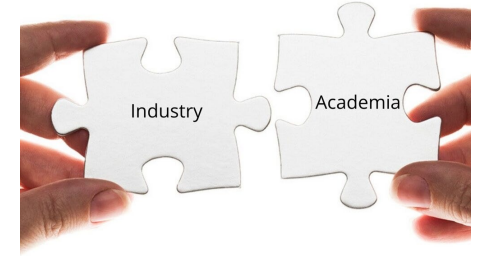




Vereinigung für
Allgemeine und
Angewandte
Mikrobiologie



6. VAAM Industry-Academia Panel

16.03.2023

“High throughput screening in strain and biocatalyst development”



Prof. Dr. Beatrix Süß (Synthetic RNA Biology, TU Darmstadt)

„Next-level riboswitch development - Implementation of Capture-SELEX allows fast and easy identification of new synthetic riboswitches “

Synthetic riboswitches are promising tools not only for conditional gene expression but also for biosensing. However, their engineering is not straightforward and often requires a combination of in vitro selection and in vivo screening. We report novel design strategies and selection methods for efficient riboswitch development.



Dr. Andreas Meyer, Ginkgo Bioworks (fka FGen AG), Basel

„High throughput screening – not only a numbers game “

The analysis of microbial strains at high throughput typically involves the scale down of final application conditions. Cell encapsulation offers a powerful tool for miniaturization and enables the cultivation of microbial strains under process relevant conditions, thus reducing the risk of failure during scale-up. We will highlight how such methods can accelerate and allow to fully exploit the design-build-test-learn (DBTL) cycle of modern synthetic biology.