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Metabolomics meets classical natural product chemistry: Finding active principles without separation.

Reverse Metabolomics in combination with chemoinformatics as third possibility to disclose the active principle(s) in addition to total separation and bioactivity guided fractionation. After the principle idea is discussed based on antibiotic extracts, I will present examples how we discovered compounds active as flavors (beef), flavor modifiers (sweetness enhancer), or neuroactive compounds (cognitive and memory enhancement). If there is time, I will shortly present biocatalytic access to selected compounds.