



KEMIJSKI INŠTITUT

**Vabilo na Forum40 / Invitation to the Forum40**

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**Četrtek / Thursday, 14.12.2017 ob / at 13:00**

**Velika predavalnica Kemijskega inštituta / Great Lecture Hall, National Institute of Chemistry; Hajdrihova 19, Ljubljana**

## **Analysis of compounds from plant extracts**

Various plant extracts were investigated for their phytochemical content using either targeted (triterpenoids and phytosterols) or untargeted approach. Different chromatographic techniques (thin layer chromatography - TLC, high-performance thin layer chromatography - HPLC, gas chromatography - GC) hyphenated to mass spectrometry (MS) were used for compound characterization. Two dimensional (2D) chromatographic separations were performed as well, either for compound isolation (followed by structure elucidation with NMR) or activity mediated studies. The developed methods enabled assignation of many bioactive triterpenoids and phytosterols in vegetable waxes for the first time and identification of compounds contributing to the cinnamon anti-inflammatory activity.



**Vljudno vabljeni / Kindly invited**