

# **CONFERENCE BOOK**

# 2 SKIC-MHS Syiah Kuala International Conference on Medicine and Health Sciences



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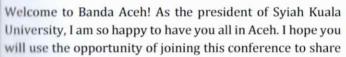


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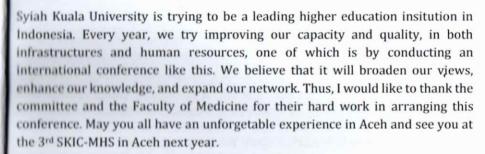
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### WELCOME REMARK BY THE PRESIDENT OF SYIAH KUALA UNIVERSITY

Dear participants of the 2nd Syiah Kuala International Conference on Medicine and Health Sciences 2018,



knowledge and experiences as well as make new friends. I also wish that you will enjoy the beauty and unique of Banda Aceh during your stay here.



Regards,

Prof. Samsul Rizal, M.Eng., Ph.D President of Syiah Kuala University











# WELCOME MESSAGE FROM THE DEAN

It is an honor and privilege for me to welcome you to the 2nd Syiah Kuala International Conference on Medical and Health Sciences (SKIC-MHS) 2018. I am also delighted to welcome all the distinguished speakers that have traveled from all regions of the world to be present at this important meeting. I thank the experts for accepting our invitation to share expertise and latest research results.



We hope that participants would take this opportunity to expand their network and establish collaborative ties with speakers and participants coming from other countries.

We would like to thank all of our generous sponsors and everyone who has made this conference such a success. Without their generous support and excellent arrangements, this conference would not have been possible. The efforts of the organizing committee are to be appreciated, in their cooperative spirit and extraordinary efforts endeavor to conduct the conference in a befitting manner.

On behalf of the Faculty of Medicine, Syiah Kuala University, we sincerely hope you will enjoy the conference and your stay in Banda Aceh. We thank all of you for choosing to attend this conference and truly make it the experience we are hoping it will be.

Sincerely,

**Prof. Maimun Syukri, MD, Ph.D**Dean of Faculty of Medicine, Syiah Kuala University

#### WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the SKIC-MHS 2018 organizing committee, I am honored and delighted to welcome all the participants to the 2nd Sylah Kuala International Conference on Medical and Health Sciences (SKIC-MHS) 2018.



The theme of this year's conference, "Tropical Medicine and Non-Communicable Diseases: from Basic to Clinical Practice." The conference provides an opportunity for knowledge and experience exchange and invites clinical experts, public health practitioners,

medical scientists and researchers, decision makers and stakeholders from all part of society and all regions of the world. I hope it will be a forum for the participants to share their idea, concepts, best practices, and critical analysis with their international peers.

Beyond the symposium and technical presentations, this conference is also enriched by several activities including pre-conference workshop, lunch symposium and meet the expert session. We were fortunate to have seven well-known invited speakers come from Indonesia, Australia, Taiwan, Malaysia, and Germany to present the exciting topit from their field. In addition to speakers and presentations, over 93 technical papers in the conference split between 32 oral presentations and 61 e-poster presentations.

All selected papers (oral or poster) in the 2nd SKIC-MHS 2018 will be published in the SCITEPRESS Proceeding or Indonesian Biomedical Journal (both indexed by SCOPUS). We also prepare a proceeding with ISSN to publish the non-selected articles.

As a conference chair of the SKIC-MHS 2018, I know that the success of the conference depends ultimately on the many people who have worked with us in planning and organizing both the technical program and supporting social arrangements. Recognition should go to the all organizing committee members who have all worked extremely hard for the details of essential aspects of the conference programs.

Finally, to all participants, I hope you enjoy the conference as much as I have enjoyed being part of organizing it.

Sincerely,

Assoc Prof. Kurnia Fitri Jamil, MD, Ph.D Chair of the 2nd SKIC-MHS 2018





The 2<sup>ND</sup> Syiah Kuala International Conference on Medicine and Health Science (the 2<sup>nd</sup> SKIC-MHS)

"TROPICAL MEDICINE AND NON-COMMUNICABLE DISEASES: FROM BASIC TO CLINICAL PRACTICE"

Hermes Palace Hotel, Banda Aceh, Indonesia September  $7^{th}$  –  $8^{th}$  , 2018

Time	Agenda			
	Aceh 1	Aceh 2		
	Day 1 (Friday, 7th September	2018)		
07.30-08.00	Registration			
08.00-09.00	Oral Presentation 1a (5 papers, @ 10 mins)  e-Poster Presentation 1a (10 e-posters, @ 5 mins) presented at  Madinah Room	Oral Presentation 1b (5 papers, @ 10 mins) e-Poster Presentation 1b (10 e-posters, @ 5 mins)		
09.15-10.00	Madinah Room presented at Madinah Room  Opening Ceremony			
09.15-09.20	Welcome remark by MC			
09.20-09.25	Recitation of Al-Our'an (by Medical student) follows			
09.25-09.30	Recitation of Al-Qur'an (by Medical student) followed by Du'a  Opening remark by the Chair of the 2rd SVIC NIV.			
09.30-09.35	Opening remark by the Chair of the 2 <sup>nd</sup> SKIC-MHS 2017			
09.35-09.45	Opening remark by the Rector of Syiah Kuala University			
09.45-09.50	Aceh Traditional Dance: Rapa'i			
09.50-09.55	MoU Signing by Faculty of Medicine SKU and UKM			
09.55-10.00	Group Picture			
10.00-10.15	Closing remark by MC  Coffee Break			
10.15-10.45				
	Keynote Speech Prof. Maimun Syukri (Syiah Kuala University, Indonesia): Lifestyle Modification as a Premordial Prevention of Chronic Kidney Disease			
10.45-11.45	Lunch Symposium 1			
	Topik 1: Prof. David Sontani Perdanakusuma (Airlangga University, Indonesia): Wound Management Topik 2: Jailani, MD (Syiah Kuala Univeristy, Indonesia): the Role of AHA in Burn Wound Healing			
11.45-14.00	Friday Pray and Lunch Break			



