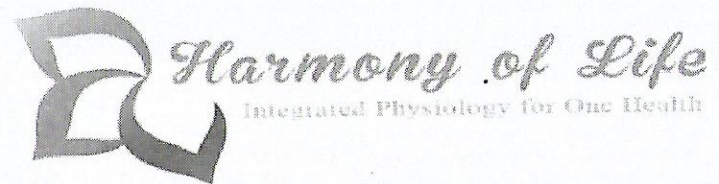


PROGRAMME BOOK

**THE 17th NATIONAL CONGRESS
OF THE INDONESIAN PHYSIOLOGY
SOCIETY AND 27th INTERNATIONAL
PHYSIOLOGY SEMINAR 2018**

Integrated Physiology for One Health



THE 17th NATIONAL CONGRESS OF THE INDONESIAN
PHYSIOLOGY SOCIETY
27th INTERNATIONAL WORKSHOP, SYMPOSIUM AND SEMINAR
OF PHYSIOLOGY
(BIPSC 2018)
June 28-30, 2018, Bandung, Indonesia

PROGRAMME BOOK (ABSTRACT)



Indonesian Physiological Society, Bandung Branch
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Harmony of Life
Integrated Physiology for One Health



The 17th National Congress of The Indonesian Physiology Society and 27th International Physiology Seminar 2018 (BIPSC 2018)
Bandung, 28th -30th of June 2018

Preface

Dear colleagues,

Welcome to the 17th National Congress of Indonesian Physiology Society and the 27th International Physiology Seminar (BIPSC) in Bandung, West Java, Indonesia. BIPSC 2018 is an annual meeting of the Indonesian Physiology Society. This year we welcome all researchers and lecturers to share their interesting report in all aspects of Physiological Sciences, including advanced research and translational physiology including in human, plant and animal study area. The theme for the congress is "Harmony of life: Integrated Physiology for one health". We believe that harmony of animal, environment (plant health) and human health as one triad health will be a key point to improve human quality of life.

We had received more than 100 abstracts and more than 150 registrations from Indonesia and other countries especially Asian and Oceanian countries. Guest speakers are coming from many renowned universities in London, Japan, Singapore, Malaysia, Australia, and also from Indonesia itself. They will share their knowledge and experiences on related topics during the event. The congress will be associated with Teaching Workshops and Training Courses for young researchers. There are numerous opportunities to gain new knowledge, share technical expertise and the latest research discoveries, and to enjoy scientific and educational interactions.

Through the workshop, symposium and seminar, the Indonesian Physiological Society aims to educate the physiologist, exercise physiologist, specialist, general practitioner, coaches and other health professionals by sharing the latest science and technology to prevent Non-Communicable Diseases (NCD) and Improve Athlete Performance.

Finally, the output from this event will be reviewed and the selected full manuscript will be published in national or international indexed Scopus partner journal.

Whether you are attending the workshop, symposium or seminar, we wish you a successful event. We hope you will enjoy your visit and leave with many happy memories from BIPSC2018.

Chairman of BIPSC 2018,

BIPSC 2018
Harmony of Life
Integrated Physiology for One Health

Dr. Vita Murniati Tarawan, dr., Sp. OG., M.Kes., AIFO., SH.

Workshop 1			
Venue	Time	Topic	Speaker
Eijkman Building	09.00-16.00	Western Blot	Ronny Lesmana, dr.,MKes.,PhD Andri Rezano, dr., M.Kes, PhD M.Rizky Anggun dr.,Mkes.,PhD Susianti
Workshop 2			
Venue	Time	Topic	Speaker
Grand Tjokro	09.00-11.30	Exercise Physiology I: Exercise endocrinology and Doping assessment	Prof. Dr Ieva B. Akbar.,dr.,AIF Dr.Vita M.Tarawan, dr.,SpOG.,Mkes.,SH.,AIF
	13.00-16.00	Exercise Physiology II: Implementation of Sport Science in athlete training program	Prof.Dr.Ambrosius Purba dr.,MS.,AIF Prof Beltasar Tarigan Dr.dr.Ermita Isfandiary Ibrahim, MS (UI)
Workshop 3			
Venue	Time	Topic	Speaker
Eijkman Building	09.00-16.00	Cell Culturing, RNA Extraction, RT PCR	dr Edward Jayahadi., M.sc
Workshop 4			
Venue	Time	Topic	Speaker
Grand Tjokro	09.00-16.00	Scientific Writing	Ronald Hamidie.,dr.,PhD Kasno Pamungkas SS.,MHum Ahmad Faried.,dr.,SpBS.,PhD Rizky Abdullah, Apt., PhD Dr. Dra. Triadiati M.Si
Workshop 5			
Venue	Time	Topic	Speaker
Grand Tjokro	13.00-15.00	Teaching Physiology I: Cross Organ Principles and Inter Organ Physiology	Prof. Cheng Hwee Ming
	15.30-18.30	Teaching Physiology II: Virtual Physiology Laboratory Experiments	Adrianta.,dr.,AIFM.,AIFO Maria del Mar Quiroga (Monash University)
	18.00-21.00	Welcome Dinner	Eijkman Building

