



# Workflow idea 2a

## Organelle detection in high resolution HeLa cell images

#### Workflow Idea 2a: Organelle detection in high resolution HeLa cell images

**Biosciences** 

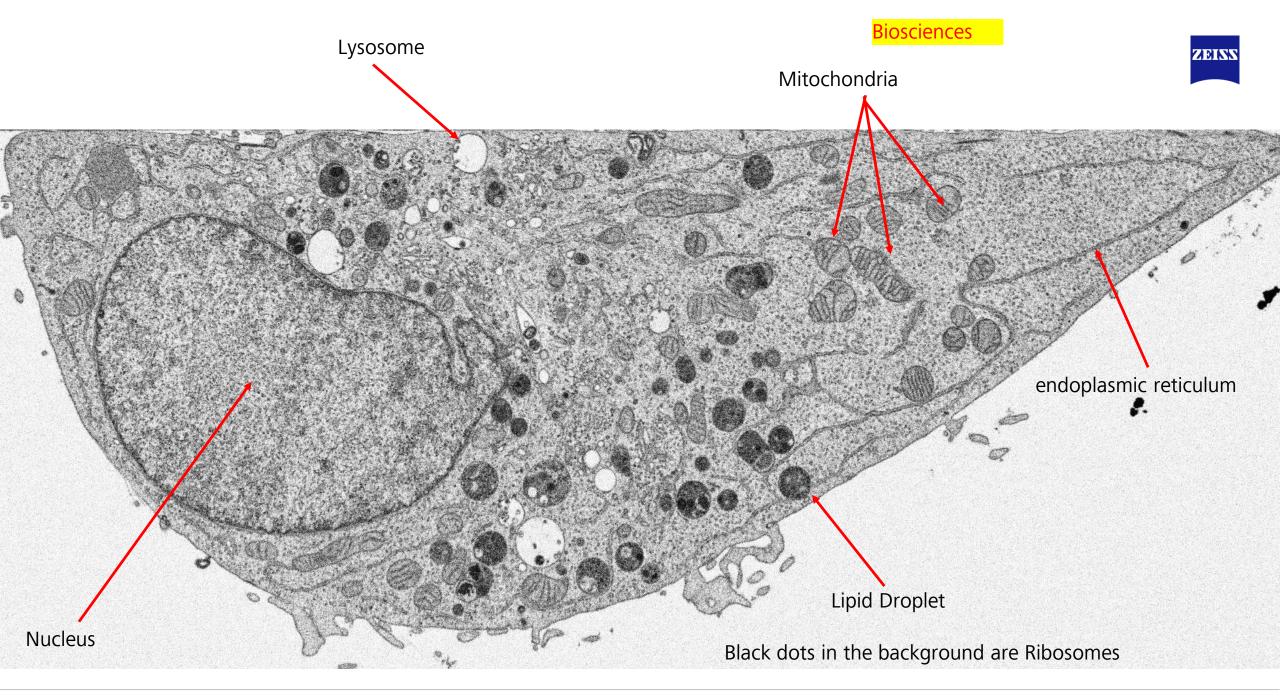


Goal: Detect individual organelles in the 3D image stack including

- (1) Nucleus
- (2) mitochondria
- (3) Lysosome
- (4) Lipid droplet
- (5) Endoplasmic reticulum and
- (6) Ribosomes
- All regions are labeled on the following slide, for non-biologists.

Expected difficulty level: Medium to Hard

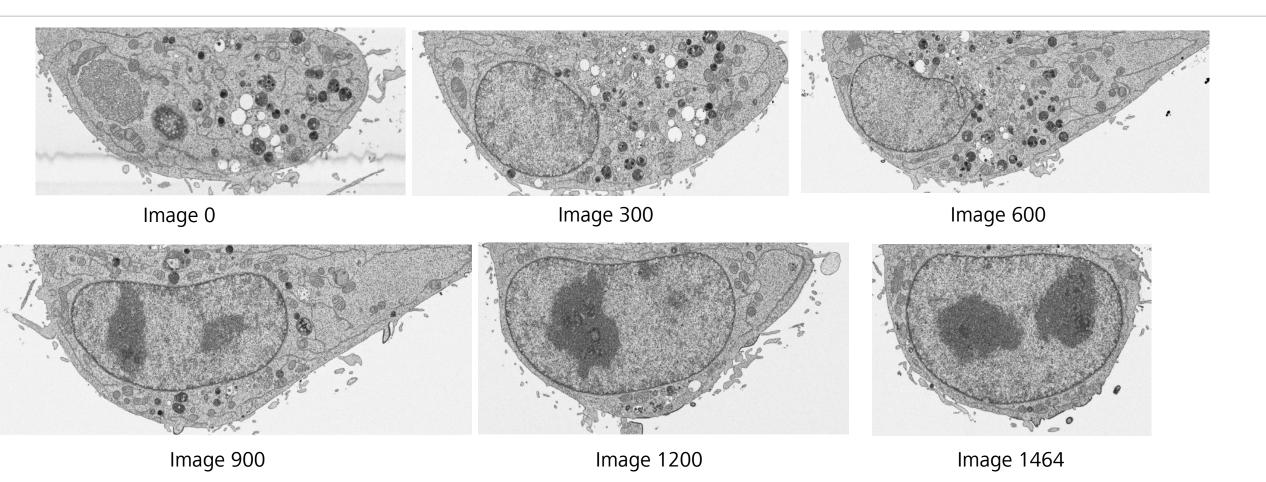
**Expected challenge(s):** Detection of smaller organelles.



#### Images for Workflow Ideas 2a and 2b: Organelle / mitochondria detection in high resolution HeLa cell images







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### **Dataset / image information:**

File name: WF02\_Hela.zip Total 1465 tif images Voxel size 5 nm x 5 nm x 8 nm

You may need to register/align individual slices and crop the dataset to remove blank white space from all images. Alternatively you can segment out the white space.