

Welcome to the AEIC Protein Working Group: Mass Spectrometry for Protein Quantitation Workstream

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Fall AEIC Protein Working Group meeting
Oct 18-20, 2022 – In person & Virtual



Team Update

- **Workstream Leads (2)**

- Mark Bednarcik (Syngenta)
- Yanfei Wang (Bayer)

- **Team Members (9)**

- Kristen Kouba (Corteva)
- Simone Cummings (Syngenta)
- Jeff Shippar (Eurofins)
- Lucy Liu (Bayer)
- Matt Cheever (BASF)
- Norma Houston (Corteva)
- Tao Geng (Bayer)
- Chris Ament (Eurofins)
- **Dulan Gunasekara (BASF)**



Mission Statement

-Mass Spectrometry for Protein Quantitation

Leverage the agricultural biotech industry expertise to:

- Obtain alignment within Ag Biotech on the space for mass spectrometry as a scientifically acceptable approach for transgenic protein quantitation in research and development and regulatory studies
- Publish a scientific paper reviewing and summarizing evidence supporting both Immunoassay and LC/MS/MS as valid analytical techniques to assess protein concentrations in plant tissues



Workstream Progress

- Meet monthly
- Paper Title: *Immunoassay and Mass Spectrometry are valid analytical techniques to assess protein concentrations in genetical modified crops*
 - Draft Round 3 v.4 is in process and finalization
 - Target to send out for company review by Nov. 2022
 - Using monthly meeting time to efficiently make alignment
 - Work as small groups for specific topics regarding discussion and alignment
 - Added and modified figures and tables to represent technologies



One Voice Effort

1. Alignment on all key words : Method Vs technique Vs technology Vs platform; Quantitation Vs quantification Vs quantify
2. Immunoassay parts is reviewed one more time to be consistent
3. Mass spectrometry sections is reviewed multiplex runs and efforts to make alignment
 - a) Meet weekly
 - b) Key talking points and alignment for each paragraph
 - c) Rearrange discussion Vs techniques description
4. Reach out to AEIC internal reviewer to get fresh eyes under the scope of AEIC or possibly as a consultant paid by AEIC (if some resources are available)

Target Timelines

- Oct 2022, final review for working group
- Nov 2022, target for company review, AEIC internal review
- Jan 2023, combine all the comments and make new draft
- Feb 2023, final review for new comments for company review
- Apr 2023, Journal submission