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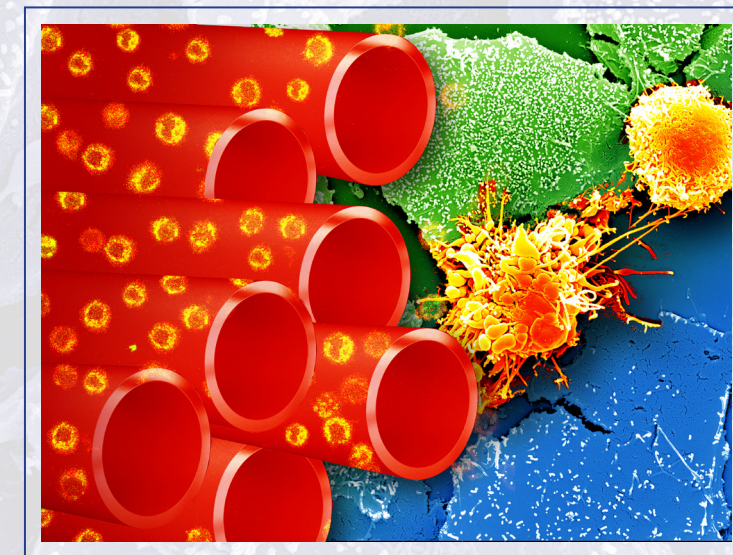
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Therapeutic Nanoproducts: from Biology to Innovative Technology

June 19th - 20th, 2019

Aula Pocchiari
Istituto Superiore di Sanità, Rome

CO-ORGANIZED BY

ISTITUTO SUPERIORE DI SANITÀ
and
Associazione Italiana di Colture Cellulari - AICC

GENERAL INFORMATION

DATES

Rome, Wednesday 19th - Thursday 20th June 2019

Istituto Superiore di Sanità, Aula Pocchiari

Viale Regina Elena, 299, 00161 Roma, Italy

www.iss.it

The conference is addressed to biologists, medical doctors, engineers, chemists and researchers.

Max. n. of participants 220

REGISTRATION FEE

Annual membership fee: €50,00

The registration fee includes:

- Participation in the Scientific Sessions
- Attendance Certificate
- Conference kit, coffee break, lunch

HOW TO REGISTER

The registration form is available at the page www.iss.it and <http://www.aicc.website>.

Please fill it in sign it and send to the Organising Secretariat (evelin.pellegrini@guest.iss.it) by **12 June 2019**.

Applications for participation will be accepted until the maximum capacity of the conference room is reached.

The registration fee is 50 euros, payable to the Associazione Italiana di Colture Cellulari, by bank transfer (IBAN: IT97B0538703612000003002045).

Payment must be made after having received notice of the acceptance of the application for participation. Please send copy of the transfer receipt to the organizing secretariat (evelin.pellegrini@guest.iss.it).

Participation is free for ISS employees.

Registration deadline 12 June 2019.

ABSTRACTS

Please send abstracts (max 250 words) to the Scientific Secretariat (maria.condello@iss.it).

Deadline for abstract submission: 31 May 2019.

Abstracts will be published on AICC website: <http://www.aicc.website>.

LANGUAGE

The official language of the Conference is English. Simultaneous translation will not be provided.

ATTENDANCE CERTIFICATE

Participants will get an attendance certificate at the end of the Conference.

SCIENTIFIC PROGRAMME

Wednesday, June 19th

12.30 Registration

13.30 Opening Ceremony and Welcome addresses:
Stefania Meschini, Patrizia Popoli, Michele Caraglia

SESSION I - CELL INTERACTIONS OF THERAPEUTIC VESICLES

Chairs: **Alessandra Carè, Agnese Molinari**

13.45 Microvesicles and exosomes in metabolic diseases: their role in inflammation
Luciana Dini

14.10 Insight into surfactant-based “soft” nanocarriers
Maria Carafa

14.35 Mesenchymal stromal freeze-dried extracellular vesicles for nanomedicine: from GMP-compliant production to next generation drug delivery system
Sara Perteghella

15.00 Nanomedicine in cancer: toward chemoresistance overcoming
Giuseppe De Rosa

15.25 Hacking pancreatic cancer drug resistance with novel NO-gemcitabine prodrugs encapsulated in liposomes
Massimo Donadelli

15.50 Liposomal carriers as possible therapeutic vesicles: morpho-functional investigation
Michela Battistelli

16.15 Immunotoxicity aspects in the development and regulatory evaluation of nanodrugs
Gabriella Di Felice

16.40 Recent innovations in high resolution microscopy
Giorgio Modesti

17.05 Closing Remarks

Thursday, June 20th

SESSION II - ADVANCED BIOMEDICAL TECHNOLOGY

Chairs: **Monica Boirivant, Annarica Calcabrini**

09.00 Nanostructured materials and devices
Mauro Grigioni

09.25 Polymeric nanoparticles as versatile drug delivery systems
Donato Cosco

09.50 Mesoporous silica-based nanosystems as a vehicle for targeted delivery of the antineoplastic drug Bortezomib
Antonella Leggio

10.15 Mesenchymal stem cells as a vehicle for multimodal nanoparticles
Elisa Martella

10.40 Coffee break

11.00 Vitvo: mimicking in vivo complexity by the innovative 3D model
Olivia Candini

11.25 Exosomes and Microvesicles under the lens of the Super Resolution Microscopy
Giulia Anselmi

11.50 VitroGel: tunable hydrogel for 3D cell culture and beyond
Caterina Sorteni

12.15 SEC meets TRPS: Automated isolation and high-precision analysis of EVs
Camille Roesch

12.40 Nanotech 5.0: from reality to virtual reality, fast forward
Matteo Mariani

13.05 Lunch

SESSION III - NANOSIZED INNOVATIVE APPROACHES

Chairs: **Flavia Barone, Annarita Stringaro**

14.00 Nanocellulose and its composites in biomedical devices
Marina Scarpa

14.25 Integrated microdevices for in-vitro cell assays: an overview
Leandro Lorenzelli

14.50 Nanocarriers for neuromuscular diseases
Manuela Malatesta

15.15 Hyperthermic nanoparticles to trigger adipolysis
Laura Calderan

15.40 Bioderived Porous Silica Hybrid Nanovector for Theranostic Applications
Luca De Stefano

16.05 Physico-chemical characterization of drug nanocarriers: a crucial step or a waste of time?
Simona Sennato

16.30 Nanomaterials in the framework of REACH & CLP regulations
Maria Alessandrelli

16.55 Fast, gentle and sensitive Super-Resolution for the imaging of dynamic biological processes
Alessandro Cometta

17.20 Closing Remarks

Aim and objectives

The conference will discuss in depth the mechanisms of interaction between new chemical-biological formulations and biophysical systems to improve the transport of drugs into normal and tumor cells. The enhancement of the therapeutic efficiency of a system of nanometric dimensions requires the development of new skills, within planning strategies leading to the expansion and sharing of

knowledge in a multidisciplinary environment.

The purpose of this event is to improve knowledge and encourage the optimization of production methods and discuss related regulatory aspects.

Key words: nanoprodukt, cell interactions, therapeutic vesicles, innovative technologies.

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