

**Wednesday, October 11**

Head of session:

**Dr. Oksana KOSTYUK**, *Ivano-Frankivsk, Ukraine*

### **Session 7.**

#### **Nanomaterials for biomedical application**

**14-30**

Copper single-phase ferrite nanoparticles as promise materials for magnetic hyperthermia application

Speaker: **Dr. Yuliia MAZURENKO**

Ivano-Frankivsk National Medical University, Ivano-Frankivsk, Ukraine

Mazurenko Yu., Kaykan L., Moiseienko M., Kuzyshyn M., Vytvytskyi A.  
Ivano-Frankivsk National Medical University, Ivano-Frankivsk, Ukraine;  
G.V. Kurdyumov Institute for Metal Physics, N.A.S. of Ukraine, Kyiv, Ukraine

**14-45**

Development of optical immunosensors based on TiO<sub>2</sub> thin films

Speaker: **Dr. Alla TERESHCHENKO**

Odesa National I.I.Mechnikov University, Odesa, Ukraine

Tereshchenko A.  
Odesa National I.I.Mechnikov University, Odesa, Ukraine

**15-00**

Interactions of human serum albumin with II-VI based semiconductor quantum dots probed by optical spectroscopy methods

Speaker: **Dr. Ihor STOLYARCHUK**

Drohobych Ivan Franko State Pedagogical University, Drohobych, Ukraine

Stolyarchuk I.V., Kuzyk O.V., Dan'kiv O.O., Stolyarchuk A.I., Pryima Yu.A., Wojnarowska-Nowak R.  
Drohobych Ivan Franko State Pedagogical University, Drohobych, Ukraine;  
University of Rzeszow, Rzeszow, Poland

**15<sup>30</sup> – 16<sup>00</sup>      Coffee break**

**16-00**

**Invite report**

Terahertz spectroscopy as a window into ultrafast photocurrents and transient photoconductivity in 2D semiconductors

**Prof. Lyubov TITOVA,**

Worcester Polytechnic Institute, Worcester, MA, U.S.

**16<sup>45</sup> – 17<sup>45</sup>      Poster session**