



**Mahidol University**  
Wisdom of the Land



**UIO: University of Oslo**



**Royal Thai Embassy in Oslo,  
Norway**

## **International Symposium on Neuroscience and Global Health 2018**

### **In Commemoration of**

**The 53rd Anniversary of the Research Collaboration between Mahidol University and the University of Oslo in the field of Brain Research (Neuroscience),**

**The 9th Anniversary of Signing a General Agreement for Academic Exchanges between MU and UiO,**

**The 6<sup>th</sup> Anniversary of the Application for the Norwegian Program for Capacity Building in Higher Education and Research for development (NORHED) leading to 2 Projects, Mahidol-Norway Capacity Building for Institutions in Myanmar (CBIM) and Capacity Building Initiative for ASEAN (CBIA)**

**The 3<sup>rd</sup> Anniversary of Signing Ceremony for an Extension of the MOU for General Agreement for Academic Exchanges**

**Program for Monday 6<sup>th</sup>, Tuesday 7<sup>th</sup> and Wednesday 8<sup>th</sup> August 2018**

**Mahidol University, Thailand.**

**Monday 6<sup>th</sup> August 2018**

**Venue: Main Auditorium, Institute of Molecular Biosciences, Mahidol University, Salaya Campus, 29 Phutthamonthon 4 Road, Salaya, Nakornpathom 73170 Thailand**

**8.00 – 8.40 AM      Registration**

**8.40 - 9.00 AM**



**Welcome and Introduction to Mahidol University (AV)**  
**53 years of Research Collaboration between Mahidol University and the University of Oslo in the field of Brain Research**

By Associate Professor Dr. Naiphinich Kotchabhakdi\*\*, Ph.D.  
Coordinator for long-term Collaboration between MU and UiO  
Senior Advisor on Medicine and Public Health, Former Board Member in Medical Science, National Research Council of Thailand

\*\* Former NORAD Post-doctoral Fellow at Anatomy Institute, UiO 1976-1978

9.00 - 9.30 Welcome and addresses by

Prof. Dr. Patcharee Lertrit, Ph.D.  
Dean, Faculty of Graduate studies, MU



Assoc. Prof. Dr. Apinunt Udomkit, Ph.D.  
Deputy Director for Academic Affairs and  
Educational Development,  
Institute of Molecular Biosciences, MU



Prof. Dr. Banthit Chetsawang, Ph.D..  
Chairman of the International Graduate Program in Neuroscience,  
Director, Research Center for Neuroscience,  
Institute of Molecular Biosciences, MU



**MAHIDOL UNIVERSITY**  
*Wisdom of the Land*  
Research Center for Neuroscience, Institute of Molecular Biosciences,  
Mahidol University, Salaya, Nakornpathom, Thailand



9.30 – 9.40 AM

### **Welcome and Opening Speech**

By Professor Dr. Patcharee Lertrit, M.D., Ph.D.  
Dean, Faculty of Graduate Studies, Mahidol University  
On behalf of Prof. Dr. Banchong Mahaisavariya, M.D.  
Acting President of Mahidol University



9.40 – 10.10 AM

Special Keynote Address

### **“Collaboration between Thailand and Norway”**

By H.E. Mr. Prasittiporn Wetprasit,  
Thai Ambassador in Oslo, Norway



10.10 -10.15 AM

Gift presentation and taking group pictures of VIPs

10.15 – 10.30 AM

Introduction to the University of Oslo: Facts and Figures,  
Current Status and Future Trends of Academic and Research  
Collaboration with ASEAN (AV)

10.30 – 12.30

Symposium Lectures



### **“Water Channel Aquaporin-4 (AQP4) in the Brain: Structure-Function, Localization, and Clinical Impacts.”**

By Professor Dr. Med. Ole Petter Ottersen\*, M.D., Ph.D.  
President of Karolinska Institute. Former Head of the Anatomical  
Institute, Director of the Center of Excellence in Molecular Biology  
and Neuroscience, Pro-Dean of the Faculty of Medicine, and Rector  
of the University of Oslo. Chair of the Lancet-UiO Commission on  
Global Governance for Health (2011-2014).

