

Abstract:

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TITLE: "Enzymatic Polymerization: Biotechnology Enabled PolySaccharides & Applications"

ABSTRACT:

Polysaccharides are important biopolymers with a wide range of industrial and consumer product applications. Historically, structural polysaccharides such as cellulose have been the backbone of early material science for applications in fibers, films and early thermoplastics.

DuPont Industrial Biosciences has developed a new family of polysaccharides ranging in molecular weights, solubility, and polymer architecture. The enzymatic polymerization process offers the opportunity to design the polymer structure and the material properties of these new biomaterials. This presentation will describe this new class of biomaterials along with a series of first application examples and customer developments.