

IABS FORUM-2024

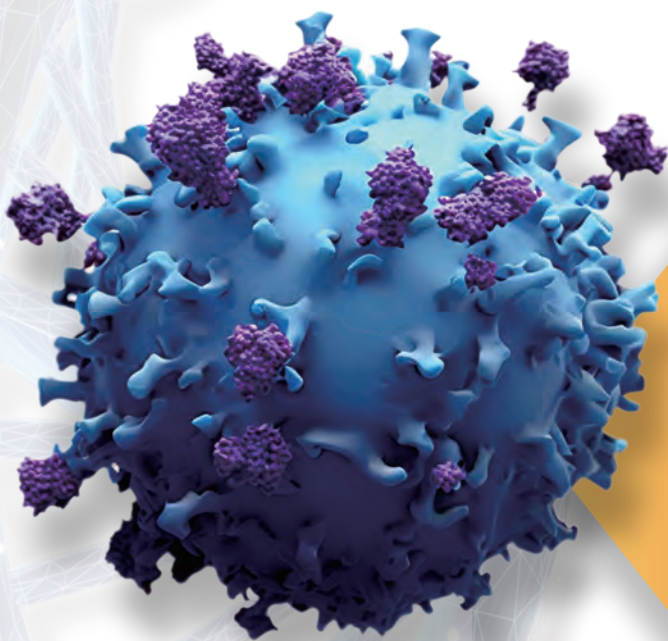


Cancer Immunotherapy: Breakthroughs and Challenges

December 5-6

Delta Hotels Ontario Airport
(2200 E Holt Blvd, Ontario, CA 91761, USA)

Program Book



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DELTA
HOTELS
MARRIOTT

▼ **HOST**



**International Association of
Biomedical Sciences (IABS)**

A Non-Profit 501 (c) (3) Organization

▼ **CO-HOST**



**The Western University of
Health Sciences**

▼ **CO-HOST**



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US CHINESE SCHOLAR ASSOCIATION



Click for registration: <https://ia-bs.org/etn/iabs-forum/>



About IABS Forum

The IABS Forum is organized by the International Association of Biomedical Sciences (IABS), a non-profit academic organization established in 2005 in Los Angeles, California. IABS aims to foster intellectual exchange and collaboration across disciplines and countries, with a mission to advance human health by bringing together top medical professionals globally, promoting innovative therapies for challenging diseases, and supporting the development of new ideas in biomedical and medical sciences.

In recent years, IABS has held the IABS Forum annually to unite leading scientists and disseminate cutting-edge research. The most recent “IABS Forum-2023” featured 30 world-renowned speakers in the field of neurology, including Nobel laureate Dr. Thomas Sudhof as a Plenary Speaker (<https://ia-bs.org/iabs-forum-2023/>).

The upcoming “IABS Forum-2024” will be centered around the theme "Cancer Immunotherapy: Breakthroughs and Challenges". This forum will bring together over twenty renowned scientists from around the world, including U.S. FDA officials, to discuss critical scientific and regulatory topics. Notable speakers will include professors from Yale University, the National Institutes of Health, and distinguished faculty from five University of California campuses. Additionally, four leading scientists from City of Hope Comprehensive Cancer Center, ranked as the top 5 cancer hospital in the nation for 2024, along with distinguished experts from Europe, Asia, the Middle East, and other regions, will also deliver presentations.

The IABS Forum-2024 will explore various areas of tumor immunotherapy, including Immune Checkpoint Inhibitors, CAR-T Therapy, Cancer Vaccines, and more, offering a comprehensive overview of the latest advancements and challenges in the field.

Participants will have the opportunity to share and learn the most recent research results in tumor immunotherapy, exchange innovative ideas, and strengthen cooperation between the academic and industrial sectors to accelerate the development of new immunotherapies. This content will be particularly valuable for the drug development industry, including Biological, Chemical, and Biochemical Drugs, such as CAR-T therapies, especially with FDA officials presenting on drug development regulations.

