

A1	Project Code	IPA-136 GerES
A2	Project Title	Exposure of the general population in Germany to hazardous substances in the environment
A3	External Cooperation Partners	Federal Environment Agency (UBA)
A4	Project Manager(s)	Dr. Daniel Bury Dr. Holger M. Koch

B1 – Aims
<ul style="list-style-type: none"> • Contribute to establish reference levels for environmental chemicals in blood and urine samples of the German general population based on the 95th percentile level (and its upper confidence interval) • Create conditions to analyze biological samples (urine, blood) in the German National cohort (NaKo) for environmental chemicals • Analyze the time course of exposures (i.e. annual changes) to environmental chemicals in the general population and – if possible – over several decades
B2 – Current Substances of Interest
<ul style="list-style-type: none"> • Phthalates and their substitution products (e.g. DINCH, DPHP, etc.) • Bisphenol A • Parabens • Triclosan • <i>N</i>-alkyl-2-pyrrolidones
B3 – Selected Publications
<p>Moos RK, Apel P, Schröter-Kermani C, Kolossa-Gehring M, Brüning T, Koch HM (2017) Daily intake and hazard index of parabens based upon 24 h urine samples of the German Environmental Specimen Bank from 1995 to 2012, <i>J. Expo. Sci. Environ. Epidemiol.</i>, in press.</p> <p>Koch HM, Rütther M, Schütze A, Conrad A, Pälme C, Apel P, Brüning T, Kolossa-Gehring M (2017) Phthalate metabolites in 24-h urine samples of the German Environmental Specimen Bank (ESB) from 1988 to 2015 and a comparison with US NHANES data from 1999 to 2012. <i>Int. J. Hyg. Environ. Health</i> <u>220</u>: 130-141.</p> <p>Moos RK, Koch HM, Angerer J, Apel P, Schröter-Kermani C, Brüning T, Kolossa-Gehring M (2015) Parabens in 24 h urine samples of the German Environmental Specimen Bank from 1995 to 2012. <i>Int. J. Hyg. Environ. Health</i> <u>218</u>: 666-674.</p> <p>Schütze A, Gries W, Kolossa-Gehring M, Apel P, Schröter-Kermani C, Fiddicke U, Leng G, Brüning T, Koch HM (2015) Bis-(2-propylheptyl)phthalate (DPHP) metabolites emerging in 24h urine samples from the German Environmental Specimen Bank (1999-2012). <i>Int. J. Hyg. Environ. Health</i> <u>218</u>: 559-563.</p> <p>Koch HM, Kolossa-Gehring M, Schröter-Kermani C, Angerer J, Brüning T (2012) Bisphenol A in 24 h urine and plasma samples of the German Environmental Specimen Bank from 1995 to 2009: a retrospective exposure evaluation. <i>J. Exp. Sci. Environ. Epidemiol.</i> <u>22</u>: 610-616.</p> <p>Schulz C, Wilhelm M, Heudorf U, Kolossa-Gehring M, Human Biomonitoring Commission of the German Federal Environment Agency (2011) Update of the reference and HBM values derived by the German Human Biomonitoring Commission. <i>Int. J. Hyg. Environ. Health</i> <u>215</u>: 26-35.</p>