*\*Professor Ottersen takes part, not as a university president but in his capacity as a neuroscientist with a long history of collaboration with Mahidol University and South-East Asia.*



**“Abnormal amyloid drainage in the brain, implications for Alzheimer’s disease”**

By Associate Professor Dr. Reidun Torp, M.Sc., Ph.D.  
Laboratory of Molecular Neuroscience, Center of Excellence for Molecular Biology and Neuroscience, Institute for Basic Medical Sciences, Faculty of Medicine, University of Oslo, Oslo, Norway



**“Loss of astrocyte polarity: A common denominator for neurological conditions?”**

By Professor Dr. Mahmood Amiry-Moghaddam, M.D., Ph.D.  
Professor in Medicine and head of the Laboratory of Molecular Neuroscience Center of Excellence for Molecular Biology and Neuroscience, Institute for Basic Medical Sciences, Faculty of Medicine, University of Oslo, Oslo, Norway

12.30 – 13.30

Taking large group pictures of all participants and Lunch

13.30 – 14.00

**Summary and Progress Reports on the Mahidol-Norway Capacity Building for Institutions in Myanmar (CBIM) and Capacity Building Initiative for ASEAN (CBIA)**



By Professor Dr. Patcharee Lertrit, M.D., Ph.D.  
Dean, Faculty of Graduate Studies, Mahidol University

**Alumni and Employer Survey for CBIM students**

By Dr. Aung Win Tun, MBBS, Ph.D.  
Assistant Dean for International Relations,  
Faculty of Graduate Studies, Mahidol University



14.00 – 16.30

Symposium Lectures

**“Research topics of interests by Faculty Staff and Graduate Students in Neuroscience International Graduate Program at the Neuroscience Research Center, IMB, MU”**



**Methamphetamine-induced neurotoxicity: From neuron cells degeneration to cognitive impairment**

By Professor Dr. Banthit Chetsawang\*\*\*, Ph.D.  
Chairman, Neuroscience International Graduate Program and  
Director of Neuroscience Research Center, IMB, MU



### **Neuroprotective effect of Thai natural products against Alzheimer's disease**

By Associate Professor Dr. Wipawan Thangnipon\*\*, Ph.D.  
Neuroscience Research Center, IMB, MU



### **Research on development of executive functions and self-regulation in Thai children**

By Associate Professor Dr. Nuanchan Juthapakdeekul, Ph.D.  
Neuroscience Research Center, IMB, MU



### **The research techniques to study human cognitive processing**

By Assistant Professor Dr. Vorasith Siripornpanich, M.D., Thai  
Diplomate Board in Pediatrics and Sub-Board in Pediatric  
Neurology, Ph.D. candidate  
Neuroscience Research Center, IMB, MU



### **Research on biological signaling and wearable device in stress and mental health problems**

By Assistant Professor Dr. Sukonthar Ngarmpramuan, Ph.D.  
Neuroscience Research Center, IMB, MU



### **Neuronal changes in the maternal deprivation model of early life stress**

By Assistant Professor Dr. Kittikun Viwatpinyo, Ph.D.  
Neuroscience Research Center, IMB, MU



### **Brain exercise for patients after stroke**

By Associate Professor Dr. Wimolrat Puwarawuttipanit\*\*\*, Ph.D., RN  
Head of Medical Nursing Department, Faculty of Nursing, MU

And By Neuroscience Graduate students

16.30 – 17.00

Academic Exchanges, Questions/Answers and Discussion and Conclusion

17.00 – 20.00

Dinner with delegates from Norway and VIPs in Salaya hosted by the Research Center for Neuroscience, IMB, MU

\*\* Former NORAD Post-doctoral Fellow at Anatomy Institute, UiO

\*\*\* Former Pre-doctoral Research Fellow in Neuroscience at UiO

**Tuesday 7th August 2018**

**Venue: Conference room 101, 1<sup>st</sup> Floor, Siriraj Medical Research Building (SiMR), Faculty of Medicine Siriraj Hospital, Mahidol University Siriraj Campus**

7.30 Bus leaving Salaya for Siriraj Hospital  
8.00 – 9.00 AM Registration  
9.00 - 9.25 AM Introduction to Faculty of Medicine Siriraj Hospital, Mahidol University (AV)



**Welcome Address and Opening Speech**

By Professor Dr. Prasit Watanapa, M.D., FRCS, FACS, Ph.D.  
Dean, Faculty of Medicine Siriraj Hospital, Mahidol University

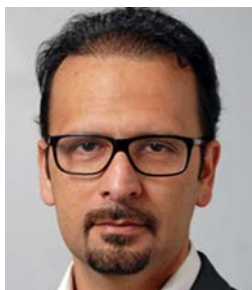
9.25 – 9.30 AM Gift presentation and taking group pictures of VIPs  
9.30 – 10.00 AM Introduction to the University of Oslo: Facts and Figures, Current Status and Future Trends of Academic and Research Collaboration with ASEAN (AV)  
10.00 – 12.00 Symposium Lectures



**“Mathematical 3D modeling of water movement in the brain \_clinical implications”**

By Professor Dr. Med. Ole Petter Ottersen\*, M.D., Ph.D.  
President of Karolinska Institute. Former Head of the Anatomical Institute, Director of the Center of Excellence in Molecular Biology and Neuroscience, Pro-Dean of the Faculty of Medicine, and Rector of the University of Oslo. Chair of the Lancet-UiO Commission on Global Governance for Health (2011-2014).

