



May 25 - 27, 2016

S. Palomba - Roma



9th MS PHARMADAY

SCIENTIFIC PROGRAMME

BOOK OF ABSTRACTS

Angelini, Pomezia

May 25 – 27, 2016

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SCIENTIFIC PROGRAMME

WEDNESDAY, MAY 25, 2016

2:00 p.m.	Registration
2:30 p.m.	Welcome addresses
3:00 p.m.	Session 1: Quali & quantitative analysis of complex matrices <i>Chairpersons: Marcello Marchetti, Elena Demetrio</i>
3:00 p.m. – 3:30 p.m. PL1	NEW FRONTIERS FOR HRMS IN REGULATED ENVIRONMENT Valentina Renzi, Marcello Marchetti, <u>Fabio Garofolo</u> Angelini, Pomezia (Italy)
3:30 p.m. – 3:45 p.m. OR1	CHEMICAL STABILITY STUDIES OF PROPARGYLAMINE-CONTAINING DRUGS <u>Rossana Canavesi</u> , Silvio Aprile, Erika Del Grosso, Giorgio Grosa <i>Department of Pharmaceutical Sciences, Università del Piemonte Orientale, Novara (Italy)</i>
3:45 p.m. – 4:05 p.m. KN1	TOTAL CONFIDENCE IN BIOLOGICS – CHARACTERIZATION AND HOST CELL PROTEIN ANALYSIS FOR ALL STAGES OF DEVELOPMENT Milla Neffling <i>SCIEX</i>
4:05 p.m. – 4:20 p.m. OR2	STUDY OF NAMPT ACTIVITY IN MELANOMA CELLS BY LC-ESI-MSⁿ ANALYSES <u>Michele Bianchi</u> , Ambra A. Grolla, Roberta Bellini, Armando A. Genazzani, Giuseppe Orsomando, Erika Del Grosso <i>Department of Pharmaceutical Sciences, Università del Piemonte Orientale, Novara, (Italy)</i>

4:20 pm – 4:35 p.m. OR3	GC-MS INVESTIGATION OF CATALYTIC HYDROGENATION OF 4-NITROPHENYL ACETIC ACID TO 4-AMINOCYCLOHEXYL ACETIC ACID: IDENTIFICATION AND STRUCTURAL CHARACTERIZATION OF INTERMEDIATES AND BY-PRODUCTS <u>C. Scapolla</u> , D. Giribone, S. Venegoni, D. Gigante, B. Romanò, G. Barreca <i>Chemessentia, Novara (Italy)</i>
4:35 p.m. – 4:50 p.m. OR4	DEVELOPMENT OF A LC-MS-MS METHOD FOR THE SIMULTANEOUS DETERMINATION OF NATURAL STEROIDAL HORMONES AND SYNTHETIC ANABOLIC STERIODS IN EQUINE AND BOVINE BLOOD MATRIX <u>M. Genangeli</u> , G. Caprioli, M. Cortese, R. Petrelli, G. Sagratini, S. Vittori <i>School of Pharmacy, University of Camerino, Camerino (Italy)</i>
4:50 p.m. – 5:05 p.m. OR5	TENDENZE CROMATOGRAFICHE PER LA PURIFICAZIONE E LA SEPARAZIONE HPLC e UHPLC-MS IN BA/DMPK Andrea Gheduzzi <i>Phenomenex, Castel Maggiore (BO, Italy)</i>
5:05 p.m. – 5:45 p.m.	Welcome cocktail

