Mahidol University
Faculty of Medicine Siriraj Hospital

Prince Mahidol Award Youth Program,

Prince Mahidol Award Foundation under Royal Patronage

In collaboration with

Faculty of Medicine Siriraj Hospital and Ministry of Foreign Affairs

Organize the press conference

On the result of the Prince Mahidol Award Youth Program scholarship recipients 2020

Today (24th November 2020) at 13:30 hrs. **Clin. Prof. Supat Vanichakarn,** Secretary General of Prince Mahidol Award Foundation under the Royal Patronage; **Mr. Thanee Sangratana,** Director-General of the Department of Information and Spokesperson of the Ministry of Foreign Affairs; **Prof. Vicharn Panich,** Chairman of Prince Mahidol Award Youth Program Steering Committee; **Prof. Apichat Asavamongkolkul,** Chairman of Prince Mahidol Award Youth Program Working Committee; and **Prof. Sompop Limpongsanurak,** Chairman of Prince Mahidol Award Youth Program Selection Committee, together issue a press release on the names of Prince Mahidol Award Youth Program scholarship recipients for 2020 at the Chulabhorn conference room, 2th floor of Syamindra Building, Faculty of Medicine Siriraj Hospital, Mahidol University.

The names of five scholarship recipients 2020 of Prince Mahidol Award Youth Program are as follows:

1. Mr. Chatpol Samuthpongtorn	Faculty of Medicine, Chulalongkorn University
2. Ms. Tanaporn Jaroenngarmsamer	Faculty of Medicine Ramathibodi Hospital, Mahidol University
3. Mr. Peeradon Wongseree	Faculty of Medicine Siriraj Hospital, Mahidol University
4. Mr. Methasit Jaisa-aad	Faculty of Medicine, Srinakarindwirod University
5. Mr. Lattawat Eauchai	Faculty of Medicine Siriraj Hospital, Mahidol University

(Details are attached.)

Twenty applicants from 9 institutes were nominated for Prince Mahidol Award Youth Program in 2020. Only 5 successful applicants meet the criteria of Prince Mahidol Award Youth Program. The Selection Committee selected the scholarship recipients and presented to the Board of Trustee which HRH Princess Maha Chakri Sirindhorn is a President. The final decision had been made on the 20th October 2020.

Prince Mahidol Award Youth Program has been established on the 20th November 2007 according to the 2nd/2007 consensus of the Prince Mahidol Award Foundation Committee. The program aims to inspire and facilitate Thai youths studied in the health fields to pursue their dedicated life for the benefit of mankind following the footsteps of HRH Prince Mahidol of Songkla.

The steering committee, the working committee, and the selection committee are responsible to select the applicants who meet the criteria of the program, and present their names to the Board of Trustee which HRH Princess Maha Chakri Sirindhorn is a President, for a final decision.

The successful applicants will obtain a scholarship for research study, professional training or community development abroad or in the country with full support for 12-month overseas placement. The period of overseas placement of the scholarship recipients will be considered as a part of their three-year working period for the government of Thailand.

Prince Mahidol Award

Youth Program

Scholars Year 2020

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Mr. Chatpol Samutpongtorn

"A sixth-year medical student at the Faculty of Medicine, Chulalongkorn University. He is interested in research topic:

The study of gut microbiota profile in stroke patients for development novel therapeutic strategies for stroke."

Mr. Chatpol Samuthpongtorn has received honors and awards as followings:

2020 *Publication:* **Samuthpongtorn C,** Pongpirul K. Medical students in low-and middle-income countries and COVID-19 pandemic. International Journal of Medical Students. 2020; 8(1): 79-81.
Poster presentation at MDCU congress 2020:
Samuthpongtorn C, Jereerat T, Suwanwela NC. Stroke risk factors, subtypes and outcome in elderly Thai patients.
Abstract acceptance for poster presentation at APSC 2020:
Samuthpongtorn C, Saraya A, Suwanwela NC. Dysbiosis of gut microbiota in patients with large-artery atherosclerotic stroke in King Chulalongkorn Memorial Hospital.

2019 The presenter of the Ananda Mahidol day; Moderator and lecturer for the research inspiration for 2nd year medical students at the 8th TONGLA camp; The peer tutor of 3rd year and 5th year medical students for NLE1 and NLE2 preparing; Honorary Certificate of the popular vote student award in medicine ward.

2018 Exchange medical student for IFMSA organization at Plastic surgery ward in Czech Republic country for 1 month; Staff of the medical team at Anamai camp for providing the public health screening 3 years continuously.

