

AFIN-TS

Mass Spectrometric Non-Target Screening in Practice – Quo Vadis?

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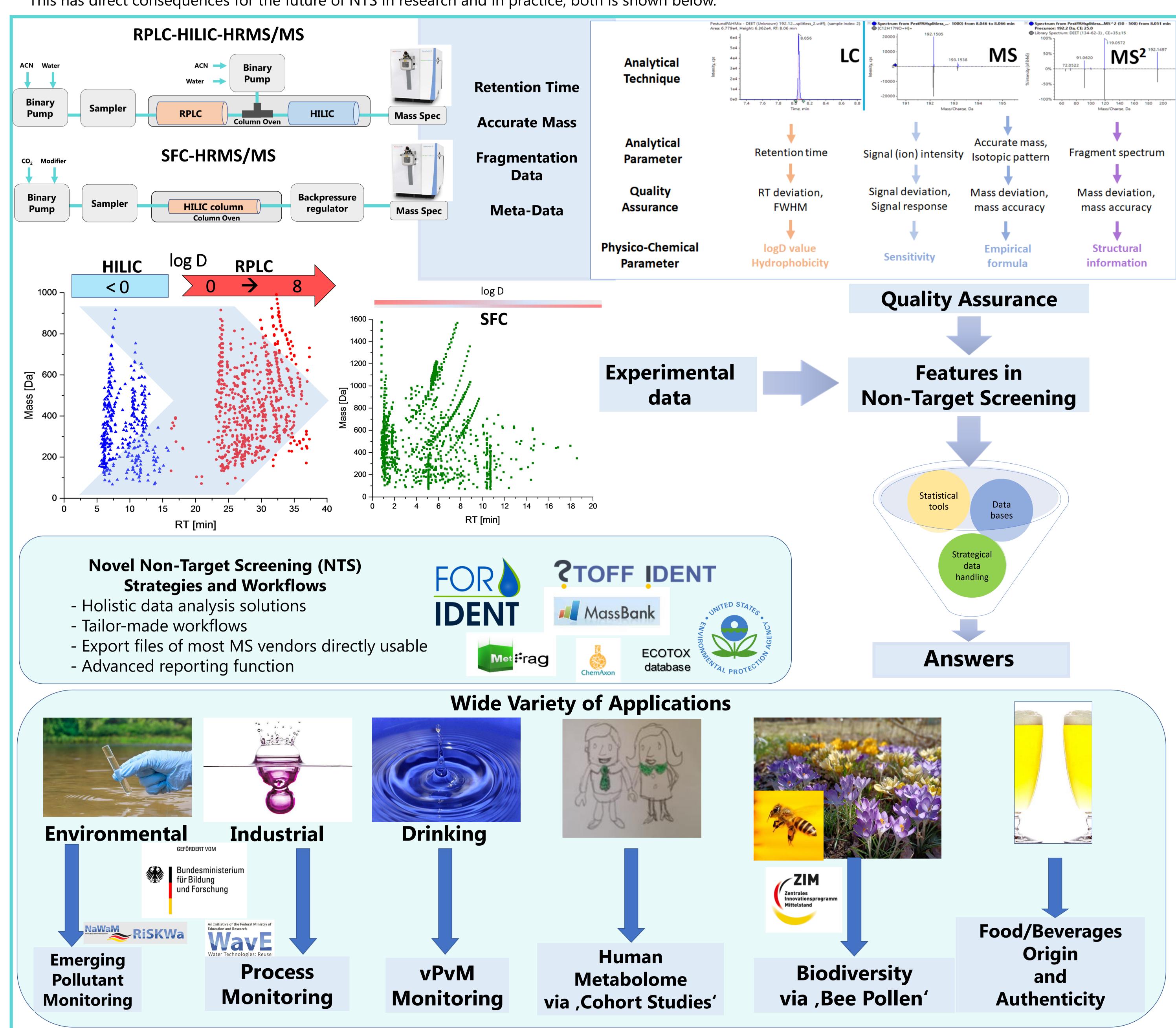
Introduction - Mass spectrometric non-target screening (NTS), non-target analysis and untargeted screening are synonyms for the fact that mass spectrometric driven ion extraction, fragmentation and fragment detection is leading to new insights into very complex samples (sometimes without former molecular knowledge of the experiment-performing analyst).

The analytical performances are wide-spread in using various chromatographic separation, (ion mobility) as well as (tandem)mass spectrometric detection and mostly quality-assured. The subsequent data evaluation and data interpretation steps are ongoing research topics to realize flexible but reproducible data handling as steps like the so called peak picking, componentization, alignment and others. These developments are ongoing but on a good way.

However, new challenges in NTS come up, if one wants to answer specific questions in different disciplines which is mostly very application specific and needs adjusted but robust holistic solutions. On the other hand, there are solutions available that can be used in interdisciplinary context.

This poster presentation includes the similarities and differences of NTS concepts and workflows in different disciplines.

This has direct consequences for the future of NTS in research and in practice; both is shown below.



Create new paradigms in complex sample analysis using Non-Target Screening workflows!

Get **answers for YOUR analytical questions** and conduct molecule or sample characterization and/or statistical data interpretation



