

**Czech Chemical Society Lecture**

**Thursday, October 3, 2024, 14:00**

**University Campus Bohunice, Kamenice 5, Building A11 / room 132**

## **Synthetically Modified Complex Natural Products**

**Jakub Švenda**

*Department of Chemistry, Masaryk University & International Clinical Research Center, St. Anne's Hospital, Czech Republic*

Natural products are intrinsic to chemistry, biology, and medicine. To learn about their structure-bioactivity relationships, uncover their mechanisms of action, or finetune their innate properties, modified natural products are frequently sought after.

In my group, we try to establish fully synthetic means of accessing complex natural products to unlock structural modifications inconceivable by other methods. In this lecture, I will attempt to explain our approach using the examples of pseurotin, forskolin, and bactobolin natural product families. Specific achievements and challenges we encountered in this area of research will be highlighted.