

Session Program

Dec 13 – 14, 2025



TAGRA 2025

Biomaterials

Erzurum, Türkiye, Venue TBA
Ataturk University Campus, Erzurum, Türkiye

Sun, December 14

1:30 PM

Biomaterials

Session | Location: Virtual Room, VCR/1-3 | Convener: Abbas Razmi

1:30 – 1:45 PM

Investigation of the Cellular Effects of Infrared Electromagnetic Waves and Carbon Nanotubes on HT29 Cell Line

Speaker

Farshad Lotfollahzadeh

1:45 – 2:00 PM

Cellular Toxicity of Laser, Iron Oxide and Manganese Oxide Nanoparticles on the Viability of Breast Cancer Cells Line

Speaker

Aysan Mansournia

2:00 – 2:15 PM

Mechanistic Insights Into Tissue Regeneration Using Carbon-Based Nanoparticles in 3d Bioprinting

Speaker

Ms Fatemeh Barati

2:15 – 2:30 PM

Bioprinted Scaffolds Incorporated by Functional Nanoparticles

Speakers

Ms Fatemeh Barati, Behnaz Ashtari

2:30 PM

2:40 PM

Biomaterials

Session | Location: Virtual Room, VCR/1-3 | Convener: Abbas Razmi

2:40 – 2:55 PM

Unraveling the Mechanism of TiCN Film-Coated NiTi Substrate Toxicity: Evidence of Mitochondrial Electron Transport Dysfunction in Gingival Cells from Diabetic Rats

Speaker

Dr Parvaneh Naserzadeh

2:55 – 3:10 PM

Functional Nanoparticle Incorporated Bioprinted Scaffolds

Speaker

Ms Fatemeh Barati

3:10 – 3:25 PM

Effect of Sliding Wear Mechanism of Titanium Biomaterials: 3D Finite Element Analysis

Speaker

Efe Çetin Yilmaz

3:25 – 3:40 PM

Classification of Biomaterials and Their Biomedical Applications

Speaker

Abbas Razmi

3:40 – 3:55 PM

Design and Manufacture of PLC Controlled Laboratory Wear Device for in Vitro Biomedical Applications

Speaker
Ibrahim ELEBEYD

3:55 - 4:10 PM

**Investigation Contact- and Contact-Free Wear Resistance of Titanium for Biomedical Applications:
Correlation with Wear Depth and Volume Loss**

Speaker
Efe Çetin Yılmaz

4:10 PM