

## FAR FIELD OPTICAL NANOSCOPY%0A

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## Far-Field Optical Nanoscopy | Science

Initial applications indicate that emergent far-field optical nanoscopy will have a strong impact in the life sciences and in other areas benefiting from nanoscale visualization. Despite the enormous advancements brought about by electron and scanning probe microscopy, about 80% of all microscopy investigations in the life sciences are still carried out with conventional lenses and visible

## Far-Field Optical Nanoscopy - Advanced Optical Microscopy ...

Far-Field Optical Nanoscopy Stefan W. Hell In 1873, Ernst Abbe discovered what was to become a well-known paradigm: the inability of a lens-based optical microscope to discern details that are closer together than half of the wavelength of light. However, for its most popular imaging mode, fluorescence microscopy, the diffraction barrier is crumbling. Here, I discuss the physical concepts that

## Far-Field Optical Nanoscopy: Philip Tinnefeld, Christian ...

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## OSA | Far-field optical nanoscopy

The resolution of a far-field optical microscope is usually limited to  $d \approx (\lambda / 2 \text{NA}) \approx 200 \text{ nm}$ , with  $\lambda$  denoting the wavelength of light and the numerical aperture of the lens. Here, I will discuss lens-based fluorescence microscopy concepts that feature a resolving power on the nanoscale. All these concepts share a common basis

## Far-Field Optical Nanoscopy - ResearchGate

Far-field optical imaging techniques allow the determination of the position of point-like emitters and scatterers [1–3]. Although the optical wavelength sets a fundamental limit to the image

## Far-Field Optical Nanoscopy | Curriki

This article discusses the physical concepts that have pushed fluorescence microscopy to the nanoscale, once the prerogative of electron and scanning probe microscopes. Initial applications indicate that emergent far-field optical nanoscopy will have a strong impact in the life sciences and in other areas benefiting from nanoscale visualization.

## Far-Field Optical Nanoscopy | SpringerLink

Summary. Since the discovery of the diffraction barrier in the nineteenth century, it has been commonly accepted that a lens-based (far-field) optical microscope cannot discern structural details much finer than about half the

wavelength of light ( $\lambda$ ).

**Far-field optical nanoscopy - Semantic Scholar**

The resolution of a far-field optical microscope is usually limited to  $d \approx (\lambda / 2 \text{NA}) > 200 \text{ nm}$ , with  $\text{NA}$  denoting the numerical aperture of the lens and  $\lambda$  the wavelength of light. Here, I will discuss lens-based fluorescence microscopy concepts that feature a resolving power on the nanoscale. All these concepts share a common basis.

**Far-Field Optical Nanoscopy - ResearchGate**

Since the discovery of the diffraction barrier in the nineteenth century, it has been commonly accepted that a lens-based (far-field) optical microscope cannot discern structural details much