*\*Professor Ottersen takes part, not as a university president but in his capacity as a neuroscientist with a long history of collaboration with Mahidol University and South-East Asia.*



**“Pathophysiological consequence of loss of astrocyte polarity: The case of Aquaporin-4”**

By Professor Dr. Mahmood Amiry-Moghaddam, M.D., Ph.D.  
Professor in Medicine and head of the Laboratory of Molecular Neuroscience Center of Excellence for Molecular Biology and Neuroscience, Institute for Basic Medical Sciences, Faculty of Medicine, University of Oslo, Oslo, Norway



**“Microscopic Study of Alzheimer’s Disease: Abnormal amyloid drainage in the brain, implications for Alzheimer’s disease“**

By Associate Professor Dr. Reidun Torp, M.Sc., Ph.D.

Laboratory of Molecular Neuroscience, Center of Excellence for Molecular Biology and Neuroscience, Institute for Basic Medical Sciences, Faculty of Medicine, University of Oslo, Oslo, Norway

12.00 – 13.00

Taking large group pictures of all participants and Lunch

13.00 – 14.30

Symposium Lectures

**“Future Trends of Global Health: Sustainability and equity”**

Professor Dr. Med. Ole Petter Ottersen\*, M.D., Ph.D.  
President of Karolinska Institute. Former Head of the Anatomical Institute, Director of the Center of Excellence in Molecular Biology and Neuroscience, Pro-Dean of the Faculty of Medicine, and Rector of the University of Oslo. Chair of the Lancet-UiO Commission on Global Governance for Health (2011-2014).

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**“Parkinson's disease: A possible role of the aquaglyceroporin AQP9 in Parkinson's disease”**

By Professor Dr. Mahmood Amiry-Moghaddam, M.D., Ph.D.  
Professor in Medicine and head of the Laboratory of Molecular Neuroscience Center of Excellence for Molecular Biology and Neuroscience, Institute for Basic Medical Sciences, Faculty of Medicine, University of Oslo, Oslo, Norway

14.30 – 16.00



**“Neuroscience Research in the International Graduate Programs in Medical Physiology and Department of Physiology, Faculty of Medicine Siriraj Hospital, MU”**

By Assistant Professor Dr. Wattana B. Watanapa, M.D., Ph.D.  
Head of the Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University

**“Aquaporin Research at Siriraj Hospital”**



**“NMO clinical diagnosis at Siriraj Hospital”**

By Dr. Sasitorn Siritho, M.D.  
Clinical and Research Physician, Demyelinating Clinic, Department of Medicine, Faculty of Medicine Siriraj Hospital, MU



**“Homology modeling and molecular simulation of Aquaporin 10, Development of new NMO diagnosis platform (Lab-on-a-chip) and Transcriptomic profiling of rat renal nephron: a regulatory mechanism of Aqp2 in the rat nephron.”**

By Assistant Professor Dr. Panapat Uawithya, M.D., Ph.D.  
Department of Physiology, Faculty of Medicine Siriraj Hospital, MU

16.00 – 16.30

Academic Exchanges, Questions/Answers and Discussion and Conclusion

17.00 – 19.00

Reception dinner with delegates from Norway, Lecturers, delegates from ASEAN countries, Siriraj colleagues and Faculty of Graduate Studies, MU at Siriraj Medical Alumni Association Meeting Room, on the 2nd Floor, Siriraj Medical Alumni Association Building,

Hosted by Professor Dr. Prasit Watanapa, M.D., FRCS, FACS, Ph.D.  
Dean, Faculty of Medicine Siriraj Hospital, Mahidol University

**Wednesday 8th August 2018**

**Venue: Professor Dr. Stang Mongkolsuk Building Conference Room, First floor,  
Faculty of Science, Mahidol University Phaya Thai Campus, Rama 6 Road**

7.30 Bus leaving Salaya for Faculty of Science, MU Phaya Thai Campus  
8.00 – 9.00 AM Registration

9.00 - 9.20 AM Introduction to Faculty of Science, Mahidol University (AV)

**Welcome Address and Opening Speech**

By Representative of Assoc. Prof. Dr. Sittiwat Lertsiri, Ph.D.  
Dean, Faculty of Science, Mahidol University



9.20 - 9.30 AM Gift Presentation and taking group pictures

9.30 – 10.00 AM Introduction to the University of Oslo: Facts and Figures,  
Current Status and Future Trends of Academic and Research  
Collaboration with ASEAN (AV)

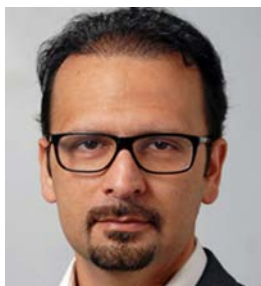
10.00 – 12.00 Symposium Lectures and Lunch

**“Immunogold Cytochemistry in Neuroscience”**



Professor Dr. Med. Ole Petter Ottersen\*, M.D., Ph.D.  
President of Karolinska Institute. Former Head of the Anatomical  
Institute, Director of the Center of Excellence in Molecular Biology  
and Neuroscience, Pro-Dean of the Faculty of Medicine, and Rector  
of the University of Oslo. Chair of the Lancet-UiO Commission on  
Global Governance for Health (2011-2014).

