



**“METABOLOMIC APPROACHES: ADVANCED ANALYTICAL TOOLS”**  
**Padua, 10-11 November 2014**

**Sede: CNR - Area della Ricerca di Padova Corso Stati Uniti, 4 - 35127 Padova**

**Programma**

**Monday 10 november 2014**

10:00-11:00 **Registration**

11:00-11:30 **Welcome and Introduction to the workshop**

*Silvia Catinella*

IMaSS President

*Andrea Camporese, Fochesato Stefania*

Istituto della Ricerca Pediatrica (IRP) Città della Speranza

*Giorgio Perilongo, Eugenio Baraldi*

Dipartimento di Salute della Donna e del Bambino (SDB)

**Chairman:** *Eugenio Baraldi, Giuseppe Giordano, Enrico Davoli, Lino Chiandetti*

11:30-12:30 **“NMR AND MS-BASED METABOLIC PROFILING IN SYSTEMS MEDICINE”**

*Anisha D, Wijeyesekera*

12:30-12:45 **M1-GUT MICROBIOTA METABOLOME IN PEDIATRIC DISEASES**

*Pamela Vernocchi*

12:45-13:00 **M2-METABOLOMIC APPROACH TO THE STUDY OF ALLERGIC DISEASE  
IN PEDIATRIC RESEARCH**

*Irene Costa*

13:00-14:00 **Lunch**

14:00-15:00 **Assemblea soci IMASS**

**Chairman:** *Pietro Traldi, Enrico Davoli*

15:00-15:45 **"METABOLOMICS: ONLY SUITABLE FOR MULTIDISCIPLINARY TEAMS"**  
*Oscar Yanes*

15:45-16:00 **M3-A SUCCESSFUL METABOLOMICS STUDY: FROM BENCH TO BEDSIDE  
IN POST-CARDIAC ARREST**  
*Roberta Pastorelli*

16:00-16:15 **M4-METABOLOMICS OF GRAPE BERRY POSTHARVEST WITHERING**  
*Flavia Guzzo*

16:15-16:30 **M5-Shimadzu: "ASSESSMENT OF SAMPLE PREPARATION STRATEGIES  
FOR FAST GAS CROMATOGRAPHY-MASS SPECTROMETRY  
BASED "METABOLOMICS STUDIES"**  
*Stefano Dugheri*

16:30-16:45 **M6-METABOLOMIC PROFILE OF NEURAL STEM/PRECURSOR CELLS (NPCS)  
UNDER INFLAMMATION: IMPLICATIONS FOR THE DISCOVERY OF NOVEL  
MECHANISMS OF THE NEURO-IMMUNE CROSS TALK**  
*Denise Drago*

16:45-17:00 **M7-EFFECT OF K-RAS SPECIFIC MUTATIONS ON METABOLIC FINGERPRINTS  
IN LUNG CANCER CELLS: IMPLICATIONS FOR SUSCEPTIBILITY TO  
ANTICANCER TREATMENTS**  
*Laura Brunelli*

17:00-17:15 **Coffee break**

**Chairman:** *Roberta Pastorelli, Giuseppe Pieraccini*

17:15-17:30 **M8-A TARGETED LIPIDOMICS ANALYSIS TO STUDY  
NEURODEGENERATIVE DISORDERS**  
*Ruggero Ferrazza*

17:30-17:45 **M9-Waters: NOVEL BIOINFORMATICS TOOLS FOR METABOLOMICS AND LIPIDOMICS USING ION MOBILITY-MS**

*Giuseppe Astarita*

17:45-18:00 **M10-ADDING COORDINATES TO THE METABOLOME: ION MOBILITY DERIVED COLLISION CROSS SECTIONS**

*Giuseppe Paglia*

18:15 **Departure to down town**

19:30 **Happy Hour (Caffè Pedrocchi)**

**Tuesday 11 november 2014,**

**Chairman:** *Pietro Franceschi, Valentina Mileo*

9:00-10:00 **"METABOLOMICS, BIOINFORMATICS AND STATISTICS: THREE SIDES OF THE SAME COIN"**

*Wehrens Ron*

10:00-10:15 **T1-METABOLOMIC PROFILE IN INTRAUTERINE GROWTH RESTRICTION FETUSES**

*Marianna Tucci*

10:15-10:30 **T2-MARKERS OF ENDOTHELIAL DAMAGE AND METABOLOMIC PROFILE IN MONOCHORIONIC TWIN PREGNANCIES WITH SELECTIVE INTRAUTERINE GROWTH RESTRICTION**

*Marianna Tucci*

10:30-10:45 **T3-NMR SPECTROSCOPY FOR METABONOMICS: A POWERFUL TOOL FOR BIOMARKERS INVESTIGATIONS.**

*Debora Paris*

10:45-11:15 **Coffee break**

**Chairman:** *Silvia Catinella, Riccardo Zecchi*

- 11:15-12:15 **“CHEMOMETRICS IN NMR BASED METABOLOMICS:  
DATA PRE-TREATMENT AND PROJECTION METHODS”**  
*Stocchero Matteo*
- 12:15-12:30 **T4-TARGETED LIPIDOMICS PROFILE AND NMR METABOLOMICS  
OF INJURED MOUSE BRAIN**  
*Fabiana Piscitelli*
- 12:30-12:45 **T5-METABOLOMIC ANALYSIS FOR THE STUDY OF THE FREQUENT  
WHEEZING IN PRE-SCHOLAR CHILDREN**  
*Paola Pirillo*
- 12:45-13:00 **T6-Biocrates: STANDARDIZED METABOLIC PHENOTYPING SOLUTIONS  
FOR BIOMARKER RESEARCH IN MULTIFACTORIAL DISEASES**  
*Stefan Ledinger*
- 13:00-14:00 **Lunch**
- Chairman:** Enrico Davoli, Marco Roverso
- 14:00-14:15 **T7-Thermo: METABOLOMIC PROFILING OF ANIONIC METABOLITES  
IN ORAL CANCER CELLS BY CAPILLARY ION CHROMATOGRAPHY  
HR/AM MASS SPECTROMETRY**  
*Marc Günder*
- 14:15-14:30 **T8-ABSOLUTE REAL-TIME ETHYLENE AND FURANEOL DETECTION  
WITH PTR/SRI-MS**  
*A. Algarra Alarcon*
- 14:30-14:45 **T9-A NEW METHODOLOGY FOR QTL ANALYSIS OF FRUIT VOLATILE  
SECONDARY METABOLITES BY PTR-TOF-MS COUPLED TO DATA MINING**  
*Luca Cappellin*
- 14:45-15:00 **T10-A FAST LC-MS METHODOLOGY FOR MEMBRANE LIPID  
PROFILING THROUGH HILIC CHROMATOGRAPHY**  
*Andrea Anesi*

15:00-15:15 **T11-Agilent:** MASS PROFILER PROFESSIONAL FOR BIOMARKERS DISCOVERY:  
LC-QTOF AND ION MOBILITY SYSTEM FOR CLINICAL AND FOOD APPLICATIONS  
*Nicola Cimino*

15:15-15:30 **T12-EXPLORING METABOLOMIC SIGNATURES OF ALTERED METABOLISM  
IN BREAST CANCER CELL**  
*Maria José Caramujo*

15:30-15:45 **T13**

15:45-16:00 **T14**

**Chairman:** *Pietro Franceschi, Enrico Davoli, Giuseppe Pieraccini*

16:00-17:00 **Group discussion**

17:00-17:10 **Closing Remarks**

17:10 **Coffee break**

**un evento  
organizzato da**



**BIOMEDIA**  
La condivisione del sapere