts to Applications”

November 28-29<sup>th</sup>, 2018

Universitas Muhammadiyah Semarang  
Indonesia

**Held by :**

Universitas Muhammadiyah Semarang (UNIMUS)  
Jl. Kedungmundu Raya No. 18, Semarang  
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***PROCEEDING***

**INTERNATIONAL CONFERENCE ON HEALTH, SCIENCE AND  
TECHNOLOGY (ICHESTECH) 2018**

**Theme :**

**“Current Trends and Future Perspectives in the Food and Health Sector:  
From Novel Concepts to Applications”**

**Keynote Speaker I**

**Dr. Satoshi Futo Riztyan**

**FASMAC Co. Ltd, Japan**

**Keynote Speaker II**

**Prof. Eddy Yusuf, Ph.D.**

**Management & Science University, Malaysia**

**Keynote Speaker III**

**Najwa Santiworakun, Ph.D.**

**Chulalongkorn University, Thailand**

**Keynote Speaker IV**

**Prof. Fatchiyah, Ph.D.**

**Universitas Brawijaya, Indonesia**

***Wednesday, October 28<sup>th</sup>, 2018***

***Universitas Muhammadiyah Semarang, Semarang, Indonesia***

**Organized by :**

**Research and Community Service Institute,  
Universitas Muhammadiyah Semarang (UNIMUS)**

### Welcome Message from the Conference Chair

Alhamdulillah, blessings and mercy from Allah SWT, the report on the implementation of the international conference called International Conference on Health, Science and Technology (ICHeSTech) could be completed.

Keynote speakers of the international conference were :

1. Prof. Eddy Yusuf, Ph.D from Management and Science University Malaysia;
2. Prof. Fatchiyah, M.Kes., Ph.D from Universitas Brawijaya Indonesia;
3. Dr. Satoshi Futo Riztyan from FASMAC Co. Ltd. Japan;
4. Najwa Santiworakun, M.Sc. from Chulalongkorn University, Thailand.

International Conference on Health, Science and Technology that was held in Universitas Muhammadiyah Semarang was collaborating between Universitas Muhammadiyah Semarang and Management and Science University Malaysia (MSU). So the International Conference was collaborating with IOP Conference Series Earth and Environment Science. It was the first **International Conference on Health, Science and Technology** series by Universitas Muhammadiyah Semarang (UNIMUS) **with co-host MSU** was held on **November 28-29<sup>th</sup>, 2018 at Semarang, Indonesia**. The theme was **International Conference on Food Science and Technology**. Sub-theme was **Current Trends and Future Perspectives in the Food Sector: From Novel Concepts to Applications**. The presence of highly affiliated personality's, food scientists, health researchers, entrepreneurs, technologists, student and more together to network, collaborate, share best practices to explore the future and trends in Food Science and Technology.

InsyaAllah, next year **International Conference on Health, Science and Technology** will be held on **Management and Science University Malaysia**.

To Rector Universitas Muhammadiyah Semarang Prof. Dr. Masrukhi, I will report that there are 120 participants in which 86 presenters those from within (some Universities from Sumatra, Kalimantan, Java and Sulawesi) and outside the country (from Japan, Equador, Thailand, Malaysia and Philipin).

To participants welcome and thank you to Universitas Muhammadiyah Semarang and God Bless followed the international conference. And I apologized if there were some mistakes. To the committee, I am proud of you and thank you very much on all of the activities so that the international conference could be held.

Finally, I thanked very much to everyone who involved it.

January 28<sup>th</sup>, 2019, Semarang

Sincerely,

**Dr. Nurrahman, M.Si.**

Conference Chair.

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## Table of Contents

Cover .....	
Co-Cover .....	
Welcome Message from Conference Chair .....	
Committees .....	
Table of Contents .....	

*The Effect of Blanching Toward Chemical Properties and Sensory Quality of Brown Seaweed Sargassum Sp. Tea*

**E Sinurat**, J Basmal, T D Suryaningrum

*Profile of Monoglyceride and Diglyceride Compounds of the Ethanolysis Products from Palm Kernel Oil (PKO)*

**Murhadi**, S Hidayati, R Sugiharto

*Reduction of Pb(II) Ion in Soybean Seeds (Glycine max) Using Corncob Liquid Smoke*

**T Handayani**, D Xyzquolyna, Y Pranoto, A Suratman

*The Effects of Linseed Supplementation in Ration on Milk Production and Quality of Lactating Ettawa Crossbreed Dairy Goats*

**S D Widyawati**, R F Hadi, A Hanifa

*Characteristics of Instant Mushroom Cream Soup Enriched with Catfish Oil Microcapsules*

