Since the Benchmarking and Publications for Non-Targeted Analysis (BP4NTA) working group was established in 2018 to address challenges in Non-Targeted Analysis studies using mass spectrometry, we have established multiple working groups (Figure 1) and achieved the following

y f

SUCCESSES:

- Publication two peer-reviewed manuscripts of introducing the group¹ and the Study Reporting Tool $(SRT)^2$.
- Two more peer-reviewed publications near completion focused on chemical space and performance assessment of NTA methods.
- Publication of website (nontargetanalysis.org) featuring NTA-focused content generated by BP4NTA members: comprehensive reference content for conducting NTA studies, the SRT, an NTA literature library, news about upcoming conferences and events, job postings, and a BP4NTA membership list.
- Creation of supporting deliverables (e.g., videos, flyers) to promote group's outcomes via scientific conferences and social media.
- Established a seminar series to disseminate NTA knowledge from various fields to group members.
- 40% growth in membership within 6 months (since November 2021).

We are currently working on addressing these **CHALLENGES:**

- Grassroots group with diverse membership across fields, affiliations and geographies with no current steady source of funding.
- Limited established guidelines within the group to identify, review and update existing and future products/tools, to ensure succession planning and to maintain and grow membership.

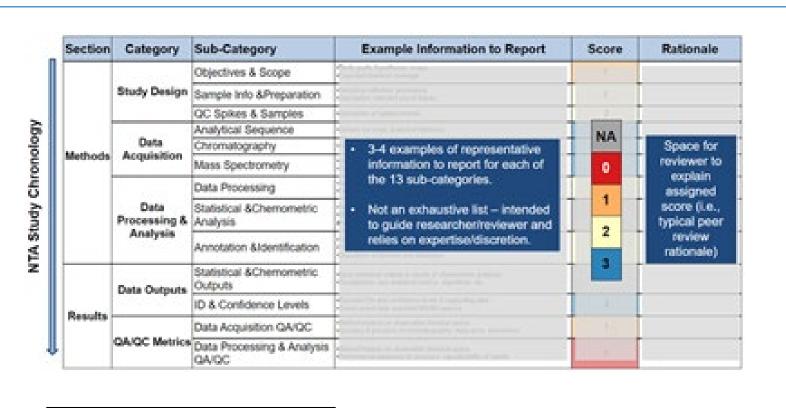
<u>SRT</u> – Accelerate the adoption of the published SRT by the community; examine the impact of the SRT on reporting quality in the NTA community; and develop a SOP for tool updates as feedback is received and advances occur that can also be applied for new tools developed within BP4NTA.

EXTERNAL AFFILIATIONS – Coordinate interactions with external organizations to establish official/unofficial affiliations and collaborations, including professional societies (e.g., SETAC, ACS, ASMS) and NTA relevant organizations (e.g., mQACC, NORMAN...).

²https://doi.org/10.1021/acs.analchem.1c02621

BP4NTA - A roadmap of harmonization efforts : successes, challenges, and future developments Ruth Marfil-Vega¹, Christine M. Fisher², Benjamin Place³, Elin M. Ulrich⁴

Shimadzu¹, US FDA², NIST³, US EPA⁴



Placeholder QR code – SRT tool

SCAN THE QR CODE TO DOWNLOAD THE SRT!

WEBSITE – Manage website (nontargetanalysis.org), email and social media accounts, and NTA-focused content generated by BP4NTA members: Blog entries, job postings, news about upcoming conferences and events, membership list, and additions to our NTA literature library and resources pages.

> **PUBLICATIONS – Coordinate interactions with journal editors** and professional societies to 1) identify opportunities to disseminate BP4NTA products and NTA-focused content, including journal's special issues, publications, sessions at conferences, and 2) research approaches by other likeminded organizations for products' review.

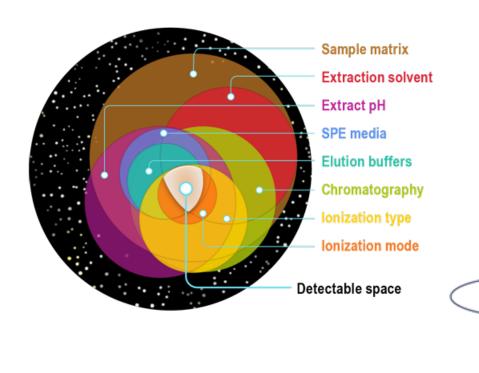


Figure 1. Subcommittees with current goals and activities

SCAN THE QR CODE TO BECOME A MEMBER!



CHEMICAL SPACE – Develop the framework for a tool that can define the region of chemical space detectable by a selected (or planned) NTA method using a suite of chemometric and predictive tools, leveraging the use of existing tools and the creation of new ones to address current barriers for chemical space tools.

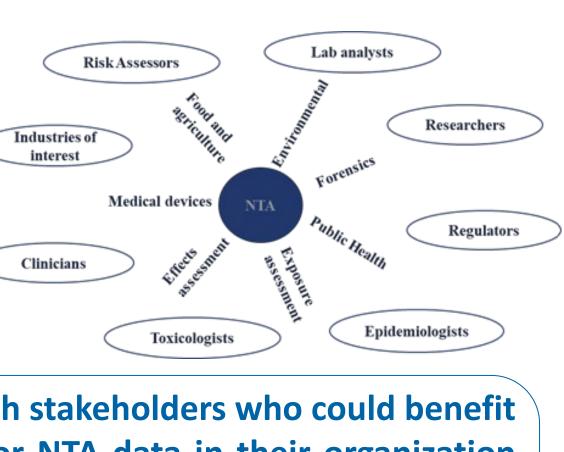


STAKEHOLDERS – Engage with stakeholders who could benefit from using NTA workflows or NTA data in their organization to 1) understand their roadblocks to more widespread use of NTA and 2) prioritize needs for addressing gaps, with the ultimate goal of supporting the development of actionable solutions.

FUTURE:

- organization.
- (Figure 1).

This poster aims to open a discussion and strengthen collaborations with other like-minded scientists and organizations across the globe.



• Determine a viable option for the group to support its vision and growth, through partnering with another working group or society, or establishing it as a non-profit

Continue addressing scientific challenges through the activities from the current and emerging subcommittees

Poster does not necessarily reflect agency policy