



**Işıl Berat Barlan Akademisi**  
**DOĞUŞTAN BAĞIŞIKLIK KUSURLARI**  
**ULUSLARARASI USTALIK OKULU**  
Interdisipliner Tanısal Yaklaşım

**The Işıl Berat Barlan Academia**  
**INTERNATIONAL MASTERCLASS ON**  
**INBORN ERRORS OF IMMUNITY**  
Interdisciplinary Diagnostic Approach

**25-27 October/Ekim 2024**  
İzmir Biyotıp ve Genom Merkezi / İzmir, Türkiye

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## PURPOSE of the PROGRAM

Under the auspices of the İşil Berat Barlan Academy, an international masterclass will be held on interdisciplinary diagnostic approaches in primary immunodeficiencies due to inborn errors of immunity. The event aims to provide interactive education opportunities. Participants will include Genetics and Immunology PhD/Master's Students, Immunology and Allergy Specialists, Immunology and Allergy Subspecialty Residents, Postdoctoral Researchers, and academics in the field. The goal is to update knowledge on the subject, foster face-to-face communication and networking, and establish and strengthen collaborations. To ensure the quality of the education, presentation templates, learning objectives, duration, program, and templates for use in cases will be shared with speakers.

## PROGRAM MODERATORS

Elif Karakoç Aydın, Dilşad Mungan, Ahmet Oğuzhan Özen, İhsan Gürsel

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## Committees

### ORGANIZING COMMITTEE

*(Alphabetical Order)*

Ayça Kıyıkım  
Bilgi Güngör  
Güher Saruhan Direskeneli  
Günnur Deniz  
Mayda Gürsel  
Nima Rezaei  
Özden Hatırnaz  
Safa Barış  
Sevgi Bilgiç Eltan  
Sevgi Keleş  
Uğur Özbek

### SCIENTIFIC COMMITTEE

*(Alphabetical Order)*

Ahmet Eken  
Ahmet Oğuzhan Özen  
Ahmet Okay Çağlayan  
Ayça Kıyıkım  
Baran Erman  
Bilgi Güngör  
Caner Aytekin  
Çiğdem Aydoğmuş  
Dilşad Mungan  
Elif Karakoç Aydınır  
Esin Aktaş  
Fatih Çelmeli  
Fatih Çölkesen  
Ferah Genel  
Güher Saruhan Direskeneli  
Günnur Deniz  
Güzide Aksu  
Hasibe Artaç  
İhsan Gürsel  
İlgi Erten  
İlhan Tezcan  
Müge Sayitoğlu  
Nalan Yıldız  
Neslihan Edeer Karaca  
Nesrin Gülez  
Nima Rezaei  
Ömür Ardeniz  
Özkan Özdemir  
Özlem Akgün Doğan  
Safa Barış  
Sara Şebnem Kılıç Gültekin  
Sevgi Bilgiç Eltan  
Sevgi Keleş  
Şükrü Güner  
Tolga Sütlü  
Tuğba Arıkoğlu  
Tunç Akkoç  
Yıldız Camcıoğlu

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## Program

### 25 October 2024

**12:30-13:00 REGISTRATION**

**13:00-13:30 OPENING SPEECHES**

*Dilşad Mungan, İhsan Gürsel, Ahmet Özen*

**13:30-14:30 SESSION 1**

**Flow Cytometer Introduction Session**

**Chairs: Günnur Deniz, Sevgi Keleş**

13:30-14:10 Basic Principles of Flow Cytometry and PNH Applications

*Günnur Deniz*

14:10-14:30 Lymphocyte Subgroup Analysis: Commonly Used Panels

*Ahmet Eken*

**14:30- 16:00 SESSION 2**

**Commonly Used Tests with Real-life Data**

**Chairs: Güher Saruhan Direskeneli, Güzide Aksu**

14:30-15:00 Quantification of Special Cell Groups, Protein Profiling Studies, and Barcoding

*Mayda Gürsel*

15:00-15:30 Functional Analyses

*Tolga Sütü*

15:30-16:00 Quantification of Intracellular and Secreted Cytokines

*Esin Aktaş*

**16:00-16:30 COFFEE BREAK**



**16:30-17:30 SESSION 3**

**Innovative Approaches and Advanced Analysis Methods in Flow Cytometry**

**Chair: Tunç Akkoç**

16:30-17:00 Programs Used for Flow Cytometer Data Analysis: FlowJo and  
Cytobank Platforms Speaker

*TBD, BD*

17:00-17:30 Dimensionality Reduction and Clustering Analyses: Their Applications in  
Clinical and Research Settings

