

Small Molecule Microarrays Methods And Protocols Methods In Molecular Biology

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Small Molecule Microarrays Methods And

Small molecule microarrays (SMM) were introduced just a decade ago in 1999 and, within a short space of time, have already established themselves as a vibrant, next generation platform for high-throughput screening. Small Molecule Microarrays: Methods and Protocols showcases a collection of contributions guiding researchers toward ways in which small molecule microarray technology may be deployed for multiplexed screening and profiling.

Small Molecule Microarrays: Methods and Protocols (Methods ...

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Small Molecule Microarrays - Methods and Protocols ...

Small Molecule Microarrays: Methods and Protocols consolidates a significant collection of examples, which serve to guide researchers toward ways in which SMM technology may be effectively deployed for multiplexed screening, drug discovery and ligand identification. The volume is organized into three sections covering microarray fabrication, imaging modes, and discovery approaches.

Small Molecule Microarrays: Methods and Protocols (Methods ...

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Small Molecule Microarrays - Methods and Protocols ...

Authoritative and cutting-edge, Small Molecule Microarrays: Methods and Protocols provides meticulous depictions of key hands-on experience and seeks to inspire a future generation of microarray practitioners to take this significant technology forward.

Small Molecule Microarrays | SpringerLink

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Small-molecule microarrays (SMMs) have risen to this call by elegantly forging the capability of combinatorial chemistry in producing myriad compounds with the powerful throughput afforded by microarrays. This synergism offers scientists a versatile tool for rapid compound analysis and discovery.

Small molecule microarrays: recent advances and ...

The small molecule microarray (SMM) succeeds at delivering phenomenal screening throughput and versatility. The concept at the heart of the technology is elegant, yet simple: by presenting large collections of molecu The Expanding World of Small Molecule Microarrays. Methods Mol Biol.

The Expanding World of Small Molecule Microarrays

Microarrays of small molecules have already been successfully applied in important areas ranging from protein profiling to the discovery of therapeutic leads. Recent interesting developments towards improved immobilization strategies and library creation methods, together with novel advances herein described, have set the stage for SMMs to take on wider and more routine applications in academia and industry.

Small molecule microarrays: recent advances and applications.

Abstract The technique of small-molecule microarray (SMM) screening is based on the ability of small molecules to bind to various soluble proteins. This type of interaction is easily detected by the presence of a fluorescence signal produced by labeled antibodies that specifically recognize a unique sequence (tag) present on the target protein.

Probing Small-Molecule Microarrays with Tagged Proteins in ...

Authoritative and cutting-edge, Small Molecule Microarrays: Methods and Protocols provides meticulous depictions of key hands-on experience and seeks to inspire a future generation of microarray practitioners to take this significant technology forward.

Small Molecule Microarrays: Methods and Protocols ...

Provides modern biophysical methods to screening small molecule libraries, including high-throughput screening, small molecule microarrays, phenotypic screening and chemical genetics. Presents the most advanced chemoinformatics tools to characterize the structural features of small molecule libraries in terms of chemical diversity and complexity, also including the application of virtual screening approaches.

Small Molecule Drug Discovery - 1st Edition

Small-molecule microarrays (SMMs) have proven to be a general tool in the discovery of new protein–small-molecule interactions. SMMs are a key component of the ligand discovery pipeline at the Broad Institute and can be used to complement datasets from phenotypic assays involving the same compounds. The assay format is constantly evolving.

A pipeline for ligand discovery using small-molecule ...

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Small molecule microarrays : methods and protocols in ...

The first form is to covalently immobilize the organic compounds on the solid surface with diverse linking techniques; this platform is usually called Small Molecule Microarray, which is invented and advanced by Dr. Stuart Schreiber and colleagues.

Chemical compound microarray - Wikipedia

BSA has been used as a scaffold for immobilizing conjugated peptides or small molecules (less than 300 – 500 daltons) on glass slides to form microarrays. Since BSA is a relatively inert protein, it is also used often as a blocking agent in microarray-based application to prevent non-specific probe-surface binding.

Macromolecular scaffolds for immobilizing small molecule ...

These methods commonly use robotic sample handling, small volumes, rapid data acquisition, and sophisticated software and compound library management systems, to conduct thousands, even millions of small scale experiments and identify the most promising hit compounds.

JoVE Methods Collection | Small Molecule Screening ...

Small molecule arrays, particularly small molecule microarrays, and methods of identifying a small molecule based on observing the effect of a small molecule on an observable characteristic of a biological sample or test element, such as a cell, protein, cell lysate, tissue slice or small organism.

Small molecule microarrays - SABATINI DAVID M.

Binding assays - small molecule microarrays. Over the last decade, small-molecule microarrays (SMMs) have proven to be a general, robust and scalable screening platform for discovering protein-small molecule interactions that lead to modulators of protein function