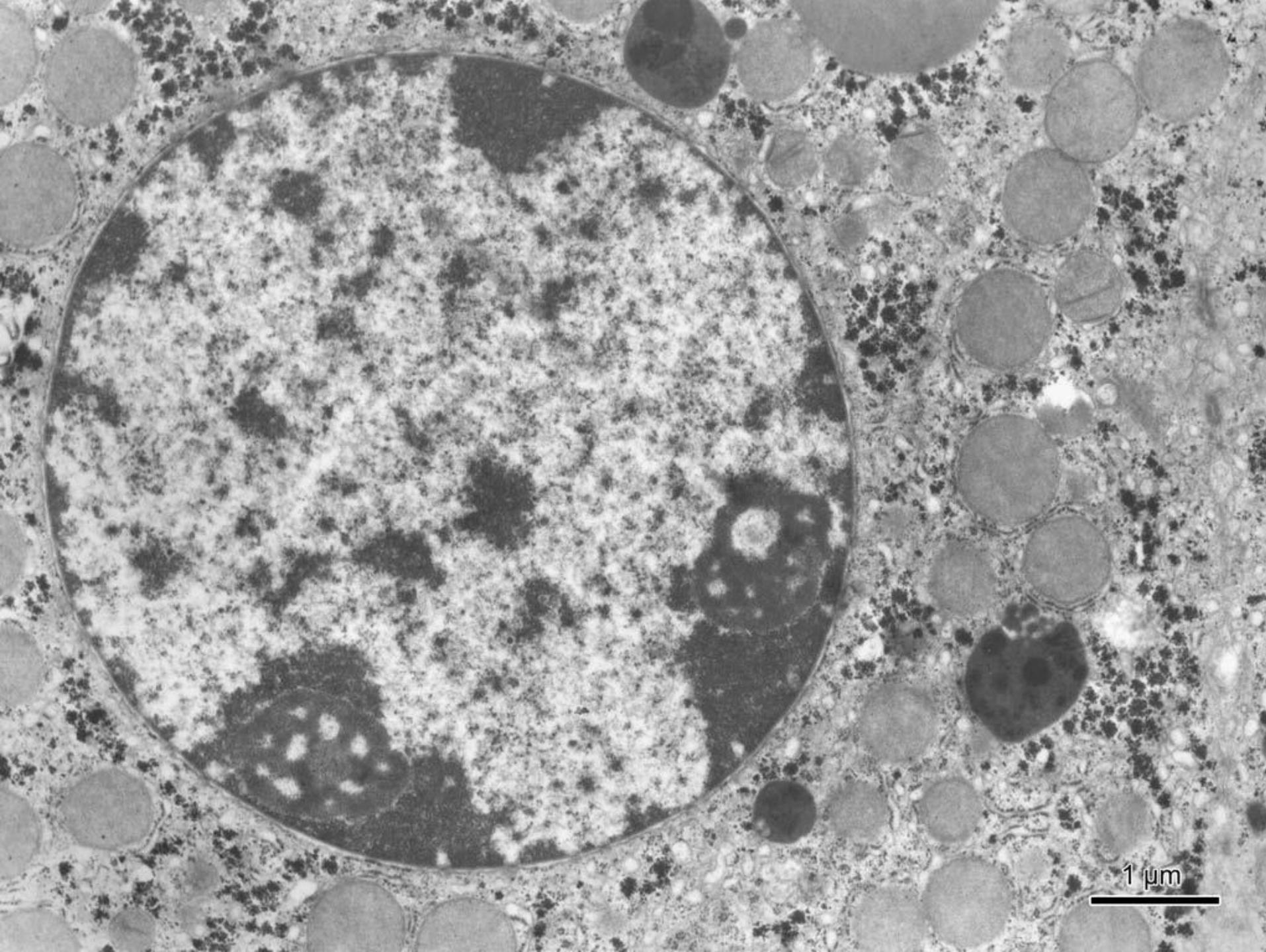


M U N I
M E D

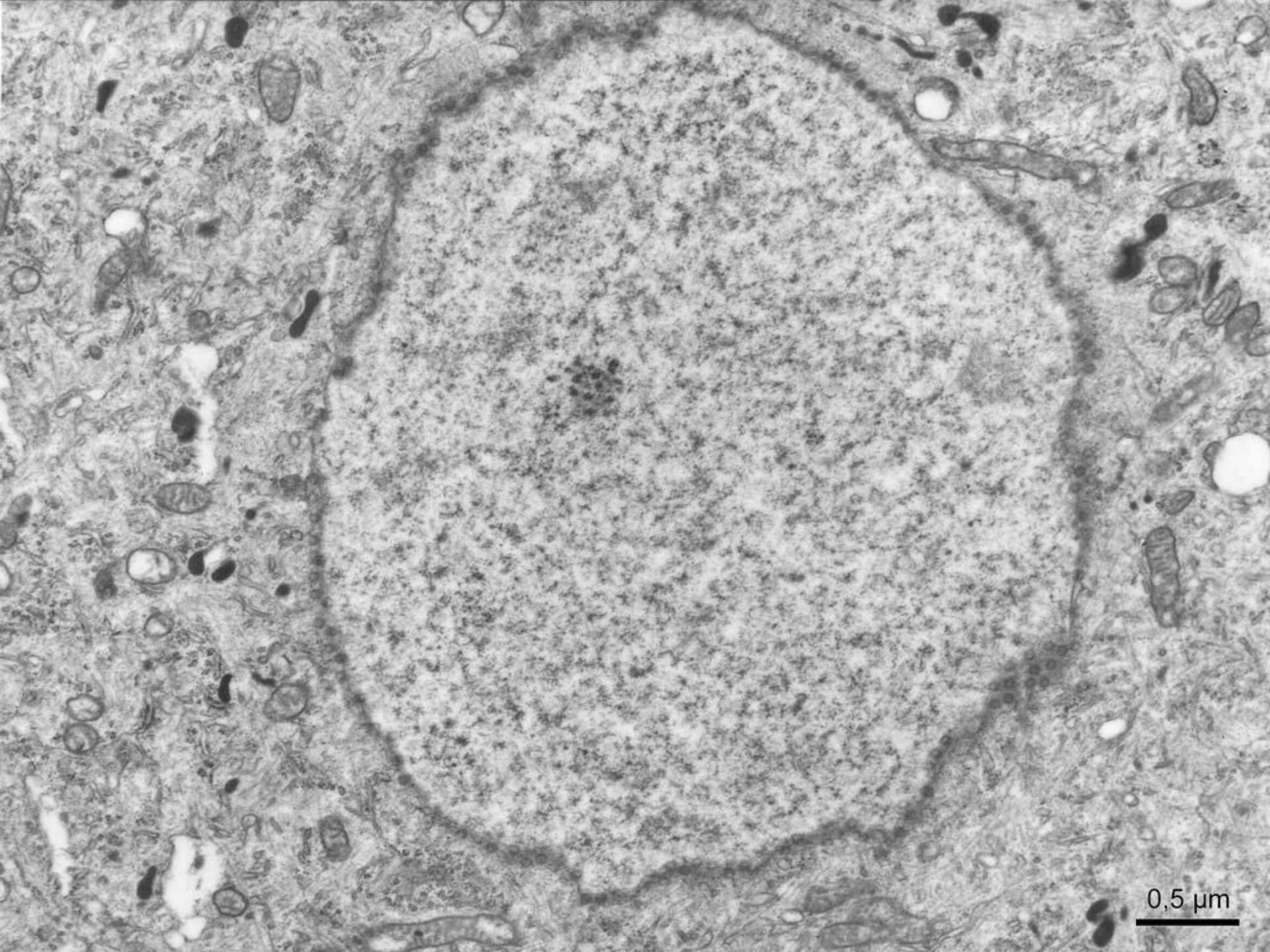
CYTOLOGY I

Ultrastructure of nucleus and cell organelles

