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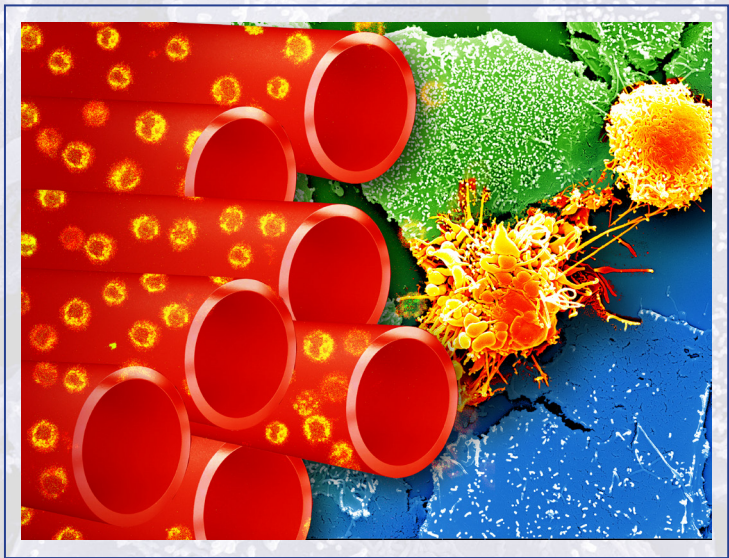
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Therapeutic Nanoproducts: from Biology to Innovative Technology

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 meeting is open to:

Biologist, Medical Doctors, Engineers, Researchers, Chemicals.

Max participant 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 application for participation, available at the page www.iss.it, section conventions, and on page <http://www.aicc.website>, must be completed, printed, signed and sent by e-mail to the organizing 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. Participation is free for ISS employees. For outsiders it is mandatory to pay the registration fee of 50 euros, payable to the Italian Association of Cellular Cultures, by bank transfer to the current account IBAN: IT97B0538703612000003002045. The payment of the registration fee must be made after having received notice of the acceptance of the application for participation. Once the payment has been made, a copy of the transfer receipt must be sent to the organizing secretariat at the e-mail address evelin.pellegrini@guest.iss.it.
Registration deadline 12th June.

Abstract deadline 31th May

Abstracts (max 250 words) sent to: maria.condello@iss.it.

The abstract will be published on the AICC website: <http://www.aicc.website>.

LANGUAGE

The official language of the Conference is English.

Simultaneous translation will not be provided.

ATTENDANCE CERTIFICATE

A certificate will be sent to all participants at the end of the meeting

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

Supported by an unrestricted grant from

Aim and objectives

The conference will deepen the mechanisms of interaction between new chemical-biological formulations and biophysical systems to improve the transport of drugs in normal and tumor cells. The enhancement of the therapeutic efficiency of a system of nanomeric dimensions requires the development of new skills, within a strategic planning that leads 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 to deepen the regulatory aspects.
Key words: nanoproduct, cell interactions, therapeutic vesicles, innovative technologies.

