

International Conference of the Indonesian Chemical Society  
ICS 2019

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72	ISOLATION AND MOLECULAR IDENTIFICATION OF LACTIC ACID BACTERIA (LAB) IN COCONUT MILK	The abstract is clear and well informative	Accepted	Oral	May 18, 2019 3:15 am	0 Locked

## Symposium Program

Day 1: Tuesday, August 6th, 2019

Venue: IPB International Convention Center (IICC), Botani Square, Jl. Pajajaran, Bogor, West Java Indonesia

Time	Agenda		
08.00-08.45	Registration		
08.45-09.10	Welcoming Speech		
09.10-09.15	Opening Ceremony		
09.15-09.30	Coffee Break		
09.30-09.55	Plenary session Invited Speaker session: Prof Tsuyoshi Kawai		
09.55-10.20	Plenary session Invited Speaker session: Assoc Prof Yuan-Chung Cheng		
10.20-10.35	Discussion		
10.35-11.00	Plenary session Invited Speaker session: Prof Masaki Kita		
11.00-11.25	Plenary session Invited Speaker session: Prof Dr Dyah Iswanti		
11.25-11.40	Discussion		
11.40-12.10	Technical Presentation		
12.10-13.15	Lunch		
13.15-14.00	Poster Session I and Sponsor Stand Tour		
14.00-15.30	Parallel session		
	Ballroom 1 Invited Speaker: Shuichi Shinma, Ph.D OP A1-A5	Ballroom 2 Invited Speaker: Akhmad Sabarudin, D.Sc OP B1-B5	Meeting Room B Invited Speaker: Prof Lee Wah Lim OP C1-C5
	Meeting Room C Invited Speaker: Novriyandi Hanif, D.Sc OP D1-D5	Meeting Room D Invited Speaker: Prof Asep Kadarohman OP E1-E5	Meeting Room E Invited Speaker: Dr. Dodi Safari OP F1-F5

## GUIDELINES

### All participants

1. Please attend the entire conference program, so that speaker will not be disappointed because of small audience. Conference is to hear and exchange ideas.
2. Please do not smoke and talk in the room
3. Please silent your mobile phone
4. Please do not take photograph and/or video during the presentation
5. Participants are welcome to choose parallel rooms and please ask only short and clear questions
6. Certificates will be given at the end of the symposium

### Oral Presenter

1. Presentation time is scheduled by the committee
2. The room will be equipped with a LCD projector, and an official PC. The committee does not recommend the presenter to use a personal computer. Presentation file should be written in Microsoft Power Point
3. The committee prepare the rehearsal time for you before your presentation time (please see the rehearsal schedule). You can check either your presentation file is fine or need to revise to fit with the equipment.
4. Rehearsal time for oral presenter

Oral presenter A1 – A10	6 August 2019, 13.00 – 13.15 at ballroom 1
Oral presenter A6 – A10	6 August 2019, 15.40 – 15.50 at ballroom 1
Oral presenter B1 – B10	6 August 2019, 13.00 – 13.15 at ballroom 2
Oral presenter B6 – B10	6 August 2019, 15.40 – 15.50 at ballroom 2
Oral presenter C1 – C10	6 August 2019, 13.00 – 13.15 at B room
Oral presenter C6 – C10	6 August 2019, 15.40 – 15.50 at B room