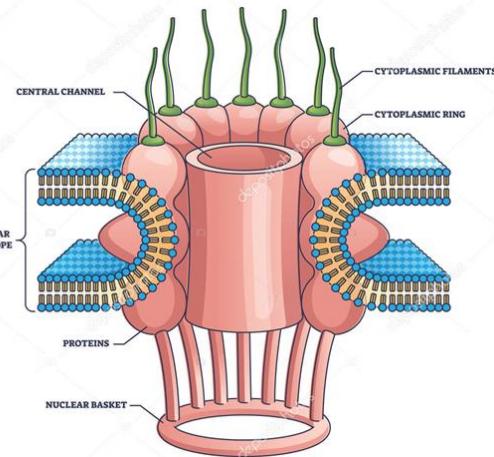
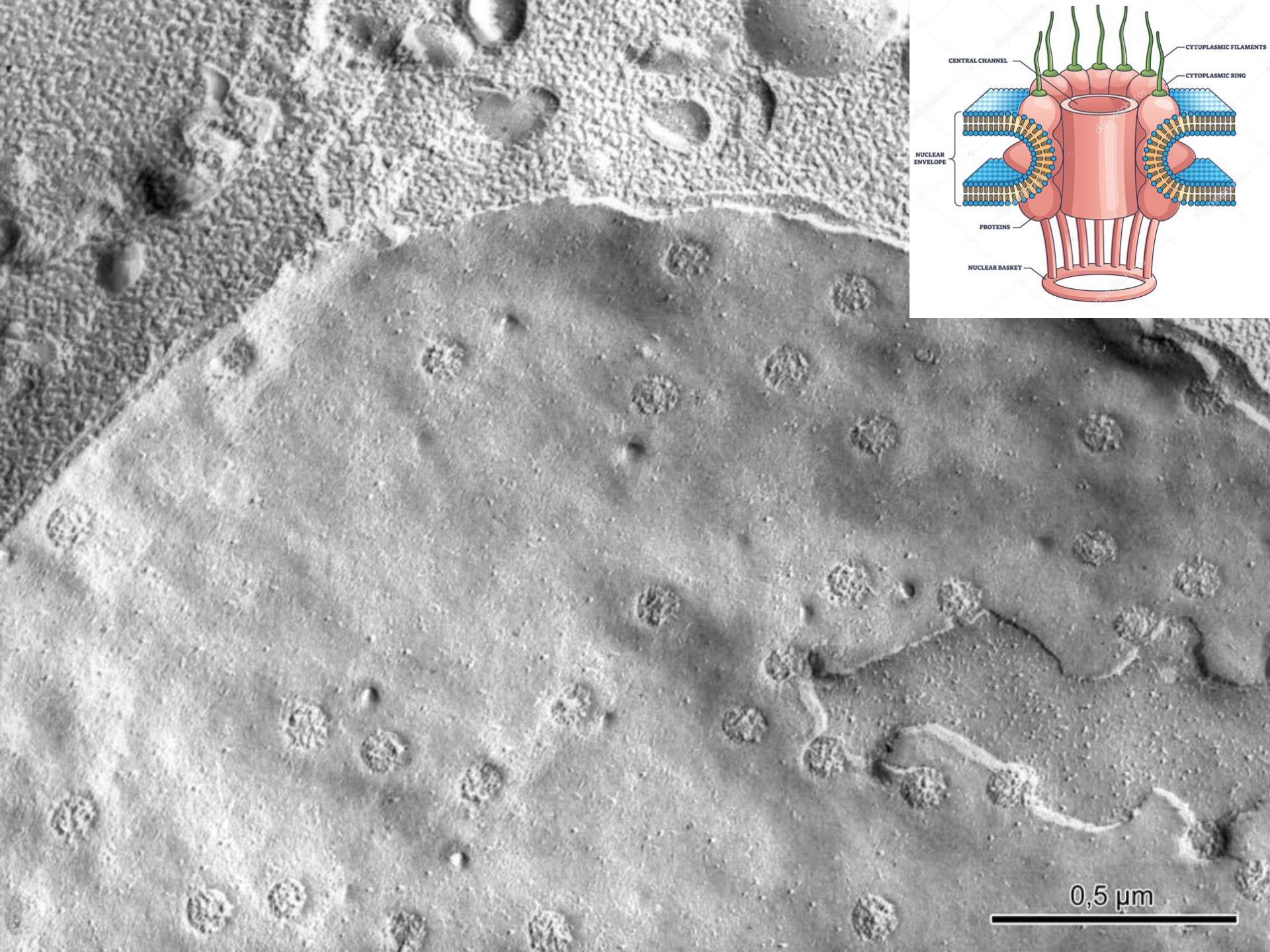
ATLAS OF CYTOLOGY AND EMBRYOLOGY



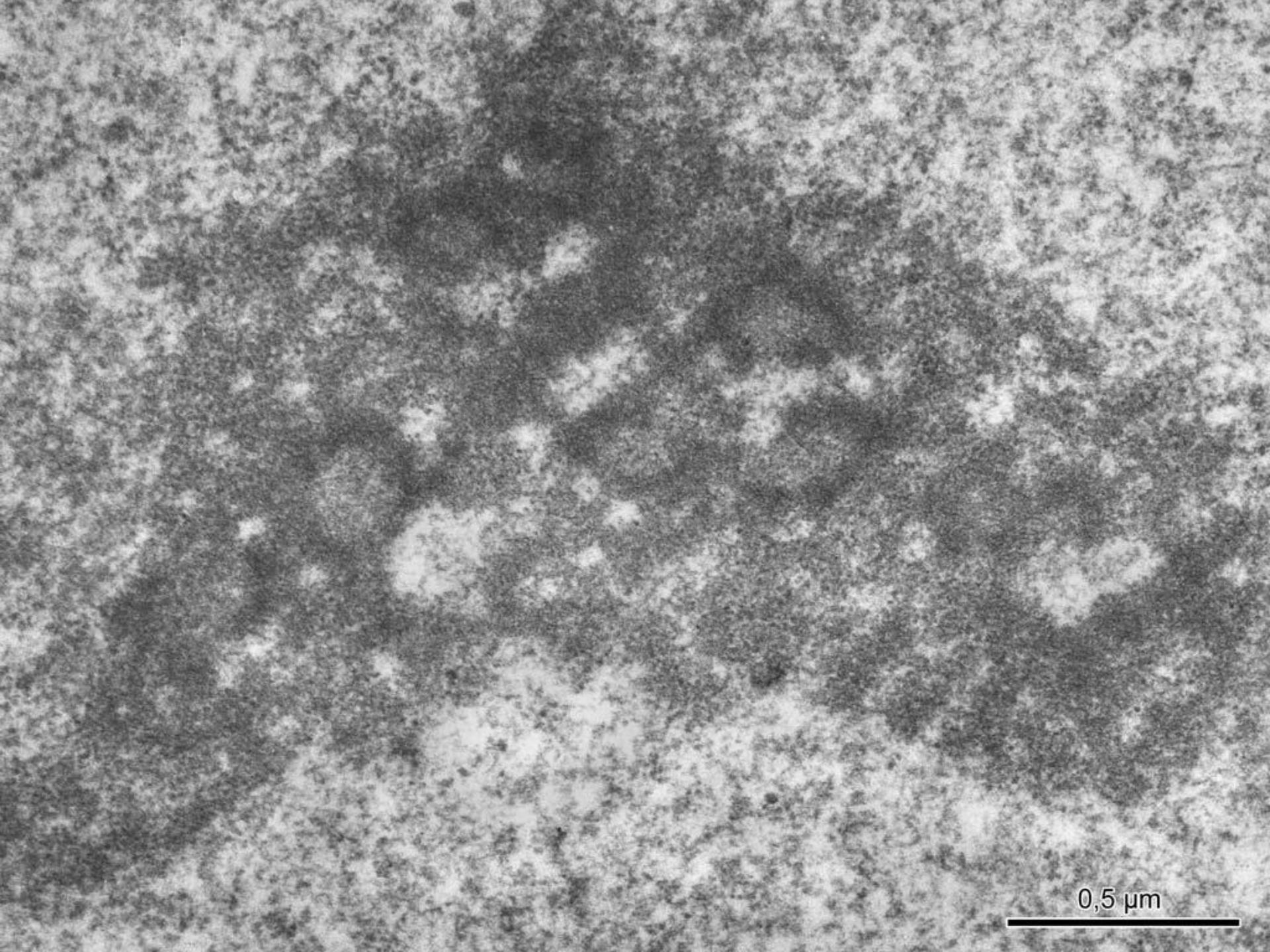
1 μ m



0,5 μ m

