

2NDINTERNATIONAL CONFERENCE ON NATURAL RESOURCES AND LIFE SCIENCES (NRLS 2018)

Managing Natural Resources for Better Health



Co-Organized by:

Faculty of Biotechnology Faculty of Pharmacy Faculty of Medicine

University of Surabaya

IBIS STYLES HOTEL JEMURSARI, SURABAYA AUGUST 23-24, 2018

Contents

Contents	2
Chief Organizer's Welcoming Speech	3
Rector's Opening Remarks	5
NRLS 2018 Commitee	
PROGRAM SCHEDULE	10
ORAL PRESENTATION SESSION	12
POSTER SESSION	17
INVITED SPEAKERS	20
Prof. Intan Ahmad	21
Erhan Simsek, Ph.D.	22
Assoc. Prof. Dr. Kanyaratt Supaibulwatana	23
Prof. Dr. Varaporn Junyaprasert	24
Assoc.Prof. Dr.Heni Rachmawati	26
Dr. Fazren Azmi	27
Dr.rer.nat. Sulistyo Emantoko Dwi Putra	28
Prof. Dr. Bob Wilffert	29
ORAL ABSTRACTS	30
POSTER ABSTRACTS	75
MISCELANEOUS	107
SPONSORS	114

Chief Organizer's Welcoming Speech

The honorable Rector of UBAYA Deans of UBAYA Faculties and faculty members, our eminent invited speakers, sponsors, ladies and gentlemen, a very good morning to you all!

As the times progressed, Biotechnology became evolved due to its wide scope of knowledge, or more easily called multidisciplinary. Many areas of science are biotechnology work areas, such as molecular biology, biochemistry, environmental biology, genetics, forensic biology, immunology, microbiology, pharmacology, botany, food technology and much more. It cannot be denied, each of these scholars have its own peculiarities, causing some difficulty of mixing up with each other. However, the combination of these disciplines is anticipated in order to bring more benefits to the audience than if the field of science is run independently.

Disruptive era is happening today, which is marked by a change in the existing global business order. Many established businesses are eroded by many businesses that are smaller because of the nature of sharing economy. Big retail uprooted because online stores began scattered. Big hotel uprooted due to business model like hospitality rental. It also may also have an impact on large industries that utilize natural resources, such as Monsanto or other major pharmaceutical industries. The use of natural resources whose information is more opened will be more welcome than the disclosed research results. Just imagine a science like Chinese traditional medicine, functional food, the use of markers with technology that can be distributed cheaply will explode in the market. This poses a challenge for scientists deepening the biological disciplines and natural resources to contribute to the wider community through their respective fields. The biotechnology community recognizes the need to work with others, such as experts from various fields such as pharmacy and medicine, to come up with ideas for health improvement efforts that can meet the needs of society and not just the science that dwells in the ivory tower. Therefore, the 2nd International Conference on Natural Resources and Life Sciences -NRLS 2018 this time theme "Managing Natural Resources for Better Health".

Coincide with it, the NRLS 2018 event also will be hosted for the Konsorsium Biologi Indonesia (KOBI) Congress-II and Ikatan Program Studi Bioteknologi Indonesia (IPSBI) Summit. It is likely that this event opens doors for collaborative opportunities for research and technology development among academics and professionals. Moreover, with the involvement of invited speakers from abroad, exchanges and allegedly research ideas with global trending can also occur.

On this occasion also, I want to inform the good news for all the colleagues, that Ubaya Biotech Store (UBS) has been initiated. UBS is a service center for biotechnology services and products which is a downstream part of research in the UBAYA Faculty of Biotechnology. Some products and services are still in the development stage, but to date, the item and service list is getting ready and increasing a lot to be too wasted if it is used only in the internal faculty. Going forward, we personally hope that will be a consortium of biotechnology services and products in the future, where relevant parties can exchange ideas in the development of biotechnology products and services and fulfill their needs.

