

**THE 5<sup>th</sup>**  
**INTERNATIONAL CONFERENCE**  
**ON APPLIED SCIENCES**  
**ICAS 2026**

**July 3<sup>rd</sup> - 4<sup>th</sup>**

**National Yang Ming Chiao Tung University, Taipei City, Taiwan**  
**Traditional Medicine Building A, 2F Conference room.**  
**(Yang Ming Campus)**



# THE 5<sup>th</sup> INTERNATIONAL CONFERENCE ON APPLIED SCIENCES ICAS 2026

July 3<sup>rd</sup> - 4<sup>th</sup>

National Yang Ming Chiao Tung University, Taipei City, Taiwan  
Traditional Medicine Building A, 2F Conference room.  
(Yang Ming Campus)

## ORGANIZER



NYCU  
College of  
Life Sciences



TDTU  
Faculty of  
Applied Sciences

## SPONSOR



國立陽明交通大學 生命科學院  
NYCU, College of Life Sciences



國立陽明交通大學 研究發展處  
NYCU, Office of Research and Development



國家科學及技術委員會補助  
生命科學研究推動中心  
Life Sciences Research Promotion Center (LSRPC)



NSTC 國家科學及技術委員會  
National Science and Technology Council

# THE 5<sup>th</sup> INTERNATIONAL CONFERENCE ON APPLIED SCIENCES ICAS 2026

National Yang Ming Chiao Tung University, Taipei City, Taiwan  
Traditional Medicine Building A, 2F Conference room.  
(Yang Ming Campus)

July 3<sup>rd</sup> (Fri.)

## OPENING

10<sup>th</sup> Anniversary  
of TDTU-NYCU Summer School

## KEYNOTE SPEECH



## SESSIONS

POSTER

CHEMICAL ENGINEERING

POSTER

BANQUET

July 4<sup>th</sup> (Sat.)

## KEYNOTE SPEECH



## SESSIONS

BIOTECHNOLOGY

POSTER AWARD

## CULTURE TOUR

NATIONAL PALACE MUSEUM

# Agenda

**Friday, July 3<sup>rd</sup>, 2026**

**Venue: Traditional Medicine Building A, 2F Conference room**

10:00 | Registration

10:30 | **Opening**  
**10<sup>th</sup> anniversary of TDTU-NYCU Summer School**

## **Keynotes**

**Chairs: Prof. Shir-Ly Huang, NYCU; Dr. Pham Dinh Chuong, TDTU**

11:00 | *TBA*  
**Prof. Muh-Hwa Yang**  
College of Medicine, NYCU, Taiwan

**Lunch (VIP lunch by invitation)**  
**Poster evaluation**

## **Keynotes**

**Chairs: Prof. Shir-Ly Huang, NYCU; Dr. Pham Dinh Chuong, TDTU**

14:00 | Translational pathway of biomimetic nanotextured titanium surfaces: bactericidal efficacy and immunomodulation  
**Prof. Elena P. Ivanova**  
RMIT University, Australia

14:30 | From Plant-Derived Precursors to Functional Materials: A Bio-Inspired Design Strategy  
**Assoc. Prof. Nguyen Thi Truc Linh**  
Faculty of Applied Sciences, TDTU, Vietnam

