PROGRAMME OF THE INTERNATIONAL SUMMER SCHOOL FOR DOCTORAL STUDENTS

Ancestry meets Molecular Health: Opportunities of genetic diversity for Predictive, Preventive, Personalised and Participatory (P4) Medicine

	Predictive, Preventive, Personalised and Participatory (P4) Medicine	
Harnessing multi-omics for P4-Medicine		
Day 1 20.11.23	09:00-09:15 Welcome address (IR)	
	09:15-09:45 Introduction to the summer school (JLB)	
	09:45-10:30 Gallbladder cancer: what is it and what are the issues? (VKK)	
	10:30-11:00 Coffee break	
	11:00-11:30 Gallbladder cancer – what needs to be done? (VKK)	
	11:30-12:15 The European-Latin American Consortium EULAT Eradicate GBC (JLB)	
	12:15-13:00 Multi-Omics in GBC patients – first results from EULAT Eradicate GBC (DS)	
	13:00-14:30 Lunch	
	14:30-15:15 Metabolomics and biomarker discovery in cancer epidemiology (AS)	
	15:15-16:00 Metabolomics: the missing link between genotype and phenotype (RKE)	
	16:00-16:45 Application of genetics to epidemiological study of US Latinos (RKA)	
	18:00-20:30 Welcome cocktail reception	
Day 2 21.11.23	09:00-09:45 Gut microbiome, metabolite and genetics affecting diet-related disease (RKA)	
	09:45-10:30 Arsenic, epigenetics, cardiovascular disease and community-based research (ADR)	
	10:30-11:00 Coffee break	
	11:00-11:45 Gut barrier integrity, microbial metabolites and gastrointestinal cancer risk (DH)	
	11:45-12:30 Non-coding RNAs in gallbladder cancer risk prediction (AB)	
	12:30-13:15 microRNAs as gastric cancer biomarkers: MAGIC study and Magallanes cohort (YEP)	
	13:15-14:30 Lunch	
	14:30-15:15 Mendelian randomisation studies on gallbladder cancer (CBP)	
	15:15-16:00 Multiple mediation: application to smoking, DNA methylation and lung cancer (ADR)	
	16:00-16:45 Wrap-up of day 1 and day 2	

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Characterising ancestry and inbreeding for P4-Medicine		
Day 3 22.11.23	09:00-09:45 Estimating ancestry proportions using genotype data (JLB)	
	09:45-10:45 Hands-on training "Genetic association analysis using R" (AB)	
	10:45-11:15 Coffee break	
	11:15-12:15 Hands-on training "Estimation of ancestry components using Admixture" (LZ)	
	12:15-13:00 Mendelian randomisation analysis of Native American ancestry and disease (LZ)	
	13:00-14:30 Lunch	
	14:30-16:00 Human population genomics: how can we communicate better? (FM)	
	16:00-19:00 Visit to the Chilean Museum of Pre-Columbian Art	
Day 4 23.11.23	09:00-10:00 Runs of Homozygosity: windows into population history and trait architecture (JW)	
	10:00-10:30 Latin American homozygosity and gallbladder cancer (FCC)	
	10:30-11:00 Coffee break	
	11:00-13:00 Hands-on training "Homozygosity I" (FCC)	
	13:00-14:30 Lunch	
	14:30-16:00 Hands-on training "Homozygosity II" (FCC)	
	16:00-16:45 Ancestry in rare actionable and Mendelian variants (JW)	
	16:45-17:30 Wrap-up of day 3 and day 4	

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Delineating a research proposal on genetic diversity and P4-Medicine

09:00-09:45 Review and comparison of funding opportunities (Representative of the German Research Foundation)

09:45-10:15 The "Cancer inequities" Challenge as example of funding opportunity (JLB)

10:15-10:45 Gallbladder cancer - What is going on and what would make an attractive research proposal? (VKK)

10:45-11:15 Coffee break

11:15-11:45 Definition of preliminary work packages

Day 5 24.11.23

11:45-12:30 Delineation, strengths and weaknesses of the work packages (in groups)

12:30-13:15 Objectives, strengths and weaknesses of the work packages (plenary session)

13:15-14:30 Lunch

14:30-15:15 Potential impact and excellence of the preliminary proposal (in groups)

15:15-16:00 Potential impact and excellence of the preliminary proposal (plenary session)

16:00-16:45 Open discussion on the next steps for proposal preparation

16:45-18:00 Farewell cocktail party