

PUBLIC LECTURE EVALUATION

Masaryk University

Faculty	Faculty of Science
Procedure field	Organic Chemistry
Applicant	doc. Mgr. Kamil Paruch, Ph.D.
Lecture date	Oct 1, 2026
Lecture topic	New Organic Compounds with Targeted Biological Activity
Persons present (number)	104
Designated evaluators (board members)	prof. RNDr. Petr Klán, Ph.D., Department of Chemistry, Faculty of Science, Masaryk University prof. RNDr. Martin Kotora, CSc., Department of Organic Chemistry, Faculty of Science, Charles University prof. RNDr. Milan Pour, Ph.D., Department of Inorganic and Organic Chemistry, Faculty of Pharmacy Hradec Kralove, Charles University

The lecture entitled “New Organic Compounds with Targeted Biological Activity”, delivered by doc. Kamil Paruch on Oct 1, 2026 in the Seminar room 132, pavilion B11, University Campus Bohunice, Brno, was of excellent quality and demonstrated a high level of scientific expertise. The presentation was attended by four evaluation committee members on site and one (Dalibor Sameš) online, as well as 104 participants.

The lecture provided a clear and well-structured overview of the speaker’s research activities in medicinal and organic chemistry. Particular attention was devoted to the discovery of potent and highly selective inhibitors of several underexplored protein kinases, including CLK, CK1, HIPK, Haspin, and DDR1, based on non-routine central pharmacophores. The audience was also introduced to the synthesis and biological evaluation of carbocyclic C-nucleosides and novel derivatives of forskolin.

The topic was presented in a scientifically rigorous yet accessible manner. doc. Paruch demonstrated deep knowledge of the field, and the lecture effectively highlighted both the originality of the research and its relevance to modern drug discovery. The presentation was delivered fluently in English and maintained the audience’s attention throughout.

The lecture concluded with a lively and extensive discussion. Numerous questions from both the committee members and the audience reflected the strong interest in the presented research and provided further evidence of the scientific significance of the work.

Questions by the board members:

- Can you highlight the fundamentals we can learn from targeting your active compounds?
- What were reasons for TIPS working exclusively in your protective strategies?
- Could you express your opinion on the role of the fluorine atoms in drugs on their biological drug activity?
- Could you comment on the trend today to test already approved drugs for different treatment?

Questions from the audience:

- Can you comment on the toxicity prediction in fluoropyridines and thiopyridines.
- Show the difference in the standard S_N and Pd catalytic reactions.
- Can you use skeleton editing in your chemistry?
- Could you comment on the biggest challenges in the transition of your research from the US to the Czech Republic institutions and on building a company?
- If you have a chance to select only one project you presented being as a student, which would that be?
- If I was a student listening to your lecture, you might ruin the lock and key analogy. Could you comment on this?
- When you change the functional groups in your compounds, what is the approach you use?

Conclusion

The lecture delivered by doc. Kamil Paruch, entitled "*New organic compounds with targeted biological activity*" 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 Organic Chemistry.

The lecture took place Seminar room 132, pavilion B11, University Campus Bohunice, Brno at 2 pm. 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: Oct 1, 2026

Petr Klán

Martin Kotora

Milan Pour