**A1** Project Code | IPA-23 GenTox  
**A2** Project Title | Genotoxicity of chemicals  
**A3** External Cooperation Partners | Institut National de Recherche et de Sécurité (INRS); France  
| | University of Cincinnati, Cincinnati, OH, USA  
**A4** Project Manager(s) | Dr. Sabine Plöttner

### B1 – Aims

- Use of multiple genotoxicity tests to study DNA damage of chemicals in humans (in vivo) and in cell lines (in vitro).
- Improving methods to assess genotoxicity and mutagenicity of chemicals, e.g., developing high-throughput methods based on flow cytometry or automated methods based on imaging microscopy to assess chemically-induced mutagenic effects in exposed workers.
- Identifying early genotoxic events such as the formation of DNA adducts in vivo and in vitro.

### B2 – Endpoints/Substances and Methods of Interest

- PAH-induced lung and bladder cancer, e.g., in coke oven workers
- Metal-induced lung cancer, e.g., in welders
- Aromatic amine-induced bladder cancer
- Imaging Microscopy
- Flow Cytometry

### B3 – Selected Publications


