

European School of Genetic Medicine
6th COURSE IN MOLECULAR CYTOGENETICS AND DNA MICROARRAYS
September 25-29, 2004
Bertinoro, Forlì, Italy

University Residential Centre
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Director:

Mariano Rocchi (Bari, I)

Symposium on
Human Genome Evolution

Saturday, September 25, 2004 - Morning

Forces of primate genome evolution and their consequences

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| 08.45 | Welcome |
| 09.00 | E. Eichler (Cleveland, USA)
Segmental duplications |
| 10.00 | O. Zuffardi (Pavia, I)
Genomic disorders |
| 11.00 | Coffee break |
| 11.30 | B. Trask (Seattle, USA)
Subtelomeric regions and the dispersal of the olfactory receptor gene family |
| 12.30 | M. Jackson (Newcastle Upon Tyne, UK)
Pericentromeric sequences |
| 13.00 | Lunch |

Saturday, September 25, 2004 - Afternoon

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| 15.00 | M. Schueler (Bethesda, USA)
Human centromeric satellite DNA |
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- 16.00 **M. Rocchi** (Bari, I)
Centromere repositioning
- 17.00 Coffee break
- 17.30 *t.b.a.*
Mapping breakpoints in primates
- 18.30 General discussion

Sunday, September 26, 2004 - Morning

Chimpanzee-human comparisons

- 09.00 **A. Navarro** (Barcelona, E)
Interactions between chromosomal and molecular evolution in mammals
- 10.00 **E. Eichler** (Cleveland, USA)
Structural variation between chimpanzee and human genomes
- 11.00 Coffee break
- 11.30 **J. Hacia** (Los Angeles, USA)
Gene expression differences between chimpanzee and humans
- 12.30 **A. Clark** (New York, USA)
Genes under positive selection between chimpanzee and human
- 13.30 Lunch

Sunday, September 26, 2004 - Afternoon

- 15.00 **W. Enard** (Lipsia, D)
FOXP2, microarray expression analysis
- 16.00 *t.b.a.*
Chimpanzee genome project
- 17.00 Coffee break
- 17.30 Round table

6th Course in Molecular Cytogenetics and DNA Microarrays

Monday, September 27, 2004 - Morning

- 8.30 **O. Zuffardi** (Pavia, I)
Human Cytogenetics

- 9.30 **J. Vandesompele** (Gent, B)
Real time quantitative PCR and cytogenetics
- 10.30 Coffee break
- 11.00 **J. Shipley** (London, UK)
Comparative Genomic Hybridisation and Comparative Expressed Sequence
Hybridisation
as a complement to microarrays
- 12.00 **J. Clark** ((London, UK)
cDNA array analysis of the cancer genome
- 13.00 Lunch
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Monday, September 27, 2004 - Afternoon

- 14.30 **T. Liehr** (Jena, D)
Multicolor-FISH
- 15.30 **Zeiss**
Digital imaging in cytogenetics
- Workshops:**
- P.A. Benedetti** (Pisa, I)
Fluorescence microscope and CCD cameras
- J.Clark** (London, UK)
Microarrays
- T. Liehr** (Jena, D)
MultiFISH
- J. Vandesompele** (Gent, D)
Real time quantitative PCR
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Tuesday, September 28, 2004 - Morning

- 8.30 **F. Mitelman** (Lund, S)
Cancer cytogenetics
- 10.00 **A. Schinzel** (Schawerenbach, CH)
Genome imprinting and uniparental disomy
- 11.00 Coffee break
- 11.30 **L. Kearney** (London, UK)
Telomeres and cryptic rearrangements
- 12.30 **B. Young** (London, UK)
SNP arrays and LOH in cancer
- 13.30 Lunch
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Tuesday, September 28, 2004 - Afternoon

14.30 **S. Debernardi** (London, UK)
Arrays for expression profiling

15.20 **G. Calabrese** (Chieti, I)
Fiber FISH

11.00 Coffee break

Workshops:

B. Young (London, UK)
Array analysis

A. Schinzel (Schwerenbach, CH)
Origin and mechanisms of formation of achromosome aberrations in humans

L. Kearney (London, UK)
What to FISH for and when in leukaemia

G. Calabrese (Chieti, I)
Fiber FISH

Wednesday, September 29, 2004 - Afternoon

08.30 **S. Muller** (Munich, D)
Karyotype evolution in primates

09.30 **M. Rocchi** (Bari, I)
Resources for molecular cytogenetics

10.30 Coffee break

11.00 **T. Cremer** (Munich, D)
Chromosome organization in interphase nuclei

Registration fee for the entire course (5 days, 5 nights): € 800,00

Course fee include tuition, course material, room and board for the whole duration of the course, but NOT travel expenses.

The training activity is divided in two sessions: the Symposium "Understanding Human Genome Evolution" and the Course in "Molecular Cytogenetics".

Register online at www.eurogene.org. Offline registration is not available. All course is held in English, unless otherwise stated. For further information about the University Residential Centre, visit www.centrocongressibertinoro.it.

For further information visit the EGF website: [//www.eurogene.org](http://www.eurogene.org)