**E Hastarini**, Nabila, R J Napitupulu, S H Poernomo

*Physicochemical and Pasting Properties of Cross linked-Banana Flour*

**H Marta**, Y Cahyana, E Senia, M Djali, I R Halim, S Urrohmana, D S Khairunnissa, A A Sutardi

*Oxidation by Hydrogen Peroxide Changes Crystallinity and Physicochemical Properties of Banana Flour*

**Y Cahyana**, P A Pratiwi, H Marta, M Djali, I R Halim, S Urrohman, D S Khairunnissa, A A Sutardi

*Banana Peels Extract (Musa Paradisiaca Var Kepok) Decreased MDA in New Zealand White DM Hyperlipidemia*

**A Samiasih**, Subagio W H, Dharmana E, Susanto H

*Nutrition Retention of Product Based on Soybean and Sprouts Flour Corn Sprout Enriched with Duck Eggshell*

**S Aminah**, W Meikawati, A Rosidi

*Microstructural and Proteomic Analysis to Investigate the Effectiveness of Papaya Leaf as a Tenderizer of Beef and Goat's Meat*

**A I Kartika**, H S Kusuma, S Darmawati, D S Tanjung

*Vitro Everted Gut Sac Method***E P Nurlaili***Amylopectin Content, Expand Ability, and Organoleptic Properties of Yam Flour Cracker***Y Magfiroh**, W Hersoelistyorini, Nurrahman*Nano-Emulsion and Nano-Encapsulation of Fruit Flavor: Review***A Suyanto**, E Noor, M S Rusli, F Fahma*Dynamics of the Bacterial Community in Fermentation Process of Rice Straw as Animal Feed***Sulistyo**, A Pangastuti, R Setyaningsih, S D Widyawati*Aroma Volatile Compounds Profile of Melon (*Cucumis melo* L.) cv. Gama Melon Parfum***U H A Hasbullah**, Supriyadi, B S Daryono*Thermal and Reused Stability of Immobilized Lipase in Carrageenan***F A Wardoyo**, F F Hidayah*Evaluation of Intrahepatic Regulatory T-cells to Understand Their Roles in the Progression of Liver Damage in Patient with Hepatitis***T N Susilawati**, T Y Pramana, B Wasita, S Setyawan, A A Prasetyo*Memorizing Al-Quran Improves Quality of Life Stroke Patients with Motoric Aphasia Disorders***I J Ma'ruf**, O Hartanto, Suminah, E S Sulaeman*Association of CAPN10 SNP-19 (rs3842570) Polymorphism on Fasting Plasma Glucose, Blood Pressure and Body Mass Index of Javanese Type 2 Diabetes Patients***Y Tursinawati**, A Kartikadewi, R F Hakim*The Effect of *Clinacanthus nutans* (Burm.f.) Lindau Water Fraction Addition on Hypoglycemia***C Retnaningsih**, V K Ananingsih, Meiliana, E N Anggraeny, I M Cahyani, B Nugraheni, R Efendi*In-silico Specificity Comparison between GMF-GMR and JMF-JMR Primers for Detecting moaC Genes of Food Spoilage Bacteria *Pseudomonas* spp.***S N Ethica**, A R Sulistyningtyas, **S Darmawati***The Differences of Salivary and Urine Acetone Levels in Diabetes Mellitus Patients***N E Priadi**, H Anggraini, E T W Maharani*Effectiveness Comparison of Bitter Melon Fruit (*Momordica charantia* L.) Extract with 2% Ketoconazole in Inhibiting *Pityrosporum ovale* Growth In Vitro Study***A Mulyono**, K Ratnaningrum, I D Kurniati

**S B Wahjuningsih**, Haslina, H Chess

*Protein Profile and Hemagglutination Activity of Pilli, an Adhesion Factor Causing Typhoid Fever by Salmonella typhi*

**S Darmawati**, S N Ethica, S S Dewi

*Composition of Tempe and Bran Flours Towards Nutritional Content as an Antihyperlipidemic and Antistress Oxidative*

**S Bintanah**, S F Muis, Purwanto A P, H S Kusuma

*Physical Characteristics of Stored Breastmilk During Storage in Cooler Bag*

**D N Mustika**, S Nurjanah, Y N S Ulvie

*The Effectiveness of Derris elliptica (Wall.) Benth Root Extract Against Temephos-resistant Aedes aegypti Larvae*

**Sayono**, A Permatasari, D Sumanto

*Development of Parenting Regional Anesthesia Management Model for Patient Family by the Co-Assistant Anesthetist at the Medical Faculty of Universitas Muhammadiyah Semarang and Roemani Muhammadiyah Hospital Nurse*

**T Setyowati**, Samsudi, T Prihatin, R Muslim

*A Review of Quality Characteristics of Solar Dried Food Crop Products*

**C L Hii**, S P Ong, C L Chiang, AS Menon

*The Characteristics of Kerupuk Gembus*

**D N Afifah**, G Nugrahani, VN Hastuti, F Arifan

*Improvement of Plant Growth and Production of Waxy Corn with Organic-NP Enriched Manure and Inorganic Fertilizer in Sragen District of Central Java Indonesia*