We hope you will enjoy your time with us and being encouraged for the collaborations and friendship, scientific exchange, development of joint interests and project that are of scientific and economic importance in order to explore the natural resources and life sciences and their importance in the most aspect of living, e.g. food and health, agriculture, sustainable environment and renewable energy development.

Thank you for your time and have a nice day

Surabaya, August 23, 2018, Johan Sukweenadhi, Ph.D.

Rector's Opening Remarks

Good Morning,

The NRLS Committee, Distinguished Invited Speakers, Ladies and Gentlemen, all friends from all overseas as well as from different places in Indonesia,

It gives me great pleasure to extend to you all a very warm welcome to the University of Surabaya (UBAYA) Campus and to say how grateful we are that you have accepted our invitation to participate in this international conference held by the Faculty of Biotechnology, Faculty of Pharmacy and Faculty of Medicine UBAYA. I am so pleased to see many colleagues, professors, friends and families. We have here participants from seven countries, making our conference a global friendships celebration at once.

I would like to address my compliments to all committee and academic colleagues from UBAYA, who have been working a lot to prepare this event. Let me also address my gratitude also to industrial partners and sponsors participating in this conference. I also wish to specially welcome the representatives of biology and biotechnology related associations and express to you my deep appreciation for sharing this important moment.

After the implementation of 1st NRLS 2016 two years ago, this time the Faculty of Biotechnology works together with Faculty of Pharmacy and Faculty of Medicine, University of Surabaya in the implementation of second edition NRLS 2018. It is a great pleasure to me, knowing that three different faculties of Ubaya, can do such a wonderful collaboration to organize this scientific event beneficial to all parties. For your information, it is not the first time these three faculties work to collaborate with each other. Recently, at July 18th 2018, we inaugurated the new Laboratory named Kalbe Ubaya Hanbang-Bio Laboratory (abbreviated as KUH Laboratory), which was a collaboration project with the Industry. I hope the committee will have the opportunity to please you all taking a short visit to the KHU Lab at UBAYA Campus. All these events are actually part of our programs in celebrating the UBAYA 50Years Anniversary in 2018.

I have been informed that the theme of the today conference is "Managing Natural Resource for Better Health". To my understanding, this is then the Conference where you can meet colleagues not only from your own specialty area, but you can also build connection to many colleagues from other fields for the sake of complementing each other towards a better scientific and technological achievements and applications in the area of Natural Resources and Life Sciences.

I hope this conference provides you with a forum to exchange scientific ideas, inspire new research, and new contacts for closer co-operation, so that we can, together, envisage the future of a promising development of Natural Resources and Life Sciences to human's benefits. Please carry also with you the best wishes of UBAYA for a productive and successful conference, and a pleasant stay amongst you in Surabaya.

Finally, on behalf of UBAYA, I am very proud to declare that the 2018 International Conference NRLS-2018 is officially opened. Thank you.

Surabaya, August 23, 2018,

Prof. Ir. Joniarto Parung, MMBAT, Ph.D.

NRLS 2018 Commitee

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 - Dr.rer.nat. Sulistyo Emantoko D. P.
 - · Akhmad Subhkan, S.Tp.
 - Fitria Setya Megawati, S.Si.
 - Ayu Mayzuhroh, S.TP.

