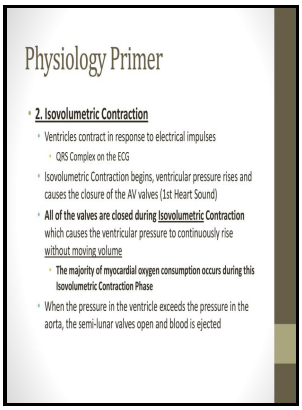
Primer of general physiology

Butterworths - Journal of General Physiology (JGP)



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Determining the structure of the clathrin coat has been a particularly fruitful system to explore with CLEM ; ,. Although thin-section EM provides resolution at the nanometer scale, it does not show the dense protein components of the cell as clearly as it does the membrane.

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The membrane is, however, a dynamic space made of specific molecules with specific functions. Cross section diagram of a tree trunk.

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With ultrahigh-numerical-aperture objectives, this field can be as shallow as 50 nm, the size of some of the smallest organelles at the plasma membrane such as synaptic vesicles. As a result, objects like filaments and vesicles that have structures below the diffraction limit can be tracked and studied over time in multiple colors. These studies have been done both in live and fixed cells, and new combinations of superresolution methods are being used to explore the structure and behavior of proteins faster and for longer periods of time ;.

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In this regard, endocytosis is a system that is excellent to explore with CLEM. Namely, the image is a single snapshot of one moment, one time, in the cell. Future directions Combining the power of multiple imaging modes will allow for a deeper exploration of the structure of the plasma membrane and its associated organelles.

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Its ability to uniquely image single molecules has also enabled the development of localization-based superresolution methods discussed below. Trees - like all other living things - need food, water, and nutrients to survive. We believe faculty development is one potential solution to the growing chasm between clinicians and scientists in general medicine.

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Genetics and molecular pathophysiology of Na v 1. Many people imagine tree roots as a mirror image of the branches, but this is a common misconception. Investigations into the structure of the membrane are a place where CLEM has shone ; ; ; ;.

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