**FINAL PROGRAM**

**September 6, 2009**

18.00-20.00 Welcome and registration for the students staying at the Halls of Residence in Via Bassini

**September 7, 2009**

9.00-9.30 Registration

9.30 -10.00 Opening of SSPA 2009

Vincenza Andrisano, **SSPA Director** (University of Bologna, Italy)

Gerhard Ecker, **EFMC President** (University of Vienna, Austria)

Luisa Mosti, **President of Medicinal Chemistry Division** - Italian Chemical Society (University of Genova, Italy)

**I SESSION - ADME/PK AS PART OF A RATIONAL APPROACH TO DRUG DISCOVERY**

Chairman: Giancarlo Aldini (University of Milan)

10.00-10.30 **Bernard Testa** (University Hospital Centre, Lausanne, Switzerland)

“ADMET IN DRUG DISCOVERY AND DEVELOPMENT: AN INTRODUCTION”

10.30-11.30 **Jean-Michel Scherrmann** (Université Paris Descartes, Paris, France)

“IMPACT OF DRUG TRANSPORT ON ABSORPTION, DISTRIBUTION AND ELIMINATION WITH A SPECIAL FOCUS ON DRUG TRANSPORT ACROSS THE BLOOD-BRAIN BARRIER”

11.30-11.45 **Coffee-break**

11.45–12.45 **Bernard Testa** (University Hospital Centre, Lausanne, Switzerland)

“THE BIOCHEMISTRY OF DRUG METABOLISM: CHALLENGES IN DRUG DISCOVERY”

12.45–14.30 **Lunch**

Chairman: **Bernard Testa** (University Hospital Centre, Lausanne, Switzerland)

14.30–15.30 **Han van de Waterbeemd** (Saint Andre, France)

“OPTIMIZATION OF ADME AND PHYSICOCHEMICAL PROPERTIES IN DRUG DISCOVERY”
15.30–16.30 Tony Long (LHASA, Leeds, United Kingdom)

“DRUG METABOLISM: AN EXPERT SYSTEM APPROACH TO SIMULATION AND EARLY METABOLITE IDENTIFICATION”

16.30–16.45 Coffee break

16.45–18.05 Ph.D. thesis dissertations (part I) - Chairman Vincenza Andrisano (University of Bologna)

16.45-17.05 Maria Carmela Benfatto (University of Milan)

“ANALYTICAL APPROACHES IN THE DRUG DISCOVERY PROCESS: DEVELOPMENT OF CARNOSINE Peptidomimetics AS INHIBITORS OF DEGENERATIVE DISORDERS”

17.05-17.25 Carmela Cannavà (University of Messina)

“PREPARATION AND CHARACTERIZATION OF GEMCITABINE-LOADED CHITOSAN MICROPARTICLES FOR DELIVERY IN LUNG”

17.25-17.45 Francesco Croci (University of Milan)

“DEVELOPMENT AND ASSESSMENT OF GC-MS/MS ANALYTICAL METHODS FOR THE STUDY OF STEROID PROFILES IN THE DIAGNOSIS OF CONGENITAL ADRENAL HYPERPLASIA (CAH)”

17:45-18:05 Angela De Simone (University of Bologna)

“STUDY OF BIORECOGNITION PROCESS IN DRUG DEVELOPMENT”

September 8, 2009

Chairman: Han van de Waterbeemd (Saint Andre, France)

9.00–10.00 Carlo Bertucci (University of Bologna, Bologna, Italy)

“EARLY DISTRIBUTION ANALYSIS OF LEAD COMPOUNDS: PLASMA PROTEIN BINDING”

10.00–11.00 Giorgio Vago (ThermoFisher Scientific, Milan, Italy)

“HIGH RESOLUTION AND ACCURATE MASS FOR UNEQUIVOCAL UNKNOWN COMPOUND IDENTIFICATION IN COMPLEX MATRICES”

11.00–11.15 Coffee break

11.15-12.15 Ellenia Bordini (GSK, Verona, Italy)

