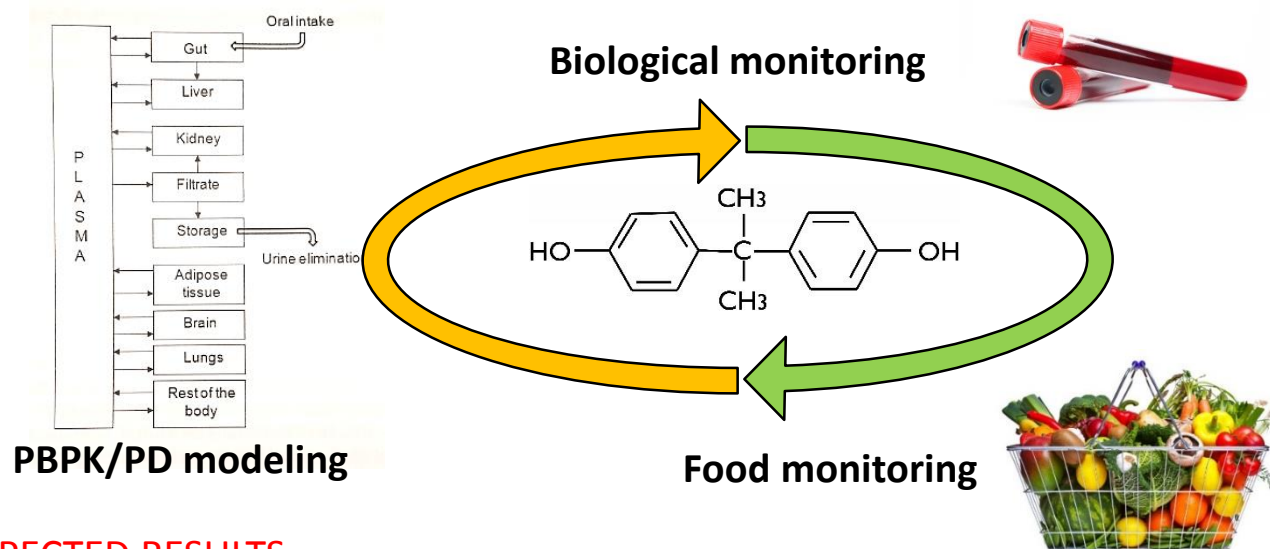


## PBPK/PD MODELING OF BISPHENOL A AND ITS ANALOGUES: THE MIXTURE APPROACH

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### MAIN GOALS

- ✓ To analyze the concentrations of bisphenol A (BPA) and some analogues (BPS and BPF) in food samples marketed in Spain.
- ✓ To evaluate the dietary intake of BPA and its analogues by the general population.
- ✓ To develop and validate a physiologically-based pharmacokinetic/pharmacodynamic (PBPK/PD) model to estimate the body burdens of BPA, BPS and BPF in humans.
- ✓ To analyze the concentrations of BPA, BPS and BPF in samples of urine and blood from adults living in Spain.
- ✓ To derive recommendations for the potential replacement of BPA by alternative chemicals in terms of risk assessment of dietary exposure.



### EXPECTED RESULTS

- ✓ Development of a PBPK/PD model to simulate and predict the distribution and accumulation of BPA.
- ✓ Determination of the aggregated and the cumulative exposure to BPA and its analogues through food consumption.
- ✓ Biomonitoring of BPA and its analogues in different subpopulations.
- ✓ Protocols for the minimization of the dietary intake of BPA and its analogues, and recommendations for food safety agencies and the general population.