



@ Aboca – Sansepolcro

September 21st - 22nd, 2015

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CONFERENCE SECRETARIAT

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The 1st MS-*A*tMedDay conference is kindly supported and sponsored by:



SCIENTIFIC PROGRAM

Monday September 21st, 2015

12:00 Shuttle bus from the Arezzo railway station

11:30-14:30 Registration

13:00-14:30 Lunch @ ABOCA

14:30-15:00 **WELCOME & OPENING REMARKS**

Chairman: Gianluca Giorgi

Valentino Mercati (Aboca President)

Luisa Mattoli (1st MS NatMedDay Chair)

15:00-15:40 PL1 **PHYTOTHERAPY: ART AND/OR SCIENCE?
MULTIDISCIPLINARY APPROACHES FOR ITS STUDY**

P. Traldi, V. Mercati

IENI CNR, Padova, Italy

Session 1 - Supramolecular studies

Chairman:

15:40-16:20 PL2 **SUPRAMOLECULAR MASS SPECTROMETRY:
ASSOCIATION OF MASS SPECTROMETRY METHODS TO
COMPUTATIONAL CHEMISTRY TO ACCESS, AT A
MOLECULAR LEVEL, SYSTEMS RELEVANT TO HOST-
GUEST CHEMISTRY**

P. Gerbaux, G. Carroy, V. Lemaux, J. De Winter, J. Cornil

Université de Mons, Belgium

Session 2 – Biological studies and pharmacokinetics

Chairman:

16:20-16:40 OC1 **IDENTIFICATION AND QUANTIFICATION OF
GLUCOSINOLATES IN DIFFERENT TISSUES OF
RAPHANUS RAPHANISTRUM BY MASS SPECTROMETRY**

M. Maldini, M. Foddai, F. Natella, G. Petretto, M. Chessa, G.

Pintore

Department of Chemistry and Pharmacy, University of Sassari, Italy

16:40-17:30 Poster Session - coffee break

17:30 *End of session*

Shuttle bus to Aboca Museum in Sansepolcro: guided tour

20:00 Social Dinner

Tuesday September 22nd, 2015

Session 3 - Metabolomics

Chairman:

- 9:00-9:40 PL3 **CHEMICAL CHARACTERISATION OF PLANTS USING NMR-BASED METABOLOMICS: ITS PROS AND CONS COMPARED WITH MS-BASED METHOD**
Y. H. Choi
Leiden University, The Netherlands
- 9:40-10:20 PL4 **APPLICATION OF LC-MS BASED PLANT METABOLOMICS AND BIOMETRIC ANALYSIS FOR THE IDENTIFICATION OF ACTIVE CONSTITUENTS IN MEDICINAL PLANTS**
S. Ortmann, M. Monschein, E. Maria P.-Wenzig, C. Huber, E. Heiss, C. Malainer, A. G. Atanasov, J. Hartler, Y.-M. Zhao, J.-H. Miao, G. G. Thallinger, V. Dirsch, R. Bauer
Karl-Franzens-Universitaet, Graz, Austria
- 10:20-10:40 OC2 **METABOLOMIC ANALYSIS OF NATURAL COMPLEX PRODUCTS: UNTARGETED VS TARGETED APPROACHES BY MEANS OF MASS SPECTROMETRY**
S. Tamimi, L. Mattoli, M. Burico, G. Fodaroni, A. Gaetano, S. Bedont, S. Propersi, P. Traldi, E. Ragazzi, M. Stocchero
Aboca Società Agricola Spa, Sansepolcro, Italy
- 10:40-11:15 Poster Session - coffee break

Session 4 - MS and MS/MS studies

Chairman:

- 11:15-11:55 PL5 **LC-ESI-MS AND LC-MS-MS FOR THE ANALYSIS OF HERBAL DRUG PREPARATIONS**
A. R. Bilia
Department of Chemistry "Ugo Schiff", University of Florence, Sesto Fiorentino, Italy
- 11:55-12:15 OC3 **STUDY OF NATURAL COMPOUNDS OF ROSMARINUS OFFICINALIS AS ADDITIVES IN FOOD ACTIVE PACKAGING**
V. Sirocchi, G. Sagratini, M. Ricciutelli, M. M. Coman, C. Cecchini, G. Caprioli, S. Vittori
University of Camerino, School of Pharmacy. Camerino Italy

- 12:10-12:25 OC4 **CHINESE ASTRAGALUS ROOT EXTRACTS: A CASE STUDY**
M. Menicatti, G. Bartolucci
NEUROFARBA, University of Florence, Sesto F.no, Italy
- 12:25-12:40 OC5 **SOYASAPONINS WITH HYPOCHOLESTEROLEMIC ACTIVITY IN TRADITIONAL FAGIOLI DI SARCONI BEANS INVESTIGATED BY LC-ESI-IRMPD-FTICR-MS**
G. Bianco, A Buchicchio, T. R.I. Cataldi, C. F. Carbone, R. Pascale
University of Basilicata, Potenza, Italy
- 12:40-13:00 Concluding Remarks
End of session
- 13:00-14:30 Lunch @ ABOCA
- 14:30 *Shuttle bus for a guided tour of the production facility and laboratories at the headquarters of Aboca in Pistrino*
- 16:30 Shuttle bus to the Arezzo railway station

POSTER COMMUNICATIONS

- P1 **ANALYSIS OF THE SPONTANEOUS VOLATILE EMISSION OF DIFFERENT AERIAL PARTS OF CAPER (CAPPARIS SPINOSA L.)**
R. Ascrizzi, P. L. Cioni, G. Flamini
Dipartimento di Farmacia, Università di Pisa (Italy)
- P2 **CHARACTERIZATION OF BIOACTIVE COMPOUNDS OBTAINED FROM ABRUZZO AUTOCHTHONOUS PLANTS WITH ANTIOXIDANT AND ANTIMICROBIAL ACTIVITIES**
M. Pellegrini, A. Ricci, C. Lo Sterzo, G. Mazzarrino, S. D'Amato, A. Serio, A. Paparella
Faculty of Biosciences, Food and Environmental Technologies, University of Teramo (Italy)
- P3 **POLYPHENOLS PROFILE OF GENETICALLY MODIFIED TOMATO Del/Ros1-N USING LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (UPLC-Q-TOF)**
F. Giusti, S. Achterfeldt, M. Philo, I. Colquhoun, M. Genangeli, S. Vittori, G. Sagratini, G. Le Gall, P. A Kroon
University of Camerino, School of Pharmacy. Via S. Agostino, n° 1, Camerino (Italy)
- P4 **PROBING INTRINSIC PROPERTIES OF BIOMOLECULES IRMPD SPECTROSCOPY OF BARE PROTONATED PANTOTHENIC ACID**
D. Corinti, B. Chiavarino, S. Fornarini, M. E. Crestoni
Università di Roma "La Sapienza", Roma (Italy)
- P5 **STUDY OF THE QUALITY AND BIOACTIVITY OF WILD AND CULTIVATED GREEK ORIGANUM VULGARE L. SUBSP. HIRTUM**
V. Nanni, A. Gismondi, A. Canini
Department of Biology, University of Rome "Tor Vergata", Rome (Italy)
- P6 **STUDY ON THE POLAR FRACTION OF AN EUROPEAN MUSHROOM: SUILLUS BELLINII (INZENGA) KUNTZE**
C. Frezza, A. Venditti, F. Sciubba, L. Lombardi, I. Serafini, A. Ciccola, M. Guiso, M. Serafini, A. Bianco
Dipartimento di Chimica, Università di Roma "La Sapienza", Roma (Italy)