PROGRAM SCHEDULE

DAY I Thursday, August23, 2018

07.30-08.00	Registration	
08.00-08.15	Traditional Dance	UBAYA Dance Team
00.00-00.13		MC
	Opening Single Andrews National Antrews	1110
00 15 00 10	Singing: Indonesia National Anthem	Biotechnology student
08.15-08.40	Welcome speech I	Rector
	Welcome speech II	Chief Organizer(s)
	Opening ceremony (gong)	
Keynotes Sess	sion I	Moderator:
		Dr. rer. nat. Sulistyo Emantoko
08.40-09.15	Revisiting the capacity of Indonesia's	Prof. Intan Ahmad
00.40-07.13	Higher Education in response to	1101. IIItali Allillau
	environment, energy and sustainability	1
	challenges	
09.15-09.50	Solution to Discovery Metabolomics: High	Erhan Simsek, Ph.D.
	Resolution Mass Spectrometry with	
	Powerful Data Analysis Software	
09.50-10.05	Discussion	Moderator:
		Dr. rer. nat. Sulistyo
		Emantoko
10.05-10.20	Coffee break I	
Keynotes Sess	sion II	Moderator:
		IBM Artadana, M.Sc.
10.20-10.55	Genetic interference and modified	Assoc. Prof. Dr. Kanyaratt
	environments affected on growth and	Supaibulwatana
	terpenoid variations of Artemisia annua L.	
10.55-11.30	Role of Nanoparticles of Polymer-drug	Prof. Dr. Varaporn
	Conjugate for Effective Drug Delivery	Junyaprasert
11.30-11.45	Discussion	Moderator:
		IBM Artadana, M.Sc.
11.45-12.00	Sponsor presentation I	Sciencewerke
12.00-13.00	Lunch + Poster Session	
Parallel Session	on	
13.00-14.00	Parallel*session I	
14.00-14.15	Coffee break II	
14.15-15.15	Parallel session II	

DAY II Friday, August 24, 2018

	riday, August 24, 2018	
Plenary Session	on	
07.30-08.00	Registration	
08.00-08.05	Opening	MC
08.05-08.20	Traditional Dance	Pharmacy students
Keynotes Session I		Moderator:
		Dr. Mariana Wahjudi
08.20-08.55	(Title)	Prof. Dr. Jagat R. Kanwar
08.55-09.30	The pro-apoptotic effect of curcumin	Assoc. Prof. Dr. Heni
	nanoemulsion versus curcumin solution in	Rachmawati
	MCF-7 and MDA-MD cells in vitro	
09.30-09.45	Discussion	Moderator:
		Dr. Mariana Wahjudi
09.45-10.00	Coffee break I	
10.00-10.10	Welcome speech	Vice Rector
10.10-10.20	MoU Signing between UBAYA and other Bio	
Keynotes Sess	ion II	Moderator:
		Dr. Dra. R.R. Christina Avanti,
		M.Si., Apt.
10.20-10.55	Recent Advances in Nanotechnology-based Vaccines	Dr. Fazren Azmi
10.55-11.30	Placental Global and Specific DNA	Dr. rer. nat. Sulistyo Emantoko
	Methylation: A Mirror of Pregnancy and	
	Birth Outcome Quality	
11.30-11.45	Discussion	Moderator:
		Dr. Dra. R.R. Christina Avanti,
		M.Si., Apt.
11.45-12.00	Sponsor presentation II	Biotek Prima Indoplus
12.00-13.00	Lunch + Poster Session	
Parallel Session	·	
13.00-14.00	Parallel Session I	
Keynotes Sess	ion III	Moderator:
		Dr. Dra. R.R. Christina Avanti,
		M.Si., Apt.
14.00-14.35	Implementation of pharmacogenetics in clinical practice	Prof. Dr. Bob Willfert
14.35-14.45	Discussion	Moderator:
-		Dr. Dra. R.R. Christina Avanti,
		M.Si., Apt.
14.45-15.00	Coffee break II	
Parallel Session	n	
15.00-16.00	Parallel session II	-
15.00-16.15	Announcement of Best Poster and Best Oral Presenter	MC
16.15-16.30	Closing	MC

ORAL PRESENTATION SESSION

DAY I Thursday, August 23, 2018

MEDICAL AND FORENSICS – BR LINE ROOM (OP-A-1 to OP-A-6)