“DRUG DEVELOPMENT PROCESS: STRATEGIES IN METABOLITE IDENTIFICATION”
12.15-12.30 Ana Martinez (Instituto Quimica Medica-CSIC, Madrid, Spain)
“CODES, AN IN SILICO VERSATILE TOOL FOR CHEMICAL STRUCTURES CODIFICATION”

12.30–14.00 Lunch

Chairman: Marina Carini (University of Milan)

14.00–14.45 Cecilia Allievi (Cell Therapeutics, Milan, Italy)
“APPLICATION OF MASS SPECTROMETRY IN PHARMACOKINETICS AND METABOLISM”

14.45–15.30 Massimo Breda (Accelera, Nerviano Medical Sciences, Nerviano, Italy)
“BEST PRACTICES ON METABOLITE QUANTIFICATION”

15.30–16.30 Massimo Dondio (Nikem Research srl, Baranzate, Italy)
“ADMET IN VITRO ASSAYS: ADVANTAGES AND CAVEATS – PART I”

16.30–16.45 Coffee break

16.45–17.30 Massimo Dondio (Nikem Research srl, Baranzate, Italy)
“ADMET IN VITRO ASSAYS: ADVANTAGES AND CAVEATS – PART II”

17.30–18.30 Ph.D. thesis dissertations (part II) Chairman Vincenza Andrisano (University of Bologna)

17.30 -17.50 Laura Mercolini (University of Bologna)
“DEVELOPMENT OF ORIGINAL ANALYTICAL METHODS FOR THE THERAPEUTIC DRUG MONITORING OF CNS DRUGS: ANTI PSYCHOTICS, ANTI DEPRESSANTS AND ANXIOLYTICS–HYPNOTICS”

17.50-18.10 Alessia Panusa (University of Milan)
“IDENTIFICATION OF METABOLIC MARKERS FOR THE DETECTION OF DOPING SUBSTANCES BY MASS SPECTROMETRY”

18.10-18.30 Luca Regazzoni (University of Milan)
“POST TRANSLATIONAL OXIDATIVE MODIFICATIONS OF ALBUMIN AS POTENTIAL BIOMARKERS FOR THE EARLY DIAGNOSIS OF CARDIOVASCULAR DISEASES AND AS A TOOL TO EVALUATE THE EFFICACY OF SEQUESTERING AGENTS OF REACTIVE CARBONYL SPECIES”
**September 9, 2009:**

**II SESSION - BIOMARKERS IN DRUG DISCOVERY AND DEVELOPMENT**

*Chairman: Koji Uchida  (Nagoya University, Japan)*

**9.00–10.30 Peter Horvatovich** (University of Gröningen, Gröningen, The Netherlands)

“**COMBINED EFFORT OF BIOINFORMATICS AND ANALYTICAL CHEMISTRY TO ADVANCE BIOMARKER DISCOVERY USING COMPREHENSIVE PROFILING WITH LC-MS**”

**10.30–10.45 Coffee break**

**10.45–11.45 Etsuo Niki** (AIST, Ikeda, Japan)

“**BIOMARKERS OF OXIDATIVE STRESS IN VIVO: IDENTIFICATION, MEASUREMENTS, AND APPLICATION**”

**11.45–12.15 Noriko Noguchi** (Doshisha University, Kyoto, Japan)

“**OXIDATION PRODUCTS OF CHOLESTEROL AND PROTEIN AS BIOMARKERS FOR NEURODEGENERATIVE DISEASES**”

**12.15–13.45 Lunch**

*Chairman: Peter Horvatovich (University of Gröningen, Gröningen, The Netherlands)*

**13.45–14.45 Milena Quaglia** (LGC, Teddington, United Kingdom)

“**BIOMARKERS IN DRUG DISCOVERY AND DEVELOPMENT: RELIABILITY OF PROTEOMIC-BASED METHODS**”

**14.45–15.30 Enrico Domenici** (GSK, Verona, Italy)

“**BLOOD BIOMARKERS FOR PSYCHIATRY DISEASES BY PROTEIN AND RNA PROFILING OF CLINICAL SAMPLES**”

**15.30 – 16.00 Closing remarks**