

Draft Agenda for the 19th RECETOX Summer School and WHO Training

Date: Monday, 12 June, 2023 – Friday, 16 June, 2023
Venue: Kamenice 753/5, RECETOX, Masaryk University, Brno, CR

Event is organized in two blocks:

Non-Target Screening Training
Human-Biomonitoring Training (WHO Educational course)

Participants can register independently or stay for a complete week programme.

lecturers

Dr Elliott James Price, RECETOX, CR
Helge Hecht, RECETOX, CR
Dr Yann Guitton, INRAE Oniris – LABERCA, France
Dr Julien Saint Vanne, LABERCA Nantes, France
Dr Irina Zastenskaya, World Health Organization, Germany
Prof Martin Bobák, University College London, United Kingdom/RECETOX, CR
Prof Hynek Pikhart, University College London, United Kingdom/RECETOX, CR
Prof Greet Schoeters, University of Antwerp, Belgium
Dr Janja Tratnik, JSI, Slovenia
Dr Jan Kuta, RECETOX, CR
Dr Ziga Tkalec, RECETOX, CR
Dr Kapil Mandrah, RECETOX, CR
Dr Katerina Coufalikova, RECETOX, CR
Dr Stepan Koudelka, RECETOX, CR
Dr Veronika Vidova, RECETOX, CR
Akrem Jbebli, RECETOX, CR
Hana Selicova, RECETOX, CR

Please note that this is the preliminary version of the programme and (minor) changes are still possible.

DAY 1

Summer School		
Monday, June 12, 2023	8:30 – 9:00	<i>registration</i>
	Block A: Non-Target Screening Training RECETOX, pavilion D29, Kamenice 5, lecture room RCX 1, 2 nd floor	
	9:00 – 10:00	Elliott James Price Metabolomics, metabonomics & chemical exposomics
	10:00 – 10:30	<i>break</i>
	10:30 – 12:30	Ziga Tkalec Akrem Jbebli Sample preparation & automation
	12:30 – 14:00	<i>break - lunch</i>
	14:00 – 15:00	Elliott James Price Kapil Mandrah Why has metabolomics not translated into clinics?
	15:00 -15:30	<i>break</i>
	15:30 – 17:30	Katerina Coufalikova Stepan Koudelka Spectral library building

DAY 2

Block A: Non-Target Screening Training			
RECETOX, pavilion D29, Kamenice 5, lecture room RCX 1, 2 nd floor			
Tuesday, June 13, 2023	9:00 – 10:00	Elliott James Price Ziga Tkalec The chemical exposome – moving from population to person	
	10:00-10:30	<i>break</i>	
	10:30 – 12:30	Veronika Vidova Kapil Mandrah Quantitative analysis	
	12:30 – 14:00	<i>break - lunch</i>	
			<u>Special session: Galaxy platform for data processing</u> lecture room RCX 2, 3 th floor
	14:00 – 15:00	Elliott James Price Veronika Vidova Hana Selicova QA/QC and reporting	14:00 – 15:30 Helge Hecht Yann Guitton Julien Saint Vanne Introduction to Galaxy
	15:00 -15:30	<i>break</i>	15:30 – 16:00 <i>break</i>
	15:30 – 17:30	Elliott James Price Kapil Mandrah Veronika Vidova Ziga Tkalec Akrem Jbebli Hana Selicova Wrap-up / loose end of sessions	16:00 – 17:30 Yann Guitton Julien Saint Vanne W4M landscape of tools

DAY 3

Block A: Non-Target Screening Training RECETOX, pavilion D29, Kamenice 5, lecture room RCX 1/2, 2 nd /3 th floor			
Wednesday, June 14, 2023	9:00 – 10:30	Helge Hecht Yann Guitton Julien Saint Vanne	LC-MS/MS data processing hands-on
	10:30– 11:00	break	
	11:00 - 12:30	Helge Hecht	RECETOX EIRENE-CZ workflows
	12:30– 14:00	break - lunch	
	14:00 – 15:30	Helge Hecht Yann Guitton Julien Saint Vanne	GC-MS data processing hands-on
	15:30 – 16:00	break	
	16:00 – 17:30	Helge Hecht	How to contribute/develop packages, end of training

DAY 4

Block B: Human-Biomonitoring Training RECETOX, pavilion D29, Kamenice 5, lecture room RCX 1, 2 nd floor			
Thursday, June 15, 2023	8:30 – 9:00	registration	
	9:00 – 10:00	Irina Zastenskaya	Lecture: Introduction in HBM: exposure to chemicals, policy support, biomarkers (of exposure), objectives
	10:00 – 11:00	Martin Bobák Hynek Pikhart	Lecture: Biomarkers of effects and sensitivity; exposome concept (testing the usefulness of biomarkers (validity, sensitivity, specificity, predictive values, testing improvement of prediction models)
	11:00 – 11:30	break	
	11:30 - 12:30	Martin Bobák Hynek Pikhart	Lecture: Principles of designing population health surveys (including sampling, statistical power, representativeness etc)
	12:30 - 13:30	break - lunch	
	13:30 – 14:00	Moderated by: Irina Zastenskaya	Students practical exercise: answer questions related to HBM in your country
	14:00 – 15:00	Irina Zastenskaya	Lecture: Planning and conducting HBM survey/study
	15:00 - 15.30	break	
	15:30 – 17:00	Moderated by: Irina Zastenskaya Janja Tratnik Martin Bobák Hynek Pikhart	Students practical exercise: planning and conducting HBM survey (define objective(s), selection of type of survey, selection of target population and biomarkers, calculation of sampling size
17:00 – 18:00	Irina Zastenskaya Janja Tratnik	Discussion of practical exercise results, Q&A, wrap up	

DAY 5

Block B: Human-Biomonitoring Training RECETOX, pavilion D29, Kamenice 5, lecture room RCX 1, 2 nd floor			
Friday, June 16, 2023	9:00 – 9:30	Janja Tratnik	Lecture: Laboratory analysis
	9:30 – 10:00	Martin Bobák Hynek Pikhart	Lecture on using routinely collected data and existing open access sources to monitor population health.
	10:00 – 10:30	Janja Tratnik Greet Schoeters	Lecture: Interpretation and communication of HBM results; use of HBM results for chemical risk assessment
	10:30 – 11:00	break	
	11:00 – 11:30	Irina Zastenskaya	Lecture: HBM experience – national and international programmes
	11:30 – 12:30	Moderated by: Irina Zastenskaya Greet Schoeters Janja Tratnik	Students practical exercise: communication of HBM results to different audiences
	12:30 – 13:30	break - lunch	
	13:30 – 14:30	Janja Tratnik Jan Kuta	Lecture: Mercury HBM
	14:30 – 15:30	Moderated by: Irina Zastenskaya Greet Schoeters Janja Tratnik	Students practical exercise: collecting epidemiological information
	15:30 – 16:00	Irina Zastenskaya	Discussion of practical exercise results, Q&A, wrap up, end of training