



Written on 08 November 2021



2 minutes of reading



News

Fundamental Research

Renewable energies

Bio-based chemistry



On 15 October, Rémi Hocq, a former IFPEN PHD student was awarded the [2020 Marcel Loncin prize](#) by the association of chemists, engineers and executives in the food and agricultural Industries (Acia) for his research work on *Clostridium beijerinckii* DSM 6423, an emerging platform strain for solvent bioproduction.

This thesis, defended in 2019 and previously singled out for the [2020 Yves Chauvin Prize](#) and the [Dufrenoy silver medal](#) was conducted at IFPEN and supervised by [Nicolas Lopes Ferreira](#) and François Wasels, with technical support provided by the Genoscope d'Evry French National Sequencing Center and Paris Saclay University. In particular, Rémi Hocq validated the use of a genetic modification tool based on CRISPR-Cas9 technology in the DSM 6423 strain and patented a first strain compatible with a genetic improvement approach. He also determined the fermentation performances of this microorganism on model or industrial substrates (ethanol distillery beet or sugarcane molasses).

Lastly, via an in-depth multi-omics study, he acquired a large volume of biological data in order to gain a better understanding of the physiology and regulation mechanisms inherent to this new platform strain for the production of bio-based Isopropanol and n-Butanol.

Rémi Hocq is currently a postdoctoral researcher at Boku Vienna (University of Natural Resources and Life Sciences).

>> More information on research relating to [Clostridium beijerinckii](#) (in French)

Rémi Hocq, a former IFPEN PhD student, receives a 3rd award for his research work  
08 November 2021

Link to the web page :