PROGRAMME OF THE 1st CA17140 COST CONFERENCE

15th-17th October 2019, Riga, Latvia

Day 1 (15th of October)

Session 1 Chair: Barbara Klajnert-Maculewicz

12.00-12.10 Opening

12.10-12.40 Nissim Garti

*Novel nano domains as multipurpose delivery vehicles for bioactives*

12.40-13.00 Susana Cristobal

*Designing a patient-specific nanodrug-protein corona*

13.00-14.00 LUNCH

Session 2 Chair: Sabrina Pricl

14.00-14.20 Yrr Morch

*From drug discovery to preclinical studies: SINTEFs nanoparticle-based technologies for cancer treatment*

14.20-14.35 Marta Szczech

*Bio-polymeric nanoparticles as hydrophobic drug’s carriers for biomedical applications*

14.35-14.50 Weronika Gaweda

*Barium ferrite magnetic nanoparticles labeled with 223Ra: a new potential magnetic radiobioconjugate for targeted alpha therapy*

14.50-15.05 Nina Kostevsek

*Liposomal-based T2 MRI contrast agents*

15.05-15.20 Marija Vukomanovic

*Magnetic antimicrobial nanodrugs: Functionalized cobalt ferrite / gold nanocomposites*
15.20-15.40 Carla Cruz

*G-quadruplexes nanosystems for cancer therapy*

15.40-16.00 Simo Schwartz

*A new CD44v6-targeted treatment for advanced colorectal cancer mediated by niclosamide-loaded polymeric micelles*

16.00-16.20 COFFEE BREAK

**Session 3 Chair: Carlo Catapano**

16.20-16.40 Antonios Kanaras

*Messenger RNA-mediated anticancer drug release in mesenchymal cells by spherical nucleic acids*

16.40-16.55 Barbara Strojny

*Inhibition of selected P450 cytochromes by carbon nanostructures*

16.55-17.10 Marzena Szwed

*Assessment of the genotoxic and pro-apoptotic effect of various nanoparticles on human endothelial cells*

17.10-17.25 Veronica Bastos

*An innovative nanoplatform with UCNPs for multimodal therapy of melanoma*

17.25-17.40 Claudia Martins

*Synthesis of biologic-responsive polymers for the manufacturing of docetaxel-loaded nanoparticles for glioblastoma chemotherapy*

17.40-18.00 Vladimir Sivakov

*Porous silicon-based nanomedicine: Fantasy or future*

18.00-18.15 Marta Kutwin

*Graphene nanoplatform as a selective gene delivery system in glioblastoma cancer research*

18.15-18.30 Malwina Sosnowska

*Mechano-signalling, induced by fullerene C60 nanofilms, arrests the cell cycle in the G2/M phase and decreases proliferation of liver cancer cells*
18.30-18.45  Monica Mullerova

*Carbosilane glycodendrimers: From synthesis to bioapplications*

---

**Day 2 (16th of October)**

**Session 4 Chair: Nissim Garti**

9.00-9.30  S. Moein Moghimi

*Nanomaterials and the innate immunity: the complement challenge*

9.30-9.50  Tracey Bradshaw

*Development of apoferritin formulations for antitumour drug delivery*

9.50-10.05  Maciej Cieslak

*Synthesis of peptidic bola-dendrimers*

10.05-10.20  Barbara Pem

*Effect of particle shape on interactions of gold nanoparticles with proteins of different glycosylation status*

10.20-10.35  Mateusz Wierzbicki

*Graphene oxide nanoplatelets decreases glioma induced angiogenesis*

10.35-10.55  Manuela Gaspar

*Liposomes – a nanotechnological platform for different clinical applications*

10.55-11.15  COFFEE BREAK

**Session 5 Chair: S. Moein Moghimi**

11.15-11.35  Giovanni Tosi

*Gateway to the brain: tailored nanomedicine*

11.35-11.50  Viraj Pratap Nirwan

*Functional hybrid material using electrospun polymeric framework and functional elements for cancer therapy*
11.50-12.05  Aris Xenakis

Development and applications of nanodispersions as carriers of compounds with pharmaceutical interest

