Thessaloniki-Greece, August 25-28/2020

Program

	Tuesday 25.08.2020	Wednesday 26.08.2020	Thursday 27.08.2020	Friday 28.08.2020
$09^{00} - 11^{00}$	*Arrivals*	**Materials & Structure** **O04: M. Spasova, Germany** *Characterization of nanomaterials using transition electron microscopy* **O05: C. Dendrinou, Greece** *Nano-Theranostics based on magnetic ferrite nanoparticles* **O06: M. Katsikini, Greece** *Application of X-ray absorption fine structure spectroscopies for the study of $Fe_{3-x}Mn_xO_4$ nanoparticles*	**Biomedical constraints** **O12: G.Litsardakis, Greece** *Magnetic liposomes as versatile clinical carriers* **O13: M. Efremova, Germany** *Magnetite-Gold nanohybrids as ideal platforms for theranostics* **O14: U. Hofmann, Germany** *The Blood-Brain-Barrier as target for magnetic nanoparticle imaging and opening*	**Cancer specific aspects** **O17: C. Chlichlia, Greece** *Enhancing cancer immunotherapy through Nanotechnology* **O18: M. Abakumov, Russia** *Magnetic nanoparticles for cancer therapy and diagnostics: effects of morphology and coating* **O19: C. Tapeinos, Italy** *Cell membrane-coated magnetic nanocubes for the treatment of glioblastoma*
11^{00} - 11^{40} *Coffee Break*				
$11^{40} - 13^{00}$	*Registration* *On Site & Web*	**Magnetism & Properties** **O07: P. Trohidou, Greece** *Tuning structure and Magnetic Properties of Nanoparticles for Enhanced Heating Performance* **O08: U.Wiedwald, Germany** *Basics of Magnetometry and How to Apply on Nanoparticles*	**Biomedical constraints** **O15: C. Spiridopoulou, Greece** *Cancer nanomedicine: considerations for the in vitro experimental design* **O16: R. Tzoneva, Bulgaria** *How cells respond to magnetic field? Magnetic hyperthermia for cancer treatment*	**Cancer specific aspects** **O20: S. Spirou, Greece** *The Radiobiological Basis of Radiation Therapy and Hyperthermia* **O21: N. Carvou, UK** *Magnetic Particle Imaging Applications in Cancer Inflammation, Theranostics, and Cell Tracking* **O22: T. Samaras, Greece** *Combinatory, Magnetic or Non-magnetic cancer modalities?*
$13^{00} - 15^{00}$ *Lunch Break*				
15^{00}-17^{00}	**O01: M. Angelakeris, Greece** *Magnetic Nanohybrids for Cancer Therapy* **Materials & Structure** **O02: A. Manukyan, Armenia** *Iron based "Core-Shell" Nanoparticles for Magnetic Hyperthermia of Cancer Cells* **O03: Simeonidis, Greece** *Scaling Up Magnetic Nanoparticles Production*	**Magnetism & Properties** **O09: T. Feggeler, Germany** *Introduction to X-Ray Magnetic Circular Dichroism* **O10: A. S. Kamzin, Russia** *Core-Shell and Bi-phasic MNPs for cancer therapy: Structure and properties* **O11: A.Semisalova, Germany** *Ferromagnetic Resonance: Theory and Applications for Magnetic Nanoparticles*	**Poster Session** **P01-P12** *5 min flash presentations (5-8 slides)* + *5 min questions per poster* *On-site participants may hang their A0 printed posters in Poster Session Room*	**Poster Session** **P13-P23** *5 min flash presentations (5-8 slides)* + *5 min questions per poster* *On-site participants may hang their A0 printed posters in Poster Session Room*
$17^{00} - 17^{30}$ *Coffee Break*				
17^{30}-19^{30}	**Lab Course 01** **Young researchers Present & Publish** **M. Farle, Germany** *How to make a good scientific oral presentation* ***C. Bratsas, S. Zapounidou, Greece*** *How to avoid predatory journals & plan your publication strategy*	**Lab Course 02** **Young researchers Propose & Manage** **G. Brandon, Luxemburg** *H2020 MSCA Individual Fellowships for the young researchers*	**Lab Course 03** **Young researchers Samples & Biomedicine** **E. Myrovali & K. Kazeli, Greece** *Hands on Samples for biomedical applications*	**Lab Course 04** **Young researchers Magnetic Hyperthermia** **A.R. Tsiapla, N. Maniotis & A. Makridis, Greece** *Hands on Magnetic Particle hyperthermia: Experiment & Evaluation*

