

COST-Action No. 15129: **DiMoPEx** (Diagnosis, Monitoring, Prevention of Exposure Related Non-Communicable Diseases)

Working Group 1 „Exposure Assessment“

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Tasks of WG 1

- Analysis of skills and expertise of DiMoPEX participants
- Dissemination of resources and information on procedures and quality assurance
- Identifying of future joint projects
- Training courses on assessment techniques
- Building capacities for exposure assessment

Tasks “Analysis of skills and experiences” and “Identifying future joint projects”

Regular surveys and consultations during the

- Workgroup meetings (Hamburg 2016; Leuven 2016; Bentovolio 2017; Porto 2018; Leuven 2019)
- Training School „Exposure Assessment“, Leuven, 17th – 19th October 2016
- Training course / Workshop of WG1 and WG2 on “Occupational and Environmental Health”, Leuven, 26th / 27th August 2019

Task “Identifying future joint projects”

Promising joint projects discussed on

- Nanomaterials
- Chemical mixtures
- Sensitizing agents (e.g. diisocyanates)
- Pneumoconiosis by exposure to silica, asbestos and coal mine dust
- Working Life Exposome
- e-Waste

⇒ IMPRESS guideline (publ.)

⇒ WHO/ILO systematic rev.
(publication in preparation)

⇒ Prep. of JH2020 research pr.

⇒ Discussion paper
(publication in preparation)

Tasks “Dissemination of resources and information on procedures and quality assurance” and “Training courses”

- Training School „Exposure Assessment“, Leuven, 17th – 19th October 2016
 - Indoor air assessment
 - Assessment of dermal exposure
 - Pitfalls in questionnaires for exposure assessment
 - Strategies, strengths, limitations and ethic issues of human biomonitoring (HBM)
 - HBM for civil protection and in chemical incidences
 - Biological effect monitoring, including sensitizing and ROS

Tasks “Dissemination of resources and information on procedures and quality assurance” and “Training courses”

- Training course / Workshop of WG1 and WG2 on “Occupational and Environmental Health”, Leuven, 26th / 27th August 2019
 - Occupational exposure to isocyanates
 - Biomonitoring of PAH and PFAS exposure
 - Health implications of e-waste transportation and treatment
 - Interactions in metal toxicity
 - Population exposure to metals and pesticides nearby industrial and agricultural sites
 - Biological effect monitoring (micronuclei frequency)

Deliverables

- Publication on the DiMoPEX strategy with special view on “Exposure assessment” (WG1) and “Toxicology” (WG2):

P. Scheepers, T. Göen:

**Diagnosis, Monitoring and Prevention of Exposure-Related
Non-Communicable Diseases – Searching for signatures.**

Pan European Networks: Science & Technology 22 (2017), 130-133

Deliverables

- Publication of the IMPRESS guideline (Joint project of several DiMoPEX working groups):

X. Baur, C.A. Akdis, L.T. Budnik, M.J. Cruz, A. Fischer, U. Förster-Ruhrmann, T. Göen, O. Goksel, A.R. Heutelbeck, M. Jones, H. Lux, P. Maestrelli, X. Munoz, B. Nemery, V. Schlünssen, T. Sigsgaard, C. Traidl-Hoffmann, P. Siegel:

Immunological methods for diagnosis and monitoring of IgE-mediated allergy caused by industrial sensitizing agents (IMExAllergy).

Allergy 74 (2019), 1885-1897

Conclusions / Lesson learned

- High linkage to other DiMoPEX working groups, e.g. WG2, WG3, ...
- High desirability and positive evaluation results of training courses and subject-specific workshops (dedicated to WG1 members)
- High interest in but low implementation of joint research projects (during DiMoPEX term)
 - preparation of joint projects needs more time
 - implementation needs funding

Conclusions / Lesson learned

- Demonstrating of well working network of DiMoPEX partners by joint publication as strategy to facilitate successful application for funding
- Linkage to other parallel actions
 - HBM4EU project

How shall we maintain the network?