



NANOMEDICINE ROME 2018

Rome, 18-20 June 2018

Istituto Superiore di Sanità

DIAGNOSIS

THERAPY

THERANOSTICS

DRUG DELIVERY

***TISSUE
ENGINEERING***

INVITED SPEAKERS

Patrick Couvreur

Fabrizio Gelain

Jan Grimm

Inge Katrin Herrmann

Carlotta Marianecchi

Miguel Oliveira

Anna Salvati

Gert Storm

Thomas J. Webster

Frederik Wurm

PROGRAM

Congress Coordinators

Giovanna Mancini

Institute of Chemical Methodologies – CNR

Tel. 06 90672900

E-mail: giovanna.mancini@cnr.it

Agnese Molinari

National Centre for Drug Research and Evaluation - Istituto Superiore di Sanità

Tel. 06 4990 2228

E-mail: agnese.molinari@iss.it

Scientific Committee

Annarica Calcabrini, Giuseppina Bozzuto

National Centre for Drug Research and Evaluation - Istituto Superiore di Sanità

Cecilia Bombelli

Institute of Chemical Methodologies - CNR

Organizing Committee

Monica Brocco

Core facilities - Istituto Superiore di Sanità

Marisa Colone, Maria Condello, Giuseppe Formisano, Stefania Meschini, Annarita Stringaro, Laura Toccaceli

National Centre for Drug Research and Evaluation - Istituto Superiore di Sanità

Francesca Ceccacci, Angelo Ferrari, Giorgio Giardini, Massimo Quici, Stefano Tardiola, Alessandro Tozzi

Institute of Chemical Methodologies - CNR

Stefano Borocci

University of Tuscia

Luisa Giansanti

University of L'Aquila

Program

MONDAY JUNE 18

09.00 Registration
09.30 Opening Ceremony

Gualtiero Ricciardi President of Istituto Superiore di Sanità, Rome
Massimo Inguscio President of Consiglio Nazionale delle Ricerche, Rome
Patrizia Popoli Director of Centre for Drug Research and Evaluation, ISS, Rome
Giovanna Mancini Director of Institute of Chemical Methodologies, CNR, Rome
Agnese Molinari Centre for Drug Research and Evaluation, ISS, Rome

Chairpersons: **G. Storm, F. Wurm**

Invited lecture

10.00 **P. Couvreur**
“Nanomedicines for the treatment of severe diseases”

Selected lectures

10.30 **D. Alberti**
“A theranostic approach for Boron Neutron Capture Therapy (BNCT) treatment based on the use of Gd/B multimodal probes”

10.50 **A. Fahr**
“Development of novel m-THPC-liposomes and layersomes for the oral treatment of cholangiocarcinoma and gastrointestinal tumors”

11.10 *Coffee break*

Invited lecture

11.30 **J. Grimm**
“When particles meet - utilizing the power of Cerenkov light with nanotechnology”

Selected lectures

12.00 **S. Sennato**
“Temperature-dependent aggregation of PNIPAM microgels for controlled release of macromolecules”

12.20 **S. Murgia**
“Bicontinuous cubic liquid crystalline dispersions as potential tools in nanomedicine”

12.40 **N. Medard**
“SEEC Microscopy: a live and label-free analysis technique in the fields of materials and life sciences”

13.00 *Lunch and poster session*

MONDAY JUNE 18

Chairpersons: **C. Marianecci, T.J. Webster**

Invited lecture

14.30 **I. Herrmann**

“Magnetic blood purification: from concept to clinics”

Selected lectures

15.00 **C. Ferroni**

“Unprecedented behavior of (9R)-9-hydroxystearic acid loaded keratin nanoparticles on cancer cell cycle”

15.20 **F. Sansone**

“Ammonium containing calixarenes as multivalent systems for the delivery of nucleic acids and mimics”

15.40 **F. Caselli**

“High-throughput microfluidic impedance cytometer for label-free counting, localization and characterization of single cells”

16.00 *Coffee break and poster session*

Invited lecture

16.20 **F. Wurm**

“Poly(phosphoester)-functionalized nanocarriers: degradable alternatives to poly(ethylene glycol)”

