

N[]581 / OC TOPIC(s) : Industrial biocatalysis / Enzyme discovery and engineering

Accelerating the implementation of Biocatalysis in API synthesis: Contribution to Sanofi eco-design commitment

AUTHORS

Alain RABION / SANOFI, 9 QUAI JULES GUESDE, VITRY/SEINE

PURPOSE OF THE ABSTRACT

Sanofi has committed to improving the impact of its processes on the global environment. Sanofi Process Chemistry organization utilizes rigorous metrics to prioritize, guide the development of processes toward meeting these important goals.

Biocatalysis is widely regarded as a sustainable technology to innovate API synthesis. Sanofi is accelerating the development of strong mindset and efficient capabilities in biocatalysis to foster eco-design and promote greener solution for its synthetic processes.

In this presentation, we will describe how Sanofi is building its internal end to end Biocatalytic platform from gene identification to biotransformation reaction. We will highlight the successful implementation of biocatalytic approaches for synthesizing chiral Sanofi pharmaceutical intermediates in early development phase and late stage for potential commercial routes. Positive contribution of biocatalysis towards green metrics will be presented for Sanofi API synthesis.

FIGURE 1

FIGURE 2

KEYWORDS

Biocatalytic platform | eco-design | API synthesis | commercial routes

BIBLIOGRAPHY