

## Sept 8, afternoon

16.00-17.30 Registration

17.30-18.00 Opening

18.00 – 18.45	PL1	<i>Chairperson: Giancarlo Aldini</i> <b>Gabriele Cruciani</b> (University of Perugia) EPILIPIDOMICS IN PHARMACEUTICAL ANALYSIS
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19.00 Welcome cocktail

## Sept 9, morning

8.45 -9.15 Registration

9.15 – 10.00	PL2	<i>Chairpersons: Vincenza Andrisano, Roccaldo Sardella</i> <b>Alfonsina d'Amato</b> (University of Milan) PROTEIN NETWORK ANALYSIS IN MEDICINAL CHEMISTRY
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## CLINICAL ANALYSIS

10.00 – 10.30	KN1	<b>Michael Lämmerhofer</b> (Eberhard-Karls-University of Tübingen) LIPIDOMICS PROFILING: A WINDOW OF OPPORTUNITY IN CLINICAL ANALYSIS
10.30 – 10.50	OC1	<b>Alessandra Anna Altomare</b> (University of Milan) AGE AND ALE PROFILING IN HEART FAILURE PATIENTS BY USING ULTRA-HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND ORBITRAP FUSION MASS SPECTROMETER
10.50 – 11.10	OC2	<b>Marina Naldi</b> (University of Bologna) CLINICAL AND PROGNOSTIC RELEVANCE OF HUMAN SERUM ALBUMIN STRUCTURAL ALTERATIONS
11.20 – 11.30	FC1	<b>Francesca Blasi</b> (University of Perugia) COW MILK FATTY ACIDS AS PREDICTIVE BIOMARKERS FOR THE DIAGNOSIS OF HYPERKETONEMIA IN EARLY LACTATION

11.30 – 11.50 Coffe Break

## PROTEIN ANALYSIS

*Chairpersons: Marina Carini, Manuela Bartolini*

11.50 – 12.20	KN2	<b>Szabolcs Fekete</b> (University of Geneva) LIQUID CHROMATOGRAPHIC ANALYSIS OF BIOPHARMACEUTICALS: CURRENT AND FUTURE POSSIBILITIES
12.20 – 12.40	OC3	<b>Sara Tengattini</b> (University of Pavia) ANALYTICAL CHARACTERIZATION OF PLANT-DERIVED VS MAMMALIAN CELL-DERIVED ANTIBODIES
12.40 – 12.50	FC2	<b>Alice Coletti</b> (University of Perugia) MICROSCALE THERMOPHORESIS (MST) FOR LIGAND AND PROTEIN BINDING INTERACTION MEASUREMENTS: ASSAY DEVELOPMENT FOR IMMUNE CHECKPOINT INHIBITORS

12.50 – 14.00 Lunch

14.00 – 15.30 Poster Session 1

**Sept 9, afternoon**

## **CHIRAL DRUG ANALYSIS**

*Chairpersons: Ivana Cacciatore, Benedetto Natalini*

15.30 – 16.00	KN3	<b>Bezhan Chankvetadze</b> (Tbilisi State University) NEW DEVELOPMENTS IN SEPARATION OF ENANTIOMERS OF CHIRAL DRUGS WITH POLYSACCHARIDE-BASED CHIRAL STATIONARY PHASES
16.00 – 16.20	OC4	<b>Andrea Carotti</b> (University of Perugia) TEICOPLANIN A2-2 BASED CHIRAL STATIONARY PHASE ENANTIOSEPARATION MECHANISM: CARNOSINE ENANTIOMERS AS CASE STUDY
16.20 – 16.40	OC5	<b>Paola Peluso</b> (CNR, Sassari) $\sigma$ -HOLE INTERACTIONS IN HPLC CHIRAL RECOGNITION: A MULTIDISCIPLINARY APPROACH TOWARDS NEW TTR MISFOLDING INHIBITORS

