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FULL TRANSCRIPT (with timecode)

00:00:05:20 - 00:00:46:03

Hello together, I'm Ralf Takors. I'm heading the priority program "InterZell", which is funded by the DFG. It is dealing with a cell to cell and cell to Bioreactor interaction, which means that we want to establish new production systems composed of different type of microorganism. This is different to the monoculture approach and having done so we want to transfer to results to large-scale production. Both are topics of inter self.

00:00:46:05 - 00:01:23:20

It is essential to have this product funded under the DFG because we need to have excellent basic research, which is separated so far on different institutions in Germany, and now needs to be networked and brought together to create something new out of that. The network of SPP 2170 is located in Germany. 21 PhD students are trained by SPP 2170.

00:01:23:22 - 00:01:56:20

This is the day by day activity. We also try to give them social skills, which they need later on start working jobs in Industry. We structure research in SPP 2170 in five categories. The first category is the research on phototrophic organisms the 2nd is the use of gas in Co-cultures and the third is Population Studies. The next is scaling up and the fifth actually is the investigation of new platforms for investigating the interaction of submerged mixed cultures

00:01:56:22 - 00:02:57:23

Mimic is a project there we aim to produce the antibiotic Violacein in a synthetic Co-culture with E. coli cells. The production of antibiotics interesting because antibiotics are important to save our life. CHOLife is a project which is assigned to the scaling up issue of SPP 2170 and we want to investigate what might hamper the performance values of a million cells producing a certain antibody compared to the performance in large-scale meaning in 12,000 l bioreactor.

00:02:58:00 - 00:03:13:10

We want to get basic research results in the first three years, and we hopefully get the opportunity to get funded for another three years, to transfer the result.