CODE	TITLE	PRESENTER	MODERATOR
OP-A-1	Quantification of Expression of Glucocorticoid Receptor of the Offspring of Mus musculus BALB/c of Stressed Parents: Folic Acid Intervention Study	Shintya Tanggara	
OP-A-2	Understanding the Current Event of Tuberculosis in Indonesia : Challenges and Opportunities	Risma Ikawaty	Mariana Wahyudi
OP-A-3	Anticancer Potential from Ethanol Extract of Zanthoxylum acanthopodium Seed to Against MCF-7 Cell Line	Emilia Vivi Arsita	
	DISCUSSION		
	COFFEE BREAK		
OP-A-4	Biological Screening of Leaf and Fruit Extract (Ficuscarica L) using Brine Shrimp Lethality Test (BSLT) Toxicity Bioassay on Arthemia salina Leach Larvae	Risa Purnamasari	Sulistyo Emantoko
OP-A-5	Designing of a Less- Immunogenic Nattokinase from Bacillussubtilis subsp. natto: A Computational Mutagenesis	Yoanes Maria Vianney	
OP-A-6	Alpha Mangostin Effect on MDA Level and The Pancreatic Morphology Rattus novergicus Induced Alloxan	Devyana Dyah Wulandari	

AGRICULTURE – BR STRIPES ROOM (OP-B-1 to OP-B-10)

CODE	TITLE	PRESENTER	MODERATOR
OP-B-1	Plant Regeneration Through Somatic Embryogenesis from Callus of <i>Vanda tricolor</i> Lindl. var. pallid	Popy Hartatie Hardjo	
OP-B-2	Influence of Types and Concentration of Natural Pesticides to Mortality of Red Mite (<i>Panonychuscitri</i> McGregor)	Dyah Roeswitawati	
OP-B-3	Effect of Salinity on Biomass Allocation and Whole Plant Mass of Rice (<i>Oryzasativa</i> L) Related to Growth at Panicle Initiation and Heading Stages	Niki Habibi	Johan Sukweenadhi
OP-B-4	Study of Ccs and pAMT Gene of Genotype 1 Cayenne Pepper (Capsicumfrutescens L.) Original Type and Mutant	Nur Rahmattullah	
OP-B-5	Menthol from Stem and Leaf invitroMenthapiperita	Bintang Kerta Wijaya	
	DISCUSSION		
	COFFEE BREAK		1000
OP-B-6	Analysis of Abscisic Acid, Salicylic Acid and GABA in Several Oil Palm Progenies in Drought Stress	Susy Saadah	
OP-B-7	Uptake of Macro Nutrients and Growth of Mahang plants (Macaranga gigantea)	Dwi Susanto	
OP-B-8	The Evaluation of Breeding Value and Most Probable Producing Ability for the Basis Selection of Ettawa Croosbred Goat at Malang Region, East Java, Indonesia	Aris Winaya	Popy Hartatie Hardjo
OP-B-9	InVitro Multiplication Of Fig (FicuscaricaL.) for Commercially Industry	Ivon Grace Paulin	
OP-B-10	Mild Alkaline Pretreatment on Sugarcane Bagasse: Effects of Time and Lime Ratio to Dry Bagasse	Lieke Riadi	
	DISCUSSION		

• FOOD AND NUTRITION - BR CURVE ROOM (OP-D-1 to OP-D-10)

CODE	TITLE	PRESENTER	MODERATOR
OP-D-1	Effect of Phosphoric Acid Pretreatment on Characterization of Gelatin from Broiler Chicken Bones	Dewi Yuliani	,
OP-D-2	Molecular Characterization of Potentially Probiotic Bacterium Isolate from Mackerel Fish (Rastrelliger sp.)	Yulia Sari Ismail	
OP-D-3	Profilling Of Shrimp Shell Hydrolysis Product By Chitinase From <i>Bacillus licheniformis</i> B2	Maria Goretti	Sulistyo Emantoko
OP-D-4	Production, Purification and Characterization of Chitinase from Bacillus licheniformis D11	Adelia Angelin Anastasia	
OP-D-5	Purification and Characterization Of Chitinase from <i>Paenibacillus</i> sp.	Maria Fidelia Susanto	
	DISCUSSION		
	COFFEE BR	EAK	
OP-D-6	Rapid Reversed-Phase High Performance Liquid Chromatography Assay of tert- Butylhydroquinone content in Food Products	Steven Sutanto	
OP-D-7	Characterization of Thermostable Chitinase from Bacillus licheniformis B2	Nalista Jayanthi	
OP-D-8	The Isolation and Screening of Proteolytic Bacteria from Sidoarjo Shrimp Paste as Protease Source to Extract the Collagen Protein of Milkfish Scales	Evi Susanti	Ardhia Deasy R.D.
OP-D-9	A New Specific Primer for Detection of Pig genome by Quantitative Polymerase Chain Reaction	Mariana Wahjudi	
OP-D-10	The Method of Growing Tubular Acetobacter xylinum on the Solid Media as Precursor of Sausage Casing	Salafudin	
-	DISCUSSION		

