



PROGRAM BOOK

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LE POLONIA HOTEL & UNIVERSITY OF SUMATERA UTARA HOSPITAL
MEDAN - INDONESIA



THE 1ST INTERNATIONAL CONFERENCE ON NEUROSCIENCE, NEUROLOGY AND PSYCHIATRY (ICoNaP) 2018

ESTABLISHING NEUROSCIENCE IN DEVELOPING COUNTRIES

proudly presented by:
Faculty of Medicine Universitas Sumatera Utara in collaboration with
Indonesian Psychiatric Association North Sumatera Branch
Indonesian Neurology Association Medan Branch



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WELCOME NOTE

Rector of Universitas Sumatera Utara

Prof. Dr. Runtung Sitepu, SH,M.Hum



It is a great pleasure for me to acknowledge the 1st International Conference on Neuroscience, Neurology and Psychiatry, organized by Faculty of Medicine, Universitas Sumatera Utara. I have learned that neuroscience is an emerging branch of science that develops rapidly. It needs multidisciplinary collaboration to understand the phenomena in neuroscience. I have high expectation that this conference will bring together researchers and clinicians in the field of neuroscience, neurology and psychiatry to share and discuss the important issues in this fast growing science. In line with the theme of the conference, I hope it will flourish the development of neuroscience in developing countries, especially in Indonesia, and USU can be one of the cluster of excellence for researches and medical services in neuroscience, neurology and psychiatry.

On behalf of Universitas Sumatera Utara, I am delighted to warmly welcome all the participants and speakers to this conference and I hope you will have a fruitful and enjoyable experience in Medan, not only for the scientific content in this conference but also the city attractions and cullinaries.

Warm regards,

Prof. Dr. Runtung Sitepu, SH,M.Hum

Rector of Universitas Sumatera Utara

WELCOME NOTE

**Dean, Faculty of Medicine,
Universitas Sumatera Utara**



Dr.dr. Aldy Safruddin Rambe, Sp.S(K)

On behalf of Faculty of Medicine, Universitas Sumatera Utara, I am pleased to welcome all the speakers and participants of the 1st International Conference on Neuroscience, Neurology and Psychiatry. Since 2017, Faculty of Medicine Universitas Sumatera Utara has successfully organized 3 International Conferences that provided scientific platform for national and international scientists to disseminate and publish their scientific works and also to establish collaboration for further works. I am very delighted to learn that this conference brings together the different perspective of neuroscience from *preclinical, clinical and ethical* point of views with the invited speakers from Indonesia, Malaysia, Singapore, Thailand and Germany. I have a great expectation that this conference will result in mutual multi center International collaborations to establish and develop neuroscience research in developing countries. I encourage the participants to actively engage in this conference to learn as much as possible and make friends for more productive clinical and scientific works.

I would like to address my sincere appreciation for the organizing committee, editorial and reviewer board that have worked very hard to organize this conference. I wish you all have a successful conference, good publications and enjoyable stay in Medan.

Kind regards,

Dr.dr. Aldy Safruddin Rambe, Sp.S(K)
Dean, Faculty of Medicine, Universitas Sumatera Utara

WELCOME NOTE

Chairman of the 1st ICONAP 2018

Dr.rer.medic.,dr.Muhammad Ichwan,MSc.



On behalf of the organizing committee, I am delighted and honored to welcome you to the 1st International Conference on Neuroscience, Neurology and Psychiatry (ICoNaP 2018). This conference is aimed to provide a platform that brings researchers and clinicians who are interested in neuroscience field, including neurology and psychiatry, to share and discuss their scientific works. We have invited speakers from Indonesia, Malaysia, Singapore, Thailand, Germany and also free paper presentations that highlight the preclinical and clinical current topics and issues in neuroscience. This conference will not be possible without the hard effort of the whole organizing committee and the support from Faculty of Medicine and Universitas Sumatera Utara. We are very grateful for all the teamwork and support to make this event happen successfully.

We would like to thank all the participants and authors who have submitted their papers to the conference. With the priceless support from the editorial and reviewers team of the conference, we hope that the submitted articles will be published in Hayati Biomedical Journal or Journal of Clinical Diagnostic and Research.

