

Bioactivity: exposure ratios derived from a systemic NAM-toolbox distinguish between low- and high-risk chemical exposure scenarios

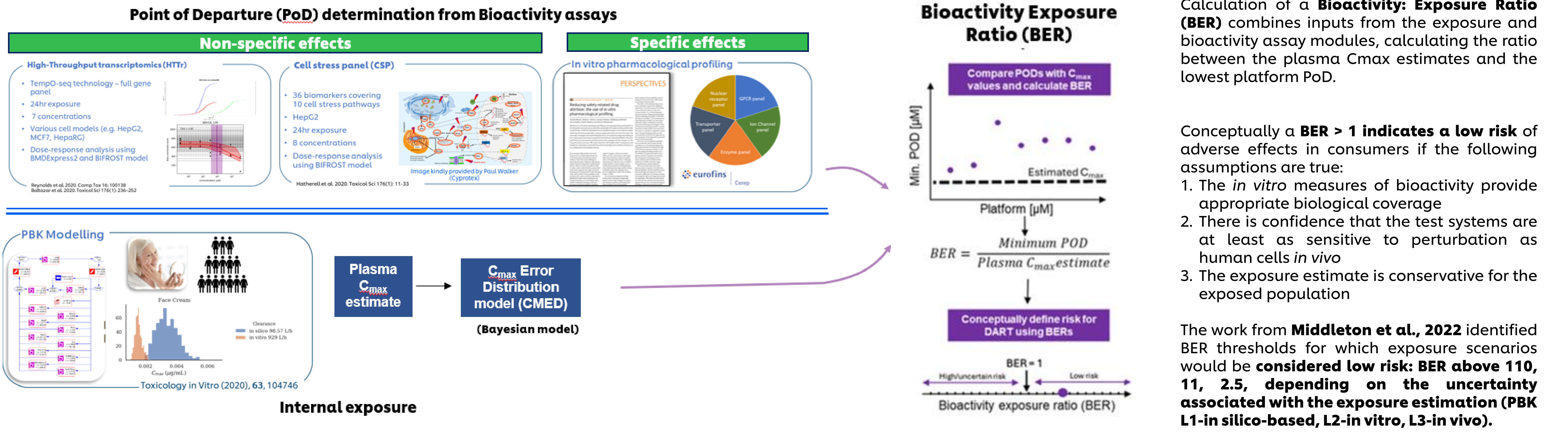
Sophie Cable¹, Maria Teresa Baltazar¹, Fazila Bunglawala¹, Paul L. Carmichael¹, Leonardo Contreas¹, Matthew Philip Dent¹, Jade Houghton¹, Sophie Malcomber¹, Beate Nicol¹, Katarzyna R Pryzbylak¹, Ans Punt¹, Georgia Reynolds¹, Joe Reynolds¹, Sharon Scott¹, Dawei Tang¹, Alistair M Middleton¹, **Predrag Kukic¹**

¹Safety, Environmental & Regulatory Science (SERS), Unilever, Colworth Science Park, Sharnbrook, UK

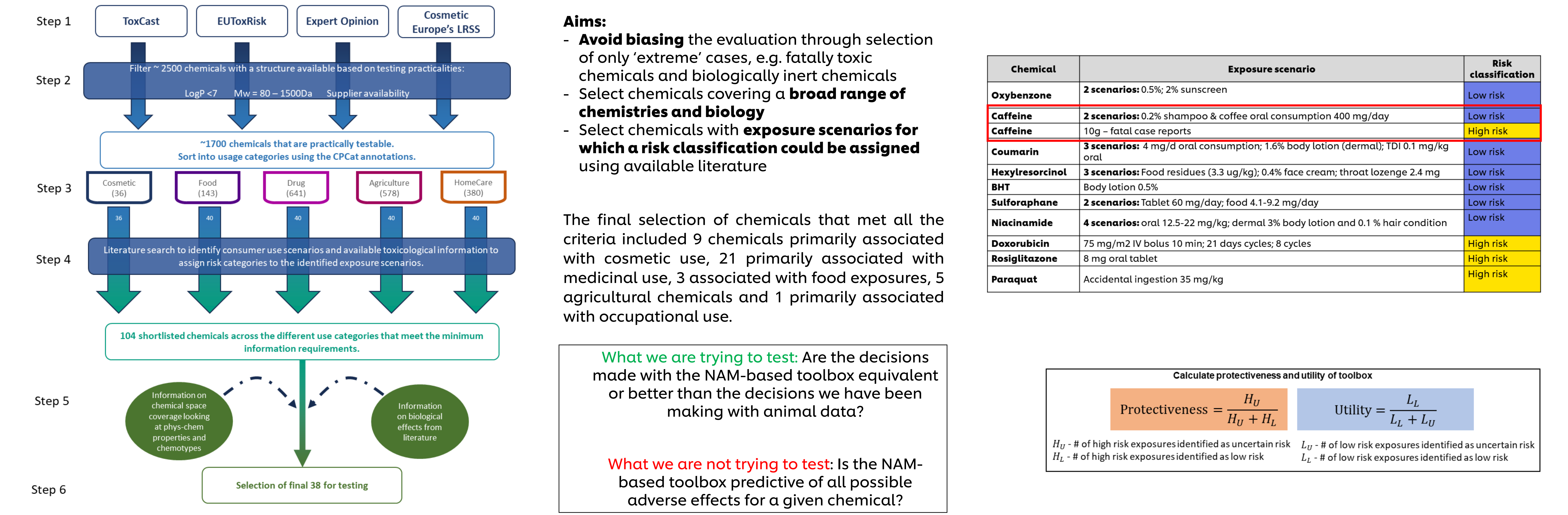
Background

A critical question for risk assessors and regulators is whether safety assessments based on non-animal data can be protective of human health. One important way of establishing scientific confidence in decision making using non-animal methods is through large scale data-driven projects across a broad range of chemistries and biology. Here we show the results of an evaluation activity of a core toolbox of *in vitro* assays and a risk assessment workflow for decision making using benchmark chemical exposure scenarios to interpret the performance of the toolbox and the workflow.

Define Toolbox Components and Perform Proof of Principle Study



Select Test Chemicals and Set Performance Criteria



Evaluation Results

