



EUROPEAN HUMAN BIOMONITORING INITIATIVE (HBM4EU) INDICATOR LEAFLETS

SCIENTIFIC TRAINING ACTIVITIES WITHIN HBM4EU

Indicator 10.1 Number of scientific training activities within consortium

 **SPECIFIC GOAL 10:** Promoting capacity building at national level through training and exchange programmes

 **RESPONSIBLE:** Radboud University Medical Center (RUMC), The Netherlands  **WORK PACKAGE:** 2 (EEA)

KEY MESSAGES

- The three organized training schools responded to training needs identified through the National Hubs
- Open access of training materials: most materials are publicly available in the online library
- Inclusiveness: training schools were open to all participants of HBM4EU. External ones could register if courses were not full, resulting in a widespread attendance from partner countries and non-HBM4EU countries

WHY

Deliver an effective training programme targeted at the needs of the HBM4EU community, with the aim of building capacities and promoting a coordinated approach to HBM across Europe

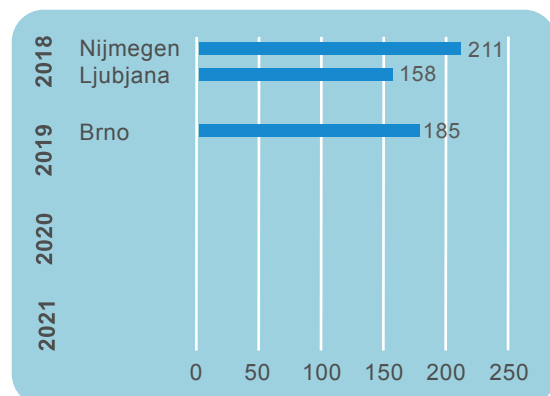
Added value in increased scientific excellence

Exchange of knowledge, including training with open access

Develop the capacities of the National Hubs by sharing the best practice and expertise of those countries with existing excellence in HBM activities

RESULTS

Number of HBM4EU training activities/year and person days of training



Map of participating countries in training activities



Ljubljana: 21 nationalities
Nijmegen: 32 nationalities
Brno: 14 nationalities


• places where training took place



Overview of training activities

LJUBLJANA			BRNO		
Name training session	WP	Online library	Name training session	WP	Online library
HBM4EU basic training	7 9 10 17	✓	PBPKs in HBM - basics, applications, interpretation, case studies	12 13	✓
Ethics	17	✓	Adverse outcome pathways (AOPs) & mechanistic toxicology	5	✓
Data management and basics of data analysis	10	✓	Risk assessment and use of HBM data - Case studies illustrating opportunities, challenges and gaps	15	
HBM in occupational health: applications to chromium	8	✓	HBM-based indicators / Risk communication and HBM Guidance Values (HBM-GV)	12 13	
Quality requirements, validation and implementation of analytical methods in HBM programmes	9	✓	From contaminants to populations	12 13	
Scoping documents	14	✓			

NIJMEGEN					
Name training session	WP	Online library	Name training session	WP	Online library
HBM4EU basic training	7 9 10 17	✓	Integrated exposure modelling/HBM data assimilation	12	✓
Interpretation of and access to human biomonitoring data in HBM4EU	10	✓	Mixtures and related data analysis	15	✓
Workshop on the alignment of studies in the frame of HBM4EU	8	✓	Determination of phthalate/DINCH and alkylpyrrolidone metabolites in urine	9	✓
Mycotoxins and pesticides biomarker analysis	9	✓			



ON TRACK

- One training session organized in 2019.
 - For capacity building and sustainability it is important to include a wide range of countries in the training activities.
 - Both geographical spreading and person days of training are important for this goal.
- Combination of basic and advanced training.
- Mix of topics.
- Training schools aligned with identified training needs.
- Call for proposal for training needs organized in October 2019.



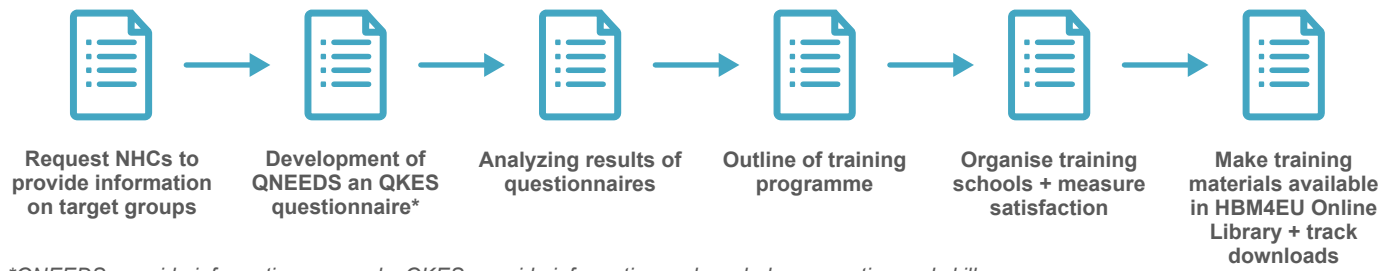
WORK IN PROGRESS

- Organisation of training in 2020 will be based on the call for proposals.
- 4th training school was postponed due to Covid 19 pandemic.





METHODOLOGY



*QNEEDS: provide information on needs; QKES: provide information on knowledge, expertise and skills



Training

