Program

Sunday June 27th, 2004: arrival
19:00-21:00 Welcome Reception (Residenza S. Ilario, Borgo Bosazza 13, Parma)

Monday June 28th, 2004
10:00 - 11:00 Opening Session
11:00 – 12:00 Richard H. Guy (Univ. of Geneva, CH) Skin bioengineering: minimally invasive transdermal therapy and monitoring

Biopharmaceutics and Pharmacokinetics
14:00 - 15:00 Carla Caramella (Univ. of Pavia, I) Modern bioavailability/bioequivalence studies and dissolution requirements
15:00 - 16:00 Christos Reppas (Univ. of Athens, GR) The in vitro dissolution testing of drug candidates
16:30 - 17:30 Paolo Colombo (Univ. of Parma, I) Mass transport phenomena in drug delivery control

Tuesday June 29th, 2004
Polymers
9:00 -10:00 Paolo Caliceti (Univ. of Padua, I) Synthetic biodegradable polymers
10:00 – 11:00 Franco Alhaique (Univ. of Rome La Sapienza, I) Polysaccharides and drug delivery

Oral delivery
11:30 – 12:30 Christos Reppas (Univ. of Athens, GR) Gastrointestinal physiology on xenobiotic absorption
14:00 – 15:00 Ruggero Bettini (Univ. of Parma, I) Swellable matrices as drug delivery systems
15:00 - 16:00 Gary Martin (Kings College of London, UK) Mucoadhesive delivery
16:30 – 17:30 Andrea Gazzaniga (Univ. of Milan, I) Colonic drug delivery
20:00 Social Dinner

Wednesday June 30th, 2004
9:00-10:00 Majella Lane (Trinity College Dublin, IRL) In vitro and in vivo models for oral drug absorption
10:00-11:00 Caítriona O’Driscoll (Univ. College Cork, IRL) Potential for lymphatic delivery of peptides

Colloidal vectors
11:30-12:30 Christine Vauthier (Univ. of Paris South, F) Design of nanoparticles for biotech compounds
14:00 - 15:00 Massimo Fresta (Univ. of Catanzaro, I) Liposomes
15:00 – 16:00 Amélie Bochet (Univ. of Paris South, F) Liposomal delivery of oligonucleotides
16:30-17:30 Véronique Prat (Univ. Catholique Louvain, B) Polymeric micelles

Thursday July 1st, 2004

Peptide/Protein Delivery
9:00-10:00 Wim Jiskoot (Univ. of Utrecht, NL) Physico-chemical characterisation of proteins
10:00-11:00 Majella Lane (Trinity College Dublin, IRL) Peptide and protein oral delivery
11:30-12:30 Francesco Veronese (Univ. of Padua, I) Peptide, protein and non-peptide drugs delivery by polymer conjugation
14:00 – 15:00 Maria J. Alonso (Univ. of Santiago de Compostela, E) Nanosystems as carriers for oral peptide delivery

Vaccines
15:00 - 16:00 Wim Jiskoot (Univ. of Utrecht, NL) Liposomes and other lipid-based structures in vaccine development
16:30 – 17:30 Maria J. Alonso (Univ. of Santiago de Compostela, E) Micro/nanoparticles as vaccine delivery vehicles

Friday July 2nd, 2004

Student Symposium & Poster viewing
9:30 - 17:30
11:30 – 12:30 Francesco Veronese (Univ. of Padua, I) Peptide, protein and non-peptide drugs delivery by polymer conjugation
Alessandro Martini (Nerviano Medical Science, Milan, I) Working in pharmaceutical Industries – what big and small pharma wants

Saturday July 3rd, 2004

Student Symposium & Poster viewing
9:30 - 11:00

11:00 - 12.00 Sara Nicoli (Univ. of Parma, I) European Ph.D. in advanced drug delivery

Sunday July 4th, 2004
Free day

Monday July 5th, 2004
Oligonucleotide Delivery
9:00-10:30 Elias Fattal (Univ. of Paris South, F) Biodegradable particles for the delivery of antisense oligonucleotides
11:00-12:00 Thomas Kissel (Philips Univ. of Marburg, D) Modified poly(ethylenimines) for DNA delivery

Gene Therapy
14:00 – 15:00 Luigi Cattel (Univ. of Turin, I) The utility of pharmacokinetics in the development of antitumoral drugs: from technological results to clinical applications
15:00 - 16:00 Sergio Simoes (Univ. of Coimbra, P) Cationic liposomes as non-viral vectors for gene therapy: from the mechanisms of intracellular gene delivery to clinical applications
16:30 – 17:30 Thomas Kissel (Philips Univ. of Marburg, D) Biodegradable graft polyesters based on PLGA and PVAL: a platform for nanotechnology?

