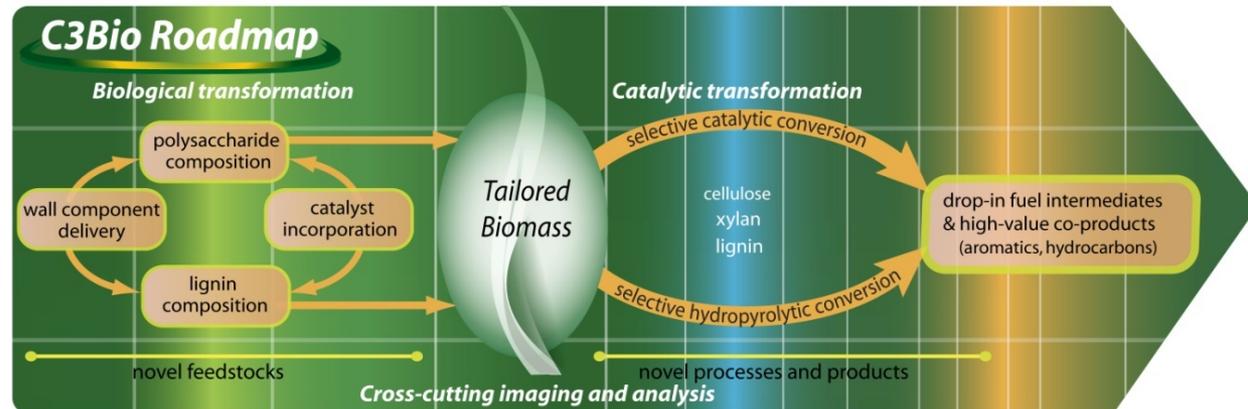


Center for Direct Catalytic Conversion of Biomass to Biofuels (C3Bio)

Maureen McCann (Purdue University)

C3Bio develops transformational knowledge and technologies for the direct conversion of plant lignocellulosic biomass to biofuels and other biobased products currently derived from oil.



RESEARCH PLAN AND DIRECTION

We will increase the energy and carbon efficiencies of converting biomass to advanced biofuels by the synergistic design of biomass and the thermal and chemical conversion processes. By applying new catalytic transformations, achieving an atomic-to-macromolecular scale understanding of how catalysts interact with biomass, and tailoring biomass for highly efficient direct catalytic conversion, we will *more than double* the carbon captured into energy-rich advanced hydrocarbon fuels and other high-value products. Our interdisciplinary teamwork bridges the complexity of biology to the selectivity of chemistry and enables solutions through engineering.