



**UNIVERSITÀ
DEL SALENTO**

Conference hall of the Rectorate
Via Tancredi, 7 - Lecce

**New frontiers in systems biology:
technological, computational
and biological aspects**

Lecce, June 11th 2018

Workshop organizer

Daniele Vergara

ORGANIZING COMMITTEE

Capobianco Loredana

Danieli Antonio

De Riccardis Lidia

Ferramosca Alessandra

Fournier Isabelle

Franck Julien

Giudetti Anna

Lunetti Paola

Maffia Michele

Ragusa Andrea

Salzet Michel

Verri Tiziano

Program at Glance

MONDAY 11 JUNE

Conference hall of the Rectorate

08:30 – 9:00 **Opening**

SESSION I: SYSTEMS BIOLOGY - biological aspects

9:00 – 9:30 **Shedding new light on Spinal Cord and Trauma Brain Injury**

Michel Salzet

9:30 – 10:00 **Exosome-based immunomodulation during aging: a nano-perspective on inflamm-aging**

Massimiliano Bonafè

10:00 – 10:30 **Inflamm-ageing and the RNA:DNA hybrid degrading enzyme RNaseH2 expression in people of different ages**

Gianluca Storci

10:30 – 11:00 **Proteomics characterization of sorted extracellular microvesicles from cerebrospinal fluid and tears of Multiple Sclerosis patients**

Damiana Pieragostino

11:00 – 11:30 **Trop-2 in cancer progression: from membrane signaling to exosome functions**

Marco Trerotola

SESSION II: SYSTEMS BIOLOGY – technological and computational aspects

11:30 – 12:00 **Spatially-resolved top down proteomics bridged to MALDI MS Imaging reveals evidence of a ghost proteome**

Julien Franck

12:00 – 12:30 **Amazing SPiderMass tracing the future of intra-operative surgery**

Isabelle Fournier

12:30 – 13:00 **A structural approach to the development of ERQC inhibitors with therapeutic potentials**

Pietro Roversi

13:00 – 13:30 **Multifaceted physical chemical approaches in sensing of targeted analytes**

Simona Bettini

13:30 – 14:00 **NMR-based metabolomics for the analysis of clinical samples**

Andrea Ragusa

14:00 **Closing of the Workshop**

New frontiers in system biology: technological, computational and biological aspects

Conference hall of the Rectorate of the University of Salento

Monday June 11th 2018

08:30 – 9:00 **Opening**
Luigi de Bellis, University of Salento

Daniele Vergara, University of Salento

SESSION I: SYSTEMS BIOLOGY - biological aspects

Session chairs: **Loredana Capobianco, Alessandra Ferramosca**

09:00 – 9:30 **Shedding new light on Spinal Cord and Trauma Brain Injury**
Michel Salzet
Laboratoire de Protéomique, Réponse Inflammatoire, Spectrométrie de Masse (PRISM), Université Lille, Villeneuve d'Ascq, France

9:30 – 10:00 **Exosome-based immunomodulation during aging: A nano-perspective on inflamm-aging**
Massimiliano Bonafè
Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori IRCCS, Meldola, Italy

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Gianluca Storci
University of Bologna, Italy

10:30 – 11:00 **Proteomics characterization of sorted extracellular microvesicles from cerebrospinal fluid and tears of Multiple Sclerosis patients**
Damiana Pieragostino
University "G. d'Annunzio" of Chieti-Pescara, Chieti, Italy

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Marco Trerotola
University "G. d'Annunzio" of Chieti-Pescara, Chieti, Italy

SESSION II: SYSTEMS BIOLOGY – technological and computational aspects

Session Chairs	Michele Maffia, Anna Maria Giudetti
11:30 – 12:00	Spatially-resolved top down proteomics bridged to MALDI MS Imaging reveals evidence of a ghost proteome <i>Julien Franck</i> <i>Laboratoire de Protéomique, Réponse Inflammatoire, Spectrométrie de Masse (PRISM), Université Lille, Villeneuve d'Ascq, France</i>
12:00 – 12:30	Amazing SPiderMass tracing the future of intra-operative surgery <i>Isabelle Fournier</i> <i>Laboratoire de Protéomique, Réponse Inflammatoire, Spectrométrie de Masse (PRISM), Université Lille, Villeneuve d'Ascq, France</i>
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14:00	Closing of the Workshop