



**TURKISH
SOCIETY OF
IMMUNOLOGY**



ISAC
INTERNATIONAL SOCIETY FOR
ADVANCEMENT OF CYTOMETRY



IZMIR BIOMEDICINE
AND GENOME CENTER

7th TURKISH-US CYTOMETRY WORKSHOP

Supported by ISAC Educational Task Force

September 27-30, 2022

**Izmir Biomedicine and Genome Center
IZMIR / TURKIYE**



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The 7th Turkish-US Cytometry Workshop was organized in Izmir Biomedicine and Genome Center on September 27-30, 2022. The meeting was co-organized by the Turkish Society of Immunology and the International Society for Advancement of Cytometry (ISAC) Live Education Delivery Sub-committee. Eighty-two female, fifty-one male, in total, 133 participants attended the workshop from all around Turkey.



The workshop started with welcome speeches by the host and ISAC delegates. The welcome addresses of **Ihsan Gursel** (Director of Izmir Biomedicine and Genome Center), **Barbaros Oral** (president of the Turkish Society of Immunology), and **Zosia Maciorowski** (chair of ISAC Live Education Delivery Sub-committee) were followed by the online attendance of **Awtar Krishan** (co-chair of ISAC Live Education Delivery Sub-committee) who gave a very supportive opening speech. The opening ceremony ended with a welcome speech and overview of the programme by **Gunnur Deniz**, workshop chair and member of the ISAC Live Education Delivery Sub-committee.

ORGANIZING COMMITTEE

Esin CETIN AKTAS
Klara DALVA
Semra DEMIR
Gunnur DENIZ
Ihsan GURSEL
Zeynep KARAKAN
Awtar KRISHAN
Zosia MACIOROWSKI
Ali SENGUL
Tolga SUTLU

Organizing Secretariat



D Event Tourism Organization
Kolektif House, Barbaros Mh.
Begonya Sk. Nidakule Batı
No:1/2 34746
Ataşehir – İstanbul
E-mail: istanbul1@devent.com.tr
Web: www.devent.com.tr
Phone: +90 216 573 18 36





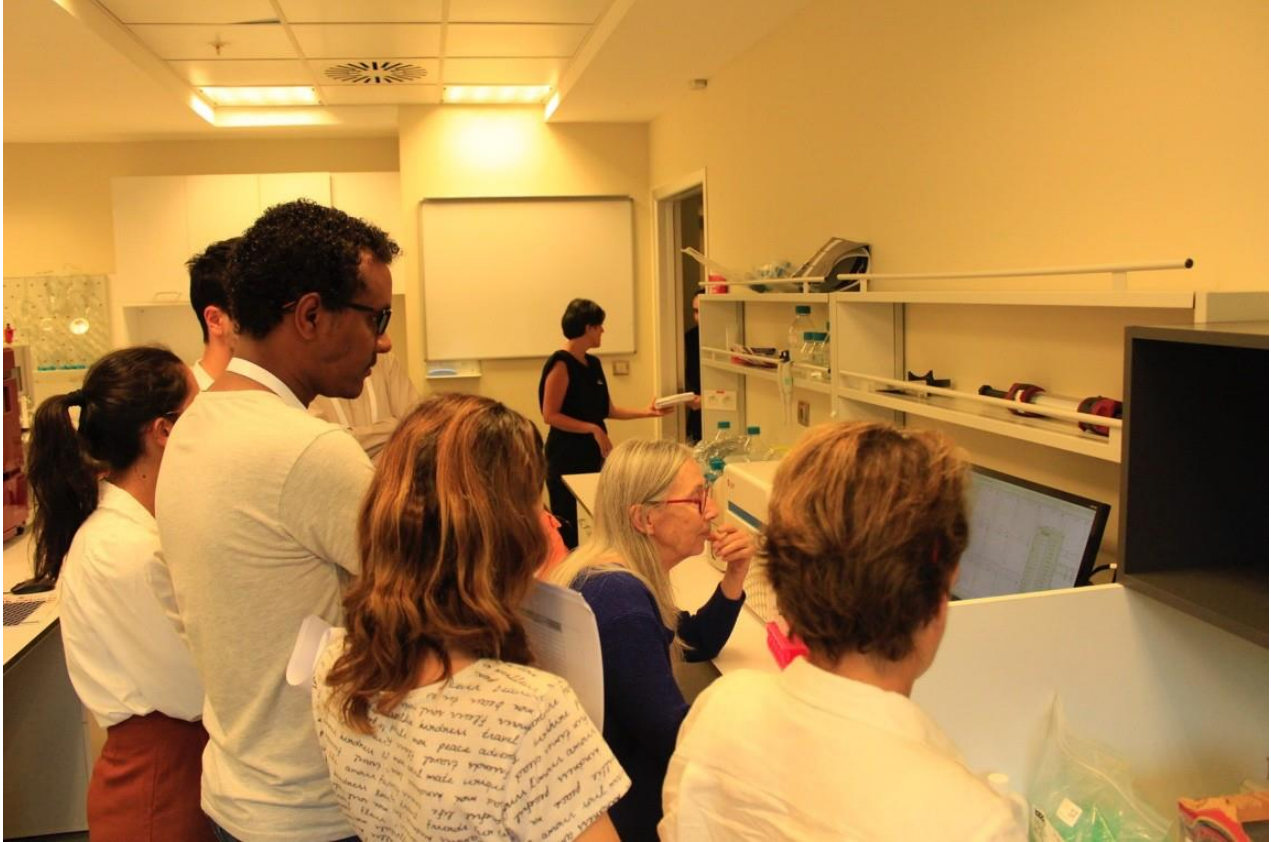
On the first day of the workshop, topics such as the basics of flow cytometry, multicolor panel design, quality control and standardization, and analysis of flow cytometry data were discussed in theoretical morning sessions followed by afternoon lab sessions. The topics of the second day covered primary and secondary immune deficiencies, flow cytometry assays in primary immune deficiencies, disorders of phagocytic functions and cytotoxic activity tests. On the third day, other functional assays such as apoptosis, cell cycle analysis, intracellular cytokine staining, cell proliferation and applications of flow cytometry for solid organ transplantation and cross-match were discussed.

