

Biocatalytic Conversion of Biomass to Chemicals

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Abstract

This presentation will give an overview of the field of biocatalytic saccharification, including pretreatment options, and subsequent conversion to industrial chemicals.

Biography

Steve Collier received his B.Sc. (Hons) in Chemistry with Industrial Chemistry in 1994 and then his PhD in organic synthesis in 1998, both from the University of Liverpool. He then spent 3 ½ years working in the UK, ultimately progressing to the position of Project Team Leader at Ultrafine (now part of SAFC Pharma), working on complex custom synthesis and process development projects. In 2001 he joined the Chemical Development Dept. of AMRI in Albany, NY, and in 2005 he moved to Singapore as a Team Leader to help establish and grow AMRI's Singapore Research Centre, working on projects including process development, custom synthesis and medicinal chemistry. In 2008, Steve joined Codexis Laboratories Singapore as Head of Chemical Development and in early 2009 he became the head of Codexis' Singapore operation, as Director of R&D, working on the development of engineered biocatalysts and processes for the production of pharmaceuticals and industrial chemicals. He is an Adjunct Associate Professor at the Dept of Chemistry at Nanyang Technological University, and a member of the Editorial Advisory Board of the journal Organic Process Research and Development.