

# 美洲華人生物科學學會

## Society of Chinese Bioscientists in America

### 2025 SCBA DC Chapter Annual Scientific Symposium

Saturday, August 2nd, 2025, George Mason University, Mason Square (Arlington Campus)

Co-organizers: **Drs. Yuntao Wu** (GMU), **Wanjun Chen** (NIH/NIDCR)

**Location:** Van Metre Hall, 134, Auditorium, Mason Square  
Van Metre Hall Room 125/126 adjacent to the Auditorium for poster sessions, coffee, and lunch  
Address: 3351 Fairfax Dr. Arlington, VA 22201

**Parking:** (using this address for google map): Van Metre Hall (formatly Founders Hall on google map) 3351 Fairfax Dr. Arlington (using the N. Kirkwood Rd for visitor parking)

**Metro:** Take the Orange Line to the Virginia Square/GMU station. Take the escalator to the street level, and turn to face Fairfax Drive. Across the street and to the right, you will see the FDIC building. The Arlington Campus is next door.

### Meeting Program

- |                     |  |
|---------------------|--|
| 8:00-8:25 am        | Registration/Coffee  |
| 8:25-8:30am         | Welcome/Opening Remarks<br><br>(Dr. Yuntao Wu, President of SCBA DC chapter)<br>(Dr. Monique Van Hoek, Director, CIDR, GMU)  |
| 8:30-9:30am         | <b>Opening Keynote</b><br><br>Dr. Hongbo Chi (St. Jude Children's Research Hospital)<br><br><b>Metabolic reprogramming of cancer immunity: a functional genomics perspective</b> |
| <b>9:30-10:25am</b> | <b>Session I: Molecular, Cellular and Systems Immunology</b><br><br><b>Co-Chairs:</b> Dr. Wanjun Chen (NIH/NIDCR) and Dr. Bin Gao (NIH/NIAAA)                                    |
| 9:30-9:50am         | Bin Gao (NIH/NIAAA)<br><br><b>Macrophages control liver healing and regeneration: A promising cell therapy for liver failure</b>   |
| 9:50-10:10am        | Wanjun Chen (NIH/NIDCR)<br><br><b>TGF-<math>\beta</math> regulation of immunity: implications for immunotherapy</b>  |
| 10:10-10:30am       | Xuguang Tai (NIH/NCI)  |

# 美洲華人生物科學學會

## Society of Chinese Bioscientists in America

**A new insight into regulatory T cell development in the thymus**

10:30-10:40am Zhao Chen (NIH/NCI)

**Targeting intratumor microbiome in lung cancer to conquer immunotherapy resistance**

**10:40-11:00am Coffee break**

**11:00-12:30pm Session II: Disease Mechanisms and Therapeutic Potentials**

**Co-Chairs:** Dr. Nan-ping Weng (NIH/NIA) and Dr. Paul Liu (NIH/NIHGR)

11:00-11:18am Paul Liu (NIH/NIHGR)

**RUNX1-FPD: a leukemia predisposition syndrome with heightened inflammation**

11:18-11:36am Peng Jiang (NIH/NCI)

**Big data and artificial intelligence approaches to identify regulators of anti-tumor immune response**

11:36-11:54am Lichun Ma (NIH/NCI)

**Dissecting spatial intratumor heterogeneity in liver cancer**

11:54-12:12pm Mitchell Ho (NIH/NCI)

**Engineering T cells to target solid tumors**

12:12-12:30pm Nan-ping Weng (NIH/NIA)

**Strategies to strengthen the aging immune system**

**12:30 pm-1:45pm Lunch Break**

**Career round table discussions**

- **Biotech industry and Career Pathways**

Chair: **Linda Liu**, Ph.D, Senior Vice President, Biological Discovery, Zai Laboratory (NASDAQ: ZLAB)

Panelists: **Dr. Tianci Luo**, Ph.D, Executive Director, Gene and Virus Therapy, Phama Cinq LLC.

# 美洲華人生物科學學會

## Society of Chinese Bioscientists in America

Dr. **Kun (Quinn) Yao**, DVM., Ph.D. Senior Director and Head of Manufacturing Sciences and Technology (MSAT). Cell Therapy Development and Operations. Astrazeneca LLC.

**1:45pm-2:45pm**     **Poster session**

**2:45pm-4:35pm**     **Session III: All things considered: interdisciplinary research, AI, and novel modeling systems**

**Co-Chair: Dr. Tongqing Zhou (NIH/VRC) and Chang Liu (JHU)**

2:45-3:05pm     Zhi-Ming Zheng (NIH/NCI)

**Only one of multiple integrated HPV DNA copies in cervical cancer is E6 and E7 expressible**

3:05-3:25pm     Chang Liu (JHU)

**Mechanisms of mismatch correction by the unique coronavirus proofreading enzyme**

3:25-3:45pm     Tongqing Zhou (NIH/VRC)

**Generative AI-Guided Design of HIV-1 Immunogens**

3:45-4:55pm     Yichao Liu (Genion Quantum LLC)

**AI-driven de novo peptide binder design and optimization**

4:55-4:05pm     Guangming Li (IHV/UMD, Baltimore)

**Depletion of pDCs rescues HIV-reactive stem-like CD8 T cells during chronic HIV-1 infection**

4:05-4:15pm     Xi Yang (UMD, Baltimore)

**Regulation of EZH2 activity by SRC-induced tyrosine phosphorylation**

4:15-4:25pm     Sijia He (GMU, Manassas)

**CD34 functions as a host antiviral protein limiting HIV-1 proliferation in hematopoietic stem and progenitor cells**

**4:25-4:35pm**     **Coffee break**

# 美洲華人生物科學學會

## Society of Chinese Bioscientists in America

**4:35-5:05pm**

**Closing Keynote**

Keji Zhao (NIH/NHLBI)

Detection, function, and regulation of chromatin interaction

**5:05-5:20pm**

**Award Ceremony**

**5:20-5:25pm**

**Closing Remarks** (Dr.Yuntao Wu, President-elect of SCBA DC chapter)

# 美洲華人生物科學學會

Society of Chinese Bioscientists in America

## Sponsors



Dr. Fangmin Charlie Sheen  
( Promega Senior Scientific Consultant)