蛋白质芯片技术标准化平台的建立

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摘　要：近年来SELDI-TOF-MS被广泛应用于疾病标志物的筛选。并正在成为可能为进一步差异或动态蛋白质组研究提供可靠线索的重要工具。它具有快速、简单、敏感、样本用量极少等优点，尤其适合从大量样本中直接筛选差异蛋白。但由于SELDI技术本身具有较强的操作依赖性，因此建立一个标准化的检测程序是至关重要的。本文采用不同种类的蛋白芯片对血清样本存储时间、冻融次数、芯片和基质的类型，激光强度和平行性等指标进行检测和分析，建立一套能提供最多差异指标的规范化标准程序。上述结果为建立和完善SELDI蛋白芯片技术的检测规程奠定理论基础,并提供有重要价值的实验数据。

关键词：SELDI蛋白芯片技术,标准化

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Standardization of SELDI technology

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Abstract：In recent years, SELDI-TOF-MS has been widely used in screening biomarkers in various cancers and is becoming an important tool for differential and dynamic proteomics research. Compared with the conventional technology, SELDI has fast, easy, sensitive screening ability and high throughput capability, and only needs a small amount of sample, so it especially suits for differential biomarkers screening from a lot of samples. However,SELDI strongly depends on self-operation, it is necessary to set up a standard proceeding for biomarkers detection. In this paper, we used different types of chips to detect and analyze the key parameters, such as the store time of samples, times of freezing and thawing, the type of chip and matrix, laser intensity and parallelism, and finally established standardizing program for exploitation of most differential proteins. All the results above have provided with a theory for establishing and perfecting the SELDI protein chip technology.
Key words：SELDI technology,Standardization

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