7-14-	Oral Presentation 2a (6 papers, @ 10	Oral Presentation 2b (6		
	mins)	papers, @ 10 mins)		
14.00-15.00	e-Poster Presentation 2a (10 e-	e-Poster Presentation 2b (10		
	posters, @ 5 mins) presented at	e-posters, @ 5 mins)		
	Madinah Room	presented at Madinah Room		
	THE END OF 1 <sup>ST</sup> DAY			
Day 2 (Saturday, 8st September 2018)				
07.30-08.00	Registration			
	Oral Presentation 3a (5 papers, @10	Oral Presentation 3b (5		
	mins)	papers, @10 mins)		
08.00-09.00	e-Poster Presentation 3a (10 e-	e-Poster Presentation 3b (10		
	posters, @ 5 mins) presented at	e-posters, @ 5 mins)		
	Madinah Room	presented at Madinah Room		
09.15-09.45	Meet the Expert:			
	Prof. Zaleha Abdullah Mahdy (University Kebangsaan Malaysia)			
	Target BP Control in Hypert	ension in Pregnancy		
09.45-10.00	Coffee Break			
10.00-11.00	Sympo II:			
	1.Dar Der Ji, PhD (National Yang-Ming University, Taiwan):			
	Lymphatic Filariasis: Approach of Disease Elimination			
2. Dr. rer. Nat. Marc Huebner (University of Bonn, Ge		niversity of Bonn, Germany):		
	Identification of New Treatments for Human Filarial Infection			
11.00-12.00	Sympo III:			
	1. Allison Imrie, PhD (University of Western Australia, Australia):			
	Dengue and Zika Infection in Southeast Asian Region			
	2. Fong Mun Yik, PhD (University of Malaya, Malaysia): High genetic			
	diversity of the zoonotic malaria par	asite <i>Plasmodium knowlesi</i> : a		
	threat to effective malaria elimin	nation in Southeast Asia?		
12.00-12.25	Lunch Sympo	sium 2		
	Prof. Maimun Syukri (Syiah Kuala University, Indonesia): The Role of			
	High-dose N-Acetyl Sistein in Reduc	ing Creatinin Level on Acute		
	Kidney Inju	ury		
12,25-14.00	Dhuhur Pray and L	unch Break		
14.00-14.40	CLOSING CERE	EMONY		
14.00-14.30	Announcement of b	est speakers		
	3 Best Oral Pre	senters		
	3 Best E-Posters I	Presenters		



14.30-14.35	Closing remark by the Dean of Faculty of Medicine, Syiah Kuale
	University (Prof.Maimun Sykri)
14.35-14.40	Group Picture
	THE END OF SYMPOSIUM







# Sample lethod

eptible or resistant by occus aureus (MRSA). ose of this study to and swab, blood, urine.

Samples were grown ethode. Positive gram (Oxoid) for *S. aureus* duplex method.

%) Gram positive, 24 ed polymerase chain

(MRSA), Staphytect

# Kinetic Parameter Analysis of Myeloperoxidase in The Presence of Some Co-Susbtrates in Saliva Of New Born at Risk of Sepsis

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#### Abstract:

During infection like sepsis, myeloperoxidase (MPO) enzyme will be generated from the neutrophil. This enzyme will catalyse the oxidation of halide or pseudo-halide (Cl., I., SCN, Br.) by using hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>). However, the mechanism by which oxidation of these several cosubstrates in neonatal sepsis is unknown. Here, we have compared the kinetic parameter of MPO in saliva of new-born at risk of sepsis with or without the presence of these several co-substrates. In this experiment, saliva samples were taken from new-born in health (n=20) and risk of sepsis (n=20). Saliva samples from each group then homogenized and divided into four groups. Group 1 served as control which contains saliva+H<sub>2</sub>O<sub>2</sub>; group 2 which contains saliva+H<sub>2</sub>O<sub>2</sub>+Cl; group 3 which contains saliva+H2O2+I-; and group 4 which contains saliva+H2O2+SCN-. After 1-hour incubation, the kinetic parameters (Km and Vmax) were analysed. The result shows that in sepsis condition, compared without the presence of some co-substrates, it seems the addition of some co-substrate will increase the affinity between MPO, H2O2, and the co-substrate. Between these three co-substrates, it seems in sepsis condition MPO will oxidize Cl. In conclusion, in sepsis condition MPO works by a common mechanism, i.e., oxidizing Cl to HOCl than another co-substrate.

Keywords: Myeloperoxidase, Neonatal Sepsis, Saliva