THURSDAY, MAY 26, 2016

9:30 a.m.	Session 2 – Omics approaches by mass spectrometry <i>Chairpersons: Vincenza Andrisano, Donatella Caruso</i>
9:30 a.m. – 10:00 a.m. PL2	INTEGRATION OF TRANSCRIPTOMICS AND METABOLOMICS FOR THE STUDY OF PERIPHERAL NEUROPATHY <u>Nico Mitro</u> , Gaia Cermenati, Roberto Spezzano, Flavio Giavarini, Donatella Caruso <i>Department of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano (Italy)</i>
10:00 a.m. – 10:15 a.m. OR6	QUANTITATIVE ANALYSIS OF DYSREGULATED PROTEOME IN METHYLMALONIC ACIDEMIA <u>M. Costanzo</u> , M. Caterino, G. Minopoli, L. Santorelli L., M. Ruoppolo <i>CEINGE - Biotechnologie Avanzate, Naples (Italy)</i>
10:15 a.m. – 10:30 a.m. OR7	APPLICATION OF ESI-MS METHOD FOR DETAILED CHARACTERIZATION OF GSK3-β INHIBITORS BY MONITORING GSM PEPTIDE PHOSPHORYLATION <u>Angela De Simone</u> , Marina Naldi, Andrea Milelli, Vincenza Andrisano <i>Department for Life Quality Studies, Alma Mater Studiorum-University of Bologna, Rimini (Italy)</i>
10:30 a.m. – 10:45 a.m. OR8	MASS SPECTROMETRY BASED CHARACTERIZATION OF HSA AS BIOMARKER AND PHARMACOLOGICAL TREATMENT OF OXIDATIVE STRESS RELATED DISEASES <u>Marina Naldi</u> , Maurizio Baldassarre, Marco Domenicali, Jonathan Montomoli, Thomas Damgaard Sandahl, Emilie Glavind, Hendrik Vilstrup, Paolo Caraceni, Carlo Bertucci <i>Department of Pharmacy and Biotechnology, University of Bologna (Italy)</i>

10:45 a.m. – 11:20 a.m.	Poster session , Coffee break
11:20 a.m.	Session 2 - Omics approaches by mass spectrometry (Contd.) <i>Chairpersons: Marina Carini, Sauro Vittori</i>
11:20 a.m. – 11:40 a.m. KN2	A MATTER OF FAT: LIPIDOMICS APPLICATIONS IN HUMAN BLOOD AND SKIN <u>Marica Orioli</u> , Guido Mastrobuoni, Chris Bielow, Marina Carini, Stefan Kempa <i>Department of Pharmaceutical Sciences, Università degli Studi di Milano, Milano (Italy)</i>
11:40 a.m. – 11:55 a.m. OR9	ADVANCED ANALYTICAL APPROACH FOR THE QUALITY CONTROL OF PURIFIED BOVINE COLOSTRUM AS FOOD SUPPLEMENT <u>A. Altomare</u> , E. Fasoli, M. Colzani, M. Carini, P. G. Righetti, G. Aldini <i>Department of Pharmaceutical Sciences, Università degli Studi di Milano, Milano (Italy)</i>
11:55 a.m.	Session 3 – Bioanalysis <i>Chairpersons: Fabio Garofolo, Giuliana Bianco</i>
11:55 a.m. – 12:25 p.m. PL3	MICROSAMPLING – CHALLENGES FOR LC-MS BIOANALYSIS Neil Spooner <i>Spooner Bioanalytical Solutions Ltd & University of Hertfordshire (UK)</i>
12:25 p.m. – 12:45 p.m. KN3	EFFICIENT AND ROBUST WORKFLOW SOLUTION FOR BIOANALYSIS OF THERAPEUTIC MONOCLONAL ANTIBODY IN PRE-CLINICAL MODELS <u>Ravindra Chaudhari</u> , Kwasi Antwi, Amanda Ribar, Urban A. Kiernan, Eric Niederkofler <i>Thermo Fisher Scientific, Hemel Hempstead (UK)</i>

