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 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, 17\textsuperscript{th} – 19\textsuperscript{th} 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)
• 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):


  **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?