



Agenda

Action: CA 15129, DiMoPEX

Title: **D**iagnosis, **M**onitoring and **P**revention of **E**xposure-Related Noncommunicable Diseases

School: Advanced Micronucleus Methods

Dr. Claudia Bolognesi (WG 5 lead)
03-06 April 2017

Venue:

Environmental Carcinogenesis Unit IRCCS AUO San Martino IST-
National Institute for Research on Cancer, Genoa, Italy

Lymphocyte cytokinesis-block micronucleus (L-CBMN) assay

Training Course

Genoa- Environmental Carcinogenesis Unit IRCCS AUO San Martino IST- National Institute for Research on Cancer Resp. Claudia Bolognesi

Monday

Morning

- Arrival of the participants.
- Visit of the laboratory.
- Presentation of the program, the equipment and the reagents for the L-CBMN assay.
- Reagent setup
- Whole blood cell culture

Afternoon

Theoretical lesson on the L-CBMN assay:

- Background information
- Standardized Protocol for sample processing and slide scoring
- Scoring criteria
- Application of the assay
- Study design



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Tuesday

Morning

- Slide staining
- Automated scoring of lymphocyte micronuclei: the Metafer slide scanning platform

Afternoon

Exercise on visual slide scoring

Wednesday

Morning

Harvesting of cells and slide preparation

Afternoon

Slide scoring exercise, under supervision, of a set of slides characterized by different MN frequency and different cytome profile.

Questions and answers on scoring criteria

Conclusion of the course.

Documents provided to the participants:

- a standardized protocol for sample collection, preparation and scoring (ref paper: Fenech et al Nat. Protoc. 2:1084-1104,2007)
- a standard scoring data sheet

Action chair: Prof. LT Budnik/ vice Chair: Dr. Ludwine Casteleyn
Scientific management: Dr. Brunswig-Spickenheier/ GH:UKE