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the increasing interest in seeing the molecular environment in biological systems has led to the recent quest for breaking the diffraction barrier in far field fluorescence microscopy the first nanoscopy method successfully applied to conventional biological probes was stimulated emission depletion microscopy sted, **molecular expressions microscopy primer specialized** - total internal reflection fluorescence microscopy total internal reflection fluorescence microscopy tirm is an elegant optical technique utilized to observe single molecule fluorescence at surfaces and interfaces the technique is commonly employed to investigate the interaction of molecules with surfaces an area which is of fundamental importance to a wide spectrum of disciplines in cell and molecular biology, **a quick guide to light microscopy in cell biology** - light microscopy is a key tool in modern cell biology light microscopy has several features that make it ideally suited for imaging biology in living cells the resolution is well matched to the sizes of subcellular structures a diverse range of available fluorescent probes makes it possible to, **advanced fluorescence microscopy methods and protocols** - 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