



AGENDA

E & I Nanobiotechnology International Workshop "Physical and chemical characterisation of nano materials: Application to nano medicine"

24th November- 26th November 2014
Bld 36, Amphitheatre
EC Joint Research Centre, Ispra, Italy

<https://ec.europa.eu/jrc/>

24th November

14h-14h30	H. Stamm /F. Rossi	JRC IHCP, Italy	Welcome. Presentation of the JRC and theme of the workshop
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Session 1: Nanoparticles applications in the medical field

14h30-15h00	Funda Acar Yagci	Koç University, Turkey	Development and characterization of silver sulfide quantum dots for medicine
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15h00-15h30	Nenad Ignjatovic	Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Serbia	The success rate of small particles based on hydroxyapatite in a live environment
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15h30-16h00	Albana Halili	Epoka University, Albania	Characterization of Electrospun Nanofibers for Tissue Engineering Applications
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16h00-16h30	Coffee break & Posters		
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Session 1: Nanoparticles applications in the medical field

16h30-17h00	Yurdanur Turker	Koç University, Turkey	Development of size tunable synthesis of PbX (X = S and Se) Quantum dots Emitting in the NIR-I window
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17h00-17h30	Zorica Arsova	Institute for Public Health of the Republic of Macedonia	Nanosensors for continuous monitoring glucose in diabetes
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17h30-18h00	Isaac Ojea	JRC IHCP, Italy	Luminescent engineered nanomaterials for combined therapy and biolabelling applications
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18h00-18h30	Lab visit		
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20h00 DINNER CONCA AZZURA			
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25th November

Session 2: Physical Chemical characterisation of NP.

8h30-9h00	Patrizia Iavicoli	JRC IHCP, Italy	Structural Characterization of Nanoliposomes-Anti Microbial Peptides Complexes
9h00-9h30	Francisco Laborda	University of Zaragoza, Spain	ICP-MS based methods for the analysis of nanomaterials
9h30-10h00	Tajana Preocanin	Faculty of Science, University of Zagreb, Croatia	Surface properties of ceria in aqueous electrolytes solution
10h00-10h30	Uri Raviv	The Hebrew University of Jerusalem, Israel	Solution X-ray Scattering: A Powerful Tool to Aid the Design of Drug-Loaded Liposomes

10h30-10h35
Participants and speakers photos

10h35-11h00
Coffee break & Posters

Session 3: Physical Chemical characterisation of NP.

11h00-11h30	Oren Regev	Ben Gurion University, Israel	Electron Microscopy Imaging of Drug Delivery Systems in Liquid State
11h30-12h00	Valentina Spampinato	JRC IHCP, Italy	ToF-SIMS and XPS characterization of Functionalized Carbon Nano-Onions (CNOs)
12h00-12h30	Arban Uka	Epoka University, Tirana, Albania	Characterization of Reactive Sites on Nanoparticles Employing Carefully Structured Large Samples

12H30-14H00 **LUNCH BREAK**

Session 3: Physical Chemical characterisation of NP.

14H00-14H30	Cloe Desmet	JRC IHCP, Italy	A 2-D nanoparticle sorter: towards "on-chip" full characterization and quantification of nanoparticles
14h30-15h00	Robin Capomaccio	JRC IHCP, Italy	Physical characterization of protein corona on nanoparticles
15h00-15h30	Lennart Treuel	University of Duisburg-Essen, Germany	Toward a molecular understanding of nanoparticle – protein interactions

15h30-16h00 Coffee break & Posters

Session 3: Physical Chemical characterisation of NP.

16h00-16h30	Serge Stoll	Université de Genève, Switzerland	Towards a better understanding of interaction mechanisms and thermodynamic properties of nanoparticles interacting with biomacromolecules
16h30-17h00	Stefan Tenzer	University Medical Center Mainz, Germany	Profiling the nanoparticle protein corona using label-free quantitative proteomics
17h00-17h30	Natalie Besley	National Physical Laboratory UK	Shell thickness determination of core-shell nanoparticles
17h30-18h00	Katerina Goracinova	University Ss. Cyril and Methodius, Republic of Macedonia	Biodistribution studies: An essential part of development and optimization studies for targeted drug delivery system

20h00 DINNER CONCA AZZURA

26th November

Session 4: Characterisation (cont'd) and Biological effects

8h30-9h00	Enisa Omanovic Miklicanin	U. Sarajevo, Bosnia	Characterisation of the physical chemical properties of nanoparticles surfaces by the Biological Surface Adsorption index
9h00-9h30	Monica Dias	European Medicines Agency (EMA), UK	EMA perspective on the development of Nanomedicines
9h30-10h00	Ehud Gazit	Tel Aviv University, Israel	Molecular Self-Assembly of Bioorganic Nanoassemblies with Unique Physical and Chemical Properties
10h00-10h30	Agnieszka Kinsner	JRC IHCP, Italy	In vitro testing and dosimetry of nanomaterials
10h30-11h00	Coffee break & Posters		
11h00-11h30	Hubert Chassaingne	JRC IHCP, Italy	Multi-omics approach to study the modification in the proteome and metabolome of in vitro cell models exposed to AuNPs
12h00-12h30	C. Granfils	Université Liege, Belgium	In vitro hemocompatibility assessment of Near-IR-Emitting Ag ₂ S Quantum Dots (QD)
12h30-13h00	Conclusions and end of the meeting		