<https://ia-bs.org/etn/iabs-forum/> (Please click for registration)



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IABS FORUM-2024

Cancer Immunotherapy: Breakthroughs and Challenges

SCIENTIFIC ORGANIZERS



Dr. Ethan M. Shevach

*National Institutes of Health (NIH),
USA*



Dr. Erxi Wu

*Baylor College of Medicine,
USA*



Dr. Genhong Cheng

*University of California,
Los Angeles, USA*

SPEAKERS



Dr. Lieping Chen

*Yale University,
USA*



Dr. Prasad Adusumilli

*Memorial Sloan Kettering
Cancer Center, USA*



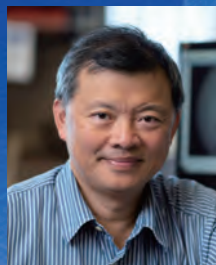
Dr. Saul Priceman

*USC Norris Comprehensive
Cancer Center, USA*



Dr. Chaohong Fan

*U.S. Food and Drug
Administration, USA*



Dr. Abraham Lee

*University of California,
Irvine, USA*



Dr. Mei X. Wu

*Harvard University,
USA*

SPEAKERS



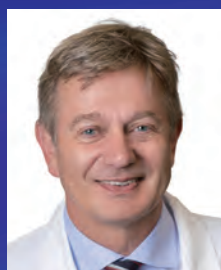
Dr. Rongfu Wang
*University of Southern
California, USA*



Dr. Alexander Marson
*University of California,
San Francisco, USA*



Dr. Haitao Yang
*Shenzhen RNAvac.
Co.Ltd. China*



Dr. Marcel van den Brink
*City of Hope National
Medical Center, USA*



Dr. Xinghua Gao
*China Med University,
China*



Dr. Joseph M. Tuscano
*University of California, Davis
Cancer Center, USA*



Dr. Peixuan Guo
*Ohio State University,
USA*



Dr. Yaron Ilan
*Hebrew University,
Israel*



Dr. Rao Prabhala
*Harvard Medical School,
USA*



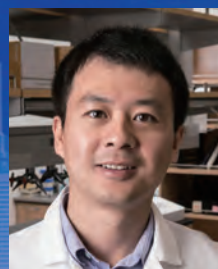
Dr. Eyad Elkord
*Xi'an Jiaotong-Liverpool University,
China & University of Salford, UK*



Dr. Jiayu Liao
*University of California,
Riverside, USA*



Dr. Hua Yu
*City of Hope National
Medical Center, USA*



Dr. Mingye Feng
*City of Hope National
Medical Center, USA*



Dr. Fang Wu
*Central South University,
China*



Dr. Christine Brown
*City of Hope National
Medical Center, USA*



IABS FORUM-2024

Cancer Immunotherapy: Breakthroughs and Challenges

AGENDA

DAY 1 Thursday, December 5, 2024

8:00 am - 8:30 am	Registration
8:30 am - 8:35 am	IABS Welcome Speech Dr. Yongtian Li (Chair of IABS Board)
8:35 am - 8:40 am	Opening remarks Dr. Robin Farias-Eisner (President of Western University of Health Sciences)

Session 1: Cancer Immunotherapy: Overview

Session Chair: Prof. Lieping Chen (Yale University, USA)

8:40 am - 9:10 am	Prof. Lieping Chen (Yale University, USA) <i>Topic: What have we learnt from anti-PD-1/PD-L1 cancer immunotherapy?</i>
9:10 am - 9:40 am	Prof. Prasad Adusumilli (Memorial Sloan Kettering Cancer Center, USA) <i>Topic: CAR T-cell therapy for solid tumors</i>
9:40 am - 10:10 am	Prof. Saul Priceman (USC Norris Comprehensive Cancer Center, USA) <i>Topic: Advancing Cellular Immunotherapies for Solid Tumors</i>

10:10 am - 10:30 am	Coffee Break
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Session 1 Continued

10:30 am - 11:00 am	Prof. Chaohong Fan (U.S. Food and Drug Administration, USA) <i>Topic: US Key FDA Regulatory Insights for Drug Development</i>
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Session 2: Cutting-Edge Technologies in Immunotherapy

Session Chair: Prof. Abraham Lee (University of California, Irvine, USA)

11:00 am - 11:30 am	Prof. Abraham Lee (University of California, Irvine, USA) <i>Topic: Microfluidic Cell Engineering for Immunotherapies</i>
11:30 am - 12:00 pm	Prof. Mei X. Wu (Harvard University, USA) <i>Topic: Metabolic Rewiring of the Tumor Microenvironment to Potentiate Immunotherapy by Low-Level Laser</i>

12:00 pm - 1:30 pm	Lunch Break
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Session 2 Continued

