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SYNOVIAL JOINT FLUID MULTI-OMICS IN OSTEOARTHRITIS WORKSHOP WITH INTERNATIONAL COLLABORATION* AND THE SECOND MSK-INNOVATION & RESEARCH SYMPOSIUM

5-6 February 2026, Hacettepe University, Sıhhiye Campus, Conference Center, Ankara

NetwOArk

The European Network on OsteoArthritis

EU COST Action "CA21110

(* In Association with the TÜBİTAK #223S509 Project and EU COST Action "CA21110 - Building an open European Network on OsteoArthritis Research (NetwOArk))



Building on the success of previous collaborations, the event will bring together international experts and researchers to explore novel insights in osteoarthritis through multi-omics technologies, motion analysis, and regenerative approaches. The two-day program includes keynote lectures, interactive sessions, and panel discussions that highlight advances in synovial fluid proteomics, metabolomics, and lipidomics, as well as innovations in musculoskeletal imaging and tissue regeneration.

Thursday, 5 February 2026:

09:00 – 12:00 Session 1: Advancements in Motion Analysis Technology

Chair: Prof. Feza Korkusuz, MD

09:00 – 09:30 Prof. Paul Lee, MD

Introduction to the MAI Motion and on MRI Technology: A markerless motion analysis system powered by AI and its application in MRI-based analysis

09:30 – 10:00 Ella McAleese, BS

Recording and Assessing with MAI Motion and on MRI – Practice and Progress

10:00 – 10:30 Özgür Oktay Nar, MD

Three-Dimensional Movement Analysis of Running

10:30 – 11:00 Ömer Faruk İlcepinar, MD

Movement Analysis Following ACL Reconstruction

11:30 – 12:00 Keynote Lecture 1

Chair: Prof. Feza Korkusuz, MD

11:30 – 12:00 Paul Lee, MD
Regeneration of Musculoskeletal Tissues and Organs

12:00 – 13:00 Opening Remarks

- Prof. Feza Korkusuz, MD

The EU-COST Action CA21110 – Building an Open European Network on Osteoarthritis Research (NetwOArk)

- Prof. Mustafa Çelebier, PhD

The TÜBİTAK #223S509 EU COST Action “CA21110 Project: What Did We Learn from Synovial Joint Fluid Omics?

- Prof. Mutlu Aytemir, PhD Dean, Faculty of Pharmacy, Hacettepe University
- Prof. Mehmet Cahit Güran, PhD President, Hacettepe University

13:30 – 16:00 Session 2: Synovial Fluid Omics

Chair: Prof. Mustafa Çelebier, PhD

13:30 – 14:00 Serhat Aladağ, PhD
Highlights and Outcomes of the TÜBİTAK #223S509 Project

14:00 – 14:30 Prof. Ali Tuncel, PhD
Particles that Enhance Phospholipids and Phosphoproteins in the Synovial Fluid

14:30 – 15:00 Burcu Gökçal, PhD
Particle Production and Characterization

15:00 – 15:30 Prof. Ömür Çelikbıçak, PhD
Proteomics of Synovial Joint Fluid

15:30 – 16:00 Prof. Petek Korkusuz, MD, PhD
ELISA Outcomes from Synovial Joint Fluid

16:30 – 17:00 Keynote Lecture 2

Chair: Prof. Luminita Labrusca, MD (Video Conference)

16:30 – 17:00 Prof. Riccardo Ferracini, MD, PhD
Osteoarthritis and the Microbiota

Friday, 6 February 2026:

09:00 – 12:00 Session 3: Molecular and Cellular Insights into Osteoarthritis

Chair: Prof. Victoria Sarafian, MD, DSc

09:00 – 09:30 Prof. Luminita Labrusca, MD
Synovial Fluid and Synovial Layer as Therapeutic Targets in Osteoarthritis

09:30 – 10:00 Prof. Victoria Sarafian, MD, DSc

Senescence in Osteoarthritis – Therapeutic Perspectives

10:00 – 10:30 Maria Kazakova, PhD

Rheumatoid Arthritis Patients: Mitochondrial Dysfunction and Inflammatory Markers

11:00 – 12:00 Panel Discussion

Chairs: Prof. Ali Tuncel, PhD and Prof. Ömür Çelikbıçak, PhD

Topic: Regeneration of the Musculoskeletal System through an Omics Approach

Panelists:

- Prof. Paul Lee, MD
- Prof. Ömür Çelikbıçak, PhD
- Prof. Mustafa Çelebier, PhD
- Prof. Petek Korkusuz, MD, PhD
- Prof. Luminita Labrusca, MD
- Prof. Victoria Sarafian, MD, DSc

12:00 – 12:30 Closing Remarks

*Breaks are marked with: