Bio-based solvent production from lignocellulose derived sugars and aromatics

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Summary

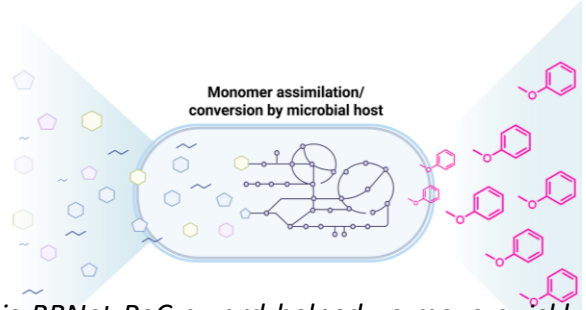
This project establishes a novel biotechnological route for producing the green solvent anisole from lignocellulose-derived feedstocks using *Pseudomonas putida*.

Aims

- Engineer *P. putida* to produce anisole from lignocellulose-derived sugars and aromatics
- Develop and optimise a fed-batch bioprocess using corncob hydrolysate
- Assess the environmental and economic viability of the process through life cycle analysis (LCA) and techno-economic assessment (TEA)

Outcomes

- Demonstration of anisole production directly from renewable lignocellulosic feedstocks
- Evaluation of environmental and economic performance of bio-anisole production compared to petrochemical production



"This BBNet PoC award helped us move quickly from concept to proof of principle, accelerating our ability to explore bio-based alternatives to petrochemical solvents"

Micaela Chacón, University of Manchester

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