Selected lectures

16.50 **G. D’Avenio**

“Integrative cytotoxicity assessment of nanostructured medical devices”

17.10 **C. Giordani**

“The role of the monosialoganglioside-GM1 in the interaction between model membranes and unstructured metastable amyloid oligomers of salmon calcitonin”

TUESDAY JUNE 19

Chairpersons: **P. Couvreur, A. Salvati**

Invited lecture

9.00 **T.J. Webster**
"20 years of developing FDA approved nanomedicine"

Selected lectures

9.30 **A. Kovačević**
"Development of ursodeoxycholic acid loaded nanostructured lipid carriers (NLC) for the therapy of liver diseases"

09.50 **E. Markova**
"Protein binding capacity of nanostructured lipid carriers loaded with *Salvia off.* extract"

10.10 **S. Di Gioia**
"Isolation of nanoparticles from *Brassica oleracea L.* (Broccoli) and study of their effect on the metabolic activity of lung tumor cell lines"

10.30 **Y. Soleimanian**
"Propolis wax-nanostructured lipid carriers for improving oral delivery and cholesterol lowering activity of β -sitosterol"

10.50 *Coffee break and poster session*

Invited lecture

11.10 **J.M. Oliveira**
"A multiscale approach in tissue engineering: from nano to tissues"

Selected lectures

11.40 **M. Renault-Mahieux**
"Development and stability of liposomes co-encapsulating fisetin and cisplatin"

12.00 **A. Arcovito**
"Drug delivery using protein nanocarriers: human or virus templates?"

12.20 **C. Martini**
"Intercalation of bioactive molecules into nanosized ZnAl hydrotalcites for combined chemio and photo cancer treatment"

12.40 **R. Santoliquido**
"Nanovectors: how to characterize size and concentration in liquid matrices"

13.00 *Lunch and poster session*

TUESDAY JUNE 19

Chairpersons: **F. Ceccacci, I. Herrmann**

Invited lectures

- 14.30 **C. Marianecci**
"Soft' nanocarriers: a versatile strategy for brain delivery"
- 15.00 **F. Gelain**
"Nanomaterials for nervous regeneration"

Selected lectures

- 15.30 **M.G. Raucci**
"Eumelanin-based substrates as smart materials for neuronal regeneration"
- 15.50 **L. Talamini**
"The role of nanocarrier physicochemical properties on the biodistribution and the blood brain barrier passage"
- 16.10 **G. Erel**
"Radiation-induced targeted nanoparticle based gene delivery for brain tumors"
- 16.30 **F. Garello**
"VCAM-1 targeted paramagnetic micelles for Magnetic Resonance Imaging of neuroinflammation"
- 20.00 **Social Dinner and poster prizes**

WEDNESDAY JUNE 20

Chairpersons: **J. Grimm, J.M. Oliveira**

Invited lecture

9.00 **G. Storm**
"The debate on (targeted) nanomedicine"

9.30 *Flash presentation for poster prizes*

Selected lectures

10.00 **S. Bertoni**
"Reactive oxygen species-responsive nano-in-micro composite for targeted therapy of inflammatory bowel disease"

10.20 **C. Conte**
"Redox responsive polymeric nanocarriers for the combined therapy of lung cancer"

10.40 **A. Sarra**
"Study of membrane phase transition in bacterial vesicles"

11.00 **H. Akbaba**
"Induction of apoptosis in the lung cancer cells using ultrasound-sensitive nanobubble formulations containing combination of survivin-siRNA and paclitaxel"

11.20 **I. Russo Krauss**
"Functionalized superparamagnetic iron oxide nanoparticles as theranostic devices: from development to interaction with proteins"

11.40 *Coffee break and poster session*

Invited lecture

12.00 **A. Salvati**
"Dissecting how cells internalize and process nano-sized drug carriers for nanomedicine applications"

Selected lectures

12.30 **D. Shalabalija**
"Influence of the surface properties of nanoliposomes on protein corona formation"

12.50 **A. Fracassi**
"Preparation of synthetic Low Density Lipoprotein (sLDL) with an on-surface chemoselective ligation"

13.10 **G. Celenza**
"Cerium oxide nanoparticles as potential antibiotic adjuvant. Effects of CeO₂ nanoparticles on bacterial outer membrane permeability"

