



4th ESPT SUMMER SCHOOL SUPPORTED BY SPHN

PRECISION MEDICINE AND PERSONALISED HEALTH

September 24-27, 2018 Geneva, Switzerland











BÜHLMANN

Dear Colleagues and Friends,

It is a great pleasure and honour to invite you to the 4th ESPT Summer School that will be held for the first time in Geneva, Switzerland, from September 24th to September 27th 2018. Following the success of the previous 3 ESPT Summer Schools in Belgrade (2016), Ljubljiana (2012) and Rome (2014), the Education and Courses Division of ESPT has designed a comprehensive educational program in the multidisciplinary field of pharmacogenomics and personalised therapy together with the Swiss Personalised Health Network (SPHN).

This program includes both the fundamentals of pharmacogenomics as well as the latest knowledge on established and novel concepts in the field of precision medecine, as well its advanced clinical applications in personalised health. The title this year for the summer school will be: Precision Medicine and Personalised Health

Participants in the school will include:

-physicians, pharmacists, and other clinical and biomedical scientists at all stages of their career that want to learn about this evolving clinical and research field,

-graduate and postgraduate students interested in pharmacogenomics and related fields,

-regulators, government employees, insurance scientists, bioinformaticians, bioethicists and other professionals

The summer school will consist of lectures, held by distinguished international faculty that will cover key topics in novel concepts and clinical applications in precision medicine. Sessions will be interactive and workshops with the participants will be organised.

It is arranged as an intensive teaching and learning event that will raise the education levels in pharmacogenomics and personalised therapy several steps higher. Innovative and original programming will enable to present, share, debate and conclude on the opportunity to translate genetic laboratory test results into actionable prescribing decisions, emphasising the importance of teamwork in the use of personalised medicine for improving patient care in the clinical setting.

We hope that the 4th ESPT Summer School will meet your expectations, provide you some unforgettable personal and professional memories, and trust that you will enjoy your visit to the very beautiful and cosmopolitan city of Geneva.

We look forward to welcoming you in Geneva.

Sincerely yours,

Prof. Marc Ansari ESPT board member / Chair Summerschool Head of Onco-Hematology Pediatric, Geneva University Hospital

Prof. Peter Meier-Abt / Co-Chair Summerschool Chair of the SPHN National Steering Board

Prof. Ron van Schaik / ESPT President Head IFCC Expert-center Pharmacogenetics, Erasmus MC Rotterdam

SCIENTIFIC PROGRAMME

Monday, September 24, 2018

09:00-09:15	Welcome - M. Ansari SPHN - <i>P. Meier-Abt</i>	
09:15-10:30	Introductory lecture: Concepts & <i>U.A. Meyer</i> Pharmacogenomics: incl. Consec	Definitions of Precision Medicine and Personalised Health quences on PK/PD
10:30-10:45	Coffee break	
10:45-12:00	"Omics" Overview I Genomics: Medicine & Health - S Epigenomics: Medicine & Health Transcriptomics - <i>M. Dermitzakis</i>	
12:00-13:30	Lunch	
13:30-14:15 14:15-15:30	"Omics" Overview II The Integr Proteomics - <i>R. Aebersold</i> Metabolomics - <i>M. Simmaco</i>	rome
15:30-15:45	Coffee break	
15:45-16:45 16:45-17:45	Microbiome - <i>J. Schrenzel</i> Nutrigenomics - TBC	
	Welcome drink at Campus Bioted	ch

Tuesday, September 25, 2018

Clinical Phenotype

	C. Lovis / A. Geissbuehler
09:00-09:45	What is the phenotype, the landscape
09:45-10:30	Challenge of data representation / data interpretation /data interoperability -
10:30-10:45	Coffee break
10:45-11:30	Prediction of metabolic phenotype from genotype - A. Llerena Ruiz
	Clinical examples
11:30-11:50	Radiology image processing in new precision medicine - new technologies (radio-omics)
	X. Montet
11:50-12:10	Pathology - TBC
12:10-12:30	Pharmaco-phenotype - C. Samer

12:30-14:00	Lunch	
14:00-14:45	Biomarkers: discovery & application	<mark>ıs</mark> - D. Hochstrasse
14:45-16:15	Clinical Bioinformatics Clinical perspective of bioinformatics - Clinical Bioinformatics Pipelines - V. Ba Clinical perspective - TBC	
16:15-16:30	Coffee break	
16:30-17:00	Artificial Intelligence (ETH) - TBC	

Wednesday, September 26, 2018

Statistics / Experimental design

09:00-09:45 09:45-10:30	Associations : correlation -> causality - 2 takes on what constitutes evidence Digital Epidemiology and big data - M. Salathé Evidence in personalised medicine - TBC
10:30-10:45	Coffee break
10:45-11:30 11:30-12:15	Example: what you can do with statistics on same dataset - TBC Experimental design including Metabolomics - Preanalytics - U. Amstutz
12:15-13:45	Lunch
13:45-17:45	Group work Personalised aging: How to personalise osteoporosis prevention, diagnostics and treatment J. Marc Connecting genes and diseases – from gene to diseases and back. (Computer aided seminar) C. Sipeky How to implement pharmacogenetic testing into clinical practice - The cases of Dpyd and UGT1A1 - M. Pazzagli Pre-emptive Pharmacogenomic testing: Case study of a workflow from sample to result P. Jacobs In silico analyses of DNA-protein, DNA-drug and DNA-DNA interactions – an approach to aid experimental design - C. R. Uppugunduri Satyanarayana PGx-phenotype association: Antiplatelets Therapy in acute coronary sindrome - S. Stanković Good practices of gene testing in personalised medicine of breast cancer patients - M. Miozzo Personalised medicine in diagnostics and monitoring of leukemia - H. Podgornik
16:30-16:45	Coffee break
	Student work prepare presentation
	School Party at Golf Club de Genève

Thursday, September 27, 2018

09:00-10:00	Biobanking Potential and challenges of Biobanks - V. Mooser
10:00-10:15	Coffee break
10:15-11:00 11:00-11:45	Ethical implications related to Biobanking & big data - E. Vayena Health economics of Personalised Health - <i>T. Szucs</i>
11:45-13:30	Lunch
13:30-14:30	Pharmacogenomics Cardiovascular Pharmacogenomics - <i>V. Manolopoulos</i>
14:30-16:30	Presentations of Group work - <i>J. Marc</i> Topics continued from Day 3
16:30-17:00	Coffee break
17:00-18:00	Closing unifying lecture - M.A. Rubin

▶ Friday, September 28, 2018

FEAM conference on Precision Medecine and Personalised Health 2018

ORGANISING SECRETARIAT



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CONGRESS VENUE

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