

# Method for obtaining phage-resistant strains of pectinolytic bacteria

## **About technology**

Bacteriophages (phages) are viruses that attack and infect only bacteria. Most research on bacteriophages analysing their interaction with host cells (bacteria) at the molecular level. To this end, of bacteria resistant mutants bacteriophage infection - so-called phageresistant strains - are constructed using genetic engineering tools. The genomes of such bacterial strains are later analysed to determine exactly where the mutation causing resistance viral infections to occurred.

Bacteriophages have a wide range of applications:

- in medicine,
- in the pharmaceutical industry,
- in agriculture,
- in technological processes.

The offered solution includes a **method for obtaining** phage-resistant strains (variants) of pectinolytic bacteria, especially **Dickeya** and **Pectobacterium** bacteria, including Dickeya solani. The obtained variants find application in studies of the emergence of bacterial resistance to bacteriophage infection, virulence studies of pectinolytic bacteria and their environmental adaptation and evolution.



### Research Team

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### **IP Protection**

The invention is the subject of polish patent protection Pat.236445.

# Implementation progress

**TRL 4** –Technology validated in laboratory conditions

# **Cooperation opportunities**

- Licensing agreement
- Transfer of ownership
- Spin off