## ORAL PRESENTATION SCHEDULE

Name	ID submission	Code	Day	Room	Time
Adam Wiryawan	358	H2	6 Agt	Adenium Room	14.10-14.20
Agung Bagus Pambudi	328	B16	7 Agt	Ballroom 2	13.30-13.40
Agus Abhi Purwoko	29	G9	6 Agt	Room F	16.10-16.20
Agus Dwi Ananto	50	H17	7 Agt	Adenium Room	11.10-11.20
Aisy Rifa Cahyani	233	I14	7 Agt	Plumeria Room	10.30-10.40
Alex L. Suherman	389	B21	7 Agt	Ballroom 2	14.30-14.40
Alfiyatul Fithri	131	I9	6 Agt	Plumeria Room	16.10-16.20
Aliya Nur Hasanah	28	A1	6 Agt	Ballroom 1	14.30-14.40
Alvin Rahmad Widianto	276	C11	7 Agt	Room B	10.50-11.00
Amanda Dwikarina	264	D17	7 Agt	Room C	13.40-13.50
Ani Iryani	347	B18	7 Agt	Ballroom 2	13.50-14.00
Annisa Indriyani	363	F21	7 Agt	Room E	14.30-14.40
Antonius Padua Ratu	42	H14	7 Agt	Adenium Room	10.30-10.40
Antuni Wiyarsi	366	H7	6 Agt	Adenium Room	15.10-15.20
Anugrah Ricky Wijaya	349	D20	7 Agt	Room C	14.30-14.40
Ari Asnani	351	F20	7 Agt	Room E	14.20-14.30
Arif Rahman	329	C18	7 Agt	Room B	13.50-14.00
Asdim	378	C19	7 Agt	Room B	14.00-14.10
Asri S. Mahulette	32	H9	6 Agt	Adenium Room	16.10-16.20
Atika Oktrima Puspa	254	F12	7 Agt	Room E	11.00-11.10
Awan Rahmadewi	277	F16	7 Agt	Room E	13.30-13.40
Baiq Desy Ratnasari	62	D19	7 Agt	Room C	14.20-14.30
Bambang Piluharto	310	I19	7 Agt	Plumeria Room	11.30-11.40
Bambang Purwono	344	E10	6 Agt	Room D	16.40-16.50
Betty Marita Soebrata	332	C22	7 Agt	Room B	14.40-14.50
Budi Arifin	71	E9	6 Agt	Room D	16.30-16.40
Budi Riza Putra	9	G14	7 Agt	Room F	10.30-10.40

Name	ID submission	Code	Day	Room	Time
Siti Nurbayti	268	G20	7 Agt	Room F	13.30-13.40
Sri Kadarwati	346	I17	7 Agt	Plumeria Room	11.10-11.20
Sri Mulijani	161	I10	6 Agt	Plumeria Room	16.20-16.30
Sri Mulijani	337	I11	6 Agt	Plumeria Room	16.30-16.40
Sri Sugiarti	73	G11	6 Agt	F Room	16.30-16.40
Sri Yadijal Chalid	8	F1	6 Agt	Room E	14.30-14.40
Sry Wahyuni	67	B3	6 Agt	Ballroom 2	14.50-15.00
Sry Wahyuni	205	B8	6 Agt	Ballroom 2	16.20-16.30
Subandi	375	F22	7 Agt	Room E	14.40-14.50
Sudirman	43	I8	6 Agt	Plumeria Room	16.00-16.10
Suharso	15	C1	6 Agt	Room B	14.30-14.40
Suryani	72	F5	6 Agt	Room E	15.10-15.20
Sutrisno	368	B22	7 Agt	Ballroom 2	14.40-14.50
Syafrizayanti	27	F2	6 Agt	Room E	14.40-14.50
Tanto Budi Susilo	118	H15	7 Agt	Adenium Room	10.50-11.00
Tatas H.P. Brotosudarmo	352	D23	6 Agt	Plumeria Room	16.40-16.50
Teguh Pambudi	122	C5	6 Agt	Room B	15.10-15.20
Triana Kusumaningsih	33	E8	6 Agt	Room D	16.20-16.30
Trianda Ayuning Tyas	305	G13	7 Agt	Room F	10.20-10.30
Uswatun Hasanah	153	B1	6 Agt	Ballroom 2	14.30-14.40
Verra Nummaylinda	134	H22	7 Agt	Adenium Room	13.50-14.00
Vina Juliana	309	D21	7 Agt	Room C	14.40-14.50
Wahyu Prasetyo Utomo	299	E22	7 Agt	Room D	14.40-14.50
Waringin Margi Yusmaman	144	G24	7 Agt	Room F	14.30-14.40
Wega Trisunaryanti	74	H10	6 Agt	Adenium Room	16.20-16.30
Widia Wati	133	H21	7 Agt	Adenium Room	13.40-13.50
Wilis Okti Pamungkas	338	F19	7 Agt	Room E	14.00-14.10
Winda Andika	355	E6	6 Agt	Room D	16.00-16.10

