

## UEPHA\*MS Final Network Conference

# “Multiple Sclerosis and the Omics Spring”

Bilbao, Spain, 15 – 17 April 2012

### Central themes of the conference:

Omics-based methods and approaches are at the core of the new research landscape dissecting with unprecedented resolution the biology of complex human diseases. The meeting will focus on recent findings and technologies associated with the *OMICS* domain in the fields of *Multiple Sclerosis* pathogenesis and therapeutics. This conference, organized by the FP7 Marie Curie Initial Training Network “*UEPHA\*MS*” will bring together experts in the different sub-disciplines of MS-omics (genomics, transcriptomics, proteomics, biomarkers, and pharmacogenomics), and will emphasize the systems-based cross-disciplinary integration of datasets. In addition, the conference will showcase the most exciting research outcomes generated by the UEPHA\*MS trainees. The vibrant city of Bilbao and surroundings offer unequalled beauty and culture to create the perfect environment to interact with fellow scientists, and build connections and collaborations with leaders in the field. For additional information, you are invited to contact us at [uephams@ehu.es](mailto:uephams@ehu.es).

Koen Vandebroek and Jorge Oksenberg, *Conference Co-Chairs*

### Confirmed speakers:

Alfredo Antigué (Basurto Hospital, Bilbao), Sergio Baranzini (UCSF), David Brassat (University of Toulouse), Manuel Comabella (Vall d'Hebron Research Institute), Theo Luiders (Erasmus Medical Center), Carlos Matute (UPV/EHU), Jorge Oksenberg (UCSF), Stephen Sawcer (Cambridge University), Koen Vandebroek (UPV/EHU) and Pablo Villoslada (IDIBAPS)

### Further particulars:

- The meeting is open to basic and clinical scientists with interest in MS.
- Sunday session open to public.
- **Venue:** Paraninfo UPV/EHU “*Bizkaia Aretoa*”, Avenida Abandoibarra 3, 48009 Bilbao  
[hfp://es.wikipedia.org/wiki/Paraninfo\\_de\\_la\\_Universidad\\_del\\_Pa%C3%ADs\\_Vasco](http://es.wikipedia.org/wiki/Paraninfo_de_la_Universidad_del_Pa%C3%ADs_Vasco)
- Registration is free; please send email to [uephams@ehu.es](mailto:uephams@ehu.es)
- Registration deadline extended to **31 March 2012**.
- Travel support available for postdocs and PhD students (please indicate when registering)
- Recommended hotels close to the conference venue:  
**Gran Domine Bilbao** (special rates for participants, please quote conference title)  
<http://www.hoteles-silken.com/gran-hotel-domine-bilbao/>  
**Melia Hotel** - <http://www.melia-bilbao.com/es/index.html>  
**Miró Hotel Bilbao** - <http://www.mirohotelbilbao.com/en/>
- For any questions, please contact Iraide Alloza at: [iraide.alloza@ehu.es](mailto:iraide.alloza@ehu.es) or at 946018292

**SUNDAY 15 APRIL**

*Chair: Iraide Alloza*

- 6:00 - 6:30 The UEPHA\*MS network: goals and achievements.  
*Koen Vandebroek (Bilbao)*
- 6:30 - 7:00 Actualización en el tratamiento de la EM.  
*Alfredo Antigüedad (Bilbao)*
- 7:00 Welcome reception

Evening

**MONDAY 16 APRIL**

*Chair: Carmen Infante-Duarte*

- 9:00 - 9:45 MS pharmacogenomics. Why has it been so difficult?  
*Jorge Oksenberg (San Francisco)*
- 9:45 - 10:30 Transcriptomics in MS.  
*Manuel Comabella (Barcelona)*
- 10:30 - 11:00 Coffee break
- 11:00 - 11:30 Quantification and sequencing of autoantibodies by mass spec.  
*Theo Luider (Rotterdam)*
- 11:30 - 12:00 Immunophenotypical and functional characterization of CD56bright NK cells in MS.  
*Angélica Cuapio (Hamburg)★*
- 12:00 - 12:30 Search for response biomarkers to IFN-β therapy and for disease biomarkers in MS patients.  
*Sunny Malhotra (Barcelona)★*
- 12:30 - 2:00 Lunch
- Chair: Pablo Villoslada*
- 2:00 - 3:00 **Selected abstracts**
- 2:00 - 2:20 miRNA expression analysis in RRMS reveals sex-specific deregulation.  
*Maidier Muñoz-Culla (San Sebastian)*
- 2:20 - 2:40 Fine-mapping and expression analysis of 12q13.3-12q14.1 locus in MS.  
*Fuencisla Matesanz (Granada)*
- 2:40 - 3:00 Modeling dynamical cross-regulation of effector and regulatory T cells in induced experimental autoimmune encephalomyelitis (EAE) in mice.  
*Elena Abad (Barcelona)*

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**MONDAY 16 APRIL (continued)**

- 3:00 - 4:30 Poster session and coffee break
- 4:30 - 5:15 Large scale data integration: towards a networked analysis of human diseases.  
*Sergio Baranzini (San Francisco)*

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**TUESDAY 17 APRIL**

*Chair: Eva Tolosa*

- 9:00 - 9:30 Exploration of MS risk genes in the Basque Country.  
*Koen Vandebroek (Bilbao)*
- 9:30 - 10:00 Translating genetic information into function. The example of *TYK2*.  
*David Brassat (Toulouse)*
- 10:00 - 10:30 Effects of *CD6* functional variants in MS.  
*Bhairavi Swaminathan (Bilbao)★*
- 10:30 - 11:00 Coffee break
- 11:00 - 11:45 Modelling MS pathogenesis for predicting disease course based on a systems approach.  
*Pablo Villoslada (Barcelona)*
- 11:45 - 12:15 Oligodendrocyte death and protection.  
*Carlos Matute (Bilbao)*
- 12:15 - 1:45 Lunch
- Chair: Sergio Escorza*
- 1:45 - 2:15 Mechanisms of NK-cell-mediated immunomodulation in MS.  
*Coralie Chanvillard (Berlin)★*
- 2:15 - 3:00 Personal omics profiling reveals dynamic molecular and medical phenotypes  
*Rui Chen (San Francisco)*
- 3:00 - 3:45 MS genetics - more like Schrödinger's cat than Mendel's peas.  
*Stephen Sawcer (Cambridge)*
- 3:45 - 4:15 Coffee break
- 4:15 - 4:45 **Round table discussion:** Next generation genetic studies, the completion of the genetic risk map, and prospects for genomic medicine in MS.  
*Moderator: Jorge Oksenberg (San Francisco)*  
*Participants: all speakers*

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Adjourn

★ UEPHA\*MS Fellows