Day 2 (Friday, 29th June 2018)

Venue	Time	Activity	Topics	Speaker	
Grand Tjokro Ballroom	07.30-08.30	Registration			
	08.30-09.00	Opening Ceremony	Sundanese Traditional Dance Indonesia Raya Hymne IAIFI Sambutan Ketua Panitia Sambutan PP IAIFI Pembukaan oleh Rektor UNPAD		
	09.00-10.00	Plenary Lecture		Menkes Indonesia (atau yang mewakili) Prof Tri Hanggono Achmad (Rektor UNPAD)	
	10.00-11.30	Keynote Speaker: Physiology for One Health		Prof.Dr.drh.Agik Suprayogi, MSc.Ag AIFH (IPB) Prof.Dr. A. Purba, dr., AIF (Unpad) Dylan Morrissey (Queen Mary University London)	
	11.45-13.00	LUNCH + Break - Friday Pray			
Parallel Symposia Ruang I					
Venue A	Time	Theme	Topics	Speaker	Moderator
	13.00-14.30	Symposia I: Physiological updates on Aging, Metabolic and Endocrine	Physiology of Aging	Prof. Dr. Ieva Baniasih Akbar, dr.,Mkes.,AIF (Unisba) Paul M Yen (Duke NUS)	Astrid Feinisa
			Sarcopenia Obesity: New Updates	Lazuardi, dr, SpPD	
	14.30-16.00	Symposia II: Updates on Cardiac Physiology		Dr. Rizky M.Akbar, dr.,SpJP (Unpad) Badai Tiksnadi, dr., SpJP dr. M.Iqbal, SpJP (Unpad)	Nova Sylvania
	16.00-16.30	Coffee Break and Poster Session			
	16.30-18.00	Oral Presentation			
	18.00-21.00	Kongress Dinner			

Parallel Symposia Ruang II				
Venue B	Time	Theme	Speaker	Moderator
	13.00-14.30	Symposia III: Animal Physiology	Dr. Endang Yuni Setyowati, drh.,MSc.Ag (Unpad) Prof Dr. Roostita B Prof.Ir.Wasmen Menalu PhD (IPB)	Pranyata Tangguh Waskita, drh (Unpad)
	14.30-16.00	Symposia IV: Neurophysiology and Sport Biomechanics	Prof.Dr.dr.I Putu Gde Adiatmika, Mkes (Unud) Hanna, dr., Mkes.,PhD (Unpad) Siti Baitul Mukaromah	dr. Renaldi Prasetya, Mkes.,SpOT (Unpad)
	16.00-16.30	Coffee Break and Poster Session		
	16.30-18.00	Oral Presentation		
Parallel Symposia Ruang III				
Venue C	Time	Theme	Speaker	Moderator
	13.00-14.30	Symposium V: Exercise Physiology	Prof. Sayuti Leonardo Lubis.,dr.,Mkes.,AIFO Prof. Beltazar Tarigan (UPI)	Titing Nurhayati
	14.30-16.00	Symposium VI : Biomolecular Approach of Exercise Physiology for Health and Athletes Performance	Prof Irawan Yusuf (Unhas) Dr.dr.Ermita Isfandiary Ibrahim, MS (UI) Prof Gusbakti Reinaldi (UISU)	Yosef Purwoko
	16.00-16.30	Coffee Break and Poster Session		
	16.30-18.00	Oral Presentation		

