



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

*Günnur Deniz
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
15:00-15:30 Functional Analyses
15:30-16:00 Quantification of Intracellular and Secreted Cytokines

*Mayda Gürsel
Tolga Sütü
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
Practical Session 2: Data Analysis, Gating, Report Generation

*Ayhan Parlar
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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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: İlgi 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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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	Hasibe Artaç
14:45-14:55	Case 1: Diagnostic approach in Severe Combined Immunodeficiency (SCID)	Fatih Çelmeli
14:55-15:05	Case 2: Diagnostic approach in Syndromic CID and (HIES)	Ayça Kıyıkım
15:05-15:15	Case 3: Primary Immunodysregulation Disorders and Malinite	Ömür Ardeniz
15:15-15:25	Case 4: Mycobacterial Susceptibility and Immune Deficiency	Caner Aytekin

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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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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