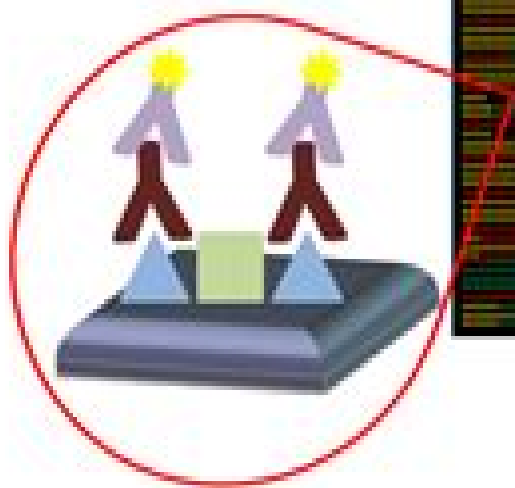




A



B



C



D



Slide



Capture antibody



Target protein



Primary antibody



Detection antibody



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Cell analyte



Cell



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Purified proteins



Capturing tag



Translation



Tag protein



cDNA



Biotin



Avidin

Protein Microarrays

Dongqing Li



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Protein Arrays Eric Fung, 2008-02-03 Protein Arrays: Methods and Protocols is an introduction to protein array technology and its application to the multiplexed detection of proteins. Although protein array technology has some roots in gene array technology, it can only be described as a distant relative. Unlike DNA with its established rules of base pairing and therefore predictable biochemical behavior, proteins are rich with diversity. Proteins can be large or small, compact or extended, basic or acidic, hydrophobic or hydrophilic, and so on. Just as importantly, their behavior is determined by the environment in which they reside, and so the composition of the buffer in which experiments are performed has a dramatic impact on the outcome of the experiment. Thus, if the goal is to simultaneously measure the expression of a large number of proteins, these variables must be addressed. Not to be deterred, scientists have created a variety of solutions to successfully detect and characterize multiple proteins simultaneously. It is the intent of this volume to introduce to the reader a set of technological solutions to the diversity problem, as well as to provide the reader with some examples of practical applications of these technologies. *Protein Microarray for Disease Analysis* Catherine J.

Wu, 2016-08-23 Protein microarrays have been used for a wide variety of important tasks such as identifying protein-protein

interactions discovering disease biomarkers identifying DNA binding specificity by protein variants and for characterization of the humoral immune response In Protein Microarray for Disease Analysis Methods and Protocols expert researchers provide concise descriptions of the methodologies currently used to fabricate microarrays for the comprehensive analysis of proteins or responses to proteins that can be used to dissect human disease These methodologies are the toolbox for revolutionizing drug development and cell level biochemical understanding of human disease processes Beginning with a section on protein detecting analytical microarrays the volume continues with sections covering antigen microarrays for immunoprofiling protein function microarrays the validation of candidate targets proteomic libraries as well as signal detection strategies and data analysis techniques Written in the highly successful Methods in Molecular Biology™ series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Practical and cutting edge Protein Microarray for Disease Analysis Methods and Protocols serves as a solid framework to aid scientists in understanding how protein microarray technology is presently developing and how it can be applied to transform our analysis of human disease

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