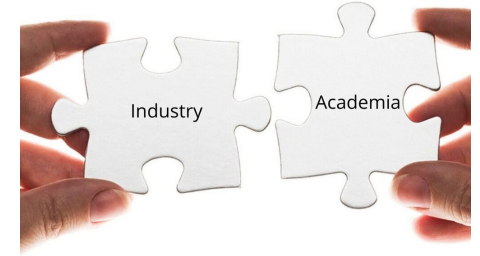




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8. VAAM Industry-Academia Panel

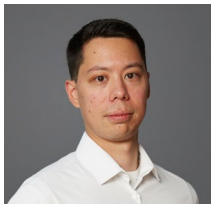
20.07.2023

Recent advances in phage drug development & application



Dr. med. Silvia Würstle, Med. Klinik II, Schwerpunkt Infektiologie, Universitätsklinikum Frankfurt/ Main

Bacteriophages, the "good" viruses capable of killing bacteria, help maintain the microbial balance in nature by specializing on their bacterial hosts. With precision medicine becoming increasingly important in healthcare and with the global antibiotic resistance pandemic on the rise, bacteriophage therapy (phage therapy) is gaining attention. Clinical case studies show favorable effects, but several steps need to be taken in Germany before patients can be offered high-quality phage therapy without delay when antibiotic treatment fails.



Dr. Patrick Grossmann, Invitris GmbH, Garching

While phage therapy holds enormous potential to contribute in solving the antibiotic crisis, production methods have essentially not innovated for a century. Here, we present a novel approach to phage synthesis based on cell-free technology. This approach enables new applications of phage therapy including scalable personalization and precise target delivery.