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Applications of Modern Optical Microscopy in Biology

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Optical microscopy has long been limited by the diffraction limit of light, but in recent decades many advancements have been made to push beyond this limit to achieve super-resolution microscopy. Breakthroughs in optics, mathematics, chemistry, and physics have led to the development of different families of super-resolution techniques, each taking a different approach to dealing with the diffraction limit. This talk will highlight the different types of super-resolution microscopy techniques currently employed by biologists and discuss some of the advantages and disadvantages to consider when deciding between these techniques.

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