



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 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

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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
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

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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 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.

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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 IŞIL 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

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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

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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	Hasibe Artaç
09:20-09:30	Case 7: Common Variable Immunodeficiency	TBD
09:30-09:40	Case 8:	Safa Barış
09:40-09:50	Case 9:	TBD
09:50-10:00	Case 10:	Elif Karakoç

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



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