Day 3 (Saturday, 30th June 2018)

Parallel Symposia Ruang I				
Venue A	Time	Theme	Speaker	Moderator
	08.00-10.00	Symposia VII: Aging, Metabolic and Endocrine Physiology	Noriyuki Koibuchi (Gunma University) Annisa Widjaya (DUKE NUS) Prof. Naguib Saleh MD (UM)	Prof.Lovita Adriani.,Ir.,MS
	10.00-11.00	Symposia VIII: Molecular Physiology	Dr.med.Setiawan, dr., AIF (Unpad) Winifred PhD (DUKE NUS)	Nur Atik
Parallel Symposia Ruang II				
Venue B	Time	Theme	Speaker	Moderator
	08.00-10.00	Symposia IX: Plant Physiology	Dr. Dra. Triadiati M.Si (IPB) Noladhi Wicaksana, SP.,MP.,PhD (Unpad) Dr. rer nat Soeseno Amien	Kadapi
	10.00-11.00	Symposia X: Psychophysiology	Prof Cheng Hwee Ming Aulia	Yuni Susanti
Parallel Symposia Ruang III				
Venue C	Time	Theme	Speaker	Moderator
	08.00-10.00	Symposia XI: Physiological Prespective of Doping	Ronny Lesmana, dr.,MKes.,PhD (Unpad) Dr.Vita M.Tarawan, dr.,SpOG.,Mkes.,SH.,AIF (Unpad) Dr. Gaga Irawan, dr., Mkes (Unpad)	Titing Nurhayati
	10.00-11.30	Symposia XII: Pharmacophysiology	Keri Lestari, PhD (Unpad) Rizky Abdulah, PhD (Unpad) Melisa PhD (Unpad)	Dr. Irma Melyar Puspitasari
	11.00-12.00	Oral Presentation		
	12.00-13.00	Lunch Break		
	13.00-15.00	Oral Presentation		
	15.00-15.30	Coffee Break & Poster Session		
	15.30-16.30	Closing Remarks & Award		

SUSUNAN KEPANITIAAN

KONGRES NASIONAL IAIFI KE-XVII DAN 27th INTERNATIONAL WORKSHOP, SYMPOSIUM SEMINAR of PHYSIOLOGY, BANDUNG, 28-30 JUNI 2018

Penasehat	: Rektor Universitas Padjadjaran
Pengarah:	: Dr. med. Setiawan, dr., M.Kes., AIFM (Dekan FK-UNPAD, Bandung) Prof. Dr. drh. Agik Suprayogi, MSc, AIF Prof. Adnyana Manuaba Hon.FErg.S., FIPS, SF Prof. Dr. H.R. Soedarso Djojonegoro, dr., AIF Prof. Dr. dr. A Purba, MSc, AIFO Prof. Dr. Wahyu Kahiwikarta, dr., MS. Prof. Dr. Ir. H. Mochamad Bintoro, M. Agr Prof. Dr. Beltasar Tarigan, MS, AIFO Prof. Dr. Ieva B. Akbar, dr., AIF. Prof. Dr. dr. I Ketut Tirtayasa Prof. Dr. Sayuti Syahara, MS., AIFO Prof. Dr. drh. Pudji Astuti, M.P
Ketua	: Dr. Vita Murniati Tarawan, dr., M.Kes., SpOG., AIFO, SH
Sekretaris Umum	: Ronny Lesmana, dr., M.Kes., Ph.D.
Sekretaris I	: Yuni Susanti Pratiwi, dr., M.Kes., AIFO
Sekretaris II	: Tyagita, drh., MVSc
Staf Kesekretariatan	: Aziiz M. Rosdianto, Skep., Ns., MH.Kes., MSi. Aep Kusnandar, SSi. Susianti, SSi. dr. Naufal M. Nurdin. S.ked. M.Si
Bendahara Umum	: Hanna, dr., M.Kes., PhD, AIFO
Bendahara	: Julia Winda Gunadi, dr., M.Kes Titing Nurhayati, dr., M.Kes
Bidang Ilmiah	:
Koordinator	: Ronald Hamidie, dr., PhD
Sekretaris	: Lucky Angkawidjaya, dr., M.Pd
Anggota	: Dr. Caecilia, drg. Dr. Sri Tjahajawati Dr. Reni Farenia, dr., M. Kes
Bidang Workshop	:
Koordinator	: Hanna, dr., MKes., PhD
Sekretaris	: Stella Tinia dr, M.Kes
Anggota	: Susianti, S.Si.
Bidang Sponsor dan Pameran	:
Koordinator	: Dr. M. Rizki Akbar, dr., Sp.JP(K), M.Kes
Sekretaris	: Rudolf Andean, dr., Sp.PD, M.Kes.
Anggota	: Renaldi Nagar Rasyid, dr., SpOT Widayanti, dr., M.Kes. Apen, dr., SpPD

