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Solid State Illumination for Multiplexed Fluorescence Detection

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Solid-State Illumination for Multiplexed Fluorescence Detection

The capacity to simultaneously identify and localize multiple molecules or molecular assemblies in complex, heterogenous specimens has long been a primary attribute driving applications of fluorescence microscopy in the biological and physical sciences. However, genomic and transcriptomic investigations of large scale biological systems may require simultaneous identification and localization of hundreds and thousands of molecular targets. Such highly parallel analyses exceed the capabilities of spectral discrimination-based multiplexing. This article outlines the limitations of multiplexed fluorescence detection based on spectral discrimination and some of the techniques that have been introduced to expand the number of targets that can be interrogated.

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