





### Přednáška 5.12.2022

Místo konání: Ústav přístrojové techniky AV ČR, v. v. i. (přednáškový sál) Královopolská 147, 612 64 Brno

Přednáška je organizována v rámci Strategie AV21 Akademie věd České republiky, výzkumný program Průlomové technologie budoucnosti.

# Title: Bacteriophage application, production and purification.



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### **Curriculum vitae**

Ph.D. in medical biology, spec. Immunology Hirszfeld Institute of Immunology and Experimental Therapy, Polish Academy of Sciences

Postgraduate studies: project management Higher School of Banking, Wroclaw, Poland

### **Personal Statement**

My research interests focus on interactions between bacteriophages (phages) and mammals. I study the impact of phages and phage derived proteins on mammalian immune system, phage adhesion to eukaryotic cells and tissues, phage pharmacokinetics as it relates to therapeutic applications to animals and humans. Immune response to phages as biodrugs and their circulation in bodies are key factors that determine phage pharmacokinetics and pharmacodynamics.

Bacteriophages, as bacterial viruses active against multidrug resistant pathogens, are used in treatment of patients in the Phage Therapy Unit at the Hirszfeld Institute of Immunology and Experimental Therapy in Wroclaw, Poland. People suffer from different bacterial infections can be cured in the program of the experimental treatment. Phages prepared for phage treatment are produced and purified in the Bacteriophage Laboratory. Additionally, members of the Phage Molecular Biology Lab study aspects of phage and phage-derived proteins production and purification. The aim of this lecture will be a presentation of aspects concerning phage therapy and phage preparation and purification processes.

Přednáška začíná v pondělí 5.12.2022 v 10:00, malé občerstvení bude podáváno v předsálí ÚPT od cca 9:30.

Uvítáme vyplnění registračního formuláře do 1.12. 12:00 https://bit.ly/3EX46ng



