

## PUBLIC LECTURE EVALUATION

### Masaryk University

<b>Faculty</b>	Faculty of Science
<b>Procedure field</b>	Molecular Biology and Genetics
<b>Applicant</b>	doc. RNDr. Roman Pantůček, Ph.D.
<b>Lecture date</b>	17. 9. 2021
<b>Lecture topic</b>	Viry, které léčí – možnosti aplikací bakteriofágů v medicíně
<b>Persons present</b> (number)	76
<b>Designated evaluators</b> (board members)	prof. RNDr. Jan Šmarda, CSc. (on-site) prof. MUDr. David Šmajš, Ph.D. (on-site) prof. MUDr. Pavel Dřevínek, Ph.D. (on-site)

Lecture by Dr. Roman Pantůček was held on September 17, 2021 from 10:00 am in the lecture hall 306 of the pavilion B11 of the university campus in Brno - Bohunice, Kamenice 5. The 60-minute lecture presented in a very comprehensible form was well conceived and accompanied by carefully prepared and illustrative documentation. Dr. Pantůček started the lecture with a broad overview of the causes responsible for the increasing antimicrobial resistance (AMR) of bacteria to antibacterial agents and described alternative approaches to overcome the AMR. Among them, he mentioned the use of bacteriophages and devoted most of his lecture to this topic. He familiarised the audience with the safety risks of the clinical use of phagotherapy, its synergy with the use of antibiotics, and the results of clinical trials that have not so far met their primary endpoints, due mostly to the study design issues. Thus, their commercial production is very limited, and the therapy is largely based on the compassionate use only. In the second half of the lecture, Dr. Pantůček very clearly presented his own contribution to the production of antibacterial phage preparations and pointed out possible future developments in this field. In the last slide, he clearly summarised pros and cons of the phage therapy. He lectured clearly, at a pace comfortable for the audience, and skillfully in terms of language and expression. Therefore, the lecture fully captivated the audience. The lecture was followed by a vivid discussion in which Dr. Pantůček demonstrated a broad knowledge and a very good orientation in his field. For example, the following questions were raised by the plenary:

- What are the advantages and disadvantages of incomplete phages in phage therapy?
- How might phage therapy contribute to treatment of cystic fibrosis, including persistent infections?
- Are plaques present on a lung tissue complicating factors for phage therapy?
- How do you envision an ideal clinical trial?
- Is it realistic to enforce a proper clinical trial in the Czech Republic?
- Is it possible to use phages in agriculture?
- Is phage therapy less problematic in veterinary medicine than in human medicine?
- How can horizontal gene transfer be prevented?
- How could the legal problems in the approval of phage therapy be solved?

## Conclusion

The lecture delivered by doc. Roman Pantůček, entitled “Viry, které léčí – možnosti aplikací bakteriofágů v medicíně” and delivered as part of the professor appointment procedure, **demonstrated** sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a professor appointment procedure in the field of Molecular Biology and Genetics.

The lecture took place on-site at 10 AM. The above-mentioned members of the board attended the lecture and provided its evaluation. All designated evaluators are familiar with the text of the evaluation and agree with it.

Date: 17.9. 2021

prof. RNDr. Jan Šmarda, CSc.

prof. MUDr. David Šmajš, Ph.D.

prof. MUDr. Pavel Dřevínek, Ph.D.