13.30 **L. Chronopoulou**
"Innovative nanofabrication methodologies for the preparation of drug delivery systems"

13.50 *Closing remarks and lunch*

List of Participants

1	Aiello Stefano	Dipartimento di Chimica, Università di Roma "Sapienza", Rome, Italy. <i>Email: stefano.aiello@uniroma1.it</i>	P1
2	Akbaba Hasan	Department of Pharmaceutical Biotechnology, University of Ege, İzmir, Turkey. <i>Email: hasan.akbaba@ege.edu.tr</i>	SL26
3	Alberti Diego	Department of Molecular Biotechnology and Health Sciences, University of Torino, Italy. <i>Email: diego.alberti@unito.it</i>	SL1
4	Albrecht Volker	Biolitec research GmbH, Jena, Germany. <i>Email: volker.albrecht@biolitec.com</i>	SL2
5	Amalfitano Adriana	Catholic University of Sacred Heart. <i>Email: adriana.amalfitano@unicatt.it</i>	P2
6	Arancia Giuseppe	Istituto Superiore di Sanità. <i>Email: giuseppe.arancia@libero.it</i>	
7	Arcovito Alessandro	Institute of Biochemistry and Clinical Biochemistry, Catholic University of Sacred Heart, Rome, Italy. <i>Email: alessandro.arcovito@unicatt.it</i>	SL16
8	Astone Chiara	Università degli Studi di Roma "La Sapienza". <i>Email: chiara.astone@gmail.com</i>	
9	Bertoni Serena	Drug Research Program, Division of Pharmaceutical Chemistry and Technology, Faculty of Pharmacy, University of Helsinki, Finland; PharmTechLab, Department of Pharmacy and Biotechnology, University of Bologna, Italy. <i>Email: serena.bertoni4@unibo.it</i>	SL23
10	Bombelli Cecilia	CNR-IMC Istituto di Metodologie Chimiche Sezione Meccanismi di Reazione. <i>Email: cecilia.bombelli@uniroma1.it</i>	SL10, P1, P14
11	Borocci Stefano	University of Tuscia. <i>Email: borocci@unitus.it</i>	
12	Bozzuto Giuseppina	National Center for Drug Research and Evaluation, Istituto Superiore di Sanità Rome, Italy. <i>Email: giuseppina.bozzuto@iss.it</i>	SL9
13	Brocco Monica	Core facilities - Istituto Superiore di Sanità. <i>Email: monica.brocco@iss.it</i>	
14	Calcabrini Annarica	National Centre for Drug Research and Evaluation - ISS. <i>Email: annarica.calcabrini@iss.it</i>	P7
15	Caselli Federica	Department of Civil Engineering and Computer Science, University of Rome Tor Vergata, Rome, Italy. <i>Email: caselli@ing.uniroma2.it</i>	SL8
16	Ceccacci Francesca	CNR-IMC Istituto di Metodologie Chimiche Sezione Meccanismi di Reazione. <i>Email: francesca.ceccacci@uniroma1.it</i>	P1
17	Ceci Pierpaolo	Institute of Molecular Biology and Pathology, CNR, Rome, Italy. <i>Email: pierpaolo.ceci@cnr.it</i>	SL16
18	Celenza Giuseppe	Department of Biotechnological and Applied Clinical Sciences, University of l'Aquila, Italy. <i>Email: celenza@univaq.it</i>	SL30
19	Chisté Elena	Department of Computer Science, Fluorescence Laboratory, University of Verona, Italy. <i>Email: elena.chiste@univr.it</i>	P4
20	Chronopoulou Laura	Department of Chemistry, Sapienza University of Rome, Italy. <i>Email: laura.chronopoulou@uniroma1.it</i>	SL31
21	Ciarlo Laura	National Center for Drug Research and Evaluation, Istituto Superiore di Sanità, Rome, Italy. <i>Email: laura.ciarlo@iss.it</i>	P5
22	Colombo Eleonora	Department of Chemistry, University of Milan, Italy. <i>Email: eleonora.colombo@unimi.it</i>	P6