12.05-12.25  Eleni Efthimiadou

Advanced theranostic systems based on nanostructure materials

12.25-12.40  Marce Abal-Sanisidro

Creating self-illuminating nanoconjugated nanoparticles (nanosystems) to treat pancreatic cancer

12.40-13.00  Catarina Pinto Reis

Different rational nanotherapeutic approaches towards superficial cancers

13.00-14.00  LUNCH

Session 6 Chair: Ling Peng

14.00-14.20  Martin Hruby

Polysaccharide-graft-poly(2-alkyl-2-oxazoline) hybrid copolymers for nanomedicine applications

14.20-14.40  Krzysztof Szczepanowicz

Polymeric nanoparticles for theranostic

14.40-15.00  Ruth Prassl

Liposomes for micro-RNA delivery

15.00-15.15  Eva Salvanou

Radiolabeled magnetic nanoparticles for cancer theranostics

15.15-15.30  Sara Toselli

Silica-based multifunctional nanomedicine for targeted drug delivery

15.30-15.45  Maja Severic

Targeting prostate cancer via PSMA-peptide decorated exosome-mimetics

15.45-16.00  Evgeny Apartsin

pH-sensitive triazine-carbosilane dendrimerosomes for anti-cancer drug delivery

1st COST Action 17140 Conference, October 15-17, Riga, Latvia
16.00-16.20  COFFEE BREAK

Session 7 Chair: Maria Eugenia Riveiro

16.20-16.40  Wafa T. Al-Jamal

*Loading doxorubicin-PSA prodrug into thermo-sensitive nanocarriers enhances its therapeutic efficacy in castration-resistant prostate cancer models*

16.40-17.00  Marta Natile

*Lipid-coated upconverting nanoparticles/Ru(II)-anticancer compounds for NIR-light-mediated photodynamic therapy*

17.00-17.15  Aurora Grimaudo

*Biocompatible and versatile sphingolipid nanosystems for personalized medicine*

17.15-17.30  Valentin Cena

*The nanomedicine approach to glioblastoma therapy*

17.35-17.55  Nicolas Voelcker

*Porous silicon nanovectors: from drug delivery to immunotherapy*

---

Day 3 (17th of October)

Session 8 Chair: Ivana Vinković Vrček

9.00-9.20  Ling Peng

*Charm of dendrimer nanotechnology for cancer therapy*

9.20-9.35  Mariangela Garofalo

*Oncolytic viruses and extracellular vesicles for cancer drug delivery*

9.35-9.50  Lorena Garcia Hevia

*Preclinical validation of new hybrid nanocomposites for theranostic applications*

9.50-10.10  Dzmitry Shcharbin

*Nanoparticles for cancer nanomedicine*
10.10-10.25  Enrico Catalano

*Aptamer-functionalized iron oxide and gold nanoparticles for breast cancer theranostics*

10.25-10.40  Erving Ximendes

*Infrared-emitting nanoparticles for in vivo early tumor detection*

10.40-11.00  Dietmar Appelhans

*Supramolecular assemblies for nanomedicine*

11.00-11.20  COFFEE BREAK

**Session 9 Chair: Maria Francesca Ottaviani**

11.20-11.40  Jorn B. Christensen

*Dendrimers for pharmaceutical applications – potential & challenges*

11.40-11.55  Gabriel Lopez Pena

*Eosin Y and rare-earth-doped nanoparticles for deep-tissue photodynamic therapy*

11.55-12.10  Luiza Erthal

*Controlled release of a chemotherapeutic drug from a stimuli responsive nanoparticle incorporated in an injectable hydrogel for the treatment of solid tumours*

12.10-12.25  James Wells

*Nanoparticle localization, remote thermometry and hyperthermia therapy application combined in a preclinical Magnetic Particle Imaging Scanner*

12.25-12.40  Maria Cascallar

*Study of new synthetic vectors for cancer gene therapy and interference of metastasis process in zebrafish models*

12.40-13.00  Monica Lopez Fanarraga

*Carbon nanotubes are active-by-design systems for cancer therapeutic delivery*

13.00-13.10  Closing remarks and farewell

13.10-14.10  LUNCH