

Leaflet



Symposium on Endolysosomal Ion Channels and Diseases 2025

Meeting Agenda

Symposium on Endolysosomal
Ion Channels and Diseases 2025

Date: 25th Oct, 2025

Time: 9:00 - 17:30

Venue: Basic Medical Science Building, Lecture Hall 101
National Taiwan University, College of Medicine, Taipei

- 08:45 - 09:00 Check-in & Poster Preparation
- 09:00 - 09:10 **OPENING REMARKS** // 吳明賢 Ming-Shiang Wu (Dean, NTUCM), 俞松良 SungLiang Yu (Director, CLSMB, NTU) // Master of Ceremonies: 郭靜穎 Ching-Ying Kuo (CLSMB, NTU)
- 09:10 - 10:00 **Thomas Jentsch** (FMP Berlin) // Honorary Chair: 連正章 Cheng-Chang Lien (NYCU) // *TMEM9 proteins: New players in endosomal ion transport and neurological disorders* * **Keynote speech** (Q&A: 10 minutes)
- 10:00 - 10:15 陳政彰 **Cheng-Chang Chen** (NTU) // Chair: 連正章 Cheng-Chang Lien (NYCU) // *Targeting Endolysosomal Ion Channels by Electrophysiology*
- 10:15 - 10:20 **SHORT BREAK**
- 10:20 - 11:10 **Christian Wahl-Schott** (LMU Munich) // Chair: 徐嘉琳 Chia-Lin Hsu (NYCU) // *Regulation of TPC2 function in endosomes and lysosomes* * **Keynote speech** (Q&A: 10 minutes)
- 11:10 - 12:00 **Takushi Shimomura** (NIPS, Japan) // Chair: 陳美如 Mei-Ru Chen (NTU) // *A switching role of the 2nd S4 helix in the voltage- and PIP2-dependence of Two-Pore channels revealed by voltage clamp fluorometry* * **Guest speech** (Q&A: 10 minutes)
- 12:00 - 13:00 **LUNCH & POSTER SESSION @ NTU Museum of Medical Humanities**
- 13:00 - 13:30 陳瑞華 **Ruey-Hwa Chen** (Sinica) // Chair: 姚季光 Chi-Kuang Yao (Sinica) // *Bro1 proteins control lysosome and exosome fates of multivesicular bodies for regulating tumor immunity and metastasis* * **Guest speech**
- 13:30 - 13:45 **Tzu-Ming Jao** 饒梓明 (NTU) // Chair: 楊雅倩 Ya-Chien Yang (NTU) // *TRPM8 Attenuates ADPKD Progression through Mitochondrial Reprogramming*
- 13:45 - 14:00 **Neng-Yu Lin** 林能裕 (NTU) // Chair: 張淑媛 Sui-Yuan Chang (NTU) // *Outside-In Signaling: C1GALT1-Mediated O-Glycosylation Regulates TPC2 Calcium Channel Activation*
- 14:00 - 14:15 **Tai-Ling Chao** 趙苔玲 (NTU) // Chair: 張淑媛 Sui-Yuan Chang (NTU) // *Development and Mechanistic Exploration of SARS-CoV-2 Antiviral Agents*
- 14:15 - 14:25 **Hsuan-Ti Wang** (NTU) #1 Student Flash Talk // Chair: 蔡雨寰 Yu-Huan Tsai (CGU)
- 14:25 - 14:35 **Alice Lin** (NTU) #2 Student Flash Talk // Chair: 蔡雨寰 Yu-Huan Tsai (CGU)
- 14:35 - 14:45 **Chia-Hsing Lee** (Sinica) #3 Student Flash Talk // Chair: 蔡雨寰 Yu-Huan Tsai (CGU)
- 14:45 - 15:00 **Markus Rapedius** (Nanion, Germany) // Chair: 陳政彰 Cheng-Chang Chen (NTU) // *Approaching organelles with high-throughput electrophysiology methods to allow early drug discovery from native lysosomes*
- 15:00 - 15:50 **COFFEE BREAK & POSTER SESSION @ NTU Museum of Medical Humanities**
- 15:50 - 16:40 **Eric Boue-Grabot** (CRNS) // Chair: 劉雅雯 Ya-Wen Liu (NTU) // *P2X4 Receptors at the Cell Surface and in Endolysosomes: Roles in Brain Health and Disease* * **Keynote speech** (Q&A: 10 minutes)
- 16:40 - 17:30 **KEYNOTE PANEL DISCUSSION** // Honorary Chair: **Michael X. Zhu** (Texas) **Martin Biel** (LMU Munich), **Dejian Ren** (UPenn), **Thomas Jentsch** (FMP Berlin) // *Crossing Frontiers in Ion Channel Research* (Q&A: 10 minutes)
- 17:30 **CLOSING REMARKS** // Honorary Chair: Michael X. Zhu (Texas)



