

CELLS ONLINE WORKSHEET

TOPIC

ANIMAL ENDOTHELIAL CELL

You are now viewing an Endothelial Cell, developed in tissue culture, from arteries of a young cow. This cell line is widely used to study hypertension, atherosclerosis and coronary heart disease. Parts of the cell structure have been stained with specific reagents: Mito Tracker Red stains the mitochondria, DAPI stains DNA blue, and FITC-phalloidin stains the protein actin green.

SLIDE



Download this page, place in your notebook and answer the following questions.

- Q1. What is your evidence that this is a eukaryotic cell?
- Q2. What part of the cell has the greatest concentration of mitochondria? Suggest a reason for this.
- Q3. What part of the cell contains the protein actin? Suggest a function of the protein actin.
- Q4. What part of the cell appears to lack the protein actin?