



Società Italiana Tecnologia e Legislazione  
Farmaceutica



University of Pavia



Divisione di Tecnologia Farmaceutica

1<sup>st</sup> 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

<b>Monday September 2nd</b>	
H 14.00	Registration
H14.15 – 14.30	PhD school opening
	Proff 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 INFACCT Foundation
H 15.00 – 15.30	Marco Terreni, Dept. Drug Sciences University of Pavia, coordinator of Immunohub 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
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 Catalonia, 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>
18.20 - 18.40 SPONSOR Technical presentation	S.Giordano, SOTAX srl dissolution tester 4
H 19.30	Welcome aperitif
<b>Tuesday September 3<sup>rd</sup>, morning</b>	PhD students workshop: Focus groups

H 9.00 – 11.00	Oral presentations of 3 <sup>rd</sup> year PhD students (and perhaps 2 <sup>nd</sup> year PhD students)
H 11.00 – 11.30	Coffee break and Poster time
H 11.30 – 13.00	Oral presentations of 3 <sup>rd</sup> year PhD students (and perhaps 2 <sup>nd</sup> year PhD students)
H 13.00 – 14,00	Light lunch
Afternoon	Polymers and nanosystems for drug delivery session
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	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, Department of Drug Science and Technology University of Torino, Italy, <i>Cyclodextrin-based polymers in drug delivery</i>
15.40 – 16.00 SPONSOR Technical presentation	Alfa Test
H 16.00 – 16.20	Coffee break and Poster time
	Manufacturing techniques session
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, <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 CO<sub>2</sub></i>
H 20.00	Summer school Gala dinner (poster awards?)
<b>Wednesday September 4<sup>th</sup></b>	RNA Therapeutics session
H 9.00– 9.40	Stefano Salmaso, Department of Pharmaceutical and Pharmacological Sciences University of Padova, 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, Department 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
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, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies, University of Palermo, <i>Advancing Treatment of Biofilm-Related Infections Via Biomimetic</i>

	<i>Macromolecular Conjugates: a strategy to repurpose common antibiotics</i>
H 12.10 – 12.40	Umberto Musazzi, University of Milano, Italy, <i>Regulatory aspects of oligonucleotides drugs</i>
H 12.40 – 13.00	Paola Minghetti, University of Milano, Italy, <i>Closing remarks</i>

#### Organizing committee:

P. Minghetti, SITELF  
P. Caliceti, SITELF  
B. Conti, University of Pavia  
S. Rossi, University of Pavia  
M. Cr. Bonferoni, University of Pavia  
G. Sandri, University of Pavia  
I. Genta, University of Pavia  
R. Dorati, University of Pavia  
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M. Sorrenti, University of Pavia  
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B. Viganì, University of Pavia  
E. Chiesa, University of Pavia  
S. Pisani, University of Pavia  
M. Ruggeri, University of Pavia

#### Scientific committee:

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R. Bettini, SITELF  
P. Blasi, SITELF  
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