

### **09:00 Welcome**

Sverker Lundin, CEO YAS  
Young Keun Kim, Chair Y-KAST

### **09:10 Round of presentations**

### **09:15–10:00 Open discussion on the role of young academies**

Why are young academies needed and what do we want to achieve? Five-minute introductory presentations from YAS and Y-KAST, followed by group and plenary discussions.

### **10:00–10:40 Ongoing projects within YAS and Y-KAST**

Five-minute presentations of three activities conducted within each academy.

### **10:40–11:00 Coffee break: Swedish “fika”**

### **11:00–12:00 Academic freedom: Exchange of experiences**

Five-minute presentations from YAS and Y-KAST, followed by discussions. How can a free academic environment lead to innovation and disruptive discoveries? Freedom or targeted calls: How can academia balance breadth and depth?

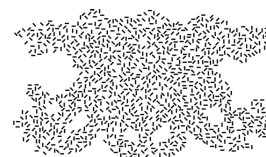
### **12:00–12:30 Guided tour of the Royal Swedish Academy of Sciences + group photo**

Visit to the Session Hall where the announcements of the Nobel Prizes in Physics and Chemistry and the Prize in Economic Sciences are held each year. Our guide is Maria Asp, archivist, Center for History of Science, the Royal Swedish Academy of Sciences.

### **12:30–13:00 Lunch**

# 2024 YAS-Y-KAST 4th Bilateral Symposium

Stockholm, August 21



SVERIGES UNGA AKADEMI



SVERIGE +  
REPUBLICEN KOREA  
대한민국 + 스웨덴  
SINCE 1959



Young Korean Academy of  
Science and Technology

# Participants



**Ellen Bushell** – Dr., Umeå University

I am a Molecular Infection Medicine Sweden (MIMS) group leader at the department of Molecular Biology at Umeå University. My research centers on scaling up reverse genetics of malaria parasites to map out gene function and new identify therapeutic targets. I am actively engaged in science outreach activities at a local and national level.



**Gabriele Messori** – Professor, Uppsala University

My research focuses on extreme weather events. I am particularly interested in the question of how specific extreme events can be attributed to human-driven climate change and in how different extreme weather events across the globe are connected to one another.



**Janina Seubert** – Docent, Karolinska Institutet

My research studies the perceptual experiences associated with eating, focusing on odor and taste perception during anticipation and consumption of food, and their effects on memory and motivation.



**Jennifer Mack** – Associate professor, KTH Royal Institute of Technology

My research is in architecture and anthropology. My primary focus has been on the politics of architecture and landscape in relation to social equality, rising populism, and environmental challenges, and my case studies have been mainly located in modernist housing estates in Sweden and Denmark.



**Juan Rocha** – Researcher, Stockholm University

My research is on sustainability science. My research questions center around abrupt transitions in ecosystems, what drive them, what are their impacts on society, or how can we predict them.



**Yaffa Epstein** – Associate professor, Uppsala University

My research is in environmental law. I have primarily focused on how to better use or relate to natural science in formulating, interpreting and applying laws that intend to protect the environment or human health.



**Sverker Lundin** – CEO, Young Academy of Sweden

I have a background in biotechnology and a PhD from the Royal Institute of Technology. I have developed national research infrastructures at Science for Life Laboratory and managed research funding at the Swedish Research Council. As CEO of YAS I manage the academy and support the members.



**Young Keun Kim** – Professor, Korea University, Chair Y-KAST

Prof. Kim's research interests include novel magnetic thin films and nanostructured materials development for spintronic memory devices, metallization, and biomedical applications.



**Hyo Jae Yoon** – Professor, Korea University

I am a supramolecular and organometallic chemist. My ongoing research interests center on charge transport through molecular layers, supramolecular electronics, and on-surface reactions.



**Jerome K. Hyun** – Professor, Ewha Womans University

My research focuses on the scattering and absorption of electromagnetic waves. Key areas of interest include engineering nanoscale optical resonances to manipulate light scattering, developing structural color sensors responsive to environment changes, and achieving perfect microwave absorption with ultra-thin films.



**Jonghwa Shin** – Ass. professor, Korea Advanced Institute of Science and Technology

My research is focused on the design of fine-structured optical and electromagnetic materials and devices, also known as metamaterials and metasurfaces. The application areas include next generation information displays, image sensors, solar energy devices, radiative coolers, and smart microwave surfaces.



**Junghwan Lee** – Associate professor, Dankook University

His area of expertise includes nano-biomaterial engineering and its application in the biomedical field.



**So Youn Kim** – Associate professor, Seoul National University

My research group specializes in polymer science and engineering, especially in polymer composites. We focus on exploring particle-polymer interactions and manipulating these structures to achieve specific properties in complex nanoparticle-polymer composites.



**Soon-Kyeong Kwon** – Associate professor, Gyeongsang National University

My research is in microbiology, with a focus on various phenomena that occur when microorganisms interact with the environment. My research has primarily centered on analyzing multi-omics data, including the genomes of microorganisms.