

1st SITELF National PhD summer school (XXIII ADRITELF National PhD school)

University of Pavia, 2 – 4 September 2024

New delivery strategies for therapeutics and vaccines to fight emerging infectious diseases.

Venue: University of Pavia historical buildings, Aula del'400, Piazza Leonardo Da Vinci, 6, 27100 Pavia

Monday September 2nd	
H 14.00	Registration
<i>Chairpersons: Bice Conti – Silvia Rossi</i>	
H 14.15 – 14.30	PhD school opening, Bice Conti, University of Pavia. Paola Minghetti and Paolo Caliceti president and past president of SITELF
H 14.30 – 15.00	Federico Forneris, Dept. Biology & Biotechnologies, Vice-Rector for Research, University of Pavia, President INFACIT Foundation
H 15.00 – 15.30	Marco Terreni, Dept. Drug Sciences University of Pavia, coordinator of Immuno-Hub project. <i>Immuno-Hub. Development of vaccine and monoclonal antibodies for treatment of infective and cancer diseases: The case of glycoconjugate vaccine for TB</i>
H 15.30- 16.00	Francesca Micoli, Gsk Vaccine Institute for Global Health. <i>Design of polysaccharide vaccines for low and middle income countries</i>
H 16.00 – 16.30	Coffee break and Poster time
Overcoming microbial barriers session	
<i>Chairpersons: Giuseppina Sandri - Milena Sorrenti</i>	
H 16.30 – 17.10	Claus-Michael Lehr, Helmholtz Centre for Infection Research, Saarland University, Saarbrücken, Germany. <i>Overcoming microbial barriers and models for antimicrobial resistance.</i>
H 17.10 – 17.50	Enrique Aleman Llanso, University Politecnica Catalunya, Barcelona, Spain. <i>Multi-responsive systems for controlled delivery</i>
H 17.50 – 18.20	Irem Unalan, Institute of Biomaterials, University of Erlangen-Nuremberg, Germany. <i>Recent advances and future prospects of essential oils in biomedical applications</i>
H 18.20 - 18.40 SPONSOR Technical presentation	Simone Giordano, SOTAX srl. <i>Dissolution tester 4</i>
H 19.30	Welcome Cocktail

Tuesday September 3rd	
PhD students workshop: Focus groups	
H 9.00 – 10.30	Oral presentations of 3 rd year PhD students (Topic I and II)
H 10.30 – 10.50	Roundtable Discussion
H 10.50 – 11.10	Coffee break and Poster time
H 11.10 – 12.40	Oral presentations of 3 rd year PhD students (Topic III and IV)
H 12.40 – 13.00	Roundtable Discussion
H 13.00 – 14.00	Light Lunch
Polymers and nanosystems for drug delivery session	
<i>Chairpersons: Cristina Bonferoni - Sara Perteghella</i>	
H 14.00 – 14.40	Nicola Tirelli IIT, Genova, Italy. <i>A living microbe may be a foe, a dead one may be not.</i>
H 14.40 – 15.10	Maria Iole Carafa, Dept. of Chemical & Pharmaceutical Sciences, University La Sapienza, Rome, Italy. <i>New and well established nano-strategies for antimicrobial agents delivery</i>
15.10 – 15.40	Roberta Cavalli, Dept. of Drug Science and Technology, University of Turin, Italy. <i>Cyclodextrin-based polymers in drug delivery</i>
H 15.40 – 16.00 SPONSOR Technical presentation	Fabio Perissinotto, Alfatest. <i>Ideal conditions for nanomedicine production with microfluidic device</i>
H 16.00 – 16.20	Coffee break and Poster time
Manufacturing techniques session	
<i>Chairpersons: Laura Catenacci – Barbara Vigani</i>	
H 16.20 – 17.00	Dimitrios Lamprou, School of Pharmacy Queens University, Belfast, UK. <i>Emerging Technologies for Combatting Pandemics</i>
H 17.00 – 17.40	Paolo Gatti, Senior Vice President Head of Scientific Direction Evotec, Verona, Italy. <i>Manufacturing of Lipid Nanoparticles</i>
H 17.40 – 18.20	Geraldine Piel, Dept. of Pharmaceutical Sciences University of Liege, Belgium, <i>liposome production and sterilization using supercritical CO₂</i>
H 20.00	Summer School Gala Dinner
Wednesday September 4th	
RNA Therapeutics session	
<i>Chairpersons: Ida Genta – Maria Luisa Gelmi</i>	
H 9.00– 9.40	Stefano Salmaso, Dept. of Pharmaceutical and Pharmacological Sciences University of Padua, Italy. <i>LNPs for RNA Delivery: are we at the summit or do we have new heights to climb?</i>
H 9.40– 10.20	Luigi Calzolari, European Commission, Joint Research Center (JRC) Ispra, Varese, Italy. <i>Quality attributes of LNP-RNA systems</i>
10.20 – 11.00	Adriale Prina Mello, Dept. of Clinical Medicine Trinity College, Dublin, Ireland. <i>Can analytical LNP-RNA QbD be an early pre-clinical tool for translational success?</i>

H 11.00 – 11.20	Coffee break
<i>Chairpersons: Rossella Dorati – Raffaella Bucci</i>	
H 11.20 – 11.40 SPONSOR Technical presentation	Alessandro Artioli, Fedegari Group srl. <i>Moist heat sterilization process development: a key element to overcome challenges on Glass Pre-Filled Syringes</i>
11.40 – 12.10	Nicolò Mauro, Dept. of Biological, Chemical and Pharmaceutical Sciences and Technologies, University of Palermo, Italy. <i>Advancing Treatment of Biofilm-Related Infections Via Biomimetic Macromolecular Conjugates: a strategy to repurpose common antibiotics</i>
H 12.10 – 12.40	Umberto Musazzi, Dept. of Pharmaceutical Science, University of Milan, Italy. <i>Regulatory aspects of oligonucleotides drugs</i>
H 12.40 – 13.00	Paola Minghetti, President of SITELF, University of Milan, Italy. <i>Closing remarks</i>

Organizing committee:

P. Minghetti, SITELF
P. Caliceti, SITELF
B. Conti, University of Pavia
S. Rossi, University of Pavia
M.C. Bonferoni, University of Pavia
G. Sandri, University of Pavia
I. Genta, University of Pavia
R. Dorati, University of Pavia
S. Perteghella, University of Pavia
M. Sorrenti, University of Pavia
L. Catenacci, University of Pavia
B. Vigani, University of Pavia
E. Chiesa, University of Pavia
S. Pisani, University of Pavia
M. Ruggeri, University of Pavia

Scientific committee:

P. Minghetti, SITELF
R. Aquino, SITELF
R. Bettini, SITELF
P. Blasi, SITELF
P. Caliceti, SITELF
G. Cavallaro, SITELF
N. Denora, SITELF
G. Tosi, SITELF
M.C. Bonferoni, University of Pavia
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