23	Colone Marisa	National Centre for Drug Research and Evaluation - ISS. <i>Email: marisa.colone@iss.it</i>	P7
24	Condello Maria	National Centre for Drug Research and Evaluation - ISS. <i>Email: maria.condello@iss.it</i>	P8
25	Conte Claudia	Drug Delivery Laboratory, Department of Pharmacy, University of Napoli Federico II, Napoli, Italy. <i>Email: claudia.conte@unina.it</i>	SL24
26	Costabile Gabriella	Department of Pharmacy, Ludwig-Maximilians-University, Munich, Germany. <i>Email: gabriella.costabile@cup.uni-muenchen.de</i>	P9
27	Couvreur Patrick	University of Paris-Sud, Université Paris-Saclay Institut Galien, UMR CNRS 8612, 5 rue J-B Clément F-92296 Chatenay-Malabry, France. <i>Email: patrick.couvreur@u-psud.fr</i>	IL1
28	D'Avenio Giuseppe	National Center for Technological Innovation in Public Health, Istituto Superiore di Sanità Rome, Italy. <i>Email: davenio@iss.it</i>	SL9
29	Decarolis Nadia	nordtest srl. <i>Email: ndecarolis@nordtest.it</i>	
30	Di Gioia Sante	Department of Medical and Surgical Sciences, University of Foggia, Italy. <i>Email: sante.digioia@unifg.it</i>	SL13, P03
31	Di Meo Chiara	Department of Drug Chemistry and Technologies, Sapienza University of Rome, Italy. <i>Email: chiara.dimeo@uniroma1.it</i>	P10
32	Diociaiuti Marco	Centro Nazionale Malattie Rare, Istituto Superiore di Sanità, Roma, Italy. <i>Email: marco.diociaiuti@iss.it</i>	SL10, P14
33	Djekic Ljiljana	Department of Pharmaceutical Technology and Cosmetology, University of Belgrade-Faculty of Pharmacy, Belgrade, Serbia. <i>Email: ljiljanadjek@gmail.com</i>	P11, P12, P13
34	Erel Akbaba Gülşah	Experimental Therapeutics and Molecular Imaging Lab, Department of Neurology, Neuro-Oncology Division, Massachusetts General Hospital, Boston, MA, USA; Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Izmir Katip Celebi University, Izmir, Turkey; Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Ege University, Izmir, Turkey. <i>Email: gulsaherel@gmail.com</i>	SL21
35	Fahr Alfred	Biolitec research GmbH, Jena, Germany. <i>Email: volker.albrecht@biolitec.com</i>	SL2
36	Ferrari Angelo	CNR - Institute of Chemical Methodologies. <i>Email: angelo.ferrari@cnr.it</i>	
37	Ferroni Claudia	CNR - Institute of Organic Synthesis and Photoreactivity. <i>Email: claudia.ferroni@isof.cnr.it</i>	SL6
38	Fioravanti Raoul	Centro Nazionale Malattie Rare, Istituto Superiore di Sanità, Rome, Italy; <i>Email: raoul.fioravanti@uniroma1.it</i>	P14
39	Formisano Giuseppe	National Centre for Drug Research and Evaluation - ISS. <i>Email: giuseppe.formisano@iss.it</i>	
40	Fracassi Alessandro	Laboratorium für Organische Chemie, ETH Zürich, Switzerland. <i>Email: afracassi@org.chem.ethz.ch</i>	SL29
41	Gaio Elisa	Cell Biology Unit, Department of Biology, University of Padova. <i>Email: elisa.gaio@studenti.unipd.it</i>	P15
42	Galantini Luciano	Università La Sapienza. <i>Email: luciano.galantini@uniroma1.it</i>	
43	Garello Francesca	Department of Molecular Biotechnology and Health Sciences, University of Torino, Italy. <i>Email: francesca.garello@unito.it</i>	SL22