*TBD, Coulter*

**18:30-19:30 DINNER (It will be served at IBG.)**



**20:00-21:00 PRACTICAL SESSION**

Practical Session 1: Staining and Reading of Samples

*Ayhan Parlar*

Practical Session 2: Data Analysis, Gating, Report Generation

*Gülhis Akar*

*In this session, company representatives will provide a brief presentation about applications while demonstrating BD and Beckman-Coulter devices. Interested participants will be able to practise during the course.*

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### 26 October 2024

#### 09:00-10:30 SESSION 4

##### Genetic Literacy

**Chairs: Uğur Özbek, Elif Karakoç Aydın**

09:00-09:20	Genetic Terminology and Inheritance Models
09:20-09:40	Genetic Diagnostic Methods
09:40-10:00	Workflow and variant calling in Next Generation Sequencing analysis
10:00-10:20	Basics of genetic reporting, Genetic Report Reading and Interpretation
10:20-10:30	Discussion

**Müge Sayitoğlu**  
**Özden Hatırnaz**  
**Özkan Özdemir**  
**Özlem Akgün Doğan**

#### 10:30-10:45 COFFEE BREAK



#### 10:45-12:30 SESSION 5

##### Comprehensive Approach to Molecular Diagnosis with Real PID Case Examples

**Chairs: Ahmet Okay Çağlayan, Özdemir, Baran Erman**

10:45-11:05	Variant Analysis- Theoretical explanation
11:05-12:05	Variant Analysis- Applied (Group Work- divided into 2/3 classes) (SCID, PAD, PID+Malignancy with support from doctoral students for analysis)
12:05-12:30	Presentation of Case Solutions

**Özkan Özdemir**

#### 12:30-13:30 LUNCH



#### 13:30-14:30 MEMORIAL LECTURE IN HONOR OF İŞİL BERAT BARLAN

**Chairs: İlgı Erten, İlhan Tezcan**

13:30-14:10	Challenges and Horizons in Molecular Diagnosis of IEI
14:10-14:30	Discussion

**Nima Rezaei**



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### 26 October 2024

#### 14:30- 15:30 SESSION 6

##### Diagnostic Approaches with Case Studies

**Chairs: Yıldız Camcıoğlu, Safa Barış**

14:30-14:45	With the latest updates IUIS	<b>Hasibe Artaç</b>
14:45-14:55	Case 1: Diagnostic approach in Severe Combined Immunodeficiency (SCID)	<b>Fatih Çelmeli</b>
14:55-15:05	Case 2: Diagnostic approach in Syndromic CID and (HIES)	<b>Ayça Kıyıkım</b>
15:05-15:15	Case 3: Primary Immunodysregulation Disorders and Malinite	<b>Ömür Ardeniz</b>
15:15-15:25	Case 4: Mycobacterial Susceptibility and Immune Deficiency	<b>Caner Aytekin</b>

#### 15:30-16:00 COFFEE BREAK



#### 16:00-17:00 PRACTICAL SESSION

Practical Session 1: Staining and Reading Of Samples

Practical Session 2: Data Analysis, Gating, Report Generation

**Ayhan Parlar**

**Gülhis Akar**

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#### 19:00-22:00 DINNER



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### 27 October 2024

#### 09:00-10:30 SESSION 7

##### Diagnostic Approaches with Case Studies

*Chairs: Sara Şebnem Kılıç Gültekin, Ferah Genel*

09:00-09:10	Case 5: Chronic EBV and Congenital Immunodeficiencies	<i>Çiğdem Aydoğmuş</i>
09:10-09:20	Case 6: Autoinflammatory Diseases	<i>Nalan Yakıcı</i>
09:20-09:30	Case 7: Common Variable Immunodeficiency	<i>Fatih Çölkesen</i>
09:30-09:40	Case 8: Diagnostic Approach in Immunodeficiency Presenting with Allergic Symptoms	<i>Sevgi Bilgiç Eltan</i>
09:40-09:50	Case 9: Primary Immunodysregulation Disorders and Autoimmunity	<i>Nesrin Gülez</i>
09:50-10:00	Case 10: Primary Immunodysregulation Disorders and Autoimmunity	<i>Tuğba Arıkoğlu</i>
10:00-10:10	Case 11: Practical Aspects of IgG Replacement Therapy	<i>Neslihan Edeer Karaca</i>

#### 10:10-10:30 COFFEE BREAK

#### 10:30-12:00 SESSION 8

##### Closing Session

Session in Memory of Vicki Modell, Memorial Session

*Chairs: Ahmet Özen, Şükrü Güner*

The Genetic Landscape of IEI in MENAT Region

*Ridha Barbouche*

#### 12:30-13:30 LUNCH



School of Medicine



RareBoost



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