1:30 pm - 2:00 pm	Prof. Rongfu Wang (University of Southern California, USA) <i>Topic: Novel CD4 TCR-engineered T cell immunotherapy in multiple solid cancers</i>
2:00 pm - 2:30 pm	Prof. Alexander Marson (University of California, San Francisco, USA) <i>Topic: Decoding and reprogramming T cell circuits with CRISPR</i>
2:30 pm - 3:00 pm	Prof. Haitao Yang (Shenzhen RNAvac Co. Ltd., China) <i>Topic: Development of mRNA Cancer Vaccine for Prostate Cancer</i>

3:00 pm - 3:20 pm	Coffee Break
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Session 3: Innovative Trends in Immunotherapy

Session Chair: Prof. Marcel van den Brink (City of Hope Comprehensive Cancer Center, USA)

3:20 pm - 3:50 pm	Prof. Marcel van den Brink (City of Hope Comprehensive Cancer Center, USA) <i>Topic: The Role of the Intestinal Microbiome in Cancer Immunotherapy</i>
3:50 pm - 4:20 pm	Prof. Xinghua Gao (China Medical University, China) <i>Topic: Immuno-adjuvant Role of Mild Local Hyperthermia Against Cutaneous and Cervical HPV Infections</i>
4:20 pm - 4:50 pm	Prof. Joseph Michael Tuscano (University of California, Davis Cancer Center, USA) <i>Topic: Bispecific and CAR T-based Approaches for Cancer Immunotherapy</i>

4:50 pm - 5:50 pm	Poster Presentations and Networking
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DAY 2 Friday, December 6, 2024

8:30 am - 8:50 am Sponsors Talk

Session 4: Cancer Biology, Vaccine, and Immunotherapy

Session Chair: Prof. Genhong Cheng (University of California, Los Angeles, USA)

8:50 am - 9:20 am	Prof. Genhong Cheng (University of California, Los Angeles, USA) <i>Topic: Approaches to Enhance Anti-Tumor Immunity</i>
9:20 am - 9:50 am	Prof. Peixuan Guo (Ohio State University, USA) <i>Topic: RNA Nanotechnology in Cancer mRNA Vaccination and Immune Therapy</i>
9:50 am - 10:20 am	Prof. Erxi Wu (Baylor College of Medicine, USA) <i>Topic: Neuroblastoma: from Biology to Immunotherapy</i>
10:20 am - 10:50 am	Prof. Yaron Ilan (Hebrew University, Israel) <i>Topic: Using the Constrained-Disorder-Principle-Based Second-Generation Artificial Intelligence System for Improving the Diagnosis of Immune Disorders and the Effectiveness of Immunotherapies</i>

10:50 am - 11:10 am Coffee Break

Session 5: Integrative Strategies in Cancer Immunotherapy

Session Chair: Prof. Rao Prabhala (Harvard Medical School, USA)

11:10 am - 11:40 am	Prof. Rao Prabhala (Harvard Medical School, USA) <i>Topic: How to Reduce Relapses Following CAR-T Therapy</i>
11:40 am - 12:10 pm	Prof. Ethan M. Shevach (National Institutes of Health, USA) <i>Topic: Breaking Innate Immune System Tolerance: A Novel Approach to Cancer Immunotherapy</i>

12:10 pm - 2:10 pm Lunch Break

Session 5 Continued

2:10 pm - 2:40 pm	Prof. Eyad Elkord (Xi'an Jiaotong-Liverpool University, China & University of Salford, UK) <i>Topic: T Regulatory Cells and Immune Checkpoints in Cancer: Findings, Challenges, and Opportunities</i>
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2:40 pm - 3:10 pm	Prof. Jiayu Liao (University of California, Riverside, USA) <i>Topic: Targeting Intracellular Threshold of Signaling to Enhance Immune Responses for Cancer Treatment</i>
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3:10 pm - 3:30 pm	Coffee Break
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Session 6: Immunotherapy Advances

Session Chair: Prof. Christine Brown (City of Hope Comprehensive Cancer Center, USA)

3:30 pm - 4:00 pm	Prof. Hua Yu (City of Hope Comprehensive Cancer Center, USA) <i>Topic: Novel Delivery Platform to Block Intracellular Targets for Improving Immunotherapies</i>
4:00 pm - 4:30 pm	Prof. Mingye Feng (City of Hope Comprehensive Cancer Center, USA) <i>Topic: Macrophage-based cancer immunotherapy</i>
4:30 pm - 5:00 pm	Prof. Fang Wu (Central South University, China) <i>Topic: Psychological Stress and Cancer Immunotherapy</i>
5:00 pm - 5:30 pm	Prof. Christine Brown (City of Hope Comprehensive Cancer Center, USA) <i>Topic: CAR T Cell Therapy for Glioblastoma: Clinical Insights for Response and Resistance</i>

