



ENA / Project EarlyNutrition

## Workshop

# From Epigenomics to Metabolomics: integrating 'big' data into cohort studies

December 3rd 2015

Hemiciclo. Campus La Merced. University of Murcia, Murcia, Spain

[http://viajeselcorteingles.symposium.com/event\\_detail/2770/detail/workshop-ena\\_project-earlynutrition.html](http://viajeselcorteingles.symposium.com/event_detail/2770/detail/workshop-ena_project-earlynutrition.html)

We welcome you to a multidisciplinary workshop on Epigenetics and Metabolomics in which basic scientists, epidemiologists, and clinicians will integrate their knowledge to improve understanding on these biological processes involved in fetal programming of adult disease. The characterization of epigenetic DNA methylation may be helpful to better understand the interactions of inherited and environmental factors that shape health outcomes.

Many studies in the last decade have vastly increased the landscape of maternal epigenetic modifications that might affect fetal and child metabolism. These techniques provide to us a wide number of data, but very often the management and integration of such information into the big cohort studies is a challenge. Moreover, clinicians require more information on the meaningful of such results for their potential using in clinical routine. An important question is the degree of persistence of DNA methylation marks along the life.

The main objective of this workshop is to bring together leading experts from these interdisciplinary fields, and to explore how to manage these data from their analyses until interpretation and integration into the big cohorts. It will be explored data management not only from epigenetics but also from metabolomics, in an integrative interdisciplinary approach. If you are interested in applying these expensive methodologies in your work, this workshop will provide you of interesting tools.



## Programme; Thursday, December 3<sup>rd</sup>, 2015

Host: Elvira Larqué (University of Murcia) and Richard Saffery (MCRI, Melbourne)

10.00 – 10.45	<b>Title: The importance of big data in big birth cohorts to understanding non communicable disease in humans</b> <i>Professor Richard Saffery, MCRI, Melbourne, Australia</i>
10.45 – 11.30	<b>Title. Epigenetic processes &amp; phenotype in lifecourse cohorts: environmental &amp; genomic influences</b> <i>Professor Keith Godfrey, University of Southampton, UK</i>
11.30 – 12.00	<i>Coffee break</i>
12.00 – 12.45	<b>Title. Does placental DNA methylation mediate the effect of maternal smoking on birthweight?. Results from the INMA cohort</b> <i>Dr Eva Morales, Virgen de la Arrixaca Hospital, Murcia, Spain</i>
12.45 – 14.00	<i>Lunch</i>
14.00 – 14.45	<b>Title . Genetics of DNA methylation across the lifecourse</b> <i>Dr Tom Gaunt, MRC Integrative Epidemiology Unit, Bristol, UK</i>
14.45 – 15.30	<b>Title. Integrating omics data to understand disease susceptibility mechanisms</b> <i>Dr Victor Moreno, Catalan Institute of Oncology, Barcelona, Spain</i>
15.30 – 16.00	<i>Coffee Break</i>
16.00 – 16.45	<b>Title. Multiplatform metabolomics for early nutrition related diseases</b> <i>Dr. C. Barbas, Univeridad San Pablo CEU, Madrid, Spain</i>
16.45 – 17.30	<b>Title . Targeted LC/MS based metabolomics in cohort studies involved in “Early Nutrition project”</b> <i>Dr Christian Hellmuth, LMU University of Munich, Germany</i>

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## Registration

Registration fee includes daily delegate rate, coffee breaks and conferences lunches included with the conference programme.

Registration should be done through this [online website](#):

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Please note that the discount Early Bird fees will end on October 1st, 2015. After this date, full fees will apply

	<i>Early Bird (until October 1<sup>st</sup>, 2015)</i>	<i>Late Bird (starting October 2<sup>nd</sup>, 2015)</i>
<i>Delegate</i>	90 Euro	110 Euro
<i>Students (upon proof)</i>	60 Euro	80 Euro

## Venue

Hemiciclo. Campus La Merced. Facultad de Letras. Universidad de Murcia (Spain).

## Accommodation

Hotel NH Amistad Murcia (4\*)

Condestable, 1

30009 Murcia

This Hotel is at 10 min walking from the Hemiciclo, Campus La Merced, Universidad de Murcia.

Individual room - 60 euros/day plus 10% VAT (breakfast included)

Double room - 70 euros/day plus 10% VAT (breakfast included)

The hotel registration can be done through the [online registration website](#) in the link:

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## Transport

To arrive to Murcia, we recommend to fly to the Alicante Airport, which is at 45 min by car from Murcia City.

A taxi service will be available for movement from Alicante airport to Murcia by booking through the [online Registration website](#). The Price of the Taxi using this registration service will be 60 € each way.

It is recommended to use the taxi reservation from Alicante airport to Murcia city through the form offered in web site. The cost we have achieved with this system is 60 euros each way, but if the local taxis from the airport are used, the cost to transport to Murcia would be around 90 euros each run.