2017 The medical student in the Petchompoo program of MDCU; Vice chairman of AMSci 2017 (Ananda Mahidol day's biology and medical science test); The Moderator of the 1st ASEAN Medical Education Conference (AMEC) 2017

2016 Participation in East-Asian Medical Students' Conference (EAMSC2016 at Taiwan).

2015 President for Academic Affair at 1st year medical student; to be the MDCU-freshy star and the representative of the star contest in Syringes Games 2015; Participation in Asian Medical Students' Conference (AMSC2015) at Singapore

2014 Highest score =100 score of Physics for Consortium of Thai Medical School and 100 score of Mathematics for O-NET.

Stroke is the leading cause of disability, morbidity and mortality in Thailand and worldwide. There are several traditional risk factors that are related to stroke occurrence including hypertension, smoking cessation *etc.* Although some people are well-controlled, they finally develop stroke.

Therefore, emerging risk factors may be promising targets which one of them is gut microbiome. Emerging evidence suggests that gut microbiota may be one of the causes of stroke.

A study of the role of microbiome and stroke will strengthen the understanding of the mechanism and may contribute to the development of novel strategies for both primary and secondary prevention for stroke.

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Ms. Tanaporn Jaroenngarmsamer

"A sixth-year medical student at the Faculty of Medicine Ramathibodi Hospital, Mahidol University. She is interested in research topic:

The universal key to the improvement of thrombectomy care delivery system for ischemic stroke patients."

Ms. Tanaporn Jaroenngarmsamer has received honors and awards as followings:

2020 Selected for E-Poster presentation in the European Stroke Organization and World Stroke Organization Conference 2020

2019 Dean's Talent Award, Faculty of Medicine Ramathibodi Hospital, Mahidol University; *Publication:* **Jaroenngarmsamer T,** et al. Procedural success with radial access for carotid artery stenting: systematic review and meta-analysis. J Neurointerv Surg 2020 Jan; 12(1): 87-93 [Epub 2019 June 14]; Captain of Ramathibodi girls basketball team, semi-final team in Syringe Game 31st; President of Ramathibodi International Club; Medical team volunteer in Lopburi province

2018 Dean's Research Award, Faculty of Medicine Ramathibodi Hospital, Mahidol University; Poster presentation at XXI Symposium Neuroradiologicum, Taiwan; President of Ramathibodi Photo Club; Volunteer in community service camp by Ramathibodi Student Union

2017 Dean's Research Novice Award, Faculty of Medicine Ramathibodi Hospital, Mahidol University; President of Ramathibodi Exchange Program; Medical team volunteer in Saraburi province

2016 Selected for research exchange program by International Federation of Medical Students' Associations; Member of Mahidol University Choir, won gold medal in Kaunas Cantat Choir Competition 2016 in Lithuania, and entered grand prix competition of International Choir Festival Mundus Cantat in Poland

Stroke is the leading cause of death in Thailand and around the world. The widely used and available treatment for patients with ischemic stroke in Thailand is intravenous thrombolysis.

Despite receiving thrombolysis, the majority of large-vessel ischemic stroke patients would result in major morbidity and mortality, and high cost of post-stroke care. The more effective treatment method is thrombectomy, an endovascular procedure, which is a novel method in Thailand and it needs care delivery system development.

Canada is one of the leading countries in thrombectomy care delivery research and has a strong family medicine system, which is crucial for the continuum of care for stroke patients.

Ms. Tanaporn intends to conduct a qualitative study to understand how the thrombectomy care delivery systems in Canada work, and implement the knowledge in the planning and development of the thrombectomy care delivery model in Thailand.

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Mr. Peeradon Wongseree

"A sixth-year medical student at the Faculty of Medicine, Siriraj Hospital, Mahidol University. He is interested in research topic:

Enhancing the effectiveness of colorectal cancer screening protocol in Thailand using system dynamics (SD), a conceptual tool, which can be constructed by using mathematics and simulation software."

Mr. Peeradon Wongseree has received honors and awards as followings:

2019 Vice president of internal affairs, Siriraj Medical Student Union, which mainly takes part in organizing all of the academics teams, volunteer works and extracurricular acts, the keyman of the CSR project of Siriraj hospital such as Ritual ceremonies and Mahidol Flag Charity Project.

2018 Vice president's assistant of club's activity, Siriraj Medical Student Union; Head of simulation session, 20th Siriraj Medical Camp; President of community medicine project "Diabetes mellitus & Hypertension screening in Tha Luang"

2017 Vice president and head of melody& lyrics, Family concert 2017, the annually musical show.

2016 Vice president of 2nd year medical student; head of master of ceremony in Siriraj International Medical Microbiology, Parasitology, and Immunology Competition 2017; head of administrative manager "Ajarn Yai" cremation ceremony, representatives of the faculty in performing music in Memorial Day King Rama IX; one of the head of the academics affairs

2015 President of SIPIstar under the moonlight music award, music contest in Mahidol University

2014 "Outstanding student" in volunteer work, Mahidol Wittayanusorn school; President of volunteer camp project in Nakhon pathom province; Bronze medal, Asia Pacific Mathematics Olympiad 2015

His interest rose up from the fact that colorectal cancer is one of the most burdensome diseases. It is preventable and more curable in early detected patients.

