



**SARDEGNA
RICERCHE**



The Institute of Genetic and Biomedical Research of CNR
in collaboration with the Technology Park of Sardinia, the European School
of Genetic Medicine and the University Residential Centre of Bertinoro
organize the

4th Sardinian Summer School Course From GWAS to Function

Polaris Technology Park, Pula (Cagliari),
June 22 - 26, 2015

Directors:

F. Cucca (Italy), M. Devoto (Italy, USA), G. Romeo (Italy)

Faculty:

G. Abecasis (USA), L. Luzzato (Italy), T. Meitinger (Germany), S. Montgomery (USA), D. Nickerson (USA), J. Novembre (USA), O. Ohara (Japan), I. Prokopenko (UK), S. Sanna (Italy), S. Sawcer (UK), D. Schlessinger (USA), C. Sidore (Italy), N. Soranzo (UK), S. Schiffels (UK) J. Todd (UK), A. Torroni (Italy)

For updates, program and info please visit the web site:
www.irgb.cnr.it/summerschool2015

Organizers: A. Angius, S Foddi, R. Partisani
Info: info_sc2015@irgb.cnr.it



Institute of Genetic and Biomedical Research of CNR

Registration Fee:

FREE OF CHARGE FOR ALL ATTENDEES.

Selection based on CV and motivation letter.

Accommodation
(breakfast and dinner included)

Flamingo Hotel. Double room occupancy € 92,00/per night

Hotel Mare e Pineta. Double room occupancy € 72,00/per night

Deadline for application: April 30th at 18:00 (CET). Send your application to rpartisani@ceub.it

4th Sardinian Summer School Course From GWAS to Function June 22-26, 2015

Polaris Technology Park - Pula (Cagliari)

Directors:

Francesco Cucca (Italy), Marcella Devoto (Italy, USA), Giovanni Romeo (Italy)

Course Description:

This summer school is addressed to graduate students, post-doctoral researchers from different backgrounds (including molecular biology, bioinformatics, genetics, mathematics) who wish to learn more about or move into the complex genomics field.

Speakers:

G. Abecasis (USA), L. Luzzato (Italy), T. Meitinger (Germany), S. Montgomery (USA), D. Nickerson (USA), J. Novembre (USA), O. Ohara (Japan), I. Prokopenko (UK), S. Sanna (Italy), S. Sawcer (UK), D. Schlessinger (USA), C. Sidore (Italy), N. Soranzo (UK), J. Todd (UK), A. Torroni (Italy), C. Wijmenga (Netherlands)

For updates, program, registration and info please visit the web site:

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	Time		Lecturer	Specific titles
Session 1: Population Genetics				
Monday, 22	09:00-10:00	Lecture 1.1	J. Novembre	Introduction to Population Genomics
	10:00-11:00	Lecture 1.2	A. Torroni	Origin of Native Americans: a paradigmatic case in human population studies
	11:00-11:30	<i>Coffee break</i>		
	11:30-12:30	Lecture 1.3	L. Luzzatto	Genetic Polymorphism and malaria selection
	12:30-14:00	<i>Lunch</i>		
	14:00-15:30	Workshop 1.1	S. Schiffels	Population Structure
	15:30-16:00	<i>Coffee break</i>		
	16:00-17:30	Workshop 1.2	J. Novembre	Signatures of Selection
Session 2: DNA sequencing: approaches and challenges				
Tuesday, 23	09:00-10:00	Lecture 2.1	G. Abecasis	Low pass sequencing
	10:00-11:00	Lecture 2.2	C. Willer	Genes and genetic variants that impact blood lipid levels and myocardial infarction
	11:00-11:30	<i>Coffee break</i>		
	11:30-12:30	Lecture 2.3	D. Nickerson	Insights from Next Generation Sequencing from Rare to Common
	12:30-14:00	<i>Lunch</i>		
	14:00-15:30	Workshop 2.1	G. Abecasis, C. Sidore	Hands-on next generation sequencing variant calling"
	15:30-16:00	<i>Coffee break</i>		
	16:00-17:30	Workshop 2.2	D. Nickerson	Variant Databases
Session 3: GWAS interpretation				
Wednesday, 24	09:00-10:00	Lecture 3.1	I. Prokopenko	GWAS meta-analyses in the era of large-scale genome sequencing
	10:00-11:00	Lecture 3.2	N. Soranzo	Dissecting human complex traits through genetic and functional genomics approaches.
	11:00-11:30	<i>Coffee break</i>		
	11:30-12:30	Lecture 3.3	T. Meitinger	Mitochondrial Diseases
	12:30-14:00	<i>Lunch</i>		
		<i>Free Afternoon</i>		
Session 4: RNA sequencing approaches - From GWAS to function				
Thursday, 25	09:00-10:00	Lecture 4.1	S. Montgomery	Regulatory variation in individuals, families and populations
	10:00-11:00	Lecture 4.2	D. Schlessinger	Genetics of Aging
	11:00-11:30	<i>Coffee break</i>		
	11:30-12:30	Lecture 4.3	O. Ohara	From genotype to phenotype: mind the gap in multiscale structure of the phenotype
	12:30-14:00	<i>Lunch</i>		
	14:00-15:30	Workshop 4.1	S. Montgomery	RNA-sequencing and analysis
	15:30-16:00	<i>Coffee break</i>		
	16:00-17:30	Workshop 4.2	S. Sanna, I. Prokopenko	Approaches to evaluate and characterize sequencing based GWAS
Session 5: From GWAS to function				
Friday, 26	09:00-10:00	Lecture 5.1	F. Cucca	From GWAS to function: the example of the Sardinian founder population
	10:00-11:00	Lecture 5.2	S. Sawcer	The genetics of multiple sclerosis
	11:00-11:30	<i>Coffee break</i>		
	11:30-12:30	Lecture 5.3	J. Todd	From genes to pathways to therapeutic opportunities and a better understanding of the human immune system
	12:30-13:30	<i>Lunch</i>		
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