DAY II Friday, 24August 2018

MEDICAL AND FORENSICS – BR STRIPES ROOM (OP-A-7 to OP-A-14)

CODE	TITLE	PRESENTER	MODERATOR
OP-A-7	InVivo Efficiency of Collagen Extract from Sangkuriang Catfish (Clariasgariepinus var. Sangkuriang) Skin on MDA Levels and Macrophages Total in Burn Wound Healing	Andini Ary	
OP-A-8	The Effect Of Folic Acid Supplementation In Parental Stress Mouse Toward NR3C1 Expression Alteration In The Offspring	Patricia	Mariana Wahyudi
OP-A-9	InSilico Mutagenesis: Decreasing the Immunogenicity of Botulinum toxin Type A	Stanley Evander Emeltan Tjoa	
OP-A-10	Comparison of food intake containing vitamin D with BMI of Geriatric patients in Sidoarjo, East Java	Rivan Virlando Suryadinata	
	DISCUSSION COFFEE BREAK	50 000 000 000 000 000 000 000 000 000	
OP-A-11	Influenceof Folic Acid Diet on Maternal Stress to Offspring Stress Level and NR3C/Expression	Natanya	Sulistyo Emantoko
OP-A-12	Facile Green Synthesis of . Silver Nanoparticles from Ethanol Extract of Plantagomajor L. and its antibacterial activity	Sukweenadhi Johan	
OP-A-13	InVitro Evaluation of Chitosan- DNA Plasmid Complex Encoding Jembrana Disease Virus Tat Protein as a Vaccine Candidate	Asmarani Kusumawati	
OP-A-14	The Relationship between Asthma Control - Methylxanthine used and cypla2*1fGene Polymorphisms	Mariana Wahjudi	
	DISCUSSION		

• ENVIRONMENT & ENERGY(1) – BR CURVE ROOM (OP-C-1 to OP-C-6)

	OF-C-0)		
CODE	TITLE	PRESENTER	MODERATOR
OP-C-1	Utilization Cytochrome B Gene for Phylogeny Analysis of Cuora amboinensis to Prevent Extinction: Preliminary Study	Dwi Martha Nur Aditya	,
OP-C-2	Profile of Antibiotic Compounds from Trichodermaharzianumin Controlling Aspergillus flavusonBaliLontar	IBG Darmayasa	Mangihot Tua Goeltom
OP-C-3	Plasmid Curing Analysis of Chromate Reducing Bacteria Isolated from Serpentine Soil	Badruzsaufari	
	DISCUSSION		
	COFFEE BREAK		
OP-C-4	Effect of Cycle Time on Biokinetics Parameters in Tapioca Wastewater Treatment using Sequencing Batch Reactor	Happy Mulyani	Finna
OP-C-5	The Utilization of Tofu Waste for the Cultivation of Spirulina for Biomass Production	Yalun Arifin	Fillia
OP-C-6	Thermostable Chitinase- Producing Bacterium from Ijen Hot Spring – Indonesia: Isolation, Identification and Characterization	Ruth Chrisnasari	
	DISCUSSION		

