
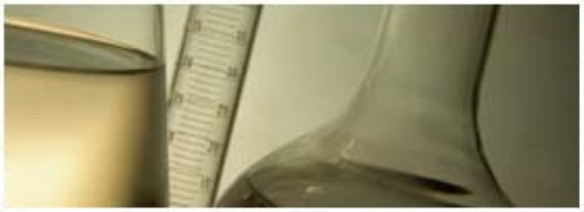

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Research Details :

Research Title	:	*Theoretical optimization by genetic algorithm of delayed extraction parameters for a matrix-assisted laser desorption/ionization time-of-flight mass spectrometer*
		Theoretical optimization by genetic algorithm of delayed extraction parameters for a matrix-assisted laser desorption/ionization time-of-flight mass spectrometer
Descriptipn	:	This paper presents the application of a genetic algorithm (GA) to optimize the operating parameters, namely pulse voltage and extraction delay time, when using matrix-assisted laser desorption ionization time-of-flight mass spectrometry (MALDI-TOFMS). Simulations predict the presence of several combinations of these parameters that give a local maximum. The aim is to locate the optimal combination (a global maximum) of pulse voltage and extraction time delay in order to focus the ions of a particular m/z value to achieve the best resolution in a given instrumental geometry. The GA locates the global maximum quickly. The results indicate that it may be possible to achieve very high resolving power by using delayed extraction (DE)-MALDI-TOFMS with parameters obtained from the GA. Copyright © 2005 John Wiley & Sons, Ltd.
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