



***AstraZeneca has provided a sponsorship grant for this independent program***

**DAY 1**

**Wednesday, February 19, 2025**

08:00 - 09:00 Registration Desk Open, Meet & Greet, Coffee and Tea  
09:00 - 09:30 Welcome, Opening remarks, Housekeeping

**09:30 – 11:00 Session 1**

09:30 – 10:15 **Chair: Gert Storm (National University of Singapore, Singapore)**  
Extended Keynote 1:  
Prof. Bin Liu  
National University Singapore, Singapore  
*“Organic nanoparticles for biomedical applications”*

10:15 – 10:40 Invited Keynote 1:  
Prof. Raymond Schiffelers  
University Medical Center Utrecht, The Netherlands  
*“Targeted lipid nanoparticles for in vivo CAR T cell engineering”*

10:40 – 10:50 Abstract Talk  
10:50 – 11:00 Abstract Talk

**11:00 – 11:30 Tea + Coffee Break**

**11:30 – 13:00 Session 2**

11:30 – 11:55 **Chair: Twan Lammers (RWTH Aachen University, Germany)**  
Invited Keynote 2:  
Prof. Padma Devarajan  
Institute of Chemical Technology, Mumbai, India  
*“In-situ nanotechnology: A leap forward in nanomedicine”*

11:55 – 12:20 Invited CRS Local Chapter Speaker:  
Prof. Yuan Ping  
Zhejiang University, China  
*“Delivery of biomacromolecules for therapeutic genome editing”*

12:20 – 12:30 Abstract Talk  
12:30 – 12:40 Abstract Talk  
12:40 – 12:50 Abstract Talk  
12:50 – 13:00 Abstract Talk



**09:00 – 11:00**

**Session 5**

**Chair: Yang Shi (RWTH Aachen University, Germany)**

09:00 – 09:45

Extended Keynote 3:

Prof. Yunching (Becky) Chan

National Tsing Hua University, Hsinchu, Taiwan

*“Breaking barriers: Drug delivery technologies for cancer immunotherapy”*

09:45 – 10:10

Invited Keynote 5:

Prof. Zhiyuan Zhong

Soochow University, China

*“Harnessing targeted delivery for tumor therapy and immunotherapy”*

10:10 – 10:35

Invited CRS Local Chapter Speaker:

Prof. Xun Sun

Sichuan University, China

*“Engineered nanoemulsions modulate immune responses for treating cancer and autoimmune diseases”*

10:35 – 10:45

Abstract Talk

10:45 – 10:55

Abstract Talk

**11:00 – 11:30**

**Tea + Coffee Break**

**11:30 – 13:00**

**Session 6**

**Chair: Linda Hong (National University of Singapore, Singapore)**

11:30 – 11:55

Invited Keynote 6:

Prof. Xiaoyuan Chen

National University Singapore, Singapore

*“Cancer Nanotheranostics”*

11:55 – 12:20

Invited CRS Local Chapter Speaker:

Prof. Jae-Young Lee

Seoul National University, Korea

*“From within: harnessing proteins’ inherent potential with protein nanocluster technology in cancer therapy”*

12:20 – 12:30

Abstract Talk

12:30 – 12:40

Abstract Talk

12:40 – 12:50

Abstract Talk

12:50 – 13:00

Abstract Talk

**13:00 – 14:00**

**Lunch + Poster Viewing**

**14:00 – 16:00**

**Session 7**

**Chair: TBA**

14:00 – 14:45

Extended Keynote 4:

Prof. Roy van der Meel

Eindhoven University of Technology, The Netherlands

14:45 – 15:10 *“Engineering nanotechnology for RNA delivery”*  
Invited Keynote 7:  
Dr. Bo Ying  
Abogen Biosciences Co. Ltd., China  
*“Industrial perspective of mRNA-based therapeutics and vaccines”*

15:10 – 15:20 Abstract Talk  
15:20 – 15:30 Abstract Talk  
15:30 – 15:40 Abstract Talk  
15:40 – 15:50 Abstract Talk  
15:50 – 16:00 Abstract Talk

**16:00 – 16:30 Tea + Coffee Break**

**16:30 – 18:00 Session 8**

**Chair: Matthias Wacker (National University of Singapore, Singapore)**

16:30 – 16:55 Invited Keynote 8:  
Prof. Christine Allen  
University of Toronto, Canada  
*“Transforming drug formulation development with AI and robotics”*

16:55 – 17:20 Invited CRS Local Chapter Speaker:  
Prof. Zhen Gu  
Zhejiang University, China  
*“Bioinspired delivery of biomacromolecules and cells”*

17:20 – 17:30 Abstract Talk  
17:30 – 17:40 Abstract Talk  
17:40 – 17:50 Abstract Talk  
17:50 – 18:00 Abstract Talk

**18:00 – 19:30 Poster Viewing – Incl. Judging**

**19:30 – 22:00 Conference Dinner – Incl. Poster awards**

## **DAY 3 Friday, February 21, 2025**

09:30 - 10:30 Registration Desk Open, Meet & Greet

**09:00 – 11:00 Session 9**

**Chair: TBA**

10:30 – 11:15 Extended Keynote 5:  
Prof. Mark Muthiah  
National University Singapore, Singapore  
*“MASLD - Challenges in pharmacotherapy”*

11:15 – 11:40 Invited Keynote 9:  
Dr. Sai Kiang Lim

	Paracrine Therapeutics Pte Ltd, Singapore <i>"Re-visiting the role of exosomes or extracellular vesicles as efficient intracellular delivery vehicles"</i>
11:40 – 12:05	Invited CRS Local Chapter Speaker: Dr. Sujata Sawarkar <i>"Synergizing nanofiber scaffolds with hydrogel for advanced volumetric muscle loss healing"</i>
12:05 – 12:15	Abstract Talk
12:15 – 12:25	Abstract Talk
<b>12:25 – 13:25</b>	<b>Lunch (Oral abstract judges meet)</b>
<b>13:25 – 14:55</b>	<b>Session 10</b>
	<b>Chair: Xiaogang Liu (National University of Singapore, Singapore)</b>
13:25 – 13:50	Invited Keynote 10: Prof. Dean Ho National University of Singapore, Singapore <i>"The biomedically engineered biomedical engineer"</i>
13:50 – 14:15	Invited CRS Local Chapter Speaker: Dr. Goh Choon Fu <i>"Machine learning predicts the strength and in vitro penetration of microneedles"</i>
14:15 – 14:25	Abstract Talk
14:25 – 14:35	Abstract Talk
14:35 – 14:45	Abstract Talk
14:45 – 14:55	Abstract Talk
<b>14:55 – 15:25</b>	<b>Tea + Coffee Break</b>
<b>15:25 – 16:55</b>	<b>Session 11</b>
	<b>Chair: Jiong-Wei Wang (National University of Singapore, Singapore)</b>
15:25 – 16:10	Extended Keynote 6: Prof. Guangjun Nie National Center for Nanoscience and Technology, Beijing, China <i>"The emerging nanotherapeutics based on biomolecule delivery"</i>
16:10 – 16:35	Invited Keynote 11: Prof. Yi Yan Yang Bioprocessing Technology Institute, A*STAR, Singapore <i>"Nanocarriers for targeted delivery of mRNA"</i>
16:35 – 16:55	Closing Ceremony – Incl. Oral Abstract Awards
<b>16:55</b>	<b>Conference End</b>