POSTER SESSION SCHEDULE

Thursday – Friday, 23 – 24 August 2018 Prefunction Area

MEDICAL AND FORENSICS (PP-A-1 to PP-A-4)

CODE	TITLE	PRESENTER
PP-A-1	Antibacterial Activity Roll on Deodorant With Plucheaindica (L.) Leaf Extract Against Staphylococcusepidermidis in-Vitro	Oom Komala
PP-A-2	Formulation of <i>Padinaaustralis</i> Extract Tablet as Antibacterial <i>Escherichiacoli</i>	Tri Saptari Haryani
PP-A-3	The Potential of Pacitan Orange (Citrussinensis) Peel Extract as a Stimulus of Regeneration Cells in Rattus norvegicus Burns	Rinza Rahmawati Samsudin
PP-A-4	Characterization and Antibacterial Activity Test of Simbion Sponge Bacteria Against Pathogenic Bacteria	Endang

AGRICULTURE (PP-B-1 to PP-B-5)

TITLE	PRESENTER
Genetic Variability of Soybean Genotypes for Pod Shattering Resistance using Oven Methods	Ayda Krisnawati
Characterization of Adaptive and Productive Soybean Genotypes in Dry Land of Kalimantan, Indonesia	M Muchlish Adie
The Performance of Three Local Rice (Oryzasativa) Cultivar from East Kalimantan under Osmotic Stress at Early Seedling Stage	Ida Bagus Made Artadana
Production Potential of Sweet Corn (Zeamays Linn. Var. 17accharate) to Different Planting Pattern and P Sources	P G Adi Nurani
Local Variety of "Uwi" (Dioscoreaalata Linn.) Plant in West Region of East Java Upland	Wuryanto
	Genetic Variability of Soybean Genotypes for Pod Shattering Resistance using Oven Methods Characterization of Adaptive and Productive Soybean Genotypes in Dry Land of Kalimantan, Indonesia The Performance of Three Local Rice (Oryzasativa) Cultivar from East Kalimantan under Osmotic Stress at Early Seedling Stage Production Potential of Sweet Corn (Zeamays Linn. Var. 17accharate) to Different Planting Pattern and P Sources Local Variety of "Uwi" (Dioscoreaalata Linn.) Plant

ENVIRONMENT & ENERGY (PP-C-1 to PP-C-7)

CODE	TITLE	PRESENTER
PP-C-1	Phytotoxicity and Developmental Effect of CASHEW Nut Shell Extract against Nymphal Instar of Whitefly (Bemisiatabaci Genn.)	Wuye Ria Andayanie
PP-C-2	Applying Species Distribution Models to Identify the Conservation Area by Area Habitat Suitability: A case study using Zanthoxylumacanthopodium DC.	Cicik Suriani
PP-C-3	An Engineering of Floating Net Aquaculture System of Tiger Grouper [Ephinephelusfuscoguttatus (Forsskal, 1775)] on suplementation Bacillussubtilis (Ehrenberg, 1835) Probiotic in the Diet	D Rachmawati
PP-C-4	Performance UNEJ #1 Stove Low Energy using Bio-pellet from Coffee Husk	S S Harsono
PP-C-5	Fish Diversity in Cimanuk River Before and After Rainy Season in Jatigede reservoir, West Java, Indonesia	T Herawati
PP-C-6	The Fe Non-heme Prospect in Coffee Flour made from Coffee Solid Waste: Mini review	RHSetiabudi
PP-C-7	Does the utilization of waste as the green energy alternative economically feasible?	N Syaifudin

FOOD AND NUTRITION (PP-D-1 to PP-D-10)