44	Gelain Fabrizio	ISBREMIT, IRCCS Casa Sollievo della Sofferenza, Opera di San Pio da Pietralcina, San Giovanni Rotondo, Foggia. Center for Nanomedicine and Tissue Engineering (CNTE), ASST Niguarda Ca Granda, Milan, Italy. <i>Email: f.gelain@css-mendel.it</i>	IL8
45	Giansanti Luisa	Department of Physical and Chemical Sciences, University of L'Aquila, Italy. <i>Email: luisa.giansanti@gmail.com</i>	P8
46	Giardini Giorgio	CNR - Institute of Chemical Methodologies. <i>Email: giorgio.giardini@cnr.it</i>	
47	Giordani Cristiano	Instituto de Física, Universidad de Antioquia, Medellín, Colombia. <i>Email: cristiano.giordani@udea.edu.co</i>	SL10, P14
48	Grimm Jan	Molecular Pharmacology Program & Department of Radiology - Memorial Sloan Kettering Cancer Center, New York, USA. Gerstner Sloan-Kettering Graduate School of Biomedical Sciences, New York, USA. Pharmacology, Radiology - Weill Cornell Medical College, New York, USA. Integrated Cancer Center - King's College London, UK. <i>Email: grimmj@mskcc.org</i>	IL2
49	Herrmann Inge Katrin	Swiss Federal Laboratories for Materials Science and Technology (Empa), St. Gallen, Switzerland. <i>Email: Inge.Herrmann@empa.ch</i>	IL3
50	Imbriano Anna	Department of Drug Chemistry and Technologies, Sapienza University of Rome, Italy. <i>Email: anna.imbriano@uniroma1.it</i>	P16, P17
51	Kovačević Anđelka	Institute of Pharmacy, Faculty of Biological Sciences, Friedrich Schiller University Jena, Germany. <i>Email: andelka.kovacevic@uni-jena.de</i>	SL11
52	Lolli Maria Grazia	National Research Council (CNR), Rome, Italy. <i>Email: mariagrazia.lolli@ift.cnr.it</i>	P18
53	Mancini Giovanna	Institute of Chemical Methodologies – CNR. <i>Email: giovanna.mancini@cnr.it</i>	P1, P8
54	Marianecci Carlotta	Department of Chemistry and Technology of Drugs, Sapienza University, Rome, Italy. <i>Email: carlotta.marianecci@uniroma1.it</i>	IL7
55	Markova Elena	Institute of pharmaceutical technology, Center of pharmaceutical nanotechnology, Faculty of pharmacy, Ss. Cyril & Methodius University, Skopje, R. Macedonia <i>Email: elena.markova1@yahoo.com</i>	SL12
56	Martini Cecilia	CNR - Institute of Organic Synthesis and Photoreactivity <i>Email: cecilia.martini@isof.cnr.it</i>	SL17
57	Marzoli Francesca	National Center for Drug Research and Evaluation, Istituto Superiore di Sanità, Rome, Italy. <i>Email: francesca.marzoli@iss.it</i>	P19
58	Medard Nicolas	NANOLANE, Pole Novaxud, Le Mans, France. <i>Email: nicolas.medard@eolane.com</i>	SL5
59	Meschini Stefania	National Centre for Drug Research and Evaluation - ISS. <i>Email: stefania.meschini@iss.it</i>	SL9, P8
60	Minosi Paola	National Center for Drug Research and Evaluation, Istituto Superiore di Sanità, Rome, Italy. <i>Email: paola.minosi@iss.it</i>	P20
61	Mohan Lauren	Division of Biology, Department of Anatomy, School of Medicine; School of Pharmacy, Royal College of Surgeons in Ireland, Dublin 2, Ireland. <i>Email: laurenmohan@rcsi.ie</i>	P21
62	Molinari Agnese	National Centre for Drug Research and Evaluation - ISS. <i>Email: agnese.molinari@iss.it</i>	SL9
63	Murgia Sergio	Department of Chemical and Geological Sciences, University of Cagliari, Monserrato (CA), Italy. <i>Email: murgias@unica.it</i>	SL4

