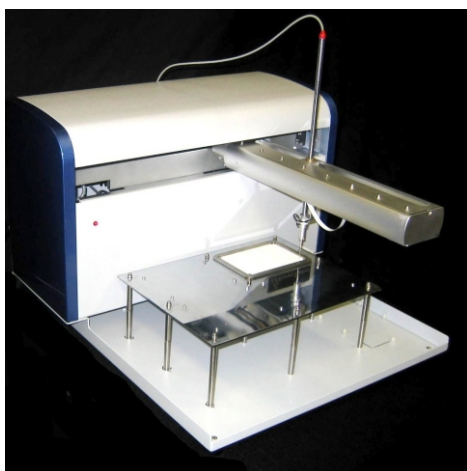


Automated System for Microarray Setup

Microarrays also known as *chips* or *arrays* are a collection of microscopic biological spots arrayed on a solid surface by covalent attachment to a chemical matrix. These arrays are simple, inexpensive and versatile tools for experimental exploration of biological molecules. The DNA microarrays, for example, have diverse applications in genome structure, gene expression programs, gene or protein function, and cell and organismal biology. It is widely believed that thousands of genes and their products (i.e., RNA and proteins) in a given living organism function in a complicated and orchestrated way that creates the mystery of life. However, traditional methods in molecular biology generally work on a "one gene in one experiment" basis, which means that the throughput is very limited and the "whole picture" of gene function is hard to obtain. This technology promises to monitor the whole genome on a single chip so that researchers can have a better picture of the interactions among thousands of genes simultaneously. In recent years, microarrays involving DNA, RNA, protein, antibodies, cells, tissue, or chemical compounds have attracted tremendous interests among biologists.



The VERSA 100 Arrayer is a robust and customizable platform for all microarray applications in Genomics, Proteomics and Diagnostics.

Features include:

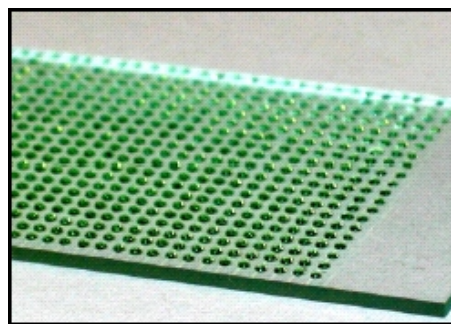
- A Method Creation Wizard,
- User & version control management,
- Auto calibration of the slide and micro plate positions
- Complete sample tracking
- Support of input / output data files
- Custom array designs
- Speed profiles and wash protocols
- Automatic method validation
- Runtime sample and spotting views as well as a Simulation Mode
- Easy to use graphical Re-Print Wizard

FEATURES

- Highly customizable
- Nano-precision dispensing
- High speed, accurate, non-contact printing
- No impact on sensitive surfaces
- User friendly software interface
- Hands-free process
- Multiple heads simultaneous printing

APPLICATIONS

- DNA Arrays
- Protein/Peptide Arrays
- Miniaturized Assays
- Nanoliter Pipetting



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