



# **IARC SUMMER SCHOOL ON CANCER EPIDEMIOLOGY**

International Agency for Research on Cancer  
Lyon, France

**11 June – 6 July 2007**

## **P R O G R A M M E**

# **SECRETARIAT**

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## **Director, IARC Summer School**

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Dr Pierre Hainaut

Dr Sean Tavitigian

Professor Tongzhang Zheng

## **Course Assistant**

Mrs Sue Anthony

## **Course Secretary**

Miss Silvia Araujo de Lima

### ***With the support of the:***

Environmental Cancer Risk, Nutrition and Individual Susceptibility  
Network of Excellence (ECNIS)

International Atomic Energy Agency (IAEA)

National Cancer Institute, USA (NCI)

WHO Regional Office for the Eastern Mediterranean (EMRO)

WHO Regional Office for the Western Pacific (WPRO)

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# **CANCER REGISTRATION**

**11-15 June 2007**

## **Monday 11 June 2007**

<b>09h00</b>	<b>Official Opening</b>	
	Introduction of teaching staff and participants	<b>Mary Heanue</b>
<b>09h45</b>	Cancer registration and its role in epidemiology	<b>Paolo Boffetta</b>
<b>10h15</b>	Cancer registration: basic principles	<b>Maria-Paula Curado</b>
<b>11h00</b>	<b>COFFEE BREAK</b>	
<b>11h30</b>	Sources of disease information	<b>April Fritz</b>
<b>12h00</b>	International Classification of Disease (ICD)	<b>April Fritz</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Introduction to cancer staging	<b>April Fritz</b>
<b>15h15</b>	<b>TEA BREAK</b>	
<b>15h45</b>	Staging exercise	<b>April Fritz</b>
<b>17h00</b>	<b>Close of session</b>	
<b>18h00</b>	<b>WELCOME RECEPTION</b>	

## **Tuesday 12 June 2007**

<b>09h00</b>	Abstracting, coding, staging, basis of diagnosis - 1 Breast, lung	<b>April Fritz</b>
<b>11h00</b>	<b>COFFEE BREAK</b>	
<b>11h30</b>	Abstracting, coding, staging, basis of diagnosis - 2 Oesophagus, stomach, colon, rectum	<b>April Fritz</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Abstracting, coding, staging, basis of diagnosis - 3 Cervix, prostate and bladder	<b>April Fritz</b>
<b>15h15</b>	<b>TEA BREAK</b>	
<b>15h45</b>	Abstracting, coding, staging, basis of diagnosis - 4 Overall review and questions	<b>April Fritz</b>
<b>17h00</b>	<b>Close of session</b>	

## Wednesday 13 June 2007

<b>09h00</b>	CanReg4 - 1 Introduction to CanReg/Browse Data entry, checks	<b>Hai-Rim Shin/Morten Ervik (+ Eric Masuyer)</b>
<b>11h00</b>	<b>COFFEE BREAK</b>	
<b>11h30</b>	CanReg4 - 2 Person search, multiple primaries Dictionary edit / import Backup / Install / Restore	<b>Hai-Rim Shin/Morten Ervik</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	CanReg4 - 3 Practical - incidence tables, frequencies, export	<b>Hai-Rim Shin/Morten Ervik</b>
<b>16h00</b>	<b>TEA BREAK</b>	
<b>16h30</b>	Measurement of disease occurrence: Data presentation	<b>Paolo Boffetta</b>
<b>17h30</b>	<b>Close of session</b>	

## Thursday 14 June 2007

<b>09h00</b>	Methods of data collection: case finding	<b>Maria-Paula Curado</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Variables: date of incidence, definitions & rules	<b>Hai-Rim Shin</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Multiple tumours	<b>April Fritz</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Quality control measures	<b>Maria-Paula Curado</b>
<b>17h30</b>	<b>Close of session</b>	

## **Friday 15 June 2007**

<b>09h00</b>	ICD-O coding exercise	<b>April Fritz</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Review of ICD-O coding exercise	<b>April Fritz</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Follow-up and survival Confidentiality, ethical and legal issues	<b>Mary Heanue</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Course evaluation and conclusion	<b>Faculty and Participants</b>
<b>17h00</b>	<b>CLOSURE</b>	

