

**Satellite Symposium**  
**Organized and sponsored by**  
**Metabolic and Inflammatory Diseases Research Center (METIFLAM),**  
**Uskudar University, Istanbul, June 4, 2024**

**Metabolic and Inflammatory disease: pathophysiology and therapy**

**WELCOME**

09:00-09:30 **Rectors Welcome**

**PLENARY LECTURE**

Chairs: *Nesrin Kartal Ozer (Uskudar University, Istanbul, Türkiye), Nevzat Tarhan (Uskudar University, Istanbul, Türkiye)*

**Prof. Christos S. Mantzoros** (*Harvard Medical School Boston, MA, USA*)

09:30-10:20 Fatty Liver Disease: advancing the understanding of underlying mechanisms, diagnostic approach and therapeutic strategies

10:20-10:30 **Coffee Break**

**LECTURES PART I**

Chairs: *Muhsin Konuk (Uskudar University, Istanbul, Türkiye), Kemal Yelekci (Kadir Has University, Istanbul, Türkiye)*

**Prof. Antonio Cuadrado** (*Autonomous University of Madrid, Madrid, Spain*)

10:30-11:00 Therapeutic targeting the NRF2/beta-TrCP complex in metabolic-associated fatty liver disease (MAFLD)

**Prof. Alexander Bartelt** (*Ludwig-Maximilians-Universität München, Munich, Germany*)

11:00-11:30 Adipocyte inflammation and cardiometabolic disease

**Prof. Adil Mardinoglu** (*Royal Institute of Technology, Stockholm, Sweden and King's College London, London, UK*)

11:30-12:00 The use of Systems Biology in Treatment of Metabolic Diseases

12:00-13:00 **Lunch Break**

**LECTURES PART II**

Chairs: *Haydar Sur (Uskudar University, Istanbul, Türkiye), Ayfer Yalcin (Ege University, Izmir, Türkiye)*

**Prof. Yuji Naito** (*Kyoto Prefectural University of Medicine, Kyoto, Japan*)

13:00-13:30 D-alanine, a metabolite of gut microbiota, inhibits intestinal inflammation by suppressing the activation of macrophage

**Prof. Young-Joon Surh** (*Seoul National University, Seoul, South Korea*)

13:30-14:00 Protective Effects of Some COX-2-derived Bioactive Lipid Mediators on Experimentally Induced Colitis and Intestinal Carcinogenesis

**Assoc. Prof. Erdi Sozen** (*Marmara University, Istanbul, Turkiye*)

14:00-14:30 Long chain metabolites of vitamin E and their potential in inflammation resolution

14:30-15:00 **Coffee Break**

### **SESSION 3: Young Investigator Presentations**

Chairs: *Tugce Demirel Yalciner (Uskudar University, Istanbul, Türkiye), Nilgün Tekkeşin (Uskudar University, Istanbul, Türkiye)*

**Seyed Mohammad Miri** (*Istanbul Medipol University, Istanbul, Turkiye*)

15:00-15:15 Revisiting the Role of H<sub>2</sub>O<sub>2</sub> in Nrf2 Activation Using an Oxygen-independent Biosensor

**Bengü Cetinkaya** (*Marmara University, Istanbul, Turkiye*)

15:15-15:30 Garcinoic Acid and  $\alpha$ -13'-COOH Mediated Modulation of Erastin-induced Ferroptosis through NRF2/HO-1 Signaling in Hepatocytes

**Gizem Damla Yalcin** (*Middle East Technical University, Ankara, Turkiye*)

15:30-15:45 Characterization of Evolutionary Dynamics for Drug Resistance in a 3D Cell Culture System Using Cellular Barcoding Technology

**Anna Migni** (*University of Perugia, Perugia, Italy*)

15:45-16:00 Advanced lipidomics strategies to explore hepatic lipotoxicity and its treatment

**Berranur Sert** (*Uskudar University, Istanbul, Turkiye*)

16:00-16:15 MESSAGE Mission: Understanding the immune system and cancer connection in microgravity

**Naz Mina Mert** (*Kadir Has University, Istanbul, Turkiye*)

16:15-16:30 *In Silico Screening* of Novel-Potential Inhibitor of Methionine Aminopeptidase 2 for the Treatment of Cancer

16:30 **Closing**