

POLICY DOCUMENT

METABOLOMICS ASSOCIATION OF NORTH AMERICA (MANA)

NMR SPECIAL INTEREST GROUP

OVERVIEW:

The MANA NMR interest group consists of a group of scientists with mutual interests in advancing and promoting the use of NMR in metabolomics inquiries. We seek to advance and promote the inclusion of NMR metabolomics in a mass spectrometry (MS)-dominated metabolomics world. We aim to educate and provide training resources in the application of NMR metabolomics to the broader community, solicit community involvement and contributions, advance functional NMR metabolomics with nontraditional workflows, and build community consensus concerning experimental and computational parameters. In this manner, we strive to positively influence the quality of NMR based metabolomics that is reported in scientific manuscripts, improve best-practices for metabolite identification and quantitation, and promote the appropriate application of statistical tools to interrogate NMR and NMR-hybrid datasets.

SPECIFIC GOALS:

- Advance and promote the inclusion of NMR in an MS dominated metabolomics world
- Educate and provide NMR metabolomics training resources to the broader community
- Build community consensus, advance NMR metabolomics methods, and develop best-practices

ORGANIZATIONAL STRUCTURE:

The MANA NMR interest group is led by a Chair, Chair-elect, Past Chair, and an Early Career Representative. The Chair, Chair-elect and Past Chair each have a one-year appointment. At the end of each yearly appointment, the Chair-elect becomes the Chair, and the Chair becomes the Past Chair. The Chair elected and Early Career Representative are voted into office by the group members. Any group member may be appointed the Chair elect. The Early Career Representative is defined as a group member who is within 10 years of their highest academic degree. The Chair elect and Early Career Representative nominees must have agreed to their appointments.

MEETINGS:

The MANA NMR Special Interest Group meets monthly using a videoconference such as Zoom. The recurring meeting day and time are decided by a consensus vote of the group and may change as needed. Currently, the monthly meetings are scheduled for the fourth Thursday of the Month at 3pm EST. The Chair establishes the videoconference link and distributes it to the group members.

COMMUNICATIONS:

Besides the monthly videoconference, the primary form of communication between group members is through the MANA NMR Special Interest Group email: nmr-group@metabolomicsna.org

ACCOMPLISHMENTS AND ON-GOING ACTIVITIES

- Instructional workshop “Wine Tasting by NMR” at MANA 2021
- Interactive forum “Introduction to MANA NMR Interest Group” at MANA 2021
- “Frontiers in NMR Metabolomics” workshop at the 2022 Metabolomics Society meeting
- Published an NMR perspective, "NMR and Metabolomics-A Roadmap for the Future" in *Metabolites*, 2022, 12:678.
- Extensive literature survey was conducted evaluating NMR metabolomics practices in 2010 and 2020 published research
 - Two papers are planned to report findings from analysis of the survey data
- Interactive forum “Urgent Issues in NMR” at MANA 2022
- “Frontiers in NMR Metabolomics” workshop at MANA 2022
- Workshop titled Emergent Technologies in NMR Metabolomics was proposed for the the 2023 Metabolomics Society meeting
- Preparation of a document for NIH/NCI that provides a consensus recommendation regarding the use and reuse of metabolomics data.

CURRENT GROUP MEMBERS: