

**Abstract Submission is  
open until September 15<sup>th</sup>**



# **TBS International Biochemistry Congress 2023**

**34<sup>th</sup> National Biochemistry Congress of TBS**  
**29 October - 1 November 2023**

**Liberty Lykia Hotel - Fethiye, Türkiye**

## **Publish Your Full Manuscript!**

All accepted and presented abstracts will be published in the Turkish Journal of Biochemistry supplement which is listed in SCE-E and many other indexes. Full manuscripts will be accepted.

## **Full Scientific Program in English!**

Congress main scientific program will be presented in English and Turkish. All content will be simultaneously translated to English. Abstract presentations are accepted in both English and Turkish.

[www.tbs2023.org](http://www.tbs2023.org)

**Registration Fees**  
**€126 to €171**



# TBS International Biochemistry Congress 2023

# 34<sup>th</sup> National Biochemistry Congress

29 October - 1 November 2023  
Liberty Lykia Hotel - Fethiye, Türkiye



## Scientific Program

October 29<sup>th</sup>

09:00-16:00

**Workshops**

17:00-17:45

**Opening Ceremony**

Doğan Yücel

Turkish Biochemical Society President Lokman Hekim University, Türkiye

Tomris Özben

EFLM President, IFCC President-Elect Akdeniz University, Türkiye

17:45-19:00

**Opening Lecture**

● **Subcellular Molecular Architecture as a Critical Determinant of Metabolic Programming**

Gökhan Hotamışlıgil

Harvard T.H. Chan School of Public Health, USA



20:00-23:30

**100<sup>th</sup> Anniversary Celebration of the Turkish Republic**

# Scientific Program

October 30<sup>th</sup>

- 09:00 - 10:30** **Biological Clocks and Chronobiology Panel**
- 09:00-09:25** ● **Rhythmic and Non-rhythmic Variations of Laboratory Measurands**    
Abdurrahman Coşkun  
Acıbadem Mehmet Ali Aydınlar University, Türkiye
- 09:25-09:50** ● **New Target "Circadian Rhythm" for Treatment of Various Diseases**    
İbrahim Halil Kavaklı  
Koç University, Türkiye
- 09:50-10:15** ● **Harnessing Biological Clock for Biotechnological Applications**    
Nuri Öztürk  
Gebze Technical University, Türkiye
- 10:15-10:30** **Q & A**
- 10:45-11:15** **Keynote Lecture 1**
- **Integrated Diagnostics: The Future of Laboratory Medicine**    
Mario Plebani  
University of Padova, Italy
- 11:15-11:45** **Coffee Break - Poster and Exhibition Area** 
- 11:45-13:15** **New Therapeutic Approach to Pan-Cancer Treatment: Direct Telomer-Targeting Molecules and Immune Check Point Inhibitors**
- 11:45-12:10** ● **The Role of Immunotherapy in the Treatment of Lung Cancer from the Clinician's Perspective**    
Saadettin Kılıçkap  
İstinye University, Türkiye
- 12:10-12:35** ● **Targeting Immune Resistance in Lung Cancer**    
Esra Akbay  
The University of Texas, USA
- 12:35-13:00** ● **Telomerase-Driven Telomeric DNA Modification as Potential Broad Cancer Treatment Platform**    
Sergei M. Gryaznov  
MAIA Biotechnology, USA
- 13:00-13:15** **Q & A**
- 13:15-14:30** **Lunch Break**
- 14:30-15:15** **Satellite Symposium**

# Scientific Program

October 30<sup>th</sup>

15:15-16:00

## Keynote Lecture 2

- **Implementation for Sustainable Practices in Medical Laboratories:  
Switching Clinical Laboratories to Green Labs**

Tomris Özben

EFLM President, IFCC President-Elect Akdeniz University, Türkiye



16:00-16:15

## Coffee Break - Poster and Exhibition Area



16:15-17:00

## Keynote Lecture 3

- **Current Advances in Clinical Application of Tumor Biomarkers:  
Utility, Challenge and Perspective**

Qing H. Meng

University of Texas, USA



20:00-23:00

## Forum 1

**Harmonization of Specialist Training in Türkiye and in the World:  
The TBS View**

# Scientific Program

October 31<sup>st</sup>

09:00 - 10:30

## Updates to Clinical and Medical Laboratory Guidelines and International Standards

09:00-09:25

### ● Current Update of the IFCC Committee on Clinical Application of Cardiac Biomarkers Educational Recommendations

Kristin Moberg Aakre  
University of Bergen, Norway



09:25-09:40

### ● The Risks and Opportunities Presented by ISO 15189:2022 towards Achieving Continuous Improvement in Medical Laboratory Practices

Canan Karadağ  
Eskişehir City Hospital, Türkiye



09:40-09:55

### ● Charting the Path from Past Studies to a Visionary Future with the New Structure of the EFLM Quality and Regulation Committee

Hikmet Can Çubukçu  
The Ministry of Health, Health Services General Directorate, Türkiye