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Guest of Honor

Symposium on Endolysosomal
Ion Channels and Diseases 2025



吳明賢 院長
Dean
Ming-Shiang Wu, M.D.,
Ph.D.
Distinguished Professor,
Department of Internal Medicine



俞松良 主任
Director
SungLiang Yu, Ph.D.
Professor and Director, Department of Clinical Laboratory
Sciences and Medical Biotechnology (CLSMB), NTUCM
Principal Investigator, Centers for Genomics and Precision
Medicine, NTUH

Keynote Speakers



德國院士

Martin Biel
Professor and Chair of
Pharmacology, LMU Munich
Vice President Bavarian
Academy of Sciences



Dejian Ren
Professor and Graduate
Chair of the Department of
Biology, University of
Pennsylvania



Michael X. Zhu
Professor of the McGovern
Medical School, University
of Texas



德國院士

Thomas Jentsch
Head of Department
Physiology & Pathology of Ion
Transport ; FMP, MDC and
Charité Berlin



Christian Wahl-Schott
Head of Institute of
Cardiovascular Physiology &
Pathophysiology, LMU
Munich



Eric Boué-Grabot
Deputy Director,
Neurodegenerative Disease
Institute (IMN), University
of Bordeaux



下村拓史

Takushi Shimomura
Assistant professor,
Division of Biophysics and
Neurobiology, NIPS, Japan



陳瑞華

Ruey-Hwa Chen
Distinguished Research Fellow,
Institute of Biological
Chemistry, Academia Sinica

Session moderators



Cheng-Chang Lien
連正章 院長
Distinguished Professor,
INS/ Dean, College of Life
Sciences, NYCU



Chia-Lin Hsu
徐嘉琳 主任
Professor and Director of
Institute of Microbiology and
Immunology, NYCU



Sui-Yuan Chang
張淑媛 副主任
Professor, Department of
Clinical Laboratory Sciences
and Medical Biotechnology,
College of Medicine, NTU



YaChien Yang
楊雅倩 教授
Professor, Department of
Clinical Laboratory Sciences
and Medical Biotechnology,
College of Medicine, NTU



Mei-Ru Chen
陳美如 教授
Professor, Department and
Graduate Institute of
Microbiology, NTU



劉雅雯

Ya-Wen Liu
Professor, Institute of
Molecular Medicine, College
of Medicine, NTU



姚季光

Chi-Kuang Yao
Associate Research Fellow,
Institute of Biological
Chemistry, Academia Sinica



郭靜穎

Ching-Ying Kuo
Associate Professor, CLSMB,
College of Medicine, NTU
*Master of Ceremonies



蔡雨寰

Yu-Huan Tsai
Assist. Professor, Department
of Medical Biotechnology and
Laboratory Science, CGU



陳政彰

Cheng-Chang "Maxo" Chen
Assistant Professor, CLSMB,
College of Medicine, NTU
*Conference organizer

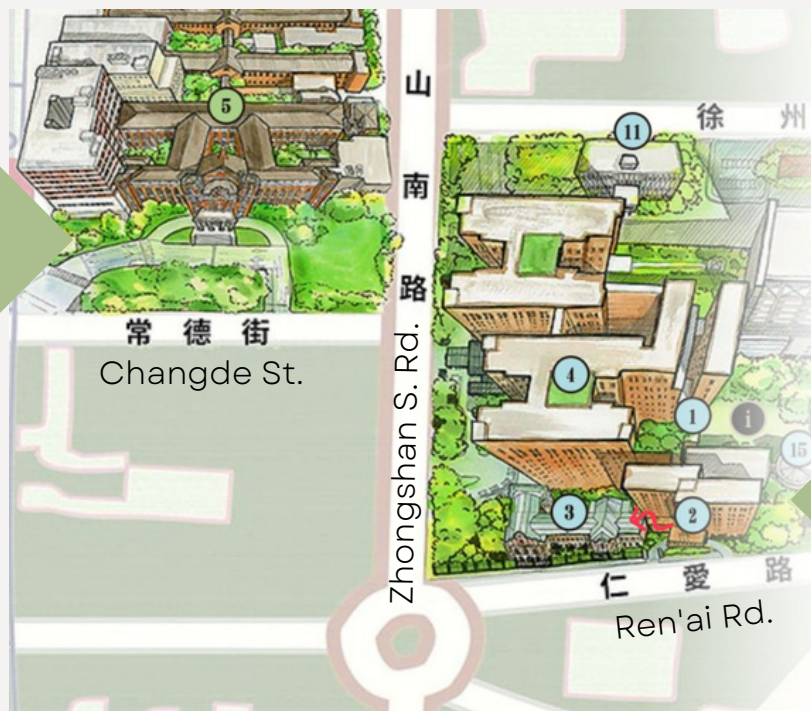
Map of NTU College of Medicine

Symposium on Endolysosomal
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National Taiwan University, College of Medicine

