

## *Habilitation colloquium*

# **Bioactive Compounds from Natural Sources: Challenges and Modern Concepts**

## **Ulrike Grienke**

When? Friday, 22 October 2021  
What time? 15:00  
Where? Seminarraum 2D404, UZA II, Althanstraße 14, 1090 Wien

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The aim of this habilitation colloquium is to give an overview of work conducted in my postdoctoral time. When developing rationales for improving the analysis, identification and isolation of promising bioactive natural compounds many challenges must be met. In this respect, modern concepts will help to think outside the box and to develop a long-term vision for overcoming complex scientific issues.

Milestone examples will include the identification of unique dual inhibitors of both viral and bacterial neuraminidases (dual *in vitro* activity against influenza viruses and pneumococci), the cardiotoxic risk assessment for natural products, the development of a biochemometric workflow named ELINA (Eliciting Nature's Activities) which correlates <sup>1</sup>H NMR data and bioactivity to guide the discovery of hit compounds prior to isolation, and the re-discovery of supercritical fluid technologies for natural product research.

