

Biocatalysis Based On Heme Peroxidases

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This monograph will cover the applications of peroxidase-based biocatalysis in the biotechnology industry. Moreover, a considerable amount of new data regarding the phylogeny, reaction mechanisms, thermodynamic characterization and structural features of fungal and plant peroxidases has been generated in the past 10 years, since the last specialized book on peroxidases was published. The book covers aspects of the biocatalytic performance of peroxidases, their industrial applications, the different methods to improve their functionality, their behavior in catalytic reactors, and the limitations of their application in biotechnological processes. Also included is an appendix in which a vast amount of biological, physical and chemical properties of peroxidases is gathered, with both data of the basal state of the enzymes as well as data of the activated catalytic intermediates, known as Compound I and Compound II. EAN/ISBN : 9783642126277 Publisher(s): Springer, Berlin Discussed keywords: Biotechnologie Format: ePub/PDF Author(s): Torres, Eduardo - Ayala, Marcela

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