12:45 p.m. – 1:05 p.m. KN4	LC-MS BASED APPROACHES IN THE ELUCIDATION OF DRUG METABOLITES Antonio Triolo <i>Menarini Ricerche Spa, Firenze (Italy)</i>
1:05 p.m.	Buffet lunch
2:30 p.m.	Session 4 - Biopharmaceutical & biotherapeutics <i>Chairpersons: Gabriella Massolini, Gianluca Bartolucci</i>
2:30 p.m. – 3:00 p.m. PL4	METHOD DEVELOPMENT FOR CLINICAL AS WELL AS BIOPHARMACEUTICAL GLYCOSYLATION ANALYSIS Karli Reiding, Albert Bondt, Stephanie Holst, Rosina Plomp, Noortje de Haan, Bas Jansen, Kathrin Stavenhagen, Florent Clerc, Carolien Koeleman, Agnes Hipgrave Ederveen, Gerda Vreeker, Rabah Gahoual, Simone Nicolardi, Viktoria Dotz, Yuri van der Burgt, David Falck, Yoann Rombouts, <u>Manfred Wuhrer</u> <i>Center for Proteomics and Metabolomics, Leiden University Medical Center, Leiden (The Netherlands)</i>
3:00 p.m. – 3:15 p.m. OR10	DITHIOCARBAMATES AND MONOTHIOCARBAMATES SHOW HIGH AFFINITY AGAINST CARBONIC ANHYDRASES IN VITRO. MEDICINAL CHEMISTRY AND NATIVE STATE MASS SPECTROMETRY IMPLICATIONS <u>Fabrizio Carta</u> , Gianluca Bartolucci, Daniela Vullo, Andrea Scozzafava, Claudiu T. Supuran <i>Università degli Studi di Firenze, Laboratorio di Chimica Bioinorganica, Sesto Fiorentino (Florence, Italy)</i>
3:15 p.m. – 3:35 p.m. KN5	BIOPHARMA: WATERS SOLUTION FOR REGULATED MASS SPECTROMETRY LABORATORY REQUESTS Andrea Perissi <i>Waters S.p.A., Milan (Italy)</i>

3:35 p.m. – 4:05 p.m. PL5	ANTIBODY DRUG CONJUGATES AND MASS SPECTROMETRY: A POWERFUL ALLIANCE FOR THE DEVELOPMENT OF AN EMERGING CLASS OF BIOTHERAPEUTICS Sonia Troiani <i>Discovery Research Oncology, Nerviano Medical Science, Nerviano (MI, Italy)</i>
4:15 p.m.	Guided Tour of Abbazia
8:30 p.m.	Social dinner

FRIDAY, MAY 27, 2016

9:30 a.m.	Session 5: xPLC-MS: state-of-the-art & innovations <i>Chairpersons: Fulvio Magni, Silvana Olivieri</i>
9:30 a.m. – 10:10 a.m. PL6	LIQUID CHROMATOGRAPHY - MASS SPECTROMETRY: WHERE WE ARE NOW AND WHERE WE ARE GOING. (A perfect troubled marriage II) <u>Federico Riccardi Sirtori</u> , <u>Francesco Gasparrini</u> <i>Nerviano Medical Sciences & Sapienza, Università di Roma</i>
10:10 a.m. – 10:30 a.m. KN6	APPLICATION OF HIGH-RESOLUTION MASS SPECTROMETRY TO QUALITATIVE AND QUANTITATIVE ANALYSIS IN DMPK STUDIES <u>Simone Esposito</u> , Fabio Bonelli <i>IRBM Science Park, Pomezia (RM, Italy)</i>
10:30 a.m. – 11:00 a.m.	Coffee break