We will do our best to make your stay in this conference socially and scientifically pleasant and fruitful. We hope that you will find this program interesting, thought-provoking and provide you a valuable opportunity to share ideas and collaboration with others.

Sincerely,

Dr.rer.medic.,dr.Muhammad Ichwan, M.Sc.

Chairman of 1st ICoNaP 2018

Room 4

Moderator : Vita Camelia

1. Assessment of the Quality of Life for Gynecologic Cancer Patients's Using *Functional Assessment of Cancer Therapy-General (FACT-G)* Questionnaire at Haji Adam Malik Hospital
(Deri Edianto, Muhammad Rizki Yaznil, Ade Ayu Chartyansari, Iman Helmi Effendi)
2. The Effects of *Phaleria macrocarpa* (Scheff.) Boerl Extract on Tumor Necrosis Factor-Alpha (TNF- α) Level in Preeclampsia-Induced Human Umbilical Vein Endothelial Cell (HUVEC) Culture
(Leo Simanjuntak, M Fidel Ganis Siregar, Johannes C Mose and Sarma N Lumbanraja)
3. The Role of Lithium As Adjunctive Therapy in Unipolar Depression with Suicide Behavior (Evidence Based Case Report)
(Syarifah Husna, Yusvick M. Hadin, Adriesti Herdaetha)
4. Clinical Profile of Male Patients with Non-Small Cell Lung Cancer in Adam Malik General Hospital Medan, Indonesia
(Setia Putra Tarigan, Chairul Anwar Kamidasa Tumanggor, Sugiarto Gani, Andika Pradana)
5. Quality of Life of HIV-Infected Reproductive Women in Indonesia
(Sarma Lumban Raja)
6. Correlation between Vitamin D and Matrix Metalloproteinase 9 (MMP-9) in Chronic Obstructive Pulmonary Disease (COPD)
(Sri Rezeki Arbaningsih, Aznan Lelo, Ratna Akbari Ganie, Fajrinur Syarani)
7. Reduced Aquaporin-4 Coverage of Blood Vessels in the Medial Prefrontal Cortex and the Hippocampus of the Gunn Rat: An Animal Model of Neuropsychiatric Disorders
(I A Azis, S Hashioka, T Miyaoka, R A Abdullah, M A Jaya, E Limoa, R Wake, M Hayashida, A J Tantra and M Inagaki)

The Effects of Phaleria macrocarpa (Scheff.) Boerl Extract on Tumor Necrosis Factor-Alpha (TNF- α) Level in Preeclampsia-Induced Human Umbilical Vein Endothelial Cell (HUVEC) Culture

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Introduction : Preeclampsia is a major cause in both maternal and perinatal mortality and morbidity. The etiopathogenesis of preeclampsia remains unclear but endothelial dysfunction plays important role. Stress oxidative in placenta produces free radicals such as superoxide anions (O₂⁻) and H₂O₂, trophoblast debris, pro-inflammatory cytokines, and antiangiogenic factors which are thought to cause vascular endothelial dysfunction and causing excessive maternal inflammatory responses. Tumor Necrosis Factor- α (TNF- α) is considered as one of the potentially specific markers for preeclampsia.

Aim : This study aimed to determine the effects of Phaleria macrocarpa (Scheff.) Boerl Extract on inflammation in endothelial cells by measuring the TNF- α level In preeclampsia-induced HUVEC.

Method : HUVEC (Human Umbilical Vein Endothelial Cell) culture is an in vitro model widely used to study the pathogenesis of preeclampsia. Phaleria macrocarpa (Scheff.) Boerl also known as Mahkota Dewa is widely used as an anti-inflammation and antioxidant because of alkaloids, saponins, flavonoids and polyphenols properties.

Result : Phaleria macrocarpa extract reduced TNF- α level significantly at concentration of 3.906 μ g/mL. Phaleria macrocarpa extract at concentration of 62.5 μ g/mL reduced TNF- α level to normal level.

Conclusion : Phaleria macrocarpa extract might be used as agent to overcome endothelial dysfunction in preeclampsia.

Keywords : Phaleria macrocarpa, preeclampsia, HUVEC, TNF- α