15:00 | **Tea Break**

# Agenda

**Friday, July 3<sup>rd</sup>, 2026**

**Venue: Traditional Medicine Building A, 2F Conference room**

## **Chemical Engineering**

**Chairs: Assist Prof. Yei-Tsung Chen, NYCU; Assoc. Prof. Nguyen Thi Truc Linh, TDTU**

- 15:30 | Polysaccharide-based thermochromic and photochromic hydrogels for advanced smart applications  
**Dr. Phan Vu Hoang Giang, TDTU**
- 15:40 | *TBA*  
**Distinguished Prof. Ling-Huei Huang, NYKU**
- 15:50 | Red mud-derived functional materials for sustainable water treatment applications  
**Dr. Truong Thi Be Ta, TDTU**
- 16:00 | Artificial intelligence applications in Chemical analysis and Bioactivity evaluation of Mangrove Medicinal plants  
**Dr. Vo Thi Kim Khuyen, UMP**
- 16:10 | Fabrication of ciprofloxacin-loaded PVA/chitosan nanofibers via electrospinning for wound dressing  
**Dr. Tran Hoai Khang, TDTU**
- 16:20 | DFT Investigation of Radical Scavenging Mechanisms of 5-Fluorouracil Against Multiple Free Radicals  
**Dr. Trinh Thien Thuat, TDTU**
- 16:30 | Essential oil extraction and its application in the synthesis of some semisynthetic compounds  
**Dr. Tran Boi Chau, TDTU**
- 16:40 | Q & A

**17:00 | Poster evaluation**

17:40 | Departure to Su Hung Restaurant 365

**18:00 | Dinner**  
**at SU HUNG RESTAURANT 365**  
**2 F., No. 365, Mingde Rd., Beitou Dist., Taipei City 112303, Taiwan**

# Agenda

**Satu, July 4<sup>th</sup>, 2026**

**Venue: Traditional Medicine Building A, 2F Conference room**

## Keynotes

**Chair: Prof. Wei-Hsin Sun, NYCU; Dr. Pham Dinh Chuong, TDTU**

09:00 | Structure and Function of Diverse Lectins: Potential Applications, from Pesticides to Antiviral and Alzheimer's Therapies

**Prof. Tomohisa Ogawa**

School of Agricultural Science, Tohoku University, Japan

09:30 | Cancer Chemopreventive and Other Health Beneficial Effects of *Panax Ginseng*

**Prof. Young-Joon Surh**

College of Pharmacy, Seoul National University, Korea

TBA

10:00 | **Prof. Ao-Lin Hsu**

College of Life Sciences, NYCU, Taiwan

10:30 | **Tea Break**

## Biotechnology

**Chairs: Assoc Prof. Ming-Han Tsai , NYCU; Dr. Pham Dinh Chuong, TDTU**

11:00 | Effect of biofertilizer on yield and phytochemical, and antioxidant of Edamame seeds

**Dr. Nguyen Thi Thu Hang, TDTU**

11:10 | Production of detection kit for *Streptococcus agalactiae* causing hemorrhage and eye edema in Nile tilapia (*Oreochromis niloticus*)

**Dr. Pham Dinh Chuong, TDTU**

TBA

11:20 | **Assoc. Prof. Ming-Han Tsai, NYCU**

11:30 | Extraction of hydrolysed collagen from basa's fish skin (*Pangasius bocourti*) by enzymatic hydrolysis methods combined with ultrasound

**Dr. Nguyen Thi Cam Vi, TDTU**

11:40 | Comparison of chitosan and *Cterculia foetida* L. Gum films enriched with *Glinus oppositifolius* extract for postharvest preservation of *Ziziphus mauritiana* Lamk

**Dr. Doan Thien Thanh, TDTU**

11:50 | Enhanced Astaxanthin Production in *Rhodospiridium toruloides* via Sequential Benomyl-EMS Mutagenesis and Culture Medium Optimization