**D R Lukiwati**, F Kusmiyati, Yafizham, S Anwar

*The Development of Rice Substitute Product Using Fermented Cassava (Oyek) Enriched with Isolated Soy Protein*

**D Rahmawati**, F E Chandra, M Pratiwi

*Inoculation of Rhizobium Bacteria and Nutrient of Seawater to Increase Soybean Production and Quality as Food*

**E Fuskhah**, A Darmawati

*The Effects of Pretreatments on Physicochemical Properties of Bamboo Shoots (Bambusa vulgaris schard var. vitula) Flour*

**M K Ferdiansyah**, W Pramitasari, E P Nurlaili, A R Affandi

*Application of Quick Tempe Technology for Production of Overripe Tempe*

**M D P T Gunawan-Puteri**, S A Fortunata, E Mursito, C H Wijaya

*Physical Characteristics of Modified Cassava Flour Wastewater at Room Temperature*

**N Yaqin**, A N Al-Baarri, A M Legowo, Widayat, M A Budihardjo

## PAPER • OPEN ACCESS

# Osmotic concentration of pineapple (*Cayenne lisse*) as a pretreatment for convection drying

D M Salazar<sup>1</sup>, F C Álvarez<sup>1</sup>, L P Acurio<sup>1</sup>, L V Perez<sup>1</sup>, M Y Arancibia<sup>1</sup>, M G Carvajal<sup>1</sup>,  
A F Valencia<sup>1</sup> and C A Rodriguez<sup>1</sup>

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**Citation** D M Salazar *et al* 2019 *IOP Conf. Ser.: Earth Environ. Sci.* **292** 012039

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<https://doi.org/10.1088/1755-1315/292/1/012039>

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## Abstract

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Osmotic dehydration as a pretreatment for convection drying is used with the purpose to get high quality dried foods. The effect of osmotic treatment at sucrose concentration of 40 °Brix and convection drying at 60 and 70 °C (air velocity of 0.8 m/s) were investigated. The quality of dehydrated pineapple was investigated by physicochemical properties, weight loss, textural characteristics, and sensorial parameters. Samples dried at 70 °C showed the fastest drying kinetics reached the required humidity at 2.5 hours. The sensory analysis allows establishing that the dehydrated pineapple at conditions of soluble solids of 40 °Brix, air temperature of the dryer at 70 °C be the best in acceptability in comparison with samples dried at 60°C. The samples were microbiologically safe for the consumer because they do not present a count of *Escherichia coli* and molds and yeasts.

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## PAPER • OPEN ACCESS

# A review of quality characteristics of solar dried food crop product

C L Hii<sup>1</sup>, S P Ong<sup>1</sup>, C L Chiang<sup>1</sup> and AS Menon<sup>2</sup>

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**Citation** C L Hii *et al* 2019 *IOP Conf. Ser.: Earth Environ. Sci.* **292** 012054

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Sun drying is perhaps one of the oldest methods of food preservation that has been practiced for centuries. The direct usage of solar radiation which is renewable and abundant favours farmers that harvest and process at small quantity. As technology advances, an alternative to sun drying evolves to maximize the potential of solar radiation and this technology is known as solar drying. Solar drying has several inherent advantages over sun drying namely faster drying rate, better protection of products, reduce risk of prolonged drying, lesser risk of product spoilage and improvement in product quality. Various studies have reported the application of solar drying for fruits, vegetables, grains, seeds, beans, herbs, spices and medicinal plants. Product quality improvement is definitely associated with solar dried products as compared to sun dried and to some extent oven/hot air dried products. However, uptake of this technology especially among farmers in developing countries are

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# A review of quality characteristics of solar dried food crop product

C L Hii<sup>1</sup>, S P Ong<sup>1</sup>, C L Chiang<sup>1</sup> and AS Menon<sup>2</sup>

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## PAPER • OPEN ACCESS

# Fatty Acids Content of Yogurt Drink by Mangosteen Rind Extract (*Garcinia mangostana* L.)

J M W Wibawanti<sup>1</sup>, Zulfanita<sup>1</sup> and D Runanto<sup>2</sup>

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This research was aimed to study the content of fatty acid from yogurt drink by mangosteen rind extract. Completely Randomized Design (CRD) was throughout the research with different concentrations of mangosteen rind extract (0, 1, 2, and 3% (v/v). The results were differences on the yogurt drink product. The addition of mangosteen rind extract on yogurt drink of goat's milk contains fatty acids both saturated and unsaturated fatty acids. The highest saturated fatty acids were observed on the of palmitic fatty acids, while the highest unsaturated fatty acids were found on the oleic acid. There were changes in the profiles of fatty acids during processing of fresh goat milk into yogurt drink by mangosteen rind extract.

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