Poster Presentations

Num	Title & Presenting Author
P01	Regional Focus effect on Magnetic Particle Hyperthermia ***E. Myrovali**, MagnaCharta, CIRI-AUTH, Thessaloniki Greece*
P02	Combinatory magnetothermal and magnetomechanical stress on human breast cell lines ***A. R. Tsiapla**, MagnaCharta, CIRI-AUTH, Thessaloniki Greece*
P03	In vitro response of normal and cancerous cell lines under magneto-mechanical activation ***A. R. Tsiapla**, MagnaCharta, CIRI-AUTH, Thessaloniki Greece*
P04	In vitro and in vivo study of magnetic nanoparticles with potential for anti-tumor therapy ***V. Uzunova**, Institute of Biophysics and Biomedical Engineering, BAS, 1113 Sofia, Bulgaria*
P05	Synthesis and Characterization of MagnetoElectric $BiFeO_3$ nanoparticles ***K. Papadopoulos**, MagnaCharta, CIRI-AUTH, Thessaloniki Greece*
P06	Synthesis and characterisation of magnetic bio ceramics nanoparticles for medical applications ***K. Kazeli***, International Hellenic University, Thessaloniki, Greece
P07	Oxidative stress analysis, haemolytic activity and cytotoxicity of bioactive glass-ceramics nanomaterials, ***K. Kazeli***, International Hellenic University, Thessaloniki, Greece
P08	Fe-Fe_3O_4 "Core-Shell" Nanoparticles: Synthesis and Characterization ***G. Chilingaryan***, *Institute for Physical Research, National Academy of Sciences of Armenia, Ashtarak, Armenia*
P09	Fe-Fe_3C "Core-Shell" Nanoparticles: Synthesis and Characterization, ***H. Gyulasaryan***, *Institute for Physical Research, National Academy of Sciences of Armenia, Ashtarak, Armenia*
P10	Novel tissue engineering scaffolds and liposomal formulations loaded with Alkannins/Shikonins for dermal applications ***A. S. Arampatzis, A. E. Koletti,** Chemical Engineering Department, Aristotle University, Thessaloniki-Greece*
P11	An NMR and LC-MS based metabolomics approach to elucidate the mechanism of action of alkannin and shikonin on breast cancer cell line MCF-7 ***A. Nakas**, Chemical Engineering Department, Aristotle University, Thessaloniki-Greece*
P12	Nanostructured permanent magnets: Materials, geopolitical prospects, future challenges & recycling, ***G. Sempros**, School of Physics, Aristotle University of Thessaloniki-Greece*
P13	Superparamagnetic Splenic Macrophages: Magnetic Characterization and Investigation of Immune Response by Low-frequency Magnetic Stimulation, ***N. Tetos**, Fakultät für Physik, Universität Duisburg-Essen-Germany*
P14	Revolutionary green perovskite or perovskite-like solar cells ***L. Theofylaktos**, NCSR Demokritos, Athens-Greece*
P15	Blood cancer: New insights of Oxidative stress in carcinogenesis ***I. Tsamesidis**, Université de Toulouse, IRD, UPS, Toulouse, 31400, France*
P16	Design and construction of 3D-printed magnetic tools for biomedical applications ***P. Kyriazolopoulos**, MagnaCharta, CIRI-AUTH, Thessaloniki-Greece*
P17	CoCrFeMnNi High Entropy Alloy Nanoparticles from the gas phase ***I. N. Sahin**, Fakultät für Physik, Universität Duisburg-Essen-Germany*
P18	Standardizing magnetic hyperthermia experiment: a protocol for a reliable measurement ***A. Makridis,** MagnaCharta, CIRI-AUTH, Thessaloniki Greece*
P19	A Multiphysics Model for the Hyperthermia Treatment of Residual Bone Tumors Cells Using Magnetic Scaffolds, ***M. B. Lodi**,* Dept. Electr. & Electron. Engin. University of Cagliari, Cagliari Italy
P20	X-ray spectroscopic study of magnetic ferrite nanoparticles for theranostic applications: effect of size and distribution, ***F. Pinakidou**, School of Physics, Aristotle University of Thessaloniki-Greece*
P21	Estimating the effective anisotropy of ferromagnetic nanoparticles through magnetic and calorimetric simulations, ***N. Maniotis,** MagnaCharta, CIRI-AUTH, Thessaloniki Greece*
P22	Nanoimprint Defined Magnetic Nanoplatelets for Cancer Treatment and Biomedicine ***J. Li**, Department of Applied Physics, Eindhoven University of Technology-Netherlands*
P23	Magnetic characterization of Fe/Fe_3C nanoparticles fabricated by solid state pyrolysis ***E. Papadopoulou**, Fakultät für Physik, Universität Duisburg-Essen-Germany*