With same prevention and treatment modalities, its incidence and mortality rate in Thailand are increasing while they are decreasing in developed countries. A major plausible cause is that our screening protocol cannot reach enough population with the high ratio of late-stage detected by screening, which reflects screening policy unsatisfaction.

SD model could reveal all causes of policy unsatisfaction in order to potentially enhance the effectiveness of colorectal cancer screening interventions in Thailand with the hope to improve quality of life of colorectal cancer patients.

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Mr. Methasit Jaisa-aad

"A sixth-year medical student at the Faculty of Medicine, Srinakharinwirot university. He is interested in research topic:

The study of functional and expression change of astrocyte (transcriptomic profiling of astrocyte) in pathogenesis and progression of Alzheimer's disease."

Mr. Methasit Jaisa-aad has received honors and awards as followings:

2020 Excellent student certificate; Buddhist Association of Thailand under the Royal Patronage

2019 Highest total score of fifth year medical student; Highest score in surgery, President of ethics and student development affair, and Vice president of academic affair; chair of research and curriculum affair, medical student club;
Publication: **The antihelmintic effects of medicinal plant extracts against paramphistome parasites,** *Carmyerius spatiosus*. Acta Parasitologica. 2019; 64(3): 566-74

2018 Highest score in clinical radiology and preventive medicine; Chair of Wai Kru ceremony (teacher's venerated ceremony); Winner of Wai Kru poet competition; Chief editor of internal medicine review pocketbook, President of buddhist club (2 term); Vice president of petanque club (2 term)

2017 Vice President of ethics affair, medical student club; Vice chair of student personality and speaking skill development project; Chair of buddhist ceremony affair in royal commemoration of donated bodies for medical study; research assistant in "Antihelmintic activity of aqueous plant extracts from *Malachra capitata* in ultrastructural changes of rumen flukes tegument"

2016 Highest total score of second year medical student; committee in medical science competition of Prince Mahidol week; research assistant in the role of trehalose-6-phosphate in metabolism and virulence of *Talaromyces marneffei*"

2015 Buddhist club committee, academic committee of first year medical student; fourth place petanque men team, 28th Syringe games

2014 Gold medal 12th Thailand Biology Olympiad, Burapha university; First place in Thai language academic competition, National Thai language day, Chulalongkorn university

2013 Bronze medal 11th Thailand Biology Olympiad, Thaksin university

Alzheimer's disease is an important worldwide health issue in this century. Especially in Thailand, as the coming of aged society, the increasing number of patient with this disease does not cause only individual physical or mental problem but also affect caretaker, family member and the governmental organization to provide a long term care.

Although several new therapeutics has been created in attempt to cure the disease. Currently, there is no any medication which can be used as a curative agent in this disease. Therefore, the study of the role of glial cell especially the astrocyte in the Alzheimer's disease is increasingly important over the decade due to the hope that it can be an enlightening for us to completely understand the true pathogenesis of the disease.

Mr. Methasit is intending to focus his study on the transcriptomic profile change of astrocyte in Alzheimer's disease under the different environment.

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Mr. Lattawat Eauchai

"A sixth-year medical student at the Faculty of Medicine, Siriraj Hospital, Mahidol University. He is interested in research topic:

Inhibition of cell death and cell degeneration, and their effect to microglia polarization which can provide a decent knowledge about Alzheimer's disease and the chance to cure the disease."

Mr. Lattawat Eauchai has received honors and awards as followings:

2019 President of Siriraj Medical Student Union; Student representative in 4th ASEAN students' collaborative projects 2019 Brunei Dalussalam presenting research topic about **"The study of experience and competencies gained from joining health care volunteer camp in community among medical students and staff of the Faculty of Medicine Siriraj Hospital, Mahidol University"**

2018 Associate vice president of External Affairs, Siriraj Medical Student Union; Head of Mahidol United medical volunteer camp; Head of the Society of Medical Students of Thailand (SMST) medical volunteer camp.

2017 Associate vice president of Internal Affairs, Siriraj Medical Student Union; campaign team for campaign about major depressive disorder (MDD) or depression in Medrathon: Run away depression

2015 Head of first-year medical student, first-year MD class of 2015

Alzheimer's disease is the most common form of dementia. In Thailand, a number of people with the disease will continue to expand since the country will enter aged society in the near future.

With aging as an potential risk factor of Alzheimer's disease, the country with aged society, including Thailand, will face with an increase in number of Alzheimer's disease patient. The patient and their family suffer from the disease in many aspects including physical health, emotional toll and financial burden. The disease will eventually become potential health care problem for the country. Though there is still no effective treatment capable of curing the disease. Therefore, the effort to improve Alzheimer's disease knowledge and develop an effective treatment is critical.

Mr. Lattawat intends to study inhibition of synaptic pruning, the degeneration of synapse, and microglia polarization in Alzheimer's disease. In addition, he intends to study inhibition of cell death and cell degeneration