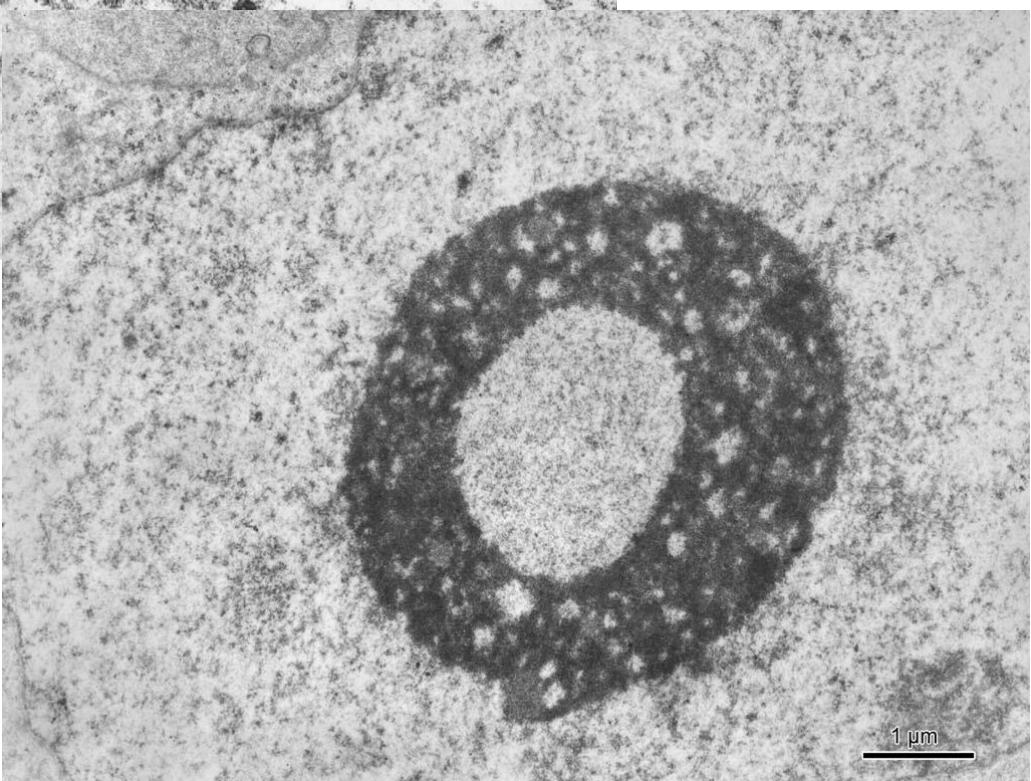
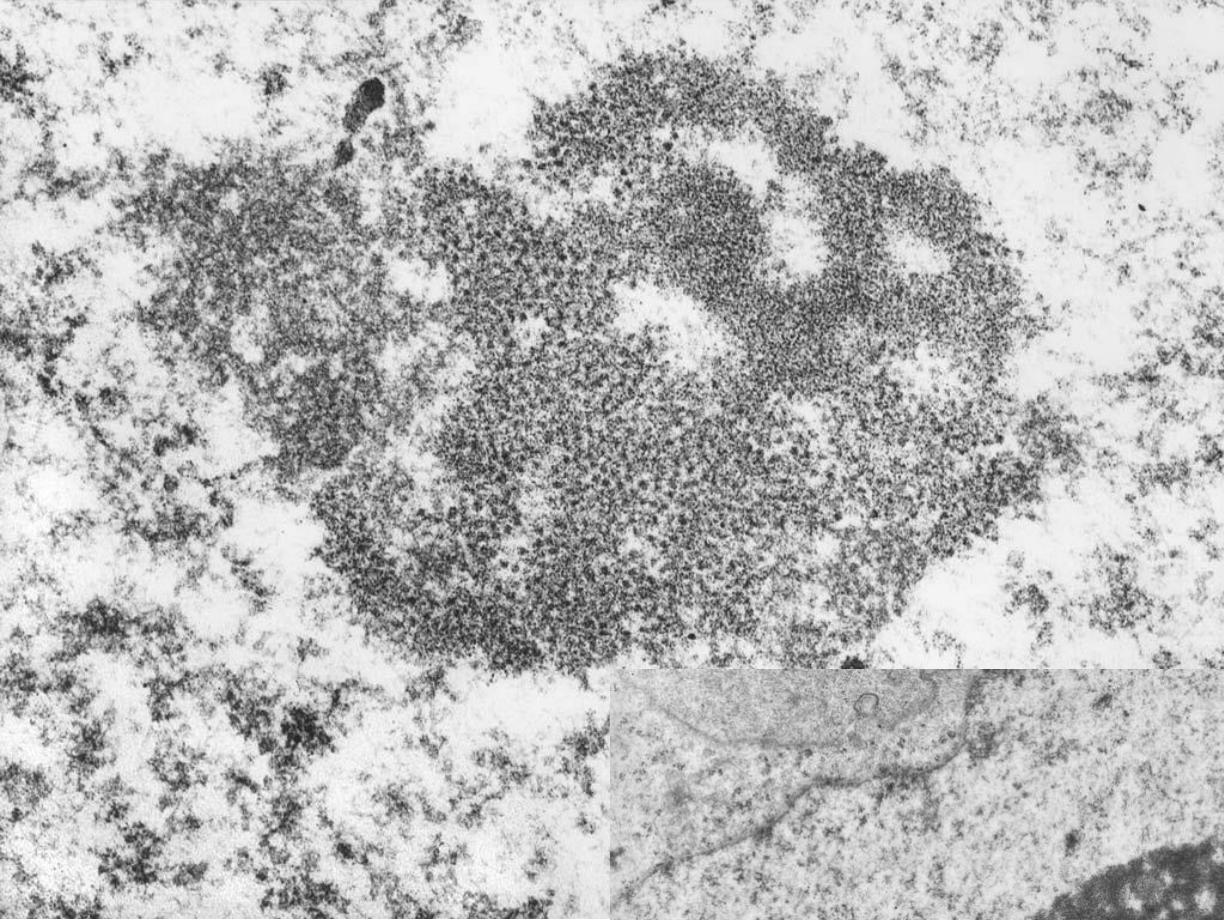


0,5 μm



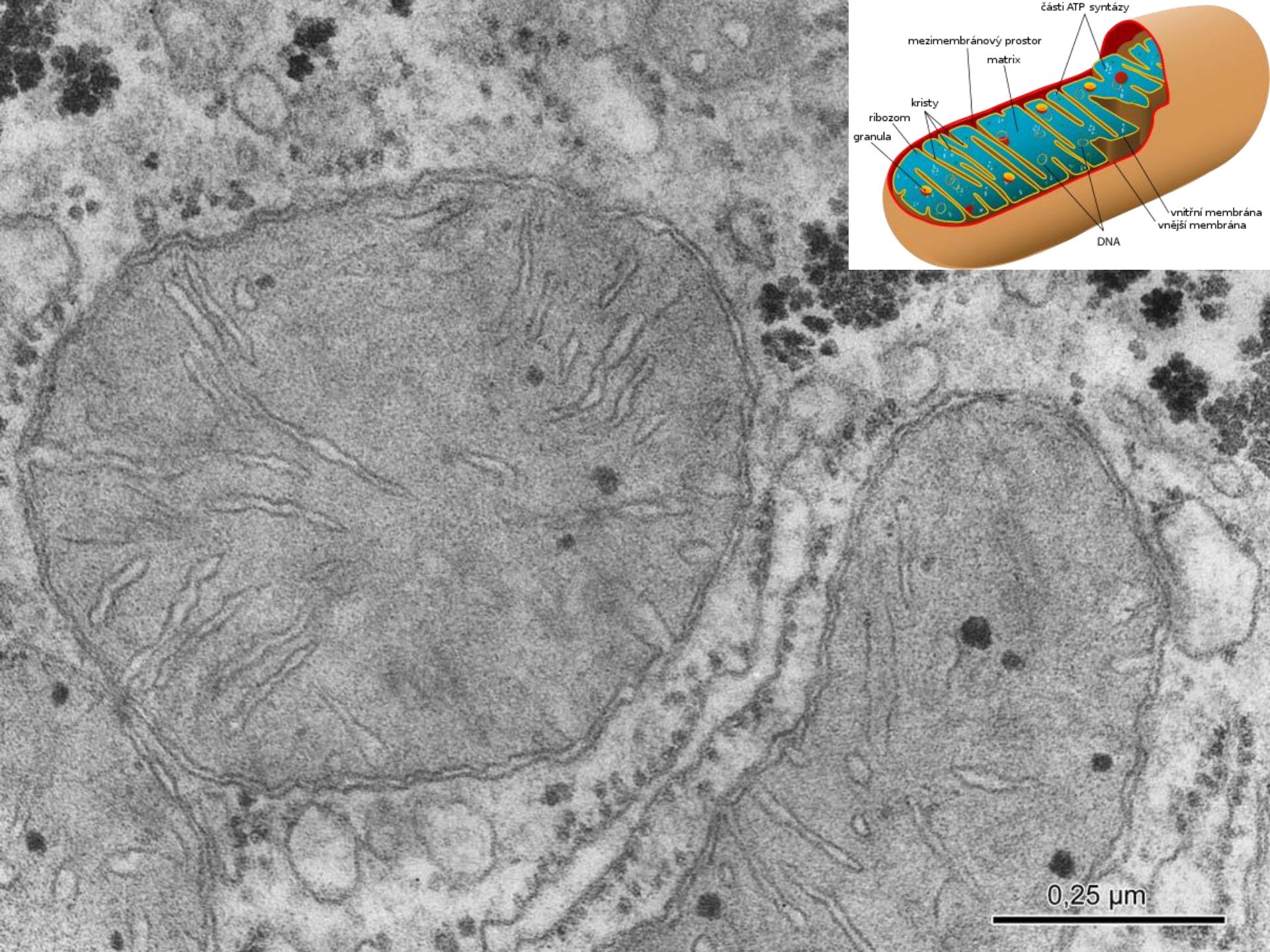
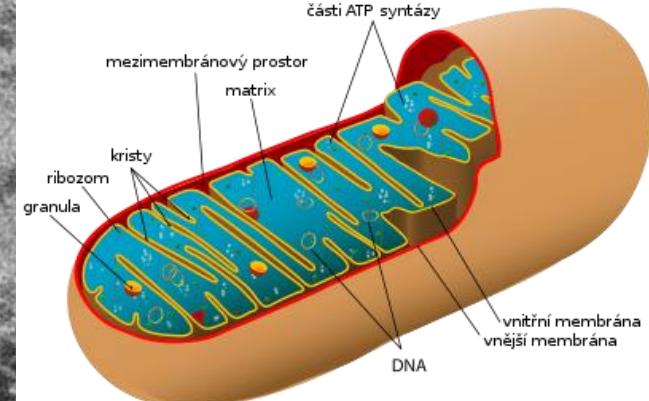
