



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: May 11 at 18:00 (CET). Send your application to

Info_sc2015@irgb.cnr.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).

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



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	Time		Lecturer	Specific titles (to be defined)
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	Coffee break		
	11:30-12:30	Lecture 1.3	L. Luzzatto	Genetic Polymorphism and malaria selection
	12:30-14:00	Lunch		
	14:00-15:30	Workshop 1.1	J. Novembre	Population Structure
	15:30-16:00	Coffee break		
	16:00-17:30	Workshop 1.2	J. Novembre & S. Schiffels	Signatures of Selection
Session 2: DNA and RNA sequencing: approaches and challenges				
Tuesday, 23	09:00-10:00	Lecture 2.1	G. Abecasis	
	10:00-11:00	Lecture 2.2	S. Montgomery	Regulatory variation in individuals, families and populations
	11:00-11:30	Coffee break		
	11:30-12:30	Lecture 2.3	D. Nickerson	Insights from Next Generation Sequencing from Rare to Common
	12:30-14:00	Lunch		
	14:00-15:30	Workshop 2.1	G. Abecasis, C. Sidore	Hands-on next generation sequencing variant calling"
	15:30-16:00	Coffee break		
	16:00-17:30	Workshop 2.2	D. Nickerson	
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	Coffee break		
	11:30-12:30	Lecture 3.3	T. Meitinger	Mitochondrial Diseases
	12:30-14:00	Lunch		
		Free Afternoon		
Session 4: From GWAS to function				
Thursday, 25	09:00-10:00	Lecture 4.1	F. Cucca	
	10:00-11:00	Lecture 4.2	D. Schlessinger	Genetics of Aging
	11:00-11:30	Coffee break		
	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	Lunch		
	14:00-15:30	Workshop 4.1	S. Montgomery	RNA-sequencing and analysis
	15:30-16:00	Coffee break		
	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			
	10:00-11:00	Lecture 5.2	S. Sawcer	The genetics of multiple sclerosis
	11:00-11:30	Coffee break		
	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	Lunch		
		Adjourn		