64	Nicoletti Isabella	CNR - Institute of Chemical Methodologies. <i>Email: isabella.nicoletti@cnr.it</i>	
65	Nikolić Ines	Department of Pharmaceutical Technology and Cosmetology, University Belgrade, Belgrade, Serbia. <i>Email: ines.nikolic@pharmacy.bg.ac.rs</i>	P22
66	Oliveira J. Miguel	3B's Research Group- Biomaterials, Biodegradable and Biomimetic, University of Minho, Headquarters of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine, Avepark, 4805-017 Barco, Guimarães, Portugal; ICVS 3Bs PT Government Associate Lab, Braga, Guimarães, Portugal; The Discoveries Centre for Regenerative and Precision Medicine, Headquarters at University of Minho, Avepark, 4805-017 Barco, Guimarães, Portugal. <i>Email: miguel.oliveira@i3bs.uminho.pt</i>	IL6
67	Oliveira Junior Edilson	Laboratory of Pharmaceutical Technology - FarmaTec, Faculty of Pharmacy, Federal University of Goiás, Goiânia, Brazil. <i>Email: edilsonrojunior@gmail.com</i>	P23
68	Pellegrini Evelin	National Center for Drug Research and Evaluation, National Institute of Health, Rome, Italy. <i>Email: evelin.pellegrini@guest.iss.it</i>	P8
69	Pellegrino Chiara	AcZon S.r.l. <i>Email: chiara.pellegrino@aczonpharma.com</i>	
70	Pereira Rayanne Rocha	Pharmaceutical Sciences Faculty, Federal University of Para, Belem, Brazil; <i>Email: pereirarayanne52@gmail.com</i>	P24
71	Pieretti Stefano	National Center for Drug Research and Evaluation, Istituto Superiore di Sanità, Rome, Italy. <i>Email: stefano.pieretti@iss.it</i>	P5, P19, P20
72	Quici Massimo	CNR - Institute of Chemical Methodologies. <i>Email: massimo.quici@cnr.it</i>	
73	Raniolo Sofia	Department of Systems Medicine, University of Rome Tor Vergata, Rome, Italy. <i>Email: sofiaraniolo@gmail.com</i>	P25
74	Raucci Maria Grazia	Institute of Polymers, Composites and Biomaterials (IPCB) - CNR, Naples (Italy). <i>Email: mariagrazia.raucci@cnr.it</i>	SL19
75	Renault-Mahieux Morgane	AP-HP, Henri Mondor Hospital Group, Pharmacy Department, Créteil, France; UTCBS, INSERM U1022 UMR CNRS 8258, Paris Descartes University, Paris, France. <i>Email: morgane.renaultm@hotmail.com</i>	SL15
76	Rinaldi Federica	Center for Life Nano Science@Sapienza, Istituto Italiano di Tecnologia (ITT), Rome, Italy. <i>Email: federica.rinaldi@iit.it</i>	P26
77	Russo Krauss Irene	Department of Chemical Science, University of Naples Federico II, Naples, Italy; CSGI, Florence, Italy. <i>Email: IRENE.RUSSOKRAUSS@UNINA.IT</i>	SL27
78	Salvati Anna	Groningen Research Institute of Pharmacy, University of Groningen, The Netherlands. <i>Email: a.salvati@rug.nl</i>	IL10
79	Sansone Francesco	Dipartimento di Scienze Chimiche, della Vita e della Sostenibilità Ambientale, Università di Parma, Italy. <i>Email: francesco.sansone@unipr.it</i>	SL7
80	Santoliquido Roberto	ALFATEST s.r.l., Rome, Italy. <i>Email: roberto.santoliquido@alfatest.it</i>	SL18
81	Sarra Angelo	Department of Science, University of Roma Tre, Rome, Italy. <i>Email: angelo.sarra@uniroma3.it</i>	SL25