16.40 – 17.00 Coffee Break

**Sept 10, morning**

9.00 - 9.45	PL3	<i>Chairpersons: Ersilia De Lorenzi, Giancarlo Aldini</i>
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**Duncan Graham** (University of Strathclyde)

RAMAN AND SERS SPECTROSCOPY FOR BIOANALYSIS

## BIOANALYSIS

9.45 – 10.15	KN4	<b>Massimo Dondio</b> , (Aphad S.r.l, Milan) 7-HYDROXYMATAIRESINOL: A PK/PD CASE STUDY IN A RODENT MODEL OF PARKINSON'S DISEASE
10.15 – 10.35	OC6	<b>Gabriella Roda</b> (University of Milan) DETERMINATION OF DAPTOMYCIN IN HUMAN PLASMA AND BREAST MILK BY UPLC/MS-MS
10.35 – 10.55	OC7	<b>Michele Dei Cas</b> (University of Milan) LC-MS/MS ANALYSIS TO STUDY SERUM PROFILE OF SHORT AND MEDIUM CHAIN FATTY ACIDS
10.55 -11.05	FC3	<b>Genny Degani</b> (University of Milan) STRUCTURAL AND FUNCTIONAL CHARACTERIZATION OF NOVEL IMINE DEAMINASES (RID) ACTIVE IN PREVENTING METABOLITE DAMAGE
11.05 -11.15	FC4	<b>Ettore Gilardoni</b> (University of Milan) SET UP OF A LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (LC-MS/MS) METHOD FOR THE MEASUREMENT OF SERUM CARNOSINASE ACTIVITY

11.15 – 11.45 Coffee Break

## DRUG ANALYSIS

*Chairpersons: Erika Del Grosso, Adriano Mollica*

11.45 – 12.15	KN5	<b>Sebastiaan Eeltink</b> (Vrije University of Brussels) TOWARDS ULTRA-HIGH-PERFORMANCE SEPARATIONS USING SPATIAL THREE-DIMENSIONAL LIQUID CHROMATOGRAPHY
12.15 – 12.35	OC8	<b>Erwin Adams</b> (University of Leuven) REFERENCE INTRODUCTION STUDY FOR CALIBRATION OF THERMAL DESORBER – GAS CHROMATOGRAPHY

12.35 – 13.45 Lunch

13.45 – 14.45 Poster Session 2

**Sept 10, afternoon**

## **QUALITY CONTROL AND REGULATORY ISSUES**

*Chairpersons: Gabriella Massolini, Antonio Di Stefano*

14.45 – 15.15	KN6	<b>Franca Cattani</b> (Dompè Biotech, L'Aquila) NEW INSIGHT IN THE ANALYTICAL DEVELOPMENT LEADING TO MARKETING AUTHORIZATION OF BIOTECHNOLOGICAL PRODUCTS: A CASE STUDY
15.15 – 15.35	OC9	<b>Shaoping Li</b> (University of Macau) QUALITY CONTROL OF CHINESE MEDICINE
15.35 – 15.55	OC10	<b>Marinella Capuzzi</b> (Italfarmaco, Milan) CHALLENGES AND CURRENT TRENDS ON ANALYTICAL METHODS TRANSFER IN GMP-REGULATED ENVIRONMENTS
15.55 – 16.25	KN7	<b>Gertrud E. Morlock</b> (Justus-Liebig-Universität Gießen) THE COMPLEXITY OF BOTANICALS, FOOD AND OF THE GLOBAL PRODUCT CHAIN - ARE WE ANALYTICALLY ON THE RIGHT TRACK?