09:55-10:10

### ● Overview of Recent CLSI Guidelines: Enhancing Laboratory Medicine Practices

Sedef Yenice  
Gayrettepe Florence Nightingale Hospital, Türkiye



10:10-10:30

## Q & A

10:30-11:15

## Keynote Lecture 4

### ● Harmonizing The Post-Analytical Phase

Mario Plebani  
University of Padova, Italy



11:15-11:45

## Coffee Break - Poster and Exhibition Area

11:45-13:15

## Integrative Approaches to Molecular Interactions and Drug Design

11:45-12:10

### ● The Role of Protein-structure-function Relationship in Disease Pathogenesis in Autoimmune Diseases: Example of AS

Günseli Bayram Akçapınar  
Acıbadem Mehmet Ali Aydınlar University, Türkiye



12:10-12:35

### ● How AI Will Revolutionize Structure-based Drug Design

Ezgi Karaca  
İzmir Biomedicine and Genome Center, Türkiye



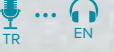
# Scientific Program

October 31<sup>st</sup>

12:35-13:00

● **The Bright Future of Structural Biology in Türkiye**

Hasan Demirci  
Koç University, Türkiye



13:00-13:15

**Q & A**

13:15-14:30

**Lunch Break**

14:30-15:15

**Satellite Symposium**

15:15-16:00

**Keynote Lecture 5**

● **How Milk Shapes Life: Multiomic Approaches for Understanding of Milk & Microbiome and Host Interactions**

Sercan Karav  
Çanakkale Onsekiz Mart University, Türkiye



16:00-16:30

**Coffee Break - Poster and Exhibition Area**



16:30-17:15

**Satellite Symposium**

17:15-18:45

**Forum 2**

Young Investigator Roadmap

● **Career Development for Young Scientist In Clinical Biochemistry and Laboratory Medicine**

Qing H. Meng  
University of Texas, USA



● **Establish Your Own Research - A Roadmap for Young Investigators**

Kristin Moberg Aakre  
University of Bergen, Norway



# Scientific Program

November 1<sup>st</sup>

09:00 - 10:30

## New Laboratory Techniques

09:00-09:25

- **Biochemical, Genetic and Phenotypic Characterization of Lysosomal Sulfatide Degradation Disorders**

Asuman Özkara  
Hacettepe University, Türkiye



09:25-09:50

- **Skin Barrier Ceramide Metabolism in Health and Disease**

Roger Sandhoff  
German Cancer Research Center, Germany



09:50-10:15

- **NMR in Clinical Laboratory Diagnostics: Lipoprotein Profile Analysis**

Mustafa Serteser  
Acıbadem Mehmet Ali Aydınlar University, Türkiye



10:15-10:30

## Q & A

10:30-11:15

- **Keynote Lecture 6**  
**My Journey into the Field of Sphingolipids and Sphingolipidosis**

Konrad Sandoff  
Bonn University, Germany



11:15-11:45

## Coffee Break - Poster and Exhibition Area

11:45-13:15

## Where Are We Going in Diagnosis, Follow-up and Treatment?: Current and Near Future

11:45-12:10

- **The Future of Medicine and Health Sciences: The Invasion of Engineering**

Engin Ulukaya  
İstinye University, Türkiye



12:10-13:10

## Clinical Decision Tools in the New Era of Healthcare

- **Value of Clinical Laboratories in Clinical Decision Making**

Merve Sibel Güngören  
MedxThera Consultancy, Türkiye



- **Integrated Diagnostics Approach and Radiology**

Ali Murat Koç  
İzmir Katip Çelebi University, Türkiye



- **Clinical Decision Support Systems and Integrated Diagnostics**

Deniz İlhan Topçu  
HSU İzmir Tepecik Teaching and Research Hospital, Türkiye



# Scientific Program

November 1<sup>st</sup>

13:00-13:15

**Q & A**

13:15-14:30

**Lunch Break**

14:30-15:15

**Satellite Symposium**

15:15-16:00

**Keynote Lecture 7**

● **Secrets and Mysteries in the Preanalytical Phase**

Giusseppe Lippi

University of Verona



16:00-16:30

**Coffee Break - Poster and Exhibition Area**



16:30-18:00

**Nazmi Özer Science Awards and Closing Ceremony**

Science Award Winner's Presentation

**Award Ceremony**

- Nazmi Özer Science Award
- FEBS Open Bio Poster Award
- TJB Innovation Award
- TBS2023 Poster Award

**Closing Ceremony**





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## Discover Lycian Way and More...

Lycia flourished in Anatolia between 1.500 BC to 546 BC in the Lycia peninsula. The famous Lycian Way spans around 520 kilometers, heading north in Anatolia and is widely accepted to be one of the best long-distance hiking trails in the world. We will offer a short version of the Lycian Way Hiking experience during the congress, but of course you are welcome to extend your stay and explore for yourself.

The location is also famous for para-gliding activities and the 22nd International Ölüdeniz Air Games will coincide with the 100th anniversary of Republic of Türkiye celebrations and the congress dates. Don't miss to watch the sky filled with para-gliders, and even join them!