

Name Rocio Castro Period 4

Chapter 6: A Tour of the Cell

Concept 6.1 To study cells, biologists use microscopes and the tools of biochemistry.

1. The study of cells has been limited by their small size, and so they were not seen and described until 1665, when Robert Hooke first looked at dead cells from an oak tree. His contemporary, Anton van Leeuwenhoek, crafted lenses; and with the improvements in optical aids, a new world was opened. *Magnification and resolving power* limit what can be seen. Explain the difference.

Magnification is the ratio of an object's image to its real size. In contrast, resolution measures the clarity of the image. How clear the picture is ~ accuracy in visualization
VERSUS
How accurate the picture is ~ to scale? $M \rightarrow N$

2. The development of electron microscopes has further opened our window on the cell and its organelles. What is considered a major disadvantage of the electron microscopes?

A major disadvantage of the electron microscopes is their inability to reflect color

3. Study the electron micrographs in your text. Describe the different types of images obtained from:

scanning electron microscopy (SEM)

The SEM provides good 3-D images which is good for getting a good depth perception - used for detailed studies

transmission electron microscopy (TEM)

2-D imaging that is used/beneficial for achieving extreme detail where you're able to compare well since you can enhance contrast

4. In *cell fractionation*, whole cells are broken up in a blender, and this slurry is centrifuged several times. Each time, smaller and smaller cell parts are isolated. This will isolate different organelles and allow study of their biochemical activities. Which organelles are the smallest ones isolated in this procedure? *The ribosomes*

Concept 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions.

5. Which two domains consist of prokaryotic cells?

Bacteria and Archaea consist of prokaryotic cells
EX: fungi, animals & plants

6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

The DNA of the eukaryotic cell is in the nucleus, versus in prokaryotic cells, the DNA is in the nucleoid (not membrane enclosed)

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web i set up a hybrid model including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a

uniform line transversally perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coeff parameteres to achive the best line uniformity and smallest line width

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web sep 24 2020 microlens arrays are the key component in imaging systems because the systems exhibit some excellent optical properties such as large fov angles and low aberration and distortion 6 zemax llc

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web mar 31 2021 zemax llc thanks dr reinhard voelkel of suss microoptics sa for the experimental data used in this article setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using suss microoptics fc q 250 microlens arrays the manufacturers data is as follows

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web nov 3 2015 with optical sensor arrays tiny lens systems serve to focus and concentrate the light onto the photodiode surface instead of allowing it to fall on non photosensitive areas of the pixel device fill factor area occupied by the microlens arrays mostly the lens shape is cylindrical or spherical array size strongly depends on the applications

lens array zemax community - Mar 10 2023

web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax