

# PROCEEDING

3<sup>rd</sup> INTERNATIONAL SYMPOSIUM OF  
**PUBLIC HEALTH**

**2018**

**“Challenging Public Health Roles  
Towards Global Health Issues”**



**DOCTORAL PROGRAM  
STUDY PROGRAM OF PUBLIC HEALTH  
FACULTY OF PUBLIC HEALTH  
UNIVERSITAS AIRLANGGA**

# PROCEEDING

**The 3<sup>rd</sup> International Symposium of Public Health (The 3<sup>rd</sup> ISoPH)**

***“Challenging Public Health Roles Towards Global Health Issues”***

Surabaya, 31<sup>st</sup> Oktober – 1<sup>st</sup> November 2018



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***“Challenging Public Health Roles Towards Global Health Issues”***  
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## **FOREWORD**

The 3<sup>rd</sup> International Symposium of Public Health (3<sup>rd</sup> ISOPH), was held at Wyndham Hotel, Surabaya, East Java, Indonesia from 31<sup>st</sup> October-1<sup>st</sup> November 2018. More than three-hundred attendees from 5 countries gathered to discuss research and applications in public health roles. The papers contained in this *Proceedings* cover a wide range of topics including: nutrigenomics and public health: the paradigm shift to disease prevention, tobacco use and dependence, health financing and health insurance, the application of ICT in health care, emerging and re-emerging infectious diseases: threats to human health, maternal and child health, primary health care, mental health, nutrition-enhancing as strategic investment, occupational health, environment health, health politics and policy, non-communicable disease, communicable disease and tropical disease, emerging and re-emerging disease, health service management, community resilience and public health practice, disaster management. The members of 3<sup>rd</sup> ISoPH Review Committee reviewed 290 abstracts and selected 73 papers published in ISBN publication. Preparation of these proceedings would not be possible without the assistance of 3<sup>rd</sup> ISoPH scientific committee. Thank you to Prof. Dr. Mohammad Nasih, SE., Mt., Ak., CMA (Rector of Universitas Airlangga), Prof. Dr. Tri Martiana, dr., M.S. (Dean Faculty of Public Health), Dr. Nyoman Anita Damayanti, drg., MS. (Coordinator of Doctoral Programme in Public Health) and Purwaningsih, S.Kp., M.Kes (Chair of 3<sup>rd</sup> ISoPH Organizing Committee) for their guidance and encouragement.

3<sup>rd</sup> ISoPH Committee

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**WELCOME MESSAGE  
THE CHAIR OF ORGANIZING COMMITTEE**

Assalamu'alaikum Warahmatullahi Wabarakatuh

On behalf of the all committee members, I would like to thank all speakers, all conference committee, all participants, Wyndham Hotel, our sponsorships, our donors and to everyone who had contributed in many ways to ensure the success of this conference and all of whom have worked tirelessly on this conference.

The Conference is organized by Doctoral Program of Public Health, Faculty of Public Health, Universitas Airlangga, in collaboration with Universitas Ciputra, Universitas Muhammadiyah Malang, Universitas Muhammadiyah Purwokerto, Institut Ilmu Kesehatan Bhakti Wiyata Kediri and Universitas Nahdlatul Ulama Surabaya, Universitas Pekalongan. The aim of this symposium is to disseminate knowledge, share it to the public and develop ideas for policy makers, from various levels in addressing programs to global health issues.

Purwaningsih  
Chair of Organizing Committee

**THE COORDINATOR OF DOCTORAL PROGRAM IN PUBLIC HEALTH  
FACULTY OF PUBLIC HEALTH  
UNIVERSITAS AIRLANGGA**

Assalamu'alaikum Warahmatullahi Wabarakatuh

Dear Colleagues,

I would like to thank all participants, conference committee, Co-Host, sponsors and all speakers who give their contributions in the 3rd ISoPH:

1. Prof. H. Mohamad Nasir, Ph.D, Ak, Ministry of Research, Technology and Higher Education of the Republic of Indonesia
2. Prof. Dr. dr. Nila Djuwita F. Moeloek, Sp.M (K), Health Ministry of the Republic of Indonesia
3. Prof. Dr. dr. Fachmi Idris, M.Kes, Social Security Administrator for Health, or BPJS Kesehatan
4. Prof. dr. Ali Ghufroon Mukti, M.Sc., Ph.D., Directorate General of Resources for Science, Technology and Higher Education, Ministry of Research, Technology and Higher Education of the Republic of Indonesia
5. Prof. Dr. Nasronudin, Sp.PD., K-PTI, FINASIM, UNAIR Hospital
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8. Widodo J. Pudjirahardjo, dr., M.S., M.PH., Dr.PH, Universitas Airlangga
9. Dr. Salmiah binti Md. Said, MD., M.Comm.Med, Department of Community Health, Faculty of Medicine & Health Sciences, Universiti Putra Malaysia

We applaud your contributions to public health. Appropriately themed "Challenging Public Health Roles Towards Global Health Issues", our conference will address some of global health most critical issues, including: nutrigenomics and public health: the paradigm shift to disease prevention, tobacco use and dependence, health financing and health insurance, the application of ICT in health care, emerging and re-emerging infectious diseases: threats to human health, maternal and child health, primary health care, mental health, nutrition-enhancing as strategic investment, occupational health, environment health, health politics and policy, non-communicable disease, communicable disease and tropical disease, emerging and re-emerging disease, health service management, community resilience and public health practice, disaster management.

Dr. Nyoman Anita Damayanti, drg., MS  
Coordinator of Doctoral Program in Public Health  
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**WELCOME MESSAGE**

**DEAN OF FACULTY OF PUBLIC HEALTH  
UNIVERSITAS AIRLANGGA**

Assalamu'alaikum Warahmatullahi Wabarakatuh

The 3<sup>rd</sup> ISOPH is the third international symposium which is held annually by the Faculty of Public Health to improve knowledge and skills about public health issues, gain network with other health professionals as well as increase the number of scientific publications for students, lecturers and health professionals.

With the theme of the Conference is "Challenging Public Health Roles Towards Global Health Issues", we are hoping that the conference will gather the highest possible level of global health issues which can benefit not only Indonesia nations but also International area with regards to health policies and laws, global health finance and a political commitment to make health a priority.

With our sincere gratitude to the all-conference committee as well as to the Co-Host and sponsors, we would like to say thank you for attending the conference.

Prof. Dr. Tri Martiana, dr., M.S.

Dean

Faculty of Public Health, Universitas Airlangga