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Biomanufacturing of bioethanol

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The demand of bioethanol as a substitute for gasoline is gradually increasing. Renewable plant biomass is an attractive lignocellulosic raw material for bioethanol biomanufacturing. However, the cost-effective bioethanol biomanufacturing from biomass is challenging. The objective of this study was to determine the sugar content of biomass waste, enzymatic saccharification, fermentation of the resulting simple sugars, and bioethanol yield in different plants. This method can help to develop cost-effective downstream processes for bioethanol biomanufacturing. We will present the different plant biomass bioethanol downstream processing data.

Biography

Biography Sivakumar's research is primarily focused on biotech implications and applications of high-value natural products. He has extensively studied the plant-based small molecules pathway biochemistry, synthetic biology and metabolic & bioprocess engineering. He is internationally recognized in the field of biopharmaceuticals and a pioneer in industrial-scale production of bioactive molecules. He has over 40 publications. He is also on the editorial board of several journals. He serves as an expert of grant proposals as well as numerous scientific journals. His laboratory focuses on metabolic and bioprocess engineering of colchicine pathway and developing potential anticancer medicine. In addition, his group is interested in developing biofuels to address energy and environmental problems

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