On the final day, basic principles of spectral flow cytometry, the role of flow cytometry in COVID, and exosome detection via flow cytometry were discussed and the closing lecture on “the future of flow cytometry” was delivered by Paul Smith, Professor Emeritus from the University of Cardiff. In total eight theoretical sessions and nine lab sessions were organized within the context of the workshop.





The lectures and excellent lab sessions were conducted by experts from around the world including, **William G. Telford** (Center for Cancer Research, National Cancer Institute, Bethesda-USA), **Marianna Tzanoudaki** (Department of Immunology & Histocompatibility, Specific Reference Centre for Primary Immunodeficiencies-Pediatric Immunology, “Aghia Sophia” Children’s Hospital-Athens-Greece), **Mirjam van der Burg** (Leiden University Medical Center, Department of Pediatrics, Laboratory for Pediatric Immunology, Leiden, The Netherlands), **Paul Edward Hutchinson** (Head of Flow Cytometry Laboratory, Immunology Program, Life Sciences Institute, National University of Singapore), **Paul Smith** (Professor Emeritus, Cardiff University, Cancer Biology, UK, Chief Scientific Officer, Oncotherics, UK), **Raif Yucel** (Exeter Centre for Cytomics, Bioscience Department, University of Exeter, UK), **Raquel Cabana** (Baylor University Medical Center-Department of Transplant Immunology, Dallas-Texas USA), **Sara De Biasi** (University of Modena and Reggio Emilia School of Medicine-Italy), and **Zosia Maciorowski** (Chair of ISAC Live Education Delivery Sub-committee, France).



Several prominent flow cytometry experts from Turkey, including **Ali Sengul** (Medicana International Istanbul Hospital - Department of Immunology, Tissue Typing Laboratory), **Tolga Sütlü and Elif Celik** (Bogazici University-Department of Molecular Biology and Genetics, Istanbul), **Elif Karakoc Aydiner** (Marmara University Medical Faculty, Department of Pediatrics, Istanbul), **Gunnur Deniz, Esin Aktas Cetin, Umut Can Kucuksezer and Fatma Betul Oktelik** (Istanbul University, Aziz Sancar Institute of Experimental Medicine, Department of Immunology, Istanbul), **Ihsan Gursel, Mayda Gursel, Duygu Sag, Gerhard Wingender, Zeynep Karakan Karakas , Ismail Cem Yilmaz and Muzaffer Yildirim** (Izmir Biomedicine and Genome Center, Izmir), **Klara Dalva** (Ankara University Medical School, Department of Hematology, Hematology & HLA Typing Laboratory, Ankara), and **Ugur Musabak** (Baskent University, Faculty of Medicine, Division of Immunology and Allergy, Ankara). Two satellite symposia were given by Beckman Coulter and Beckton Dickinson. With the participation high-impact scientists from all over the world, we had a very successful meeting.

The workshop was sponsored by Beckman Coulter, Beckton Dickinson, Medsantek, Takeda İlaç, AGBL/Cytek, Novocyte/Thorvacs, ATQ & Labgen, Gen-Era, Ida Yasam Teknolojileri, Gen Plus and Deva Ilac.



Feedback via evaluation forms at the end of the workshop showed a very high satisfaction with the workshop as a whole as well as with the individual speakers and modules. Criticisms and suggestions were that the practical sessions should have been longer than the allotted 1-1 and a half hours and with fewer students/session, more on data analysis, autoimmune diseases and dendritic cells requested.

We would like to thank everyone who participated and contributed to the “**7th Turkish-US Cytometry Workshop**”.