**Transcript**

***Selvaraaju Murgesan – Wavelet techniques in proteomics***

One of the emerging applications in biomedicine is proteomics. Proteomics is the study of proteins and their properties. The hypothesis is that identification of the proteins are based on an algorithm on microscopy data. The algorithms are based on wavelet based techniques in engineering.

The data analysis on the mass spectroscopy is a challenging application because the data size is large and the data is corrupted with a lot of noise. The main outcome of my research is that computer-based data analysis on that mass spectroscopy data, to clean those noises and efficient finger printing of the peptides that make up the protein.

The efficient identification of the protein will help the clinicians to diagnose patients having a disease such as cancer and it will help bioscientist to develop targeted drugs.