**Dr. Tran Thi Tuyet Nhung, TDTU**

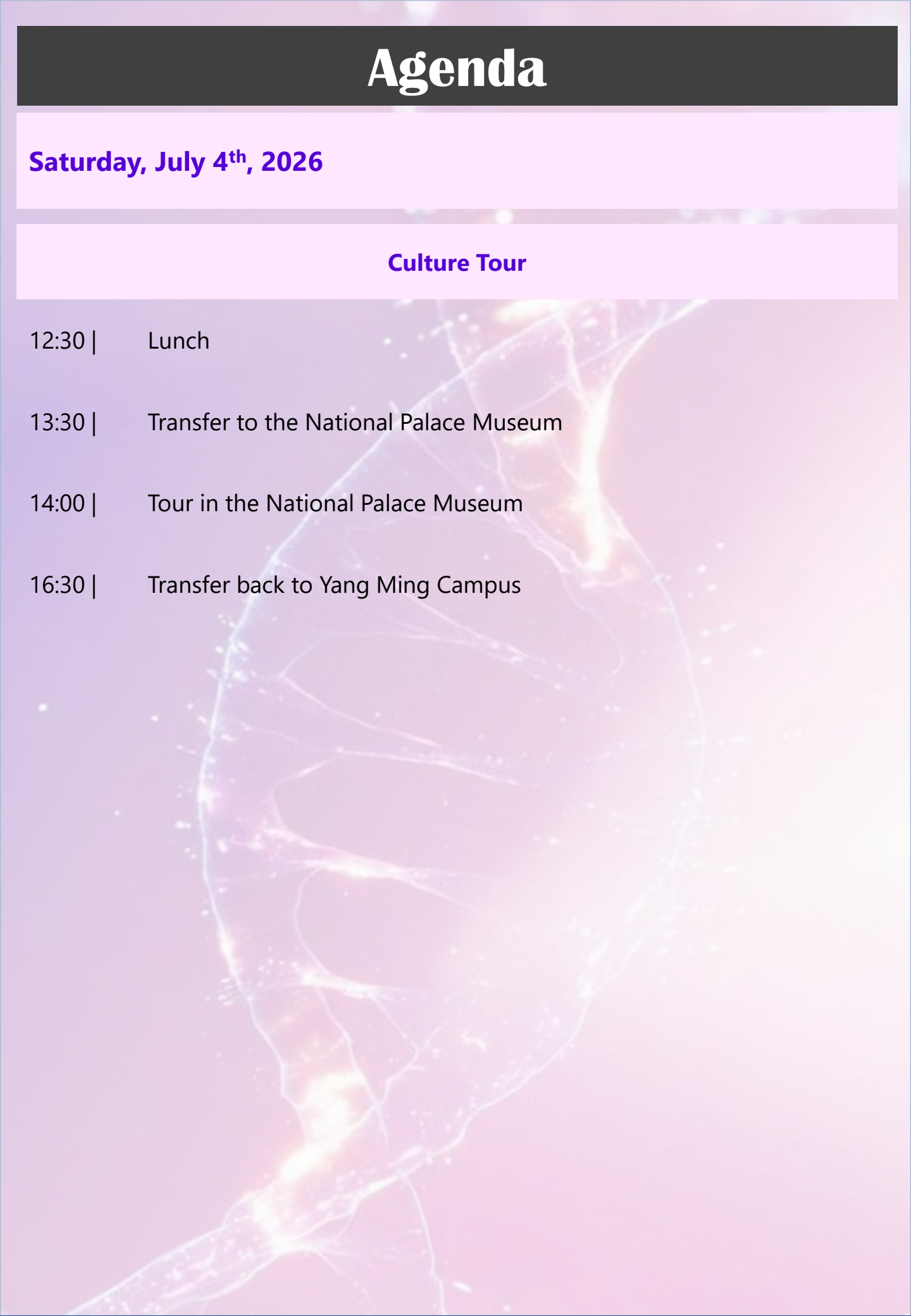
12:00 | Q & A

**Closing Remarks**  
**Poster Award Ceremony**

# Agenda

**Saturday, July 4<sup>th</sup>, 2026**

## **Culture Tour**

- 
- 12:30 | Lunch
  - 13:30 | Transfer to the National Palace Museum
  - 14:00 | Tour in the National Palace Museum
  - 16:30 | Transfer back to Yang Ming Campus

