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A new era of biocatalysis and biotransformation: Tailor-making biocatalyst towards bioproducts

Manufacturing of bioproducts, such as pharmaceuticals, food and cosmetic additives, chemicals etc., has stepped into a new era, where cell factory or molecular machine will play more and more important role for meeting the requirements of mankind. In the recent years, tailor-design has been paid much attention in the area of biosynthesis and biotransformation since it will deeply influence the bioprocess. By means of combination of the advanced methods and techniques coming from different discipline, such as bioinformatics, computational biology, molecular biology, enzyme engineering, biocatalysis, synthetic biology and so on, a novel enzyme could be created, an existing enzyme could be redesigned and reconstructed,

even a microorganism could be reedited and reassembled towards the expected valuable compound. In this presentation, some established cases will be shared and analyzed.

Speaker Biography

Dongzhi Wei has completed his PhD in 1989 from East China University of Science and Technology, China. He is the director of New world Institute of Biotechnology and professor of Biotechnology in East China University of Science and Technology. He has over 200 publications that have been cited over 6000 times, and his publication H-index is 34 and has been serving as editorial board members of 5 reputed Journals.

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