

**Abstract:**

Nowadays commonly used, the term “Sustainable Bioeconomy” is only little more than a decade old. It is not a short-lived hype and even more than a trend: It is basically a term for the necessity to become more efficient in both energy and resources consumption in all fields of supply. The key to both is catalysis as a main driver for more efficient manufacturing processes. Enzymes, being intrinsically sustainable, play a critical role in almost all forms of applications in that context. But what looks simple on paper can be quite complex and challenging in practice. This presentation focusses on the challenges of both development and manufacturing of enzymes from an industry point of view.