



International Agency for Research on Cancer

Centre International de Recherche sur le Cancer

## IARC SUMMER SCHOOL IN CANCER EPIDEMIOLOGY - 2007

2007 schedule

Regular modules repeated every year:

11 June - 15 June

Cancer Registration

18 June - 29 June

Introduction to Cancer Epidemiology

Advanced Module:

2 July - 6 July

Genetics Epidemiology: From biological resource centres to functional studies

Regular modules repeated every year

The two regular modules will be held from 11 June - 29 June 2007, each module covering one week.

1. Cancer Registration is a basic element of cancer control, making possible the rational use of resources as well as the identification of areas in need of research. In many parts of the world, cancer registries provide the only source of information on the size, nature and evolution of the local cancer problem.

The course covers all relevant aspects of data collection, coding and analysis:

- sources of information, case-finding and methods of data abstraction;
- classification of tumours and coding according to ICD and ICD-O;
- quality control, measures of comparability, standard definitions according to IACR;
- data analysis and reporting.

Training in the implementation of all registry functions by means of the IARC CANREG4 software is an integral part of this program.

2. Introduction to Cancer Epidemiology:

- introduction to biostatistics
- measures of occurrence and association
- descriptive epidemiological studies in cancer surveillance and research.
- standardization
- cross-sectional, cohort and case-control studies
- bias and confounding
- interaction
- topics in cancer epidemiology
- cancer prevention

All lectures are complemented with practical sessions and group work.

### Advanced Modules on specific topics

Epidemiological applications or methodological subjects will be addressed in *ad hoc* courses.

An advanced module will be held from 2 - 6 July 2007.

## GENETICS EPIDEMIOLOGY: FROM BIOLOGICAL RESOURCE CENTRES TO FUNCTIONAL STUDIES

Course Directors: Paul Brennan, Pierre Hainaut, Sean Tavitgian

Overview: The course aims to review methodological and substantive issues in the design and conduct of large scale genetic and molecular epidemiology studies. The course will focus on three separate areas, (i) general overview of Biological Resource Centres, including design, best practice, management and distribution of different forms of biological specimens, (ii) conduct of large scale candidate gene and genomewide association studies, and (iii) functional studies that aim to identify the causal nature of genetic variants that have been identified as being associated with specific cancers. Given the short nature of the course, it is not intended to give a comprehensive training in all aspects of the above. It is designed for junior scientists and postdoctoral fellows working in large population based studies, specifically those with a primary interest in genetic epidemiology.

Structure: The first part of the course will consist of an introduction to Biological Resource Centres and biospecimen management, covering collection, storage, annotation, shipping and processing. This will be attended by all participants. The middle part of the course will offer a choice between (i) more in depth topics of biospecimen collection, management and analysis, and (ii) genetic epidemiology studies. The final part of the course will involve an introduction to functional studies and will be attended by all participants. Keynote lectures will be provided by leading scientists and practical sessions will be undertaken throughout the week.

FURTHER INFORMATION AND APPLICATION FORMS FROM:

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