# ORGANIZING COMMITTEES

## Organizer Committee

## Title/Affiliation

Cheng-Chang Lien

Dean, College of Life Sciences, NYCU

Do Tuong Ha

Dean, Faculty of Applied Sciences, TDTU

Nguyen Ngoc Tuan

Vice Dean, Faculty of Applied Sciences, TDTU

Wei-Hsin Sun

Vice Dean, College of Life Sciences, NYCU

Shir-Ly Huang

Honorary Vice Dean, College of Life Sciences, NYCU

# REGISTRATION

## Foreign

## Registration fee

## Remittance Information

Non-student

200 USD

Student

50 USD

- Beneficiary Bank: E.SUN Commercial Bank, Ltd.
- Beneficiary Bank Add.: No.115 and 117, Sec.3, Minsheng E.Rd., Taipei City, 10546, Taiwan
- SWIFT CODE: ESUNTWTP
- Beneficiary Name: NATIONAL YANG MING CHIAO TUNG UNIVERSITY
- Beneficiary A/C No.: 0163951000028

## Domestic

## Registration fee

## Remittance Information

Non-student

6,000 NTD

Student

1,000 NTD

- 金融機構：玉山銀行(銀行代碼808) 天母分行(分行代碼0163)
- 戶名：國立陽明交通大學403專戶
- 帳號：0163951000028

**Contact person: Ms. Jennifer Chen**

Email: [jenniferchen@nycu.edu.tw](mailto:jenniferchen@nycu.edu.tw)

Tel: +886-2-2826-7000 ext. 66131

## Registration fee includes:

**A programme, 7/3 Lunch & dinner, 7/4 lunch & culture tour.**

\*\*\*\*\*

Participants are requested to register and submit their **abstracts** by **June 22 (Wed.), 2026**, following the specified format.

**Registration QR code**



# Abstract Format

## **Title (20-pt font, Calibri)**

Authors' name (14-pt font, Calibri)

Affiliations (14-pt font, Calibri)

**Abstract: (300-500 words, 16-pt font, Calibri)**

**3-5 Keywords**

**Background:**

**Methods & Results:**

**Conclusions:**

**Example:**

## **ICAS-5: A Catalyst for Innovation and International Collaboration**

Emily Chen<sup>1,\*</sup>, Nguyen Thi Lan<sup>2</sup>

<sup>1</sup>College of Life Sciences, National Yang Ming University, Taipei City, Taiwan

<sup>2</sup>Faculty of Pharmacy, Ton Duc Thang University, Ho Chi Minh City, Vietnam

\*Corresponding author. Email: [emily0102@gmail.com](mailto:emily0102@gmail.com)

# Poster Format

(90X120cm, vertical)

**Title**  
**Authors' name**  
**Affiliations**

**Example:**

**A Catalyst for Innovation and International Collaboration**

Emily Chen<sup>1,\*</sup>, Nguyen Thi Lan<sup>2</sup>

<sup>1</sup>College of Life Sciences, National Yang Ming University, Taipei City, Taiwan

<sup>2</sup>Faculty of Pharmacy, Ton Duc Thang University, Ho Chi Minh City, Vietnam

\*Corresponding author. Email: [emily0102@gmail.com](mailto:emily0102@gmail.com)

120 cm

90 cm

# Paper Format

## Title

Firstname Lastname <sup>1</sup>, Firstname Lastname <sup>2</sup>, and Firstname Lastname <sup>2,\*</sup>

<sup>1</sup> Affiliation 1; e-mail@e-mail.com

<sup>2</sup> Affiliation 2; e-mail@e-mail.com

\* Correspondence: e-mail@e-mail.com; Tel.: (optional; include country code; if there are multiple corresponding authors, add author initials) +xx-xxxx-xxx-xxxx

**Abstract:** A single paragraph of about 200 words maximum. For research articles, abstracts should give a pertinent overview of the work. We strongly encourage authors to use the following style of structured abstracts, but without headings: (1) Background: Place the question addressed in a broad context and highlight the purpose of the study; (2) Methods: Describe briefly the main methods or treatments applied; (3) Results: Summarize the article's main findings; and (4) Conclusions: Indicate the main conclusions or interpretations.

**Keywords:** keyword 1; keyword 2; keyword 3 (List three to ten keywords)

### 1. Introduction

The introduction should briefly place the study in a broad context and highlight why it is important.

