



# BIOLOGICALS IN THERAPY



20<sup>th</sup> Advanced Course in Pharmaceutical Technology  
In collaboration with CRS Italy Local Chapter  
Online 27-29 September 2021

## Day 1 (September 27<sup>th</sup>) 9:00 a.m. CET

- Presentation of the School and Introduction Prof. Paolo Caliceti- Prof. Maria Carafa

Chair Prof. Giuseppe De Rosa- Prof. Massimo Fresta

-40 min Plenary Talk: Prof. Dr. Lucio Pastore (Università di Napoli) *Nucleic acids in therapy; potential and limitations*

10 min Q&A

10 min break

-60 min Poster session

10 min break

40 min Plenary Talk: Dr. Heinrich Haas – (BioNTech RNA Pharmaceuticals, Germany) *mRNA delivery*

10 min Q&A

## Day 2 (September 28<sup>th</sup>) 9:00 a.m. CET

Chair Dr. Thomas Moore and Prof. Paolo Decuzzi

-40 min Plenary Talk: Prof. Dr. Ernst Wagner – (Ludwig-Maximilians-Universität München, Germany) *RNA gene medicines: Evolution of synthetic nanocarriers*

10 min Q&A

10 min break

Chair Prof. Anna Fadda, Prof. Nunzio Denora

- 40 min Selected poster oral presentation (group 1)  
(4 presentation of 5 minutes each – 20 min discussion)

10 min break

Chair Dr. Enrica Chiesa and Prof. Pasquale del Gaudio

- 20 min Specialized Talk: Prof. Roy Van der Meel – (Eindhoven Technical University, Eindhoven, Netherlands) *Lipid nanoparticle technology enabling nucleic acid therapeutics*

5 min Q&A

Chair Prof. Anna Fadda, Prof. Nunzio Denora

- 40 min Selected poster oral presentation (group 2)  
(4 presentation of 5 minutes each – 20 min discussion)

Chair Dr. Elena Bellotti and Prof. Nadia Passerini

-20 min Specialized Talk: Prof. Francesca Mastrotto- (University of Padova) *Polymeric delivery systems for therapeutic nucleic acids*

5 min Q&A

### **Day 3 (September 29<sup>th</sup>) 9:00 a.m. CET**

Chair Prof. Paola Minghetti, Prof. Ruggero Bettini

-20 min Manuela Camisa (ADIENNE) *GMP manufacturing of biologics vs small molecules*

-20 min Irene Oddone (BSP) *Challenges in process development and scale-up for ADCs products*

-20 min Maria Luisa Nolli (NCNbio) *The revolution in medicine: the development of Advanced Therapy medicinal products*

10 min break

-20 min Lorena Scotti (Lisapharma/Thermo Fisher) *Scale-up of hybrid self-assembling nanoparticles: from bench to pilot plant*

-20 min Maria Teresa Peracchia (Sanofi) *Experience sharing of biologic drug development in the industry*

-60 min Parallel tables workshop sessions

- 1) Polymer-based DDS of biologicals
- 2) Lipid-based DDS of biologicals
- 3) Pegylation in drug delivery
- 4) Approaches for local drug delivery