

Applications of Biological Monitoring in Occupational Health

Online Zoom Course
 3rd – 5th of October 2023

Tuesday, 3.10.2023

9.30–9.45	NIVA welcome and general information	Linda Oksanen, NIVA
9.45–10.00	Presentation round	Tiina Santonen, FIOH Paul Scheepers, Radboudumc
10.00–10.30	Introduction to occupational biomonitoring	Paul Scheepers
10.30–10.45	Q&A / Discussion	
10.45–11.00	<i>Break</i>	
11.00–11.45	The role of toxicokinetic in biomonitoring	Gunnar Johansson, KI
11.45–12.00	QA / Discussion	
12.00–13.00	<i>Lunch break</i>	
13.00–13.30	How to set up a HBM program or study	Paul Scheepers
13.30–14.00	Sources of preanalytical and analytical errors, interindividual variation. Standardization and quality control	Kate Jones, HSE
14.00–14.15	<i>Break</i>	
14.15–14.30	QA/Discussion	
14.30–15.00	Setting of reference limits for biomarkers	Simo Porras, FIOH

Wednesday, 4.10.2023

10.00–10.30	Setting of health-based guidance values for exposure biomarkers	Tiina Santonen
10.30–10.45	Q&A / Discussion	
10.45–11.00	<i>Break</i>	
11.00–11.45	Effect biomarkers in occupational health	Radu C. Duca, LNS
11.45–12.00	Q&A / Discussion	

12.00–13.00 *Lunch break*

13.00–13.45 Group work

13.45–14.30 **Illustrating examples on the use of HBM in occupational context:**

- **Use of biomonitoring in the assessment of CrVI exposure in metal surface treatment activities**
- **Biomonitoring of exposure of E-waste workers**
- **Biomonitoring and dermal exposure to diisocyanates**

**Susana Viegas, ENSP,
Radu C. Duca
Kate Jones**

14.30–14.45 *Break*

14.45–15.30 Group work

Thursday, 5.10.2023

10.00–10.45 **The role of biomonitoring in health surveillance and in exposure assessment and management at the workplaces: practices in different countries: UK, Belgium, Finland as examples**

**Kate Jones
Lode Godderis, KU
Leuven
Tiina Santonen**

10.45–11.00 Q&A / Discussion

11.00–11.15 *Break*

11.15–12.00 Presentation and discussion of the group works

12.00–13.00 *Lunch break*

13.00–13.30 **OECD guidance to advance the use of biological monitoring in occupational health**

**Robert Pasanen-Kase,
SECO**

13.30–14.00 Concluding remarks and closing of the webinar

**Tiina Santonen
Paul Scheepers
Linda Oksanen**