11:00 a.m.	Session 6 : Plants, nutraceutics <i>Chairpersons: Luisa Mattoli, Francesco Gasparri</i>
11:00 a.m. – 11:30 a.m. PL7	IN SILICO ANALYSIS OF GENE EXPRESSION AND METABOLOMICS-BASED COMPOSITION DATA PROVIDES MECHANISTIC INSIGHTS INTO THE MODE OF ACTION OF COMPLEX SUBSTANCE: THE ANTI-MESOTHELIOMA ACTIVITY OF A FRACTION OF CYNARA SCOLYMUS EXTRACT <u>Nitin Sharma</u> , Claudio Pulito, Günter Klambauer, Luisa Mattoli, Sabrina Strano, Giovanni Blandino, Jacopo Lucci, Andreas Bender <i>Centre for Molecular Science Informatics, Department of Chemistry, University of Cambridge, Cambridge (UK)</i>
11:30 a.m. – 11:45 a.m. OR11	USING NMR AND MS IN PLANTS MEDICINE AND NUTRACEUTICS: THE EXAMPLE OF MENTHA AQUATICA L. <u>Claudio Frezza</u> , Alessandro Venditti, Diana Celona, Fabio Sciubba, Ilaria Serafini, Livia Lombardi, Alessandro Ciccòla, Marcella Guiso, Sebastiano Foddai, Armandodoriano Bianco, Mauro Serafini <i>Dipartimento di Biologia Ambientale, Università di Roma “La Sapienza”, Rome (Italy)</i>
11:45 a.m. – 12:00 p.m. OR12	STRUCTURAL CHARACTERIZATION OF SOYASAPONINS INVESTIGATED BY IRMPD-FTICR-MS <u>Cecilia Francesca Carbone</u> , Alessandro Buchicchio, Raffaella Pascale, Tommaso R.I. Cataldi, Giuliana Bianco <i>Dipartimento di Scienze, Università degli Studi della Basilicata, Potenza (Italy)</i>
12:00 p.m.	Open discussion: MS in pharma. State-of-the- art, innovations, perspectives
12:30 p.m.	Concluding remarks & Arrivederci!!
12:45 p.m.	Farewell Cocktail

POSTER LIST

P1	IN VITRO AND IN VIVO METABOLISM OF SYNTHETIC ISOFLAVONIDS METHOXYISOFLAVONE AND IPRIFLAVONE: IMPLICATIONS IN DOPING ANALYSIS <u>Michele Iannone</u>, Francesco Botrè, Daniel Jardines, Silvia Parenti, Xavier de la Torre <i>Dipartimento di Chimica e Tecnologia del Farmaco, "Sapienza" Università di Roma, Roma (Italy)</i>
P2	IDENTIFICATION AND STRUCTURAL CHARACTERIZATION OF POLAR METABOLITES OF BRASSICA OLERACEA VAR. ACEPHALA IN DRY SEED AND PLANTLET BY MASS SPECTROMETRY <u>Edoardo Cherubini</u>, Lucia Giorgetti, Lorenza Bellani, Vincenzo Longo <i>VisMederi Life Sciences srl, Siena (Italy)</i>
P3	SYNTHESIS OF AN ENTEROKINASE-IMMOBILIZED ENZYME REACTOR TO OPTIMIZE THE PRODUCTION OF A GLYCOCONJUGATE VACCINE AGAINST TUBERCULOSIS <u>F. Rinaldi</u>, S. Tengattini, C. Temporini, T. Bavaro, L. Piubelli, M. Terreni, E. Calleri, G. Massolini <i>Department of Drug Sciences and Italian Biocatalysis Center (IBC), University of Pavia, Pavia, (Italy)</i>
P4	α-1-ANTITRYPSIN DETECTED BY MALDI-IMAGING IN THE STUDY OF GLOMERULONEPHRITIS: ITS RELEVANCE IN CHRONIC KIDNEY DISEASE PROGRESSION Manuel Galli, Vincenzo L'Imperio, Andrew Smith, Clizia Chinello, Martina Stella; Niccolò Mosele, Gabriele De Sio, Italo Zoppis, Fabio Pagni, <u>Fulvio Magni</u> <i>Università Milano Bicocca, Monza (Italy)</i>

P5	SHIMADZU NEW TECHNOLOGIES & INNOVATION <u>D.G. Vecchiotti</u> , V. Mainini, S.Scotti, D. Van den Heuvel <i>Shimadzu Italia, Milan (Italy)</i>
P6	SCREENING OF SYNTHETIC INHIBITORS OF PDE-5 IN DIETARY SUPPLEMENTS BY LC–MS/MS <u>Gabriele Vannutelli</u> , Camilla Montesano, Flaminia Vincenti, Manuel Sergi, Eleonora Bafile, Roberta Curini <i>Sapienza University of Rome, Department of Chemistry, Rome (Italy)</i>