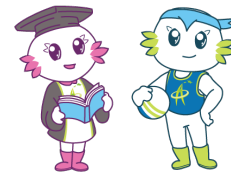


Co-organisers:



Supporting Organisation:

教育局
Education Bureau



[Learn about Gigi & Yoyo](#)

E2TEC022T
(Not-token required)

[**Gifted Programme**]



Emerging Technology Talk Series by YASHK

Science, Opportunities and Challenges 2025 : Amazing Gold Nanoparticles

Professor Chung Hang Jonathan CHOI
Department of Biomedical Engineering, CUHK



Application Deadline
17 Nov 2025 12:00 noon

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

1. Understand the basic concepts and applications of bionanotechnology
2. Develop a preliminary taste of the scientific literature
3. Appreciate the impact of interdisciplinary research



◆ Gifted Programme Introduction

Nanometer (10^{-9} meter) is a unit of length, and gold nanoparticles are derived from the assembly of gold atoms (chemical symbol: Au). Gold nanoparticles possess special optical, electronic, and chemical properties. Although composed of gold, gold nanoparticles appear red in color in aqueous solution. Ancient people had already discovered the red color of gold nanoparticles and utilized it in creating artworks. This talk will introduce the application of gold nanoparticles in medical diagnosis as well as recent work by Prof. Choi's group on using gold nanoparticles for treating diseases, potentially improving human health.

Gold nanoparticles are also capable of supporting drug delivery. Recently, Prof. Choi's group discovered that, without any chemical or biological drugs, gold nanoparticles demonstrated self-therapeutic efficacy in treating several kinds of chronic diseases mice model, including psoriatic skin, atherosclerotic plaques, fibrotic kidneys, and degenerative brain. We expect gold nanoparticles to provide new treatment modalities for patients.

"Talk Series on Emerging Technologies — Science, Opportunities and Challenges 2025: Amazing Gold Nanoparticles" is co-organised by YASHK and HKAGE.

◆ Schedule

Session	Date	Time	Venue
1	6 Dec 2025	10:30 a.m. – 12:30 p.m.	Zoom meeting

◆ Suitable for

- S1 – S6 HKAGE student members in 2025/26 school year only.

- Class size: 280

* First-come, first-served.

◆ Medium of Instruction

Cantonese

◆ Certificate

E-Certificate will be awarded to participants who have attended the talk.

◆ Remark

Starting from the 2023/24 school year, after the first review period, ALL student members must complete the following requirements in each school year in order to maintain their membership:

- Attend One Talk; AND
- Participate in One programme or activity of any kind

This talk is one of the items in the five domains of the Holistic Talk Series. The objective is to facilitate the all-round development of student' gifted potential.



Emerging Technology Talk Series by YASHK

Scientists introduce eye-opening emerging technology to enhance students' motivation to learn.



Trendy Academic Talk Series

Introduce trendy topics to widen the students' horizons.



National Security Talk Series

Understanding the meaning of National Security, enhances students' sense of national identity.



Ignite Life Talk Series

Celebrities share their life-changing moments to enhance students' aspirations for life.



Future Insight Talk Series

Professionals share insights about the latest trends in their industry to help students plan their future.

