



ABSC Programme

Day 1: 21st Sept 2022 (Wed)

08:30 – 08:45 Registration (MD11 Foyer)
8:45 Room opens and house rules (CRC Auditorium, MD11)

08:50 **Welcome address**
A/Prof Kevin Tan
Head, Department of Microbiology & Immunology
Vice-Dean (Graduate Studies), NUS Medicine

Scientific sessions (CRC Auditorium, MD11)

Session 1 (9:00 – 10:30)

9:00 – 10:00 **Keynote talk:** Unfolding the Misfolded: Cardiac Amyloidosis
Prof Ronglih Liao
Co-Director of the Stanford Amyloid Center,
Professor of Medicine at Stanford University School of Medicine
Chairperson
Prof Roger Foo
Zayed bin Sultan Al Nahyan
Professor in Medicine, NUS Medicine
Moderator: Faizus Sazzad

10:00 – 10:15 **Oral presentation-1** : Genome-Wide CRISPR Screen Identifies an NF2-adherens Junction Mechanistic Dependency for Cardiac Lineage
Speaker: Lee Chang Jie Mick
10:15 – 10:30 **Oral presentation-2:** Identification of Causal Non-coding Genetic Variants Linked to Cardiac Function
Speaker: Zhang Weirui

10:30 – 11:00 Tea break and Poster session 1 (MD6 Foyer 2A-B)

Session 2 (11:00 – 12:05)

11:00 – 11:35 **Scientific talk:** Upstream Regulation of Wnt Signaling: Biology and Therapy
Prof David Virshup
Program Director for Cancer & Stem Cell Biology,
Duke-NUS Graduate Medical School

Chairperson

A/Prof Polly Leilei Chen

Principal Investigator, Cancer Science Institute of Singapore
Associate Professor, Department of Anatomy, NUS Medicine

Moderator: Clara Koh

11:35 – 11:50

Oral presentation-3: A Balancing Act of the RNA Editing Enzyme ADAR1 in the Liver: Immune Sensing and Suppression

Speaker: Gan Wei Liang

11:50 – 12:05

Oral presentation-4: GSTT2 and the Response to BCG Immunotherapy

Speaker: Mugdha Patwardhan

12:05 – 1:45

Lunch break and Poster session 2 (MD6 Foyer 2A-B)

Session 3 (1:45 – 3:05)

1:45 – 2:20

Scientific talk: Genetic Glycoengineering in Bacteria

Dr Chris Sham

Assistant Professor, Department of Microbiology and Immunology,
NUS Medicine

Chairperson

A/Prof Gan Yunn Hwen

Associate Professor, Department of Biochemistry,
Co-Director, Infectious Diseases Translational Research Program,
NUS Medicine

Moderator: Tay Hui Yi

2:20 – 2:35

Oral presentation-5: Investigating the Role of Rab11a During Enterovirus 71 Infection

Speaker: Ng Qing Yong

2:35 – 2:50

Oral presentation-6: Red Blood Cell-derived Extracellular Vesicles Display Endogenous Anti-viral Properties and Serve as Effective Oligonucleotide Carriers for SARS CoV-2 Therapy

Speaker: Migara Kavishka Jayasinghe

2:50 – 3:05

Oral presentation-7: Role of CD151 in Influenza-induced Asthma Exacerbation (IAE). **Speaker:** New Chih Sheng

3:05 – 3:35

Tea break and Poster session 3 (MD6 Foyer 2A-B)

Session 4 (3:35 – 4:55)

3:35 – 4:10

Scientific Talk: Longevity Medicine: The Path towards Prevention

Prof Andrea Maier

Oon Chiew Seng Professor in Medicine

Co-Director of Centre for Healthy Longevity, NUS Medicine

Chairperson

A/Prof Raymond Seet

Associate Professor, Department of Medicine, NUS Medicine

Moderator: Caroline Robert

4:10 – 4:25

Oral presentation-8: Narciclasine Promotes Lipolysis and White Fat Browning in Diet-induced Obese Mice

Speaker: Belinda Ong

4:25 – 4:40

Oral presentation-9: Predicting Individual Brain Regional Atrophy Progression and Cognitive Decline Using Functional Connectome

Speaker: Yu Xiao

4:40 – 4:55

Oral presentation-10: Low Plasma Ergothioneine Levels are Associated with Neurodegeneration and Cerebrovascular Disease in Dementia