Bidang Program dan Protokoler (welcome dinner)	:	
Ketua	:	Nova Sylviana, dr., M.Kes.
Sekretaris	:	Decky dr., M.Kes Naufal M. Nurdin, dr., S.Ked., M.Si Dr. Triadiati, MSI, AIFT Dr. Drh. Aryani Sismin Satijaningtijas, MSc.
Bidang Sosial (Hospitality dan Ladies Program)	:	
Ketua	:	Kartika Indah Sari, drg., M.Kes
Sekretaris	:	Anggun, drg
Bidang Publikasi dan Dokumentasi	:	
Koordinator	:	Harijadi, dr.
Sekretaris	:	Decky, dr., M. Kes
	:	
Bidang Konsumsi	:	
Koordinator	:	Juliati, dr., AIF
Sekretaris	:	Yuni Susanti Pratiwi, dr., M.Kes., AIFO
Anggota	:	Eka, dr.
Bidang Logistik	:	
Koordinator	:	Ronny, dr., M.Kes., PhD
Sekretaris	:	Fathul Huda, dr., PhD
Anggota	:	Dr. Leonardo Lubis, dr., M.Kes., AIFO Aziz MR Masri, S.Si Edi Sukmayadi Wanto

Tanggal : 15 Februari 2018

Ketua Umum PP IAIFI

Prof. Dr. drh. Agik Suprayogi, M.Sc, AIF

The effect of Ambon Banana stems sap (*Musa paradisiaca L var sapientum*) as an anti-angiogenesis towards HUVEC induced by IL1 and CdCl₂

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Tumors are characterized by an increase in angiogenesis that is identical to cell growth, invasion, and metastasis. Contamination of heavy metal such as Cadmium causes cell transformed into malignancy. VEGF levels and migration are markers of angiogenesis process. Ambon banana is a plant that became local wisdom of the Indonesian nation which is used as a treatment therapy of various diseases. The antioxidant contains inside this banana stem sap according to some studies are useful to inhibit the proliferative process or excessive migration in cases of tumor or cancer. The aim of this research to look at the anti-angiogenesis effect through migration and VEGF levels on HUVECS which induced by IL1 and CdCl₂. About 70-80% confluent HUVECs were divided into five groups. The control group was HUVEC were left within 12 hours then scratched and incubated in 24 hours. Induction group was induced by IL1 (200ng / ml) in 12 hours then scratched and was given CdCl₂ (24,154 µg / L) in medium and incubated in 24 hours. The treatment group was HUVEC induced by IL-1 (200 ng/ml) for 12 hours scratched and was given CdCl₂ (24,154 µg/L) along with various concentrations of Ambon banana sap (0.125%, 0.25%, 0.5%) then incubated for 24 hours. Migration measurements were performed by scratch assay at 12 and 24 hours and the measurement of VEGF levels on culture medium was done at 12 and 24 using elisa method. Data were analyzed using SPSS software. Ambon banana stem sap inhibit excessive migration on IL-1 and CdCl₂ induced HUVECs on certain time and concentration. Administration of Ambon banana stem sap is also able to downregulate VEGF levels at the certain time and concentration. Ambon banana stem sap can suppress excessive angiogenesis process due to induction of IL1 and CdCl₂ in in-vitro study on HUVEC.

Keyword: HUVEC, CdCl₂, Ambon banana stem sap, migration, VEGF