

Introduction to Confocal Fluorescence Microscopy

The Tin Drum, What His Darkness Reveals #1: An Alpha Billionaire Romance, Tradicion Versus Innovacion (Spanish Edition), Le Coran (French Edition), El emperador de todos los males: Una biografia del Cancer (The Emperor of all Maladies: A Biography ,

Introduction to Confocal Microscopy. Confocal microscopy offers several advantages over conventional widefield optical microscopy, including the ability to control depth of field, elimination or reduction of background information away from the focal plane (that leads to image degradation), and the capability to collect serial optical sections from thick specimens. Illustrated in Figure 1 is a cutaway diagram of a modern epi-fluorescence microscope equipped for both transmitted and reflected fluorescence microscopy. The vertical illuminator in the center of the diagram has the light source positioned at one end (labeled the episcopic lamphouse) and the filter cube turret at the other. The fluorescence confocal microscope. In order to see subcellular structures clearly it is often necessary to use a confocal microscope. This microscope only allows light from a particular level in the section to pass through the optical system. It excludes the extraneous out-of-focus light from above and below the point of focus.

This book provides a comprehensive account of the theory of image formation in a confocal fluorescence microscope as well as a practical guideline to the operation of the instrument, its limitations, and the interpretation of confocal microscopy bongodogdesigns.com: Michiel Mueller.

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