### 2. Materials and Methods

Materials and Methods should be described with sufficient details to allow others to replicate and build on published results. New methods and protocols should be described in detail while well-established methods can be briefly described and appropriately cited.

### 3. Results and Discussion

This section may be divided by subheadings.

### 4. Conclusions

This section summarizes the entire work or the findings.

### Acknowledgments:

### Appendix

The appendix is an optional section that can contain details and data supplemental to the main text.

### References

References must be numbered in order of appearance in the text (including citations in tables and legends) and listed individually at the end of the manuscript.

Paper template: [here](#)

Simple instructions for IOP: [here](#)

Link for IOP submission:

## Committees of Abstract and Poster Review

### Committees

### Title/Affiliation

Yei-Tsung Chen

Assistant Professor

College of Life Sciences, NYCU

Tran Thi Tuyet Nhung

Faculty of Applied Sciences, TDTU

Tran Hoai Khang

Faculty of Applied Sciences, TDTU

Truong Van Thien

Faculty of Applied Sciences, TDTU

## Committees of Paper Review

### Committees

### Title/Affiliation

Shir Ly Huang

Professor

College of Life Sciences, NYCU

Nguyen Ngoc Tuan

Associate Professor

Faculty of Applied Sciences, TDTU

Vo Nguyen Xuan Phuong

Faculty of Applied Sciences, TDTU

Pham Dinh Chuong

Faculty of Applied Sciences, TDTU

Phan Vu Hoang Giang

Faculty of Applied Sciences, TDTU

# Field Trip on July 4<sup>th</sup>



## National Palace Museum

The National Palace Museum was established following the historical conflict between the Kuomintang and the Communist Party, which led to the relocation of imperial artifacts to Taiwan. Its collection represents thousands of years of Chinese cultural heritage, and the museum is dedicated to preserving and presenting these treasures. Most artifacts originated from the Preparatory Department of the National Central Museum and are primarily Qing court collections from the Palace Museum, the Jehol summer resort, and the Shenyang Imperial Palace.

# Accommodations



## The Tango

No. 16-6, Jihe Rd., Shilin Dist.,  
Taipei City 111013, Taiwan (R.O.C.)

Near Jiantan MRT station (R15)

<http://jt.tango-hotels.com/>

## Renaissance Taipei Shihlin Hotel

No. 8, Ln. 470, Sec. 5, Zhongshan N. Rd.,  
Shilin Dist., Taipei City 111005, Taiwan (R.O.C.)

Near Shihlin MRT station (R16)

<https://www.marriott.com/en-us/hotels/tpesh-renaissance-taipei-shihlin-hotel/overview/?scid=f2ae0541-1279-4f24-b197-a979c79310b0>

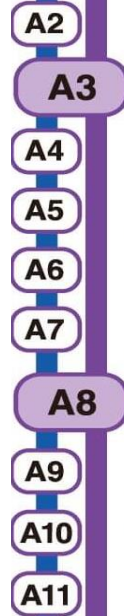


石牌 明德 芝山 士林 劍潭 圓山



Walk about 10-15 minutes

Taipei Main Station A1 台北車站  
台北駅 타이베이역



Taoyuan airport MRT  
桃園機場捷運線

Airport Terminal 1 A12 機場第一航廈

Airport Terminal 2 A13 機場第二航廈

Taoyuan Airport



NYCU,  
Yang Ming Campus,  
Taipei City

HOW CAN I GET TO NYCU?

(Yang Ming Campus)



**Library Building**

**3.**



**2.**

**Sport Court**

**Traditional  
Medicine  
Building A**

**GATE**



**1.**

1. Go straight after entering the campus gate.
2. When you see the library, turn right (the sports field will be on your right-hand side).
3. After passing the sports field, the building slightly ahead to your right is the Traditional Medicine Building A.

**HOW CAN I GET TO  
Traditional Medicine Building A?**