⑤ NTU Hospital
(West)

No. 2 Exit of NTU
Hospital MRT Station
臺大醫院站二號出口

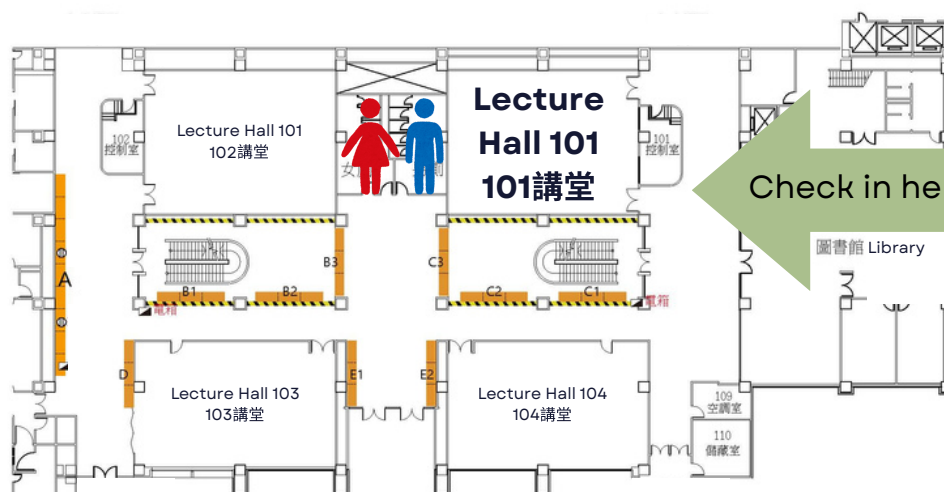


④ NTU Hospital
(East)

② Basic Medical
Science Building
醫學院基礎醫學大樓

③ NTU Museum of
Medical Humanities
(Poster & Lunch)

② Basic Medical Science (BMC) Building



Enter through the BMC
Building from the No.1 Jen Ai
Road Section , Taipei

Poster number

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No. 01

- Colin Feldmann, Ph.D., LMU Munich
- CCZ1 Coordinates Rab7a Targeting and TPC2 Activity to Regulate Endolysosomal Function and Melanoma Progression

No. 02

- Alice C. Lin 林倩如, NTU
- Characterization of hyperactive TPC2 variant uncover unique effects on lysosomal membrane remodeling

No. 03

- Tzu-Lin Hung 洪子淋, NTU
- TRPM8 mitigates tubular apoptosis and cystogenesis in ADPKD through BAG2 inhibition

No. 04

- Hsuan Ti Wang 王煊棣, NTU
- Lysosomal Ion Channels Regulate Cortical Development via the Autophagy Pathway

No. 05

- Hsuan Ti Wang 王煊棣, NTU
- Role of TRPML2 and Its Interaction with Rab4 in Endolysosomal Trafficking and Immune Defense

No. 06

- Chia-Ning Wang 王嘉寧, NTU
- A Rare TRPML2 Variant (K370Q) Reduces Influenza A Virus Replication by Disrupting Channel Activity

No. 07

- Markus Rapedius, Ph.D., Nanion Technologies
- Approaching organelles with high-throughput electrophysiology Methods to allow early Drug Discovery

No. 08

- Rosa Planells-Cases, Ph.D., Leibniz-Forschungsinstitut für Molekulare Pharmakologie
- TMEM9 subunits as new molecular regulators of endosomal chloride/proton exchangers

No. 09

- Sungyoung Kim, Ph.D., Threebrooks
- Activation of TRPML1 Restores Autophagy-Lysosomal Function and Mitigates Neurodegenerative Pathology

No. 10

- Chia-Hsing Lee 李家興, Academia Sinica
- Unveiling CryoEM structure of Flower, a dual-activity calcium channel

No. 11

- Jia-Rong Huang 黃佳容, NTU
- PHGDH regulates lysosomal integrity in response to lysosomal stress

No. 12

- Jing-Yi Lin 林靜宜, Ph.D., NTU
- Rab7a limits EV-A71 replication by altering PI4KIII β -PI4P complex formation and autophagy regulation

No. 13

- Christine Daly, Sophion Bioscience



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