Program

4th H2020 MaNaCa Training Workshop

Magnetic Nanohybrids for Cancer Therapy

21-22 September, 2021, Ashtarak, Armenia

Hybrid event

September 21, 2021

Zoom details: Link to Laser Physics 2021, Passcode: 556416

"MaNaCa meets to Laser Physics" session

Chairman: **Aram Papoyan**

10:00-11:00	Registration
11:00-11:10	Opening *Aram Papoyan (IPR NAS RA), David Sarkisyan (IPR NAS RA), Aram Manukyan (IPR NAS RA)*
11:00-11:30	**Introduction to the EU H2020 MaNaCa project** *Aram Manukyan (IPR NAS RA)*
11:30-12:00	**Synthesis, Structure and Magnetic Properties of Carbon Encapsulated Fe/Fe_3C Nanoparticles as Magnetic Heating Mediators** *Narek Sisakyan (IPR NAS RA)*
12:00-12:30	**Determination of weak and strong magnetic fields using atomic spectroscopy** *David Sarkisyan (IPR NAS RA)*
12:30-13:00	**Development of nanoparticles for the combined localized therapy of cancer adjacent to proton therapy, and evaluation of their acute toxicity to mammals** *Archil Chirakadze (Georgian Technical University)*
13:00-13:30	**Coffee break**
Chairmen: **David Sargsyan**	
13:30-14:00	**Biophysics of cancerogenesis: new trends and perspectives** *Naira Ayvazyan (Orbeli Institute of Physiology)*
14:00-14:30	**New therapeutic approaches of combinations of plant-derived and chemotherapeutic compounds in anti-cancer therapy** *Nikolay Avtandilyan (Yerevan State University)*
14:30-15:00	**Comparative analysis of chemical and biogenic Fe_3O_4 NPs biocompatibility and toxicity** *Ashkhen Hovhannisyan (Russian-Armenian University)*

15:00-15:30	**Possible Role of Water in Carcinogenesis and Influence of Non-Ionizing and Non-Thermal Electromagnetic Radiation (Millimeter Waves)** *Vitali Kalantaryan (Yerevan State University)*
15:30-18:00	**Welcome Party**

22 September, 2021 **Zoom details: Link to 4th MaNaCa workshop Passcode: 008479** Chairmen: **Marina Spasova**	
11:00-11:30	**Magnetic nanohybrids as magnetic heating mediators** *Makis Angelakeris (Aristotle University of Thessaloniki)*
11:30-12:00	**Structure and Magnetic Properties Fe/Fe3C Nanoparticles Prepared by Solid-Phase Pyrolysis of Iron Phthalocyanine** *Harutyun Gyulasaryan (IPR NAS RA)*
12:00-12:30	**Photoelectron and X-ray spectroscopy at the Kurchatov synchrotron radiation source** *Ratibor Chumakov (National Research Centre "Kurchatov institute")*
12:30-13:00	**Atomic structure of iron-containing core-shell nanoparticles: EXAFS and MD** *Leon Avakyan (SFEDU)*
13:00-14:00	**Coffee break**
Chairmen: **Aram Manukyan**	
14:00-15:00	**Horizon Europe: Widening participation and strengthening the European Research Area programme overview** *Tigran Arzumanyan (NAS RA)*
15:00-15:30	**Coffee break**
Chairmen: **Makis Angelakeris**	
15:30-16:30	**Developments in pediatric oncology in the Republic of Armenia** *Gevorg Tamamyan (Yerevan State Medical University)*
16:30-17:00	**Photoactive Complexes for Photodynamic Therapy of Tumors** *Grigor Gyulkhandaryan (Institute of Biochemistry NAS RA)*
17:00-17:30	**Theranostic nanostructured media for biomedical applications** *Karen Martirosyan (University of Texas Rio Grande Valley)*
17:30-17:45	**Closing**