CYCLE DE CONFÉRENCES DE CHIMIE

Avec le concours de : Université Clermont Auvergne
SIGMA Clermont

Jeudi 10 juin à 16 h

En distanciel via TEAMS

Ulf HANEFELD

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Diastereoisomers and Chirality: Enzymes and Engineering in Action

Ever since the first enantioselective synthesis in 1908 enzymes are central to preparing stereocentres enantioselectively. For this kinetically controlled step two 1,2 disconnections will be explored: the synthesis of cyanohydrins and of acyloins. The emphasis will be on both, enzyme and reaction engineering.

When further extending the number of stereocentres, the process can be either kinetically or thermodynamically controlled. This leads to unexpected results in the aldol reaction. But most importantly the observations of kinetic versus thermodynamic control that is textbook knowledge for the Diels-Alder-reaction, is equally applicable to diastereoselective catalysis in general.

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