## ISOLATION AND MOLECULAR IDENTIFICATION OF LACTIC ACID BACTERIA (LAB) IN COCONUT MILK FERMENTATION

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## ABSTRACT

Lactic Acid Bacteria (LAB) contains of bacteriocin which is peptide that has the capacity to isolate the growth of pathogenic bacteria, where in contrast is harmless for other good bacteria. LAB is found in material fermentation containing high carbohydrate and protein like coconut milk which is undergone the process becoming Virgin Coconut Oil (VCO). In the fermentation process, there were three layers formed; oil, blondo, and water (waste). The LAB isolation on coconut milk fermentation used MRSA + 0,5% CaCO<sub>3</sub> as the selective media. with the dilution from 10<sup>-1</sup> to 10<sup>-7</sup>. Here, each sample was taken from each layer formed in the milk fermentation process. The identification was carried out in two ways, first was morphology identification, and the second one was molecular identification applying the PCR method. There were 97 isolates obtained from oil layer, 23 isolates from Blondo layer, and 14 isolates from water layer. After being identified well based on both morphology, and molecular on the oil layer, there were six LAB found, which were *Lactobacillus paracasei*, *Lactobacillus plantarum*, *Micrococcus luteus*, *Corineaebacterium bovis*, *Lactobacillus thermobacterium* dan *Corineaebacterium xerocis*. Three types of LAB within the blondo were identified as *Lactobacillus plantarum*, *Lactobacillus paracasei* and *Lactobacillus thermobacterium*.

**Keywords:** Isolation, molecular identification, Virgin Coconut Oil (VC)<sub>2</sub>, Lactic Acid Bacteria (LAB), PCR

### Day 1: Tuesday, August 6th, 2019 Room Paralel 1 (Ballroom 1)

Time	ID/ Code	Presenter & Title	
14.30-14.40	28/A1	Aliya Nur Hasanah	DIAZEPAM MOLECULAR IMPRINTED POLYMER SOLID PHASE EXTRACTION (MI-SPE) WITH ACRYLAMIDE AND METHYL METHACRYLATE AS FUNCTIONAL MONOMER
14.40-14.50	58/A2	Lelifajri	Study on Methylene Blue Dye Adsorption in Aqueous Solution by Heat-treated Gnetum gnemon shell waste particles as Low-Cost Adsorbent
14.50-15.00	61/A3	RIFKI HUSNUL KHULUK	SIMULTANEOUS DETERMINATION OF SOME FLAVONOIDS AND CLASSIFICATION OF DIFFERENT PLANT PARTS AND GEOGRAPHICAL ORIGIN OF <i>Sonchus arvensis</i>
15.00-15.10	86/A4	Donatus Rendo	Removal of Methylene Blue Dye in Water by Using Separable Natural Zeolite/Fe <sub>3</sub> O <sub>4</sub> Adsorbent
15.10-15.20	106/A5	Hasmalina Nasution	The Effect Of Using Durian ( <i>Durio zibethinus</i> Murr) Seed Flour On Patin Fish ( <i>Pangasius hypophthalmus</i> ) Nugget Nutrient
16.00-16.10	108/A6	Muh. Supwatul Hakim	Optical chemical sensor based on incorporation of 2,2 furil dioxime in sol-gel matrix for determination of Ni (II) in water
16.10-16.20	138/A7	Muhammad Bakhru Thohir	OPTICAL SENSOR FOR NICKEL BASED ON THIN FILMS OF SOL-GEL/PAPER WITH TEOS PRECURSOR AND LIGAN ±-FURILDIOXIME
16.20-16.30	168/A8	Erin Ryantin Gunawan	Separation of The Fatty Acid Ethanolamides Component Using High Performance Liquid Chromatography
16.30-16.40	169/A9	Dedy Suhendra	Lipase Catalyzed Production of N-Methyl Fatty Hydroxamic Acids from <i>Terminalia catappa</i> L. Seed Oil
16.40-16.50	171/A10	Refilda	Determination of Antioxidant in Fermented Red Betel Leaf Extract ( <i>Piper crocatum</i> ) and Its Effect on Red Chili Growth ( <i>Cansicum annum</i> L.)