Tuesday July 6th, 2004
Non conventional routes of administration
9:00-10:00 Sara Nicoli (Univ. of Parma, I) Introduction to transdermal delivery
10:00-11:00 Patrizia Santi (Univ. of Parma, I) Transdermal iontophoresis
11:30 - 12:30 Maria J. Blanco-Prieto (Univ. of Navarra, E) Drug delivery to the central nervous system
14:00 – 15:00 Andrea Chiesi (Chiesi Farmaceutici, Parma, I) Pulmonary delivery – Current trends and opportunities
15:00 - 16:00 Ruggero Bettini (Univ. of Parma, I) Nasal delivery
16:00 Conclusive remarks and next course planning

Wednesday July 7th, 2004
9:00-11:00 Visit to Chiesi Farmaceutici S.p.A. plant (Via S. Leonardo 96, Parma)
Socrates Intensive Program

The Socrates Intensive Program focuses on the specific aspects of innovative therapeutics, including new molecules, new technologies and alternative administration routes. The program is coordinated by the University of Parma and involves 11 European Universities. The public of the course are primarily students and researchers coming from Universities participating to the network. The teachers are coming from the same Universities, plus invited well-known speakers.

This Socrates Network was centered on a program proposed by Prof. Francis Puisieux on Novel Delivery Systems. The present program is coordinated by the University of Parma and is focusing on the delivery of innovative molecules.

The official site of the program is:  
http://www.unipr.it/arpa/dipfarm/didatt/SocratesIP.htm

The local organizer of 2004 Program is the University of Parma, Department of Pharmacy, through the Inter-university Consortium on Innovative Pharmaceutical Technologies “TEFARCO Innova”, which groups 10 Italian Universities. The official site of the Consortium is:  
http://tefarco.unipr.it

The event is supported by the Italian Chapter of the Controlled Release Society (http://www.pharm.unito.it/itcrs/1page.html) and by ADRITELF (http://www.unipv.it/adritelf/)

Location of the Course

The Course will take place at the University of Parma, Department of Pharmacy (Parco Area delle Scienze, 43100 Parma, Italy).

Parma

Parma, located in the North of Italy, is a city traditionally rated for its culture and art. The historic city centre has monuments like the Romanesque cathedral, frescoed by Correggio, and the octagonal baptistery sculpted by Benedetto Antelami. Parma is associated with important musicians such as Paganini, Verdi, Pizzetti and Toscanini.

Parma is the capital of the Italian food industry, world famous for its products and in particular for Prosciutto di Parma and Parmigiano Reggiano cheese.

How to reach Parma

Parma can be reached by plane (nearest airports are Parma, Milan and Bologna), by train or by car.

Please, see details at the following address:  
http://www.unipr.it/arpa/dipfarm/Parma2004.html

Course fees

- **Members of the Socrates Network**: free of charge
- **Ph.D. Students and academic attendees**: the attendance is free of charge. Meals, social dinner and lodging are not included.

  For registration, please contact:  
  Dr. Elena Vidal  
  Tefarco Innova e/o Dipartimento Farmaceutico  
  Via delle Scienze  
  43100 Parma, Italy  
  phone +39 0521 905 073  
  fax +39 0521 905 006  
  e-mail: tefarco@meme.unipr.it

- **Industry attendees**: the fee is 300 Euro, comprehensive of admission to scientific sessions, social dinner and abstract book. Meals and lodging are not included.

  For registration, payment and billing, please contact:  
  Dr. Marialuisa Ghelfi  
  Dipartimento Farmaceutico  
  Via delle Scienze  
  43100 Parma, Italy  
  phone +39 0521 905 005  
  fax +39 0521 905 006  
  e-mail: marialuisa.ghelfi@unipr.it

Deadline for registration: **May 31**, 2004

Scientific contributions

- **Members of the Socrates Network**: the students are requested to give an oral presentation in the Student Symposium. A two A4 pages abstract is required.

- **Ph.D. Students and academic attendees**: participants can present a poster in the Student Symposium. One A4 page abstract is required.

  For further information, please contact:  
  Dr. Sara Nicoli  
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  43100 Parma, Italy  
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Deadline for submission of abstracts: **May 31**, 2004