0,5 μm

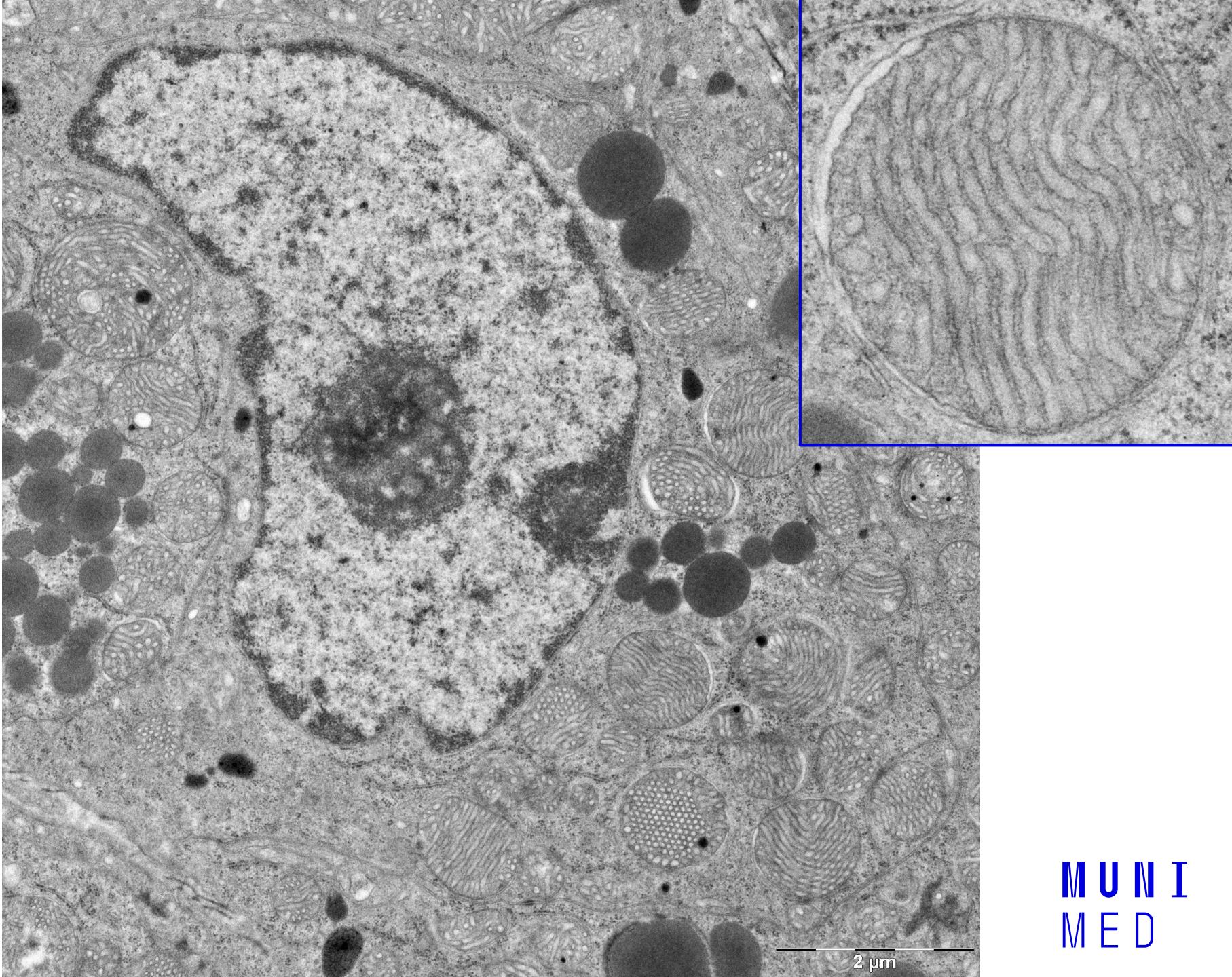
This electron micrograph displays a surface with a dense, granular texture. The surface is covered in