



**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

Işıl Berat Barlan Akademisi  
DOĞUŞTAN BAĞIŞIKLIK KUSURLARI ULUSLARARASI USTALIK OKULU  
İnterdisipliner 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

## PURPOSE of the PROGRAM

Under the umbrella of the Işıl Berat Barlan Academia, an international masterclass will be held on interdisciplinary diagnostic approaches in inborn errors of immunity. This masterclass aims to provide interactive education for participants, including 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, facilitate face-to-face communication and networking, and establish and strengthen collaborations. To ensure the standardization of education, presentation templates, learning objectives, duration, program, templates for case studies, question-answer sessions, evaluation practices, and usage details (KAHOOT) will be shared with speakers.

## PROGRAM MODERATORS

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

**İşıl Berat Barlan Akademisi**  
**DOĞUŞTAN BAĞIŞIKLIK KUSURLARI ULUSLARARASI USTALIK OKULU**  
İnterdisipliner Tanısal Yaklaşım

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

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

## 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  
Yıldız Camcıoğlu

### SCIENTIFIC COMMITTEE

*(Alphabetical Order)*

Ahmet Eken  
Ahmet Oğuzhan Özen  
Ayça Kıyıkım  
Bilgi Güngör  
Çiğdem Aydoğmuş  
Dilşad Mungan  
Elif Karakoç Aydınır  
Esin Aktaş  
Ferah Genel  
Güher Saruhan Direskeneli  
Günnur Deniz  
Güzide Aksu  
Hasibe Artaç  
İhsan Gürsel  
İlgi Erten  
Mutlu Yüksek  
Müge Sayitoğlu  
Neslihan Edeer Karaca  
Nesrin Gülez  
Ömür Ardeniz  
Öner Özdemir  
Özkan Özdemir  
Özlem Akgün Doğan  
Safa Barış  
Sara Şebnem Kılıç Gültekin  
Sevgi Bilgiç Eltan  
Sevgi Keleş  
Şükrü Nail Güner  
Tolga Sütlü  
Uğur Muşabak  
Yıldız Camcıoğlu  
Zeynep Karakaş

İşıl Berat Barlan Akademisi  
DOĞUŞTAN BAĞIŞIKLIK KUSURLARI ULUSLARARASI USTALIK OKULU  
İnterdisipliner Tanısal Yaklaşım

The İşıl 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

## 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 introductory session**

**Moderators: Günnur Deniz, TBD**

13:30-14:10 Basic principles of flow cytometry and PID applications  
14:10-14:30 Discussion

*Günnur Deniz*

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

**Commonly used tests with real-life data**

**Moderators: Güher Saruhan Direskeneli, TBD**

14:30-14:50 Lymphocyte subset analysis: commonly used panels  
14:50-15:10 Quantification of specific cell populations, protein profiling studies,  
and barcoding  
15:10-15:30 Functional analyses  
15:30-15:50 Cytokine determination with flow cytometer: quantification of  
intracellular and secreted cytokines  
15:50-16:00 Discussion

*Ahmet Eken  
Mayda Gürsel*

*Tolga Sütlü  
Esin Aktaş*

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



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

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

**Moderators: TBD**

16:30-16:50 Programs used in flow cytometry data analysis: Flow Jo and  
Cytobank Platforms (BECTON DICKINSON)  
16:50-17:10 Dimensionality reduction and clustering analyses: their applications  
in clinical and research (BECKMAN COULTER)  
17:10-17:30 Discussion

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

Practical Session 1: Staining and reading of samples

Practical Session 2: Data analysis, gating, report generation

*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.*

İşıl Berat Barlan Akademisi  
DOĞUŞTAN BAĞIŞIKLIK KUSURLARI ULUSLARARASI USTALIK OKULU  
İnterdisipliner Tanısal Yaklaşım

The İşıl 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

## Program

### 26 October 2024

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

##### Genetic literacy

**Moderators: Uğur Özbek, TBD**

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

**Moderators: TBD**

10:45-11:05	Variant Analysis- Theoretical explanation
11:05-12:00	Variant Analysis- Applied (Group Work- divided into 2/3 classes) (SCID, PAY, AI+ Malinite, with support from doctoral students for analysis)
12:00-12:20	Presentation of Case Solutions
12:20-12:30	Discussion

Özkan Özdemir

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



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

**Moderators: İlgi Erten, TBD**

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

Nima Rezaei

Işıl Berat Barlan Akademisi  
DOĞUŞTAN BAĞIŞIKLIK KUSURLARI ULUSLARARASI USTALIK OKULU  
İnterdisipliner 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

## Program

### 26 October 2024

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

##### Diagnostic Approaches with Case Studies

*Moderators: Yıldız Camcıođlu, TBD*

14:30-14:45	With the latest updates IUIS	TBD
14:45-14:55	Case 1: Diagnostic approach in Severe Combined Immunodeficiency (SCID)	TBD
14:55-15:05	Case 2: Diagnostic approach in Hyper IgE Syndrome (HIES)	TBD
15:05-15:15	Case 3: Diagnostic approach in Combined Immunodeficiency with Allergic Findings (STAT-6, JAK)	TBD
15:15-15:25	Case 4: Primary Immunodysregulation Disorders and Malinite	TBD

#### 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

*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.*

**İşıl Berat Barlan Akademisi**  
**DOĞUŞTAN BAĞIŞIKLIK KUSURLARI ULUSLARARASI USTALIK OKULU**  
İnterdisipliner Tanısal Yaklaşım

**The İşıl 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

## *Program*

### **27 October 2024**

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

##### **Diagnostic Approaches with Case Studies**

**Moderators: Sara Şebnem Kılıç Gültekin, TBD**

09:00-09:10	Case 5: Inborn Errors of Immunity with Chronic Viral Infections	TBD
09:10-09:20	Case 6: Autoinflammatory Diseases	<b>Hasibe Artaç</b>
09:20-09:30	Case 7: Common Variable Immunodeficiency	TBD
09:30-09:40	Case 8:	<b>Safa Barış</b>
09:40-09:50	Case 9:	TBD
09:50-10:00	Case 10:	<b>Elif Karakoç</b>

#### **10:00-10:30** **COFFEE BREAK**

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

##### **Closing Session**

**Moderators: Ahmet Özen, Şükrü Güner**

Vicki Modell Memorial Session

TBD



School of Medicine



RareBoost



USERN™  
| Universal Scientific Education &  
Research Network |  
| usern.org |



Jeffrey Modell  
Foundation  
Curing PI. Worldwide.



Monterra Kongre A.Ş.

Cumhuriyet Cad. Çamlıca Sok. No: 4/1 A12, 34077 Göktürk-Eyüp-İstanbul • Phone: +90 212 322 77 85 • GSM: +90 533 280 24 58  
[www.monterra.com.tr](http://www.monterra.com.tr)