5:30 pm - 5:35 pm	Closing Talk Andrea Giuffrida (Vice President of Western University of Health Sciences)
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Scan the QR Code or click the link for registration



<https://ia-bs.org/etn/iabs-forum/>



VISIT ONE OF THE NATION'S LEADING CANCER CENTERS

Date and Time: December 4th at 1:30 PM

Location: City of Hope Comprehensive Cancer Center
(1500 East Duarte Road, Duarte, CA 91010, United States)

Purpose:

Study City of Hope's approach to cancer treatment and research, and Explore potential opportunities for future communication and collaboration.

Agenda:

- **Introduction to City of Hope:**

Gain insights into the background and history of one of the top-ranking cancer centers in the nation.

- **Expertise in Cancer Treatment and Research:**

Learn about City of Hope's cutting-edge expertise in cancer treatment, research advancements, and innovations.

- **Center for International Medicine:**

Discover the unique role of the Center for International Medicine and how it facilitates global healthcare partnerships.

- **Collaborations and Partnerships:**

Discuss existing and potential collaborations with international partners to enhance cancer care and research globally.

Welcome to City of Hope Comprehensive Cancer Center, one of the nation's top-ranking cancer centers, where you can connect, collaborate, and learn from a leading institution in cancer treatment and research in the United States.

To join this remarkable program, you must make a special appointment by contacting the following:

Email: secretary@ia-bs.org

Registration

Select “**PI / Scientist / Clinician**”, “**Postdoc / Student**”, or “**Online**”. Adjust the ticket quantity with “ + ” or “ - ”, then click “**BUY TICKET**”. Enter your name, “**Confirm**”, and apply a coupon if available. Complete the form and click “**Place Order**” to finish.

IABS Forum–2024 Registration Fees

	Early Bird (before/on 8/31/2024)	Regular (after/on 9/1/2024)
PI / Scientist / Clinician	\$392	\$490
Postdoc / Student	\$184	\$230
Online	\$160	\$200

[Scan the QR Code or click the link for registration](#)



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Hotel Information

Delta Hotels Ontario Airport

2200 E Holt Blvd, Ontario, CA 91761, USA

Tel. +(909) 975-5000

Airports

Ontario International Airport (ONT)

2500 E. Airport Drive

Ontario, CA 91761, USA

Website: <https://www.flyontario.com/>

Los Angeles International Airport (LAX)

1 World Way

Los Angeles, CA 90045, USA

Website: <https://www.flylax.com/>

Silicon Valley

Cleanroom Design Institute

DESIGN CONSTRUCTION VALIDATION

<https://www.atclean.com>

Cleanrooms Design & Solution
Cleanroom Construction

Cleanroom Equipment
Cleanroom Certification

▼ About Us

Silicon Valley Cleanroom Design Institute is an expert in the design, manufacture and installation of cleanrooms for a variety of industries including pharmaceutical, biological laboratory, electronics and semiconductor. With our office in Southern California and our manufacturing base in China, we combine the best of both worlds - local accessibility and global excellence. Contact us today and we can help you design your custom cleanroom within 24 hours.

▼ PRODUCTS

Biological Safety Cabinet



Laboratory table



Biological transfer window



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Empowering Precise and Efficient Pathology Diagnostics

At Precision Diagnostics INC, we are dedicated to revolutionizing the medical diagnostics industry through state-of-the-art technology and unparalleled expertise. Our mission is to provide healthcare professionals with precise, reliable, and timely diagnostic information to enhance patient outcomes. Specializing in advanced molecular diagnostics, pathology testing, and personalized medicine, we leverage cutting-edge technologies to offer a comprehensive range of diagnostic services. Our team of experts is committed to innovation, ensuring that our solutions meet the highest standards of accuracy and efficiency.

Our Solutions

- Fully Automatic Cellblock System
- Echo-friendly Stainer and Coverslipper System
- AI and Digital Cytological Pathology System



Precision Diagnostics INC.

