

# EDC-MixRisk

## “Integrating Epidemiology and Experimental Biology to Improve Risk Assessment of Exposure to Mixtures of Endocrine Disruptive Compounds”

### Summary

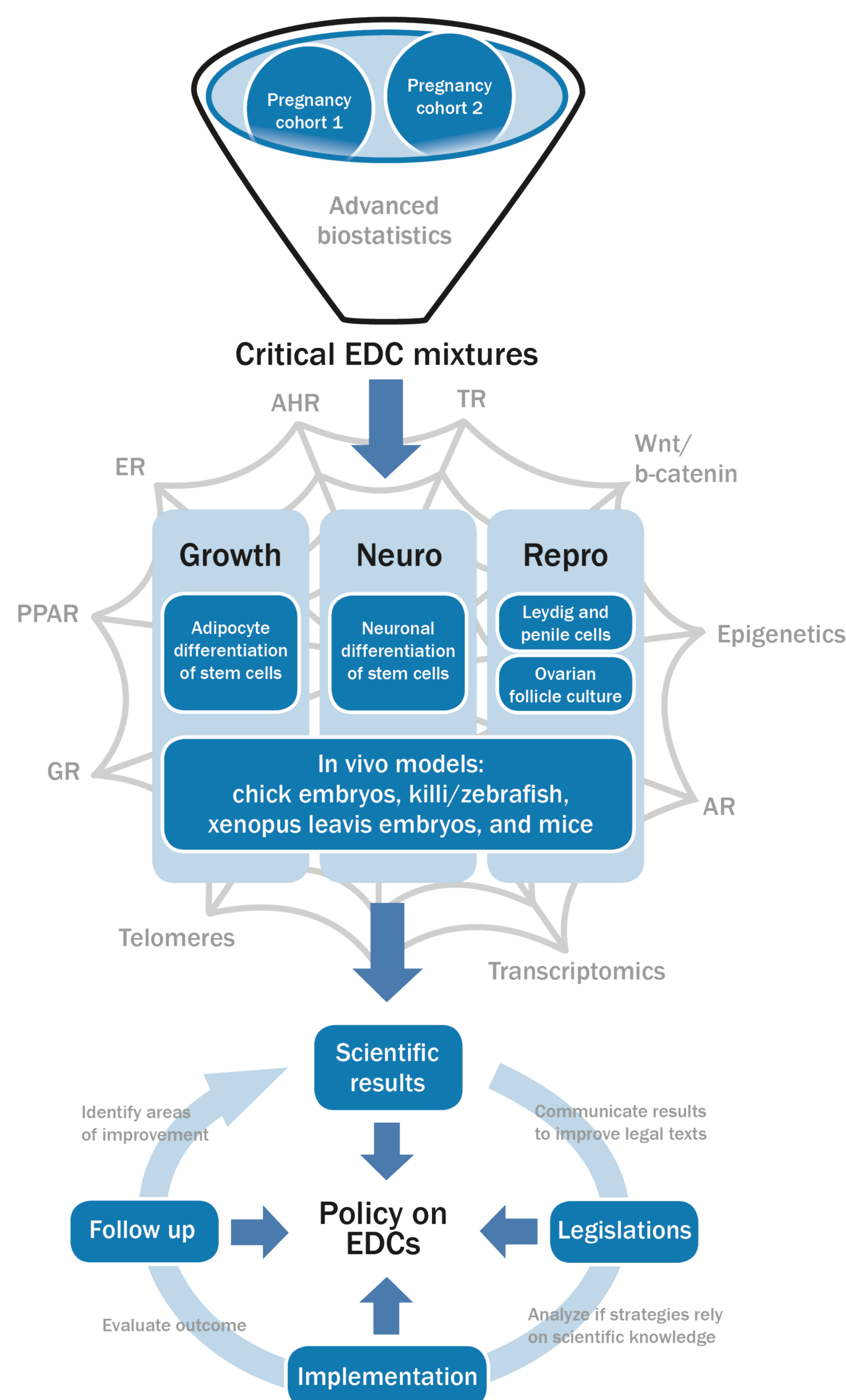
The EU-project EDC-MixRisk meets the societal need for improved decision-making regarding human exposure risks to mixtures of EDCs. Experts from eleven European and one American university will determine risks for multiple adverse health outcomes after early life exposure to EDC mixtures, based on molecular mechanisms. Our interdisciplinary approach involves selection, refinement and development of tools for risk assessment of EDC mixtures to bring current procedures to a level where they can support risk management. The ultimate goal is a safer environment for the next generation.

1.

Biostatistical analyses of already collected epidemiological material from two large European cohorts including 3000 mother-child pairs are used to identify mixtures associated with adverse health outcomes in three domains: growth and metabolism, neurodevelopment, and sexual development. Two highly experienced chemical laboratories prepare the identified mixtures.

3.

The results from the experimental studies are used to refine the epidemiological relationship between the tested mixtures and health outcomes. Further, EDC-induced changes found in the model systems are tested in the human samples to identify markers for exposure and adverse outcomes.



2.

The mixtures are tested in relevant state-of-the-art animal and cell models to identify molecular mechanisms and pathways underlying the associations between exposure and adverse health outcomes.

4.

A transparent and systematic framework in risk assessment is developed for integrating epidemiological and experimental research results from this project and other studies. This will facilitate the assessment of risk and societal impact, thus promoting better risk management for EDCs and their mixtures.

Do not hesitate to contact us!

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EDC-MixRisk  
safe chemicals for future generations



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