



Cytogenetics and Molecular Genetics of Myeloid Neoplasms

March 14 & March 15, 2017

March 30 & March 31, 2017

June 13 & June 14, 2017

Josep Carreras Leukemia Research Institute, Badalona, Spain

This 2-day course is primarily intended for practicing haematologists, pathologists or cytogeneticists with main specific interest in Myelodysplastic Syndromes (MDS) and myeloid neoplasms. The course will focus on the basis and application of current and new genetic techniques in myeloid neoplasms. The course includes talks about the basis of genetic techniques, as well as discussion of practical cases. In addition, there is a visit to the diagnostic laboratory of Institut Català d'Oncologia-Hospital Germans Trias i Pujol.

DIRECTOR AND COORDINATOR

Francesc Solé, PhD

Scientific director of IJC Campus ICO-GTIP
Head of MDS Research Group
Josep Carreras Leukemia Research Institute

Mar Mallo, PhD

Chief Technician of Microarrays platform
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SPEAKERS

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Mar Mallo, PhD

Josep Carreras
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Laura Palomo, MSc

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**Isabel Granada,
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Javier Grau, PhD

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Neus Ruiz, MSc

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Blanca Espinet, PhD

Hospital del Mar

Marta Salido, PhD

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INFORMATION AND REGISTRATION

The course is sponsored by a grant from Celgene International.

The event will take place in the Josep Carreras Leukemia Research Institute located in Badalona, a city next to Barcelona (Spain).

For registration enter to the Josep Carreras Leukemia Research Institute (http://www.carrerasresearch.org/cytogenetics-and-molecular-genetics-of-myeloid-neoplasms_55533). Please fill in the pre-registration data sheet and contact to Mar Mallo (mmallo@carrerasresearch.org).

DAY 1

10:00-10:15 Welcome and Introduction

10:15–11:15 Introduction to in situ hybridization techniques

Marta Salido

- Methodology
- Sample types: fresh, imprints, cell smears, frozen material, paraffin-embedded material
- Types of probe used during diagnosis: centromeric, locus-specific for deletions or amplifications, locus-specific for translocations (single-fusion, dual-fusion, split or break-apart, etc.)
- Types of probe used in research: multicolour FISH probes (M-FISH, SKY), comparative genomic hybridization

11:15–11:30 Coffee break

11:30-12:30 Application of fluorescence in situ hybridization in the diagnosis and follow-up of hematological malignancies

Blanca Espinet

- Acute myeloid leukemias
- Chronic myeloproliferative neoplasms
- Acute lymphoblastic leukemias
- Mature B-cell neoplasms
- Mature T-cell neoplasms

12:30-13:30 The application of in situ hybridization probes in the diagnosis and management of myelodysplastic syndromes

Francesc Solé

13:30–14:30 Lunch

14:30–15:30 Visit to the Cytogenetics Laboratory

Isabel Granada

15:30-17:00 Practical cases

Javier Grau and Neus Ruiz

DAY 2

9:00–10:00 Cytogenetic and molecular alterations in myelodysplastic syndromes

Francesc Solé

10:00–11:00 The application of genomic arrays in the diagnosis and management of myelodysplastic syndromes

Mar Mallo

11:00–11:30 Coffee break

11:30–12:30 Next-generation sequencing

Laura Palomo

12:30-14:00 Practical cases

Javier Grau and Neus Ruiz

14:00–15:00 Lunch