Special issue on

Application of mass spectrometry (MS) in IVD (in vitro diagnostic)

CALL FOR PAPERS

Submission Deadline: August 31, 2023

Publication Date: Jan 2024

This Issue is now open for submissions. Manuscripts should be submitted online at aber.apacsci.com by registering and logging in to this website. Then you can submit the manuscripts.

Papers are published upon acceptance, regardless of the Special Issue publication date.

In our journal *In Vitro Diagnosis*, a special issue is calling for papers about mass spectrometry technology in IVD.

Mass spectrometry (MS) is an analytical technique used to measure the mass-to-charge ratio of ions. The results are presented as a mass spectrum, a plot of intensity as a function of the mass-to-charge ratio. Mass spectrometry is used in many different fields and is applied to both pure samples and complex mixtures.

In Vitro Diagnostic (IVD) should be prompt and accurate to ensure that patients do not seek unnecessary treatment, delay needed treatment, or receive inappropriate treatment. There is an urgent need for IVD labs to make the transition from traditional instruments to modern analytical instruments that provide accurate data in the fastest and easiest way possible. To solve this problem, mass spectrometry is the perfect solution as it is the gold standard for accuracy. Liquid chromatography (LC), standalone or by coupling with tandem mass spectrometry (LC-MS/MS) and Gas chromatography with tandem mass spectrometry (GC-MS/MS) is particularly powerful for high-resolution separation, identification and quantitation of hormones, amino acids, fatty acids, proteins and peptides even at very low levels of expression. MS analytical instrument vendors are providing affordable benchtop platforms offering high sensitivity, low detection limits and high specificity, leading to better data than alternative testing methods to support clinicians with confident results.

In this issue, we would like to call for cutting-edge articles about the MS application of IVD where topics could be **mass spectrometry in hematology, LC-MS clinical diagnostics, analysis software, different compounds, MS IVD devices, etc.**