82	Sciolla Francesca	Istitute for Complex Systems (ISC) – CNR and Sapienza University of Rome. <i>Email: francesca.sciolla@gmail.com</i>	P27
83	Scipioni Anita	Università La Sapienza. <i>Email: anita.scipioni@uniroma1.it</i>	
84	Sennato Simona	CNR ISC. <i>Email: simona.sennato@roma1.infn.it</i>	SL3, P35
85	Shalabalija Dushko	Institute of pharmaceutical technology, Center of pharmaceutical nanotechnology, Faculty of pharmacy, Ss. Cyril & Methodius University, Skopje, R. Macedonia. <i>Email: d_salabalija@hotmail.com</i>	SL28
86	Soleimanian Yasamin	Department of Food Science and Technology, Isfahan University of Technology, Isfahan, Iran. <i>Email: y.soleimanian@gmail.com</i>	SL14
87	Storm Gert	Dept. Pharmaceutics, Utrecht Institute for Pharmaceutical Sciences (UIPS), Utrecht University. University Medical Centre Utrecht (UMCU), Division Imaging, Utrecht. Dept. Biomaterials Science & Technology (BST), MIRA Institute for Biomedical Technology and Technical Medicine, University of Twente, Enschede, The Netherlands. <i>Email: G.Storm@uu.nl</i>	IL9
88	Stringaro Annarita	National Centre for Drug Research and Evaluation - ISS. <i>Email: annarita.stringaro@iss.it</i>	P7
89	Talamini Laura	IRCCS-Istituto di ricerche farmacologiche Mario Negri, Milano, Italy. <i>Email: laura.talamini@marionegri.it</i>	SL20
90	Tardiola Stefano	CNR - Institute of Chemical Methodologies. <i>Email: stefano.tardiola@cnr.it</i>	
91	Terreni Eleonora	Department of Pharmacy, University of Pisa, Italy. <i>Email: terreni.eleonora@gmail.com</i>	P28
92	Toccaceli Laura	National Centre for Drug Research and Evaluation - ISS. <i>Email: laura.toccaceli@iss.it</i>	
93	Truzzi Eleonora	Department of Life Sciences, University of Modena and Reggio Emilia, Modena, Italy. <i>Email: eleonora.truzzi@unimore.it</i>	P29
94	Unida Valeria	Department of Biology, University of Rome Tor Vergata, Rome, Italy. <i>Email: valeria.unida@gmail.com</i>	P25
95	Valentino Gina	Department of Pharmaceutical Technology, Institute of Pharmacy, Friedrich-Schiller-University Jena, Germany. <i>Email: gina.valentino@uni-jena.de</i>	P30
96	Webster Thomas J.	The Art Zafiropoulo Chair and Department Chair Department of Chemical Engineering, Northeastern University, Boston, USA. <i>Email: th.webster@northeastern.edu</i>	IL5
97	Wurm Frederik	Max Planck Institute for Polymer Research, Mainz, Germany. <i>Email: wurm@mpip-mainz.mpg.de</i>	IL4
98	Yalcin Serap	Department of Molecular Biology and Genetics, Ahi Evran University, Kirsehir, Turkey. <i>Email: serapyalcin1982@gmail.com</i>	P31, P32, P33, P34

List of Posters

P1	Glycosylated liposomes for targeting bacteria <i>Stefano Aiello, Francesca Ceccacci, Cecilia Bombelli, Michela Picano, Beatrice Simonis, Livia Pagano, Sara Ugolini, Giovanna Mancini</i>
P2	VP6-SUMO: a novel promising self assembling unit for drug-delivery <i>Adriana Amalfitano, Francesca Bugli, Cecilia Martini, Giuseppina Nocca, Alberto Vitali, Marco De Spirito, Massimiliano Papi, Maurizio Sanguinetti, Alessandro Arcovito</i>
P3	Solid lipid nanoparticles-mediated delivery of grape seed-derived proanthocyanidins to airway epithelial cells reduce oxidative stress <i>Stefano Castellani, Adriana Trapani, Anna Spagnoletta, Lorena di Toma, Sante Di Gioia, Delia Mandracchia, Thea Magrone, Giuseppe Trapani, Emilio Jirillo, Massimo Conese</i>
P4	TiO₂-coated pSi microparticles for nanomedicine <i>Elena Chistè, Ali Ghafarinazari, Marta Donini, Veronique Cremers, Jolien Dendooven, Christophe Detavernier, Donatella Benati, Marina Scarpa, Stefano Dusi, Nicola Daldosso</i>
P5	Curcumin-loaded Poly (d,l-lactide-co-glycolide) nanovesicles induce antinociceptive effects after local administration in mice <i>Laura Ciarlo, Francesca Marzoli, Paola Minosi, Amalia Di Giannuario and Stefano Pieretti</i>
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The NANOMEDICINE ROME 2018
The conference is organized with the unconditional support of



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Organized by

Institute of Chemical Methodologies, CNR, Rome

National Centre for Drug Research and Evaluation, Istituto Superiore di Sanità, Rome

