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## Identification and Characterization of Metallothionein in Cancer Cells Using MALDI-TOF/TOF Mass Spectrometry

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### Abstract

Metallothionein (MT) have many important and crucial functions. They are present in a great variety of eukaryotes, functioning as anti-oxidants; they also play a protective role against hydroxyl free radicals. MT involved in a range of roles including toxic metal detoxification, protection against oxidative stress, scavenging of free radicals and as metallochaperones involved in the homeostasis of metal. Importantly, it has been reported that MT play a role in oncogenesis and cancer prognosis, and are implicated in resistance of cancer cells to anticancer metallodrug. In this seminar will summarize for the different parameters and materials used for the detection and identification of MTs in cancer cells by MALDI-TOF-MS.

### Program

1. Introduction,
2. metallothionein
3. mass spectrometry and cancer
4. conclusion

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