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 Web: www.pdiax.com
 Address: 7056 Archibald Ave 102-388, Eastvale, CA 92880



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01 Smart Cell Block System (BK-TYPE01) Cell Block Preparation Kit



Product Features

- **Advanced micro cell enrichment technology:** It only takes 1.0-1.5 minutes to enrich the cells into a cell mass, which is tightly aggregated and does not spread out.
- **Improve efficiency:** Easy to operate, 12 servings can be completed in half an hour, which can replace manual workload improve experimental efficiency.
- **Good compatibility:** Can use various specifications of centrifuge tubes (1.5ml-50ml); Can handle most types of cytology samples.
- **Integration:** The same instrument completes sample treatment, cell enrichment, and reagent thawing.
- **Safety and environmental protection:** To protect the health of operators, the reagents used do not contain irritating ingredients. The equipment has the function of misoperation protection, and can display equipment failure information, which is convenient for monitoring and maintenance.



02 Full-Auto Slide Stainer & Coverslipper GSM230



Product Features

- **Flexible and Efficient:** One round can be performed continuously, with newsamples added at any time, you can complete the process within approximately 40 min.
- **Space saving:** Small in size and adaptable to various sites and environments.
- **Staining and coverslipping:** By integrating staining and coverslipping into one device, you can save time and effort.
- **Environmental protection safety:** It can provide a safer working environment for operators without generating harmful gases or waste liquids. Only when used with Bio-environmental dewaxing solution of Gene Science.
- **Non-volatile memory:** It allows users to choose whether to continue with their interrupted staining process or start over after power is restored.
- **Programmability:** 200 editable programs.

03 Greener Dewaxing Agent



04 Fully Automatic special staining System AS-05



Product Features

- **Dry Staining Technology:** Prevents cross-contamination between samples and adhesive carrier between reagents, sending moisture into the cleaning agent that could impair transparency.
- **Inverted Slide Staining and Centrifugal Liquid Removal Technology:** Simultaneously prevents issues such as dry slides, slide detachment, and spilling of staining liquid, ensuring precise control over staining time for accurate and consistent staining results.
- **Precise Temperature control and Micro Liquid Addition Technology:** Accurately controls the amount of liquid added, enhancing staining efficiency and results.
- **User-friendly Operation:** Customizable staining parameters and one-button start eliminate the need for manual supervision.
- **Unique Staining Chamber Design:** Facilitates easy placement and removal of slides, while preventing slide ejection and breakage during centrifugal liquid removal.
- **Real-time status monitoring:** Real-time status monitoring of instrument and slide status, Master the whole process of instrument operation.
- **Liquid film thinning technology:** No additional consumables are required to evenly cover the slide with reagents, ensuring staining quality.
- **High flux, high efficiency:** Cycle loading the sample, 3 rounds per day, 40 pieces per round; Reagent and slide scan code identification, Avoid human error.
- **Reagent shortage warning:** Guarantee the smooth progress of each staining.
- **Remote maintenance:** Support OTA upgrade, get firmware update in time.

05 Full-Auto IHC Stainer P17 plus



Product Features

- **Simulate manual operation, simple and reliable:** Simple structure design, good reliability. Save manpower, ensure staining stability. Standardize and automate immunohistochemistry.
- **Real-time status monitoring:** Real-time status monitoring of instrument and slide status; Master the whole process of instrument operation.
- **Liquid film thinning technology:** No additional consumables are required to evenly cover the slide with reagents, ensuring staining quality.
- **High flux, high efficiency:** Cycle loading the sample, 3 rounds per day, 40 pieces per round; Reagent and slide scan code identification, Avoid human error.
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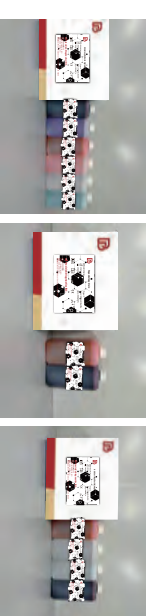
06 Paraffin Dispensers EMB-02



Product Features

- **Split design with free combination of embedding machine and cold table.**
- **Automatic ON/OFF programming.**
- **High precision, multi-channel, temperature controlled heat elements.**
- **Redundant protection mechanism prevents device from overheating.**
- **Multi-partition operation with paraffin-modified and fast cold zone.**
- **Automatic parameter storage and recovery.**
- **Dehydrating baskets split design.**
- **Tweezers-storing table, unique diversion trench from paraffin overflow.**

07 Pathological consumables



Hematoxylin-Eosin Staining Solution

Papapanicolaou Stain

Add-fast Bacillus Staining Kit