Clinical Chemistry Interest Group Workshop Report
73rd ASMS Conference, San Diego California
"Small Samples, Big Discussions"

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The Clinical Chemistry workshop for the 73rd ASMS Conference on Mass Spectrometry and Allied Topics was held on June 2nd 2025, from 5:45 to 7:00 PM in Room 8 of the San Diego Convention Center. This year's workshop was titled "Small Sample, Big Discussions", with Matthew Crawford (LabCorp) serving as lead with co-lead Renee Ruhakk (LUMC) and was attended by approximately 50-60 participants. Attendee make-up consisted of a roughly 50/50 split of academia and industry, and a roughly even distribution of attendees who considered themselves early, mid, or late career.

The workshop was an interactive dialogue with a panel of community experts, including Jenny Van Eyk (Cedars-Sinai Medical Center), Don Chase (Capitainer), Yi Kai Liu (Purdue) and Samantha Eisenberg (CDC), discussing the challenges of translating microsample collections into clinical mass spectrometry. This discussion was performed using prompt questions which were opened to the panelists for their input and audience members to participate.

Discussions covered:

- Designing matrix- and device-specific bridging studies (capillary serum or DBS/VAMS or venous reference) aligned with ICH M10 / FDA expectations
- Mitigating hematocrit and other pre-analytic risks unique to DBS/VAMS in LC–MS/MS workflows
- Controls for remote self-collection + documenting analytical/clinical validity for LC–MS/MS LDTs under today's oversight landscape (alignment with CLIA/ISO 15189)
- Operationalizing microsampling for LC–MS/MS: acceptance criteria, stability/transport, training, QC/EQA

From the post-conference survey, the session was mostly well received with the session scoring weighted averages of 4.04/5 for Quality, 4.08/5 for Topics, and 3.92/5 for Format.