Speaker: Liuyun Wu

Plenary Session (4:55 – 5:45)

4:55 – 5:40

Plenary talk

Materials of the Future

Prof Sir Konstantin Novoselov

Director, the Institute for Functional Intelligent Materials, NUS

Nobel Laureate, Royal Society Research Fellow,

Distinguished Professor of Materials Science and Engineering, NUS

Chairperson

A/Prof Heng Chew Kiat

Department of Paediatrics, NUS Medicine

Moderator: Caroline Robert

5:45

Announcement: Winners of the oral and poster presentation

6:00

Day closing

Day 2: 22nd Sept 2022 (Thu)

09:30 – 10:00 Registration (MD11 Foyer)

Welcome address

10:00

Faizus Sazzad

Chairperson, ABSC 2022

President-Elect, NUS Medicine GSS

Career sessions (CRC Auditorium, MD11)

Session 1 (10:05 – 11:00)

10:05 – 11:00 Theme: **Ace Your Research in Academia**

Panelists

- **Prof Wee Joo Chng**
Vice-Dean (Research), NUS Medicine
- **A/Prof Zhi Xiong Chen**
Assistant Dean (Education), NUS Medicine
- **A/Prof Kevin Tan**
Head, Department of Microbiology & Immunology
Vice-Dean (Graduate Studies), NUS Medicine

Moderator

Vivian Tan

11:00 – 12:00 Lightning talks

12:00 – 1:00 Lunch break (MD6 Foyer 2A-B)

Session 2 (1:00 – 2:00)

1:00 – 2:00 Theme: **Break into the Fast-tracked Biomedical Industry**

Panelists

- **Dr Shu Wen Koh**
Director, NUS Industry Liaison Office (ILO)
- **Dr William Tan**
Associate Director Medical Affairs, MIRXES
- **Ms Ashley Wittorf**
APAC Head of Business Development, Johnson & Johnson
- **Dr Sashi Kesavapany**
Director, Biomedical Science, SGInnovate

Moderator

Faizus Sazzad

Session 3 (2:00 – 3:15)

2:00 – 3:15

Theme

From Lab Bench to Store Shelves

Panelists

- **Prof Lawrence Khek-Yu Ho**
Director, Centre for Innovation in Healthcare, NUHS
- **Dr Siang Lin Yeow**
Head (Enterprise), National Health Innovation Centre Singapore (NHIC)
- **Dr Ajith Isaac**
Investment Manager, STRIVE, Pre-Seed - Seed stage enablers
- **Dr Pei She Loh**
Ex-Chairperson, ABSC Congress 2021,
R&D Consultant , AVECRIS

Moderator:

Weirui Zhang

3:15 – 3:45

Tea break (MD6 Foyer 2A-B)

Session 4 (3:45 – 4:55)

3:45 – 4:55

Theme

Unlock Your Leadership Potential

Panelists

- **Dr Xian Jun Loh**
Executive Director, Institute of Materials Research and Engineering, A*STAR
- **Ms Annie Lim**
Vice President Human Resources at Hummingbird Bioscience
- **Prof Roger Foo**
Zayed bin Sultan Al Nahyan Professor in Medicine,
NUS Medicine
- **Dr Juliana Chan**
CEO, Wildtype Media Group

Moderator

Previtha Dawn

4:55

Announcement: Winners of the lightning talks

5:00

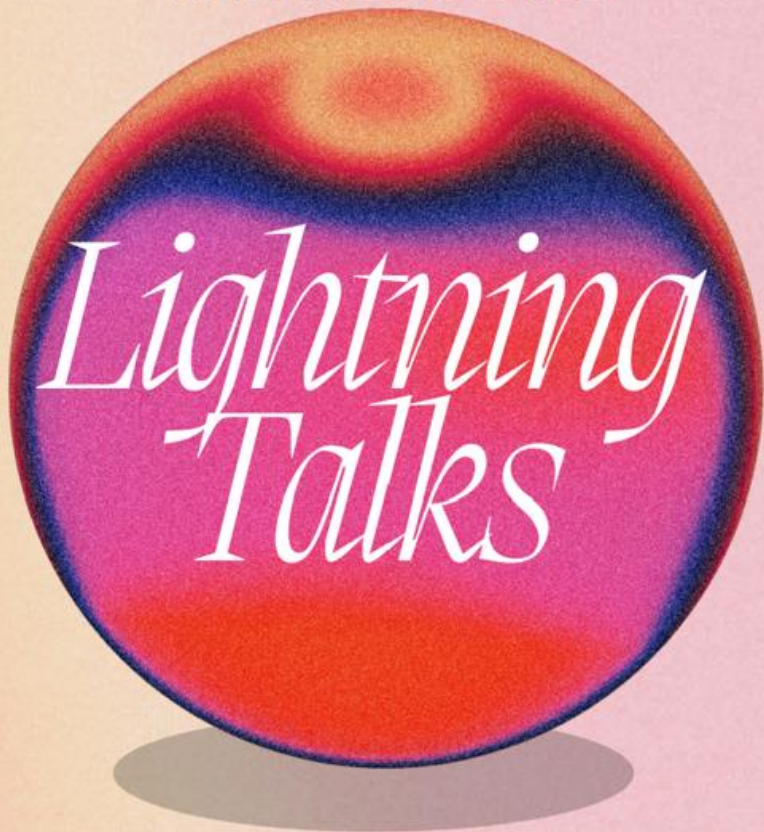
Day closing



NUS Medicine GSS Presents



10th ABSC 2022



3MT LIVE PRESENTATION BY GRADUATE STUDENTS!

3 MIN ON-STAGE PRESENTATION: HIGHLIGHT YOUR RESEARCH IN THIS ADDITIONAL PLATFORM TO SHOWCASE YOUR CONTRIBUTIONS.

VENUE: CRC AUDITORIUM, MD11.
DATE: 22 SEPTEMBER 2022. TIME 10AM-12PM.

Lightning Talks

DAY 2 – 22nd Sept 2022

| 11:00 – 12:00 Lightning Talks (CRC Auditorium, MD11) | |
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| 11:00 – 11:10 | Lightning talk-1 Title: Elucidating the Role of ADAR1 in Regulating Immunotherapeutic Response in Multiple Myeloma Speaker: Koh Mun Yee |
| 11:10 – 11:20 | Lightning talk-2 Title: Androgen-Dependent Tissue Factor Pathway Inhibitor-regulating Protein (ADTRP) Regulates Adipogenesis, Glucose metabolism and Inflammation Associated with Obesity and diabetes Speaker: Ong Sze Min |
| 11:20 – 11:30 | Lightning talk-3 Title: A Concerted Increase in Intron Retention and Readthrough Drives Transposon Expression During Aging and Senescence Speaker: Kamil Pabis |
| 11:30 – 11:40 | Lightning talk-4 Title: Making Bioprinting One-step Closer to Translational Application – Capillary Vessel Printing by Interfacial Polyelectrolyte Complexation Speaker: Chixuan Liu |
| 11:40 – 11:50 | Lightning talk-5 Title: The Impact of Yo-yo Dieting on Cardiac Health Speaker: Wang Xiao |
| 11:50 – 12:00 | Lightning talk-6 Title: The Role of Long Non-coding RNA VENTHEART in Cardiomyocyte Differentiation and Maturation Speaker: Yang Yiqing |
| Moderator Vivian Tan | |



NUS MEDICINE GSS PRESENTS



NETWORKING DINNER *night*

22ND SEPTEMBER 2022

6.30 PM
ONWARDS

ENTRY:
BY INVITATION

VENUE: DELLA & SENG GEE GUILD HALL
KENT RIDGE GUILD HOUSE, NUS

REGISTRATION



Networking Dinner

DAY 2 – 22nd Sept 2022

Day 2 – 22nd Sept 2022 (Thu)

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|---------------|--|
| Venue: | NUSS Kent Ridge Guild House |
| 6:30 – 7:00 | Registration and seating |
| 7.00 - 7:20 | Guest of Honour Prof Chong Yap Seng <i>Lien Ying Chow Professor in Medicine</i> <i>Dean, NUS Medicine</i> |
| 7:20 – 7:30 | Ice Breaking Games |
| 7:30 – 8:30 | Dinner and Networking |
| 8:30 – 9:00 | Prize Ceremony |
| 9.00 – 9:15 | Lucky Draw |
| 9:15 – 9:30 | Closing Address A/Prof Kevin Tan <i>Head, Department of Microbiology & Immunology</i> <i>Vice-Dean (Graduate Studies), NUS Medicine</i> |
| 9:30 | End of Events |