16.25 – 16.45 Coffee Break

## **ANTIDOPING ANALYSIS AND COUNTERFEITED DRUGS**

*Chairpersons: Enrica Calleri, Laura Mercolini*

16.45 – 17.05	OC11	<b>Gioacchino Luca Losacco</b> (University of Geneva) IS SFC-MS A VIABLE TOOL IN DOPING CONTROL ANALYSES?
17.05 – 17.25	OC12	<b>Michele Protti</b> (University of Bologna) MICROSAMPLING APPROACHES FOR ANTI-DOPING ANALYSIS OF HORMONES AND GROWTH FACTORS
17.25 – 17.45	OC13	<b>Yaxin Tie</b> (University of Leuven) CHARACTERIZATION AND HAZARD IDENTIFICATION OF SUBSTANDARD AND FALSIFIED ANTIMICROBIALS ENCOUNTERED IN BELGIUM

20.30 Gala dinner

**Sept 11, morning**

## NATURAL PRODUCTS

*Chairpersons: Federica Pellati, Salvatore Genovese*

9.00 – 9.30	KN8	<b>Anna Rita Bilia</b> (University of Florence) DNA BARCODING, NIR, AND SENSORS AS ALTERNATIVE/INTEGRATIVE ANALYTICAL TOOLS FOR QUALITY OF NATURAL PRODUCTS
9.30 – 9.50	OC14	<b>Lina Cossignani</b> (University of Perugia) ANALYTICAL PROFILING AND NUTRACEUTICAL PROPERTIES OF PHENOLIC COMPOUNDS FROM <i>LYCIUM</i> SPP. LEAVES
9.50 – 10.10	OC15	<b>Virginia Brighenti</b> (University of Modena and Reggio Emilia) ANALYTICAL CHARACTERIZATION AND <i>IN VIVO</i> ANTI-OXIDANT ACTIVITY EVALUATION OF <i>PRUNUS AVIUM</i> L. (SWEET CHERRY) FRUIT
10.10 – 10.30	OC16	<b>Ming Quan Guo</b> (Chinese Academy of Science in Wuhan) ASSESSING ANTIMICROBIAL ACTIVITY OF NATURAL PRODUCTS THROUGH IN-SITU HEADSPACE ANALYSIS OF METABOLIC CARBON DIOXIDE OF AEROBIC BACTERIA
10.30 -10.40	FC5	<b>Valentino Russo</b> (South Agro, Bari) AN OPTIMIZED HPLC/UV-VIS METHOD FOR THE SCREENING OF MOLECULES WITH BIO-STIMULANT EFFECTS IN SEaweEDS FROM MEDITERRANEAN SEA
10.40 -10.50	FC6	<b>Marco Corti</b> (University of Pavia) ISOLATION AND CHARACTERIZATION OF NIGRACIN, A POLIOTHRYOSIDE RESPONSIBLE FOR THE WOUND HEALING ACTIVITY OF <i>DRYPETES KLAINI</i>
10.50 – 11.10 Coffe Break		
11.10 -11.30	OC17	<b>Immacolata Faraone</b> (University of Basilicata in Potenza) <i>MINTHOSTACHYS DIFFUSA</i> EPLING: A NEW SOURCE OF HEALTH PROMOTING BIOMOLECULES WITH ANTIOXIDANT, ANTIDIABETIC AND ANTI-CHOLINESTERASE EFFECTS
11.30 -11.50	OC18	<b>Snezana Agatonovic-Kustrin</b> (La Trobe University) MEDITERRANEAN HERBS WITH MULTIPLE HEALTH EFFECTS

11.50 – 12.10	OC19	<b>Nicola Marchetti</b> (University of Ferrara) INTEGRATED METHODS FOR EXTRACTION AND VALORIZATION OF BIOACTIVE AND HIGH ADDED-VALUE MOLECULES FROM AGRI-FOOD WASTES AND BY-PRODUCTS
12.10 – 12.20	FC7	<b>Serena Fiorito</b> (University of Chieti-Pescara) OXYPRENYLATED SECONDARY METABOLITES ANALYSIS IN PLANT FOODS
12.20 – 13.00	PL4	<b>Jean Luc Wolfender</b> (University of Geneva) HOW FAR DEEP CAN WE DECIPHER THE COMPOSITION OF COMPLEX NATURAL EXTRACTS WITH ADVANCED GENERIC METABOLITE PROFILING METHODS?

13.00 -13.30 Closing remarks