numerous small, dark, irregularly shaped particles of varying sizes, creating a mottled appearance. A prominent feature is a large, roughly triangular cluster of these particles located in the center-left area. The overall contrast is high, emphasizing the individual particles against the lighter background. In the bottom right corner, there is a horizontal scale bar consisting of a thin black line with the numerical value "0,5" followed by the Greek letter "μ" and the word "m", indicating a scale of 0.5 micrometers.



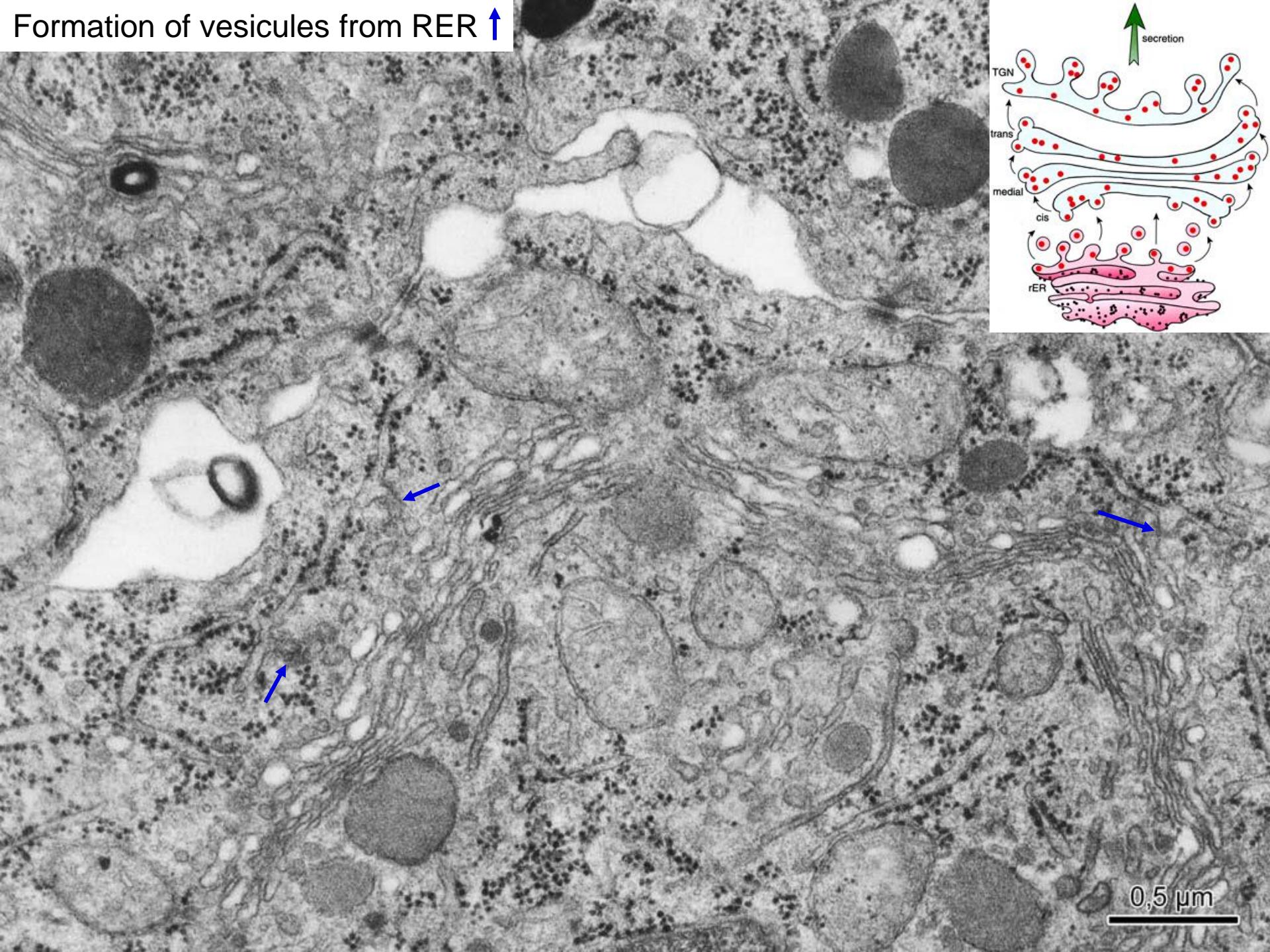
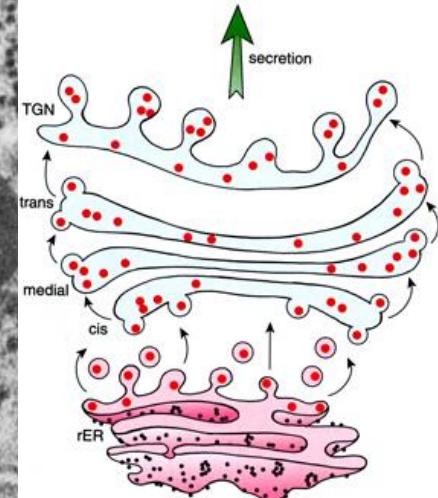
1 μm

MUNI
MED

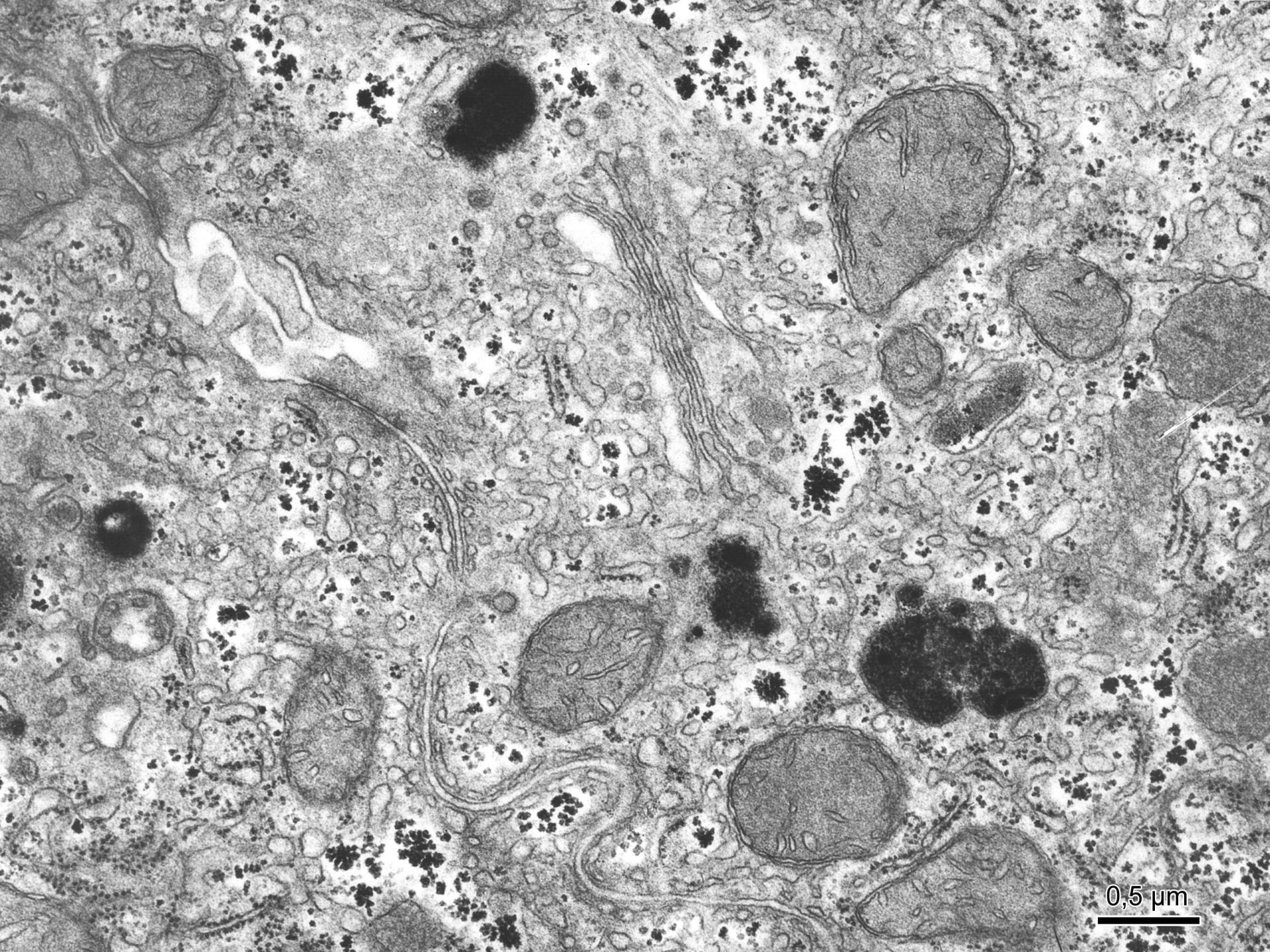