CODE	TITLE	PRESENTER
PP-D-1	Preparation and Characterization of Butterfly Pea Color Extract Encapsulated with Various Coating Agents	Hana Susanti Maleta
PP-D-2	Photodynamic Inactivation of <i>Escherichiacoli</i> by the Crude Pigments Extract of Various Tea Dregs	Renny Indrawati
PP-D-3	The Function of Ethanolic Extract Plectranthusambioinicus Lour Spreng as Preventive and Curative Against The Effects of Rhodamine B in Rats	Melva Silitonga
PP-D-4	Potency of Vegetable Oil to Increase Microflora Health Using <i>In Vitro</i> and <i>In Vivo</i> Evaluation	Nurhayati

University of Surabaya (UBAYA)

Quality and Consumer Acceptance Improvement on Prime Local Soy Milk (Glycinemax (L) Merrill) Varieties	Elfi Anis Saati
The Utilization of Telang Flower as Healthy- Natural Food Coloring on Dawet Drink	Elfi Anis Saati
Artificial Rice as an Alternative Functional Food to Support Food Diversification Program	Erica Valencia
Critical Aspects to Produce Low-Cost Protein Molecular Weight Marker	Leonardo Tejo Gunawan
Potency healthy <i>Moringaoleifera</i> (Lamk) leaf flour as home-agroindustry in rural area of Eastren East Java - Indonesia	S.S Harsono
Quality of Milk Pasteurization of Ginger in Cold Strorage	KK Khotimah
	on Prime Local Soy Milk (Glycinemax (L) Merrill) Varieties The Utilization of Telang Flower as Healthy-Natural Food Coloring on Dawet Drink Artificial Rice as an Alternative Functional Food to Support Food Diversification Program Critical Aspects to Produce Low-Cost Protein Molecular Weight Marker Potency healthy Moringaoleifera (Lamk) leaf flour as home-agroindustry in rural area of Eastren East Java - Indonesia Quality of Milk Pasteurization of Ginger in Cold

OP-A-10

Comparison of Food Intake Containing Vitamin D with BMI of Geriatric Patients in Sidoarjo, East Java

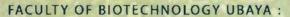
Rivan Virlando Suryadinata*, Sajuni Wijaya, Risma Ikawaty

Medical Faculty of Surabaya University *Corresponding author: rivan.virlando.s@staff.ubaya.ac.id

Abstract

Previous studies showed relationship of vitamin D deficiency with obesity. This study was based on observation of food intake containing vitamin D with BMI geriatric patients in Sidoarjo, East Java. We used case control design with semi-quantitative questionnaire. Eightythree obese geriatric patients and 83 non-obese geriatric patients (4.82% thin, 84.34% normal, and 10.84% at risk) were observed. Sampling technique was random sampling (non-probability sampling) with purposive sampling method and tested by using Chi square. From the obese group we found 76 patients had vitamin D deficiency and 7 patients had enough vitamin D supplementation, while in the non-obese group, 80 patients had deficiency of vitamin D intake, and 3 patients had enough vitamin D (p = 0,192 (p> 0,05)). Thus we concluded, there was no significant difference of food intake containing vitamin D on both group, obese and non-obese geriatric patients.

Keywords: Vitamin D, geriatric, obesity



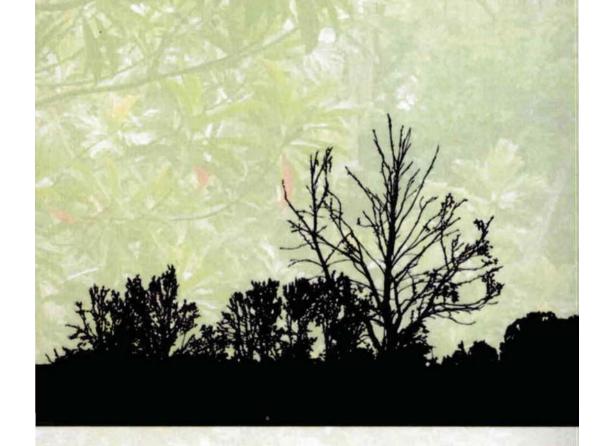
SECRETARIAT: FG BUILDING 2ND FLOOR - FACULTY OF BIOTECHNOLOGY

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