15.20		Sinambela	Vanadyl $\beta$ -diketonate Complexes
16.00-16.10	355/E6	Winda Andika	Dammarane-type Triterpenoid from The Stem Bark of <i>Aglaia elaeagnoides</i> (A.Juss) Benth (Meliaceae)
16.10-16.20	24/E7	Jufrizal Syahri	QSAR STUDY ON FLUOROQUINOLONE DERIVATIVES AS POTENTIAL ANTIBACTERIAL AGENTS
16.20-16.30	33/E8	Triana Kusumaningsih	An efficient and greener synthesis of 2, 4-diacetylphloroglucinol catalyzed by sulphuric acid adsorbed on silica gel and its environmental assessment
16.30-16.40	71/E9	Budi Arifin	Synthesis of C-Prenylated 1,3-Diketone Intermediate of 3-Prenylflavone
16.40-16.50	344/E10	Bambang Purwono	SYNTHESIS AND ACTIVITY ASSAY OF BENZIMIDAZOLE DERIVATIVES AS AN ANTIMALARIAL

### Room Paralel 6 (Meeting Room E)

Time	ID/ Code	Presenter & Title	
14.30-14.40	8/F1	Sri Yadi Chalid	Profil of Peanut ( <i>Arachis hypogaea</i> L.) Protein Extract as the Reagents of Allergy Test with Skin Prick Test (SPT) Method
14.40-14.50	27/F2	Syafrizayanti	In vitro cytotoxicity of 3-Oxoolean-12-en-27-oic acid compound isolated from <i>Sandoricum koetjape</i> Merr bark against breast cancer cell lines
14.50-15.00	39/F3	La Ode Sumarlin	STUDY /ACTIVITIES INHIBITION HEP-2 CELLS BY INDONESIAN LOCAL HONEY
15.00-15.10	41/F4	Sandra Hernanto	Isolation and Purification of Angiotensin Converting Enzyme Inhibitory Peptides Derived from Soy milk Hydrolysates
15.10-15.20	72/F5	Suryani	Isolation And Molecular Identification Of Lactic Acid Bacteria (Lab) In Coconut Milk Fermentation
16.00-16.10	78/F6	Imelia dewi	Utilization of Ecoenzyme <i>Citrus reticulata</i> in microbial fuel cell as a new potential of renewable energy
16.10-16.20	92/F7	Hira Helwati	Active edible film from <i>Dioscorea hispida</i> Dennst starch-chitosan composite containing ascorbic acid and turmeric extract
16.20-	114/F8	Nikmatia	Evaluation of Dissolution Profiles of Bromelain from



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THE 8<sup>th</sup> INTERNATIONAL CONFERENCE OF THE INDOONESIAN CHEMICAL SOCIETY (ICICS)  
"Chemistry For Human Welfare"  
August 6<sup>th</sup> – 7<sup>th</sup> 2019, IPB International Convention Center, Bogor - Indonesia



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in  
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Prof. Dr. Harno Dwi Pranowo

President of Indonesian Chemical Society



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