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his capacity as a neuroscientist with a long history of collaboration  
with Mahidol University and South-East Asia.*



**“Dystrophin associated protein complex and cell polarity in CNS”**

By Professor Dr. Mahmood Amiry-Moghaddam, M.D., Ph.D.  
Professor in Medicine and head of the Laboratory of Molecular  
Neuroscience Center of Excellence for Molecular Biology and  
Neuroscience, Institute for Basic Medical Sciences, Faculty of  
Medicine, University of Oslo, Oslo, Norway



**“Microscopic Study of Alzheimer’s Disease: Abnormal amyloid  
drainage in the brain, implications for Alzheimer’s disease“**

By Associate Professor Dr. Reidun Torp, M.Sc., Ph.D.  
Laboratory of Molecular Neuroscience, Center of Excellence for  
Molecular Biology and Neuroscience, Institute for Basic Medical  
Sciences, Faculty of Medicine, University of Oslo, Oslo, Norway



**Wednesday 8th August 2018**

**Venue: Meeting Room 810A, 8<sup>th</sup> floor, Medical Learning Resource Center and Ramathibodi School of Nursing Building, Faculty of Medicine Ramathibodi Hospital, MU**

12.00 – 13.00 Registration

13.00 -13.15

**Welcome and Opening remark**

By Prof. Dr.Piyamitr Sritara, M.D., FRCP, FACP, FRCP(T)  
Dean, Faculty of Medicine Ramathibodi Hospital,  
Mahidol University



Introduction to Ramathibodi Hospital (VTR)

13.15 – 13.30

Symposium Lecture



**“Neuromyelitis Optica (NMO)”**

By Assistant Professor Dr. Panitha Jindahra, M.D., Ph.D., MRCP (UK)  
Division of Neurology, Department of Medicine, Faculty of Medicine  
Ramathibodi Hospital, Mahidol University

13.30 – 13.40

Gift Presentation and taking group pictures

13.40 – 14.10

Symposium Lecture

Introduction to the University of Oslo: Facts and Figures (AV)



**“Capacity building for health”**

Professor Dr. Med. Ole Petter Ottersen\*, M.D., Ph.D.  
President of Karolinska Institute. Former Head of the Anatomical  
Institute, Director of the Center of Excellence in Molecular Biology  
and Neuroscience, Pro-Dean of the Faculty of Medicine, and Rector  
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his capacity as a neuroscientist with a long history of collaboration  
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14.10 – 14.45

Symposium Lecture

**“Parkinson's disease: A possible role of the aquaglyceroporin AQP9 in Parkinson's disease”**



By Professor Dr. Mahmood Amiry-Moghaddam, M.D., Ph.D.  
Professor in Medicine and Head of the Laboratory of Molecular  
Neuroscience Center of Excellence for Molecular Biology and

Neuroscience, Institute for Basic Medical Sciences, Faculty of  
Medicine, University of Oslo, Oslo, Norway

14.45 – 15.00

Academic Exchanges, Questions/Answers and Discussion and  
Conclusion

15.00

Depart from Ramathibodi Hospital

15.05 – 16.00

Visit the Department of ASEAN Affairs, Ministry of Foreign Affairs,  
Sriyuthaya Road, Phaya Thai, Bangkok

**Hosted by H.E. Dr. Suriya Chindawonges,**

Director-General of the Department of ASEAN Affairs,  
Ministry of Foreign Affairs

16.00 – 18.00

A brief sight-seeing visit of some interesting museums and temples  
in Bangkok

18.00 - 21.00

Reception and Thank You Thai Buffet Dinner at the Tubtim Room,  
the Royal Ratanakosin Hotel in Bangkok for special guests, VIPS  
lecturers, Delegates from ASEAN Countries, Organizing team and  
participants of the International Symposium on Neuroscience and  
Global Health 2018

Hosted by Dr. Naiphinich and Dr. Nittaya Kotchabhakdi  
Coordinator for long-term Collaboration between MU and UiO

Now participants can view the program in this link <http://www.grad.mahidol.ac.th/ISNGH2018/registration->