**INTRODUCTION TO  
CANCER EPIDEMIOLOGY**

**18-29 June 2007**

## **Monday 18 June 2007**

<b>09h00</b>	<b>Official Opening</b>	
	Introduction of teaching staff and participants	<b>Mary Heanue</b>
<b>09h30</b>	Measures of occurrence	<b>Pietro Ferrari</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Introduction to cancer biology	<b>Magali Olivier</b>
<b>12h00</b>	Descriptive cancer epidemiology	<b>Tong Zheng</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Cancer control	<b>R. Sankaranarayanan</b>
<b>15h00</b>	<b>TEA BREAK</b>	
<b>15h30</b>	<b>Descriptive cancer epidemiology</b> continued Describing and presenting data	<b>Tong Zheng</b>
<b>16h30</b>	Subgroup work	<b>Mary Heanue</b>
<b>18h00</b>	<b>Welcome Reception</b>	

## **Tuesday 19 June 2007**

<b>08h30</b>	Overview of study design	<b>Paolo Boffetta</b>
<b>09h30</b>	Intervention studies	<b>R. Sankaranarayanan</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Introduction to biostatistics – 1	<b>Martyn Plummer</b>
<b>12h00</b>	Cross-sectional studies	<b>Tong Zheng</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Measures of disease occurrence (practical)	<b>Pietro Ferrari</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Intervention studies (paper)	<b>R. Sankaranarayanan</b>
<b>17h00</b>	Subgroup work	<b>Mary Heanue</b>

## **Wednesday 20 June 2007**

<b>08h30</b>	Measures of association (odds ratio and relative risk)	<b>Pietro Ferrari</b>
<b>09h30</b>	Cohort studies - design	<b>Kurt Straif</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Cohort studies – basic analysis	<b>Kurt Straif</b>
<b>12h00</b>	Genetic epidemiology	<b>Mia Hashibe</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Measures of association (practical)	<b>Pietro Ferrari</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Cohort studies (paper)	<b>Kurt Straif</b>
<b>17h00</b>	Subgroup work	

## **Thursday 21 June 2007**

<b>08h30</b>	Introduction to biostatistics - 2 (p values, estimation, CI and hypothesis testing)	<b>Martyn Plummer</b>
<b>09h30</b>	Statistical power and sample size	<b>Pietro Ferrari</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Molecular epidemiology	<b>Paolo Boffetta</b>
<b>12h00</b>	Diet and cancer: specific features and methodological issues	<b>Nadia Slimani</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Standardisation (practical)	<b>Tong Zheng</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Biostatistics practical (computer session 1)	<b>Martyn Plummer</b>
<b>17h00</b>	Subgroup work	

## Friday 22 June 2007

<b>08h30</b>	Case-control studies – design	<b>Tong Zheng</b>
<b>09h30</b>	Case-control studies – basic analysis	<b>Tong Zheng</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Exposure assessment - 1	<b>Beate Ritz</b>
<b>12h00</b>	Overview of bias	<b>Kurt Straif</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Case-control study (paper)	<b>Tong Zheng</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Cohort studies (exercise)	<b>Kurt Straif</b>
<b>17h00</b>	Subgroup work	

## Monday 25 June 2007

<b>08h30</b>	Confounding	<b>Tong Zheng</b>
<b>09h30</b>	Introduction to biostatistics – 3 (plus Introduction to stratified analysis)	<b>Martyn Plummer</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Exposure assessment - 2	<b>Beate Ritz</b>
<b>12h00</b>	Occupational and environmental cancer	<b>Kurt Straif</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Biostatistics practical (computer session 2) plus stratified analysis	<b>Martyn Plummer</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Case-control studies (practical) (calculate odds ratio, CI)	<b>Tong Zheng</b>
<b>17h00</b>	Subgroup work	

## **Tuesday 26 June 2007**

<b>09h00</b>	Internal seminar	
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Principles of screening	<b>Philippe Autier</b>
<b>12h00</b>	Cancer survival	<b>Philippe Autier</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Screening (paper)	<b>Philippe Autier</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Presentations by participants 1	<b>Tong Zheng</b>
<b>17h00</b>	Subgroup work	

## **Wednesday 27 June 2007**

<b>08h30</b>	Attributable risk	<b>Gary Clifford</b>
<b>09h30</b>	Conducting an epidemiological study - 1 (writing a protocol, grant application)	<b>Mia Hashibe</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Effect modification	<b>Tong Zheng</b>
<b>12h00</b>	Infection and cancer	<b>Gary Clifford</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Conducting an epidemiological study - 2 (organise field work, sample size, power in low- and medium-resource countries)	<b>Mia Hashibe</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Presentations by participants 2	<b>Tong Zheng</b>
<b>17h00</b>	Subgroup work	

## **Thursday 28 June 2007**

<b>08h30</b>	Multivariate analysis - 1	<b>Mathieu Boniol</b>
<b>09h30</b>	Multivariate analysis – 2	<b>Mathieu Boniol</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Causal inference	<b>Kurt Straif</b>
<b>12h00</b>	Combining epidemiological results	<b>Paolo Boffetta</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Multivariate analysis (computer session 3)	<b>Mathieu Boniol</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	Presentations by participants 3	<b>Tong Zheng</b>
<b>17h00</b>	Subgroup work	

## **Friday 29 June 2007**

<b>08h30</b>	Presentation of projects - 1	<b>Paolo Boffetta/ Mary Heanue</b>
<b>10h30</b>	<b>COFFEE BREAK</b>	
<b>11h00</b>	Presentation of projects – 1	<b>Paolo Boffetta/ Mary Heanue</b>
<b>13h00</b>	<b>LUNCH</b>	
<b>14h00</b>	Globalisation and cancer	<b>Peter Boyle</b>
<b>15h00</b>	Course evaluation	<b>Paolo Boffetta</b>
<b>15h30</b>	<b>TEA BREAK</b>	
<b>16h00</b>	<b>CLOSURE</b>	

**GENETIC EPIDEMIOLOGY:  
from biological resource centres  
to functional studies**

**2-6 July 2007**

Room		Biobank students	Faculty		Genetic Epidemiology students*	Faculty
<b>Monday 2 July 2007</b>						
<i>PrincessTakamatsu</i>	09.00-09.15	Official opening – Mary Heanue				
<i>Princess Takamatsu</i>	09.15-10.30	Developing and networking biobanks for cancer research	P. Hainaut	09.00-10.30	Developing and networking biobanks for cancer research	P. Hainaut
<i>Princess Takamatsu</i>	11.00-13.00	Population-based Biobanks P3G consortium	I. Fortier	11.00-13.00	Population-based Biobanks P3G consortium	I. Fortier
<i>Princess Takamatsu</i>	14.00-15.30	Disease Oriented Biobanks : the Spanish tumour bank network	M. Morente	14.00-15.30	Disease Oriented Biobanks : the Spanish tumour bank network	M. Morente
<i>Princess Takamatsu</i>	16.00-17.30	Ethical and societal implications of biobanking	A. Cambon-Thomsen	16.00-17.30	Ethical and societal implications of biobanking	A. Cambon-Thomsen
<i>Princess Takamatsu</i>	17.30-18.00	Panel discussion	All	17.30-18.00	Panel discussion	All
	18.00	WELCOME RECEPTION				
<b>Tuesday 3 July 2007</b>						
<i>Princess Takamatsu</i>	09.00-10.30	Introduction to genetic epidemiology Twin studies, family-based studies Models of genetic susceptibility Data issues and data quality	J. Witte	09.00-10.30	Intro to genetic epidemiology Twin studies, family-based studies Models of genetic susceptibility Data issues and data quality	J. Witte
<i>Sasakawa</i>	11.00-12.00	Presentations by participants on their activities/projects on biobanks Group work objectives/decide groups	P. Hainaut	11.00-13.00	Introduction to association studies Candidate gene studies & linkage disequilibrium	P. Pharaoh
<i>Sasakawa</i>	12.00-13.00	Setting up a Biobank : infrastructure, resources, cost models	P. Hainaut		Basics statistical analysis Estimating genotype and allele risks Comparison of genetic models	P. Pharaoh
<i>Sasakawa</i>	14.00-15.30	Specimens and molecules : a crash course in molecular biology	E. Gormally	14.00-15.30	Practical: Basic statistical analysis	P. Pharaoh
<i>Sasakawa</i>	16.00-17.30	Principles of cryopreservation and biobank management	E. Caboux	16.00-17.00	Genetic susceptibility to prostate cancer	J. Witte
<i>to be confirmed</i>	17.30-	Group work 1		17.00 -	Discussion on the day's issues	

\*All sessions in Princess Takamatsu Hall. Coffee/tea breaks are at 10.30 each morning and 15.30 each afternoon.

<i>Room</i>		<b>Biobank students</b>	Faculty		<b>Genetic Epidemiology students*</b>	Faculty
<b>Wednesday 4 July 2007</b>						
	09.00-10.30	General set-up of a biobank : Tour of IARC Biobanking facilities	E. Caboux B. Vozar	09.00-10.30	Linkage analysis	J. Witte
<i>EPIC</i>	11.00-13.00	Concurrent workshops (EPIC building)		11.00-13.00	Issues in Genomewide association	J. Witte
<i>EPIC</i>		Handling specimens in Liquid Nitrogen	B. Vozar		Statistical issues	P. Pharaoh
<i>EPIC</i>		Automated DNA extraction and aliquoting	C. Lallemand		Multiple testing, etc.	
<i>EPIC</i>	14.00-16.00	Concurrent workshops (EPIC building)		14.00-15.30	Practical: Haplotypes and selection of tagSNPs	J. McKay
<i>EPIC</i>		Automated DNA extraction and aliquoting	C. Lallemand			
		Handling specimens in Liquid Nitrogen	B. Vozar			
<i>EPIC</i>	16.15-17.30	Demo 1: Blood collection, fractionation and storage Demo 2: Snap freezing and storage of tissues Demo 3: Shipping and sending specimens according to international regulations	E. Caboux	16.00-17.00	Genetic susceptibility to breast cancer	P. Pharaoh
	17.30-	Group work 2		17.00 -	Discussion on the day's issues	

\*All sessions in Princess Takamatsu Hall

Coffee/tea breaks are at 10.30 each morning and 15.30 each afternoon, except for the afternoon of Wednesday 4 July, Biobank group (16.00-16.15)

<i>Room</i>		<b>Biobank students</b>	<b>Faculty</b>		<b>Genetic Epidemiology students*</b>	<b>Faculty</b>
<b>Thursday 5 July 2007</b>						
<i>Princess Takamatsu</i>	09.00-10.30	Methods of genotyping and mutation screening	S. Tavtigian	09.00-10.30	Methods of genotyping and mutation screening	S. Tavtigian
	11.00-13.00	Tour of the high-throughput genotyping and mutation screening labs	S. Tavtigian	11.00-13.00	Further issues on genomewide association studies	J. Witte
<i>Sasakawa</i>	14.00-15.30	Biomarkers : today and tomorrow	P. Hainaut	14.00-15.30	Biobanking and tour of the biobank facilities	E. Caboux/ B. Vozar
<i>EPIC</i>	16.00-17.30	Biomarkers in biochemistry: a visit to the Hormone and Cancer laboratory	P. Hainaut	16.00-17.00	Genetic susceptibility to melanoma	F. Lasoeur
	17.30-	Group work 3		17.00-	Discussion on the day's issues	
<b>Friday 6 July 2007</b>						
	09.00-10.30	Biomarkers in genetics: a visit to the Genetic Susceptibility Group	F. Le Calvez	09.00-10.30	Intermediate-risk and high-risk susceptibility genes and Case-control mutation screening, TSMR+ analysis	S. Tavtigian
<i>Sasakawa</i>	11.00-13.00	Presentations of group work	P. Hainault	11.00-13.00	Tour of the high-throughput genotyping and mutation screening labs	S. Tavtigian
<i>Princess Takamatsu</i>	14.00-15.30	Genetic epidemiology of tobacco related cancers	P. Brennan	14.00-15.30	Genetic epidemiology of tobacco related cancers	P. Brennan
<i>Princess Takamatsu</i>	16.00-17.00	Closing ceremony		16.00-17.00	Closing ceremony	

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