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Data integration

Muriel Bonnet

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MANNA
European Joint Doctorate in Molecular Animal Nutrition

MANNA SUMMER SCHOOL IN OMICS

22-24 JULY, 2019



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ORGANISED BY

MANNA consortium for
MANNA PhD students

.....

OPEN TO

Master students, PhD and
Post Docs working in the
area of animal and veterinary
sciences

.....

VENUE

Campus of the University of
Milan in Lodi

Advanced Biotechnology applied to Animal Health and Nutrition

The MANNA Summer School In OMICS
will provide insights into OMICS
applied to animal nutrition.

✉ phd4manna@glasgow.ac.uk or chiara.mariani@unimi.it



Advanced Biotechnology applied to Animal Health and Nutrition
Università degli Studi di Milano - Facoltà Veterinaria di Leoni

PROGRAM

July 22nd, 2019

Transcriptomics

hr. 9.30

Registration: Room L114

hr. 10.00

Transcriptomics

Basic principles and application for long and small RNA sequence determination and analysis.



Elena Castiglioni, Institute of Agricultural Biology and Biotechnology - National Research Council (IBBA-CNR)

hr. 14.00

Case studies

A list of published studies, with example of experimental designs, focused on Transcriptomics applied to veterinary and animal sciences.



Paolo Ciaramelli, Institute of Agricultural Biology and Biotechnology - National Research Council (IBBA-CNR)

hr. 15.30

Case studies

Transcriptomics analysis applied to miRNA.

Fabrizio Cecilian, Department of Veterinary Medicine, Università degli Studi di Milano



..... **hr. 19.00 Joint Dinner**

MANNA Summer School in OMICS

The MANNA Summer School in OMICS will provide insights into OMICS applied to animal nutrition. The course targets mainly MANNA students, aiming to train them for activities scheduled for the second year of their PhD program, but also to master students of the second year of

biotechnological or veterinary/animal science related disciplines, as well as other PhD students and Post Docs from Universities, Research Institutes and Industries who aim to widen their horizons in OMICS



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PROGRAM

July 23rd, 2019

Proteomics and Metabolomics



hr. 9.00

Proteomic techniques

Basic approaches and potential applications in veterinary and animal sciences.

Maria Filippa Addis, Department of Veterinary Medicine, Università degli Studi di Milano, Italy



hr. 10.30

Data integration

In proteomic and biomarker discovery pipelines: a case study using the ProteoNIDE web-service.

Muriel Bonnet, INRA - VetAgro Sup, UMR 1213 UMRIH Unité Mixte de Recherche sur les Herbivores, Centre de Recherche Auvergne-Rhône-Alpes, Saint-Genès-Champagnelle, France



hr. 14.00

Metabolomic approach

In cell and animal models of metabolic diseases: Donatella Corazzi, Department of Pharmaceutical and Biomolecular Sciences, Università degli Studi di Milano, Italy



hr. 15.30

Lipidomic techniques and case studies

Example of experimental designs focused on lipidomics applied to veterinary and animal sciences.

Laurence Bernini, INRA - VetAgro Sup, UMR 1213 UMRIH Unité Mixte de Recherche sur les Herbivores, Centre de Recherche Auvergne Rhône-Alpes, Saint-Genès-Champagnelle, France



•hr. 19.00 Joint Dinner•

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PROGRAM

July 24th, 2019

Microbiomics and bioinformatics



hr. 9.00

Bacterial Metagenomics

Armand Sanchez Bonastre, Department of Animal and Food Science, Universitat Autònoma de Barcelona, Spain



hr. 10.30

Metaproteomics: what is it and what can we learn from it?

Maria Filippa Addis, Department of Veterinary Medicine, Università degli Studi di Milano, Italy



hr. 14.00

How do we make community ecology relevant to commercial microbiome questions?

Mike Saitel, Axi-Agri Ltd, United Kingdom



hr. 15.30

The bioinformatics pipeline

for microbiome analysis from raw DNA sequencing data.

Corrado Corazzi, Department of Veterinary Medicine, Università degli Studi di Milano, Italy



•hr. 19.00 Joint Dinner•

✉ phd@manna@glasgow.ac.uk or chiara.mariani@unimil.it

IMPORTANT INFORMATION AND HOW TO APPLY

(for those not supported by MANNA)

Date	Venue
Monday 22 July 2019	Università degli Studi di Milano Polo Universitario Veterinario di Lodi - Via Università, 6
Wednesday 24 July 2019	http://eng.dimevet.unimil.it/en/home/departments/locations
Application open	Application deadline
May 1 st , 2019	May 31 st , 2019

- ✓ **Participation:** Open application for up to 19 positions not associated with MANNA. Such applicants should be Post Doc, PhD students or masters students actively engaged in or soon to commence research involving next generation sequencing technology and mass spectrometry based omics related to animal, veterinary and nutritional science. Applicants should send an updated CV to phd4manna@glasgow.ac.uk, and a short motivation letter explaining how the participation to the course would benefit their scientific career. Applicants need to send their details (Name, Address, Phone number and e-mail address). And to include in the email their conformity for their details to be stored by the university of Glasgow for the purpose of sending them an invoice for the cost of the Summer school subsistence.
- ✓ **Costs for non-MANNA participants:** are that include lunches and dinners for the three days of the school, to be paid to the university of Glasgow (please contact phd4manna@glasgow.ac.uk). Participation in the course is free.
- ✓ **Language:** The course will be in English.
- ✓ **Lodgings:** Please see suggestions at the webpage <http://www.phd4manna.eu/>
- ✓ **How to reach the campus:** <https://dotora.tunimil.it/ias/en/informations/how-to-reach-us/>
- ✓ **Contacts:** for every question please write to phd4manna@glasgow.ac.uk or to chiara.mariani@unimil.it

Organization committee
Flora Addis, Fabrizio Celliani, Chiara Mariani, Gabriela Avila Morales, Xuan Thi Nguyen, Tamil Selvi Sundaram



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Manna participants:



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