Reportlinker Adds Proteomics - Technologies, Markets and Companies

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NEW YORK, March 7, 2011 /PRNewswire/ -- Reportlinker.com announces that a new market research report is available in its catalogue:

Proteomics - Technologies, Markets and Companies [1]

http://www.reportlinker.com/p0203550/Proteomics---Technologies-Markets-and-Companies.html [2]

Summary

This report describes and evaluates the proteomic technologies that will play an important role in drug discovery, molecular diagnostics and practice of medicine in the post-genomic era - the first decade of the 21st century. Most commonly used technologies are 2D gel electrophoresis for protein separation and analysis of proteins by mass spectrometry. Microanalytical protein characterization with multidimentional liquid chromatography/mass spectrometry improves the throughput and reliability of peptide mapping. Matrix-Assisted Laser Desorption Mass Spectrometry (MALDI-MS) has become a widely used method for determination of biomolecules including peptides, proteins. Functional proteomics technologies include yeast two-hybrid system for studying protein- protein interactions. Establishing a proteomics platform in the industrial setting initially requires implementation of a series of robotic systems to allow a high-throughput approach for analysis and identification of differences observed on 2D electrophoresis gels. Protein chips are also proving to be useful. Proteomic technologies are now being integrated into the drug discovery process as complimentary to genomic approaches. Toxicoproteomics, i.e. the evaluation of protein expression for understanding of toxic events, is an important application of proteomics in preclinical drug safety. Use of bioinformatics is essential for analy
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