

# DEVELOPMENT SCIENCES: Innovation & Technology

## TITLE

Automating Quality Assessment of Mass Spectrometry Peaks Using Machine Learning

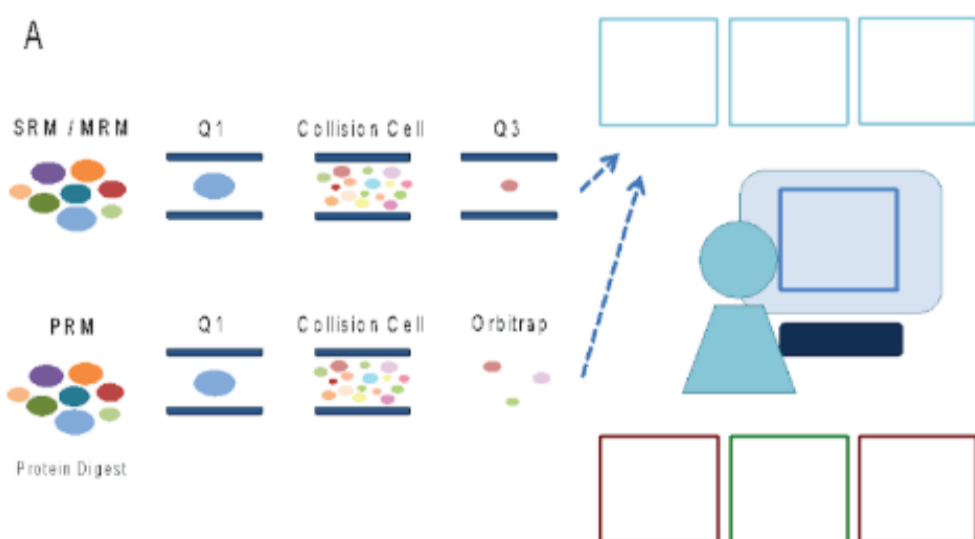
## SUMMARY

Targeted mass spectrometry data analysis requires manual inspection of chromatographic peaks from large datasets to ensure quality of biomarker data. A QC framework and toolset has been developed that leverages feature engineering and machine learning to automate this process.

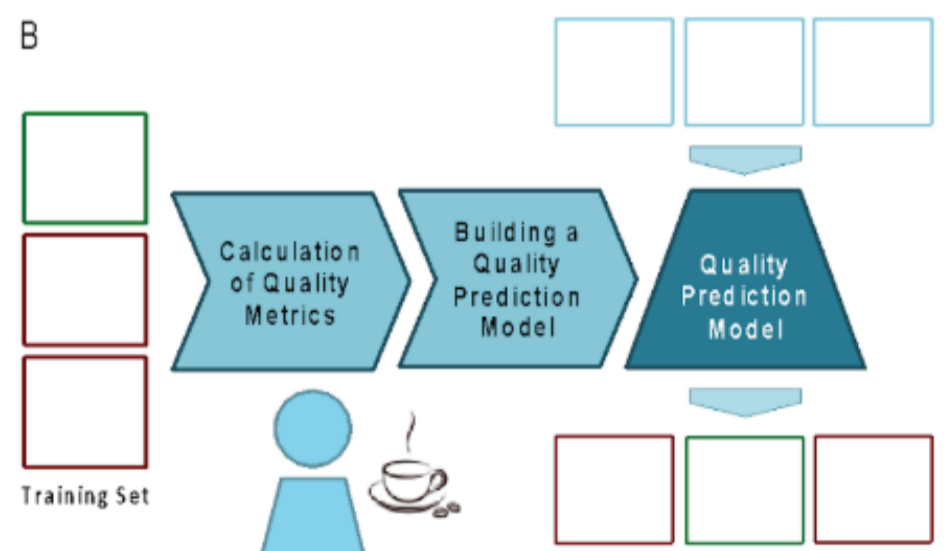
## IMPACT

- Improves throughput and reproducibility of MS biomarker data analysis
- Facilitates faster and more robust biomarker assay development and implementation

### Manual MS Peak QC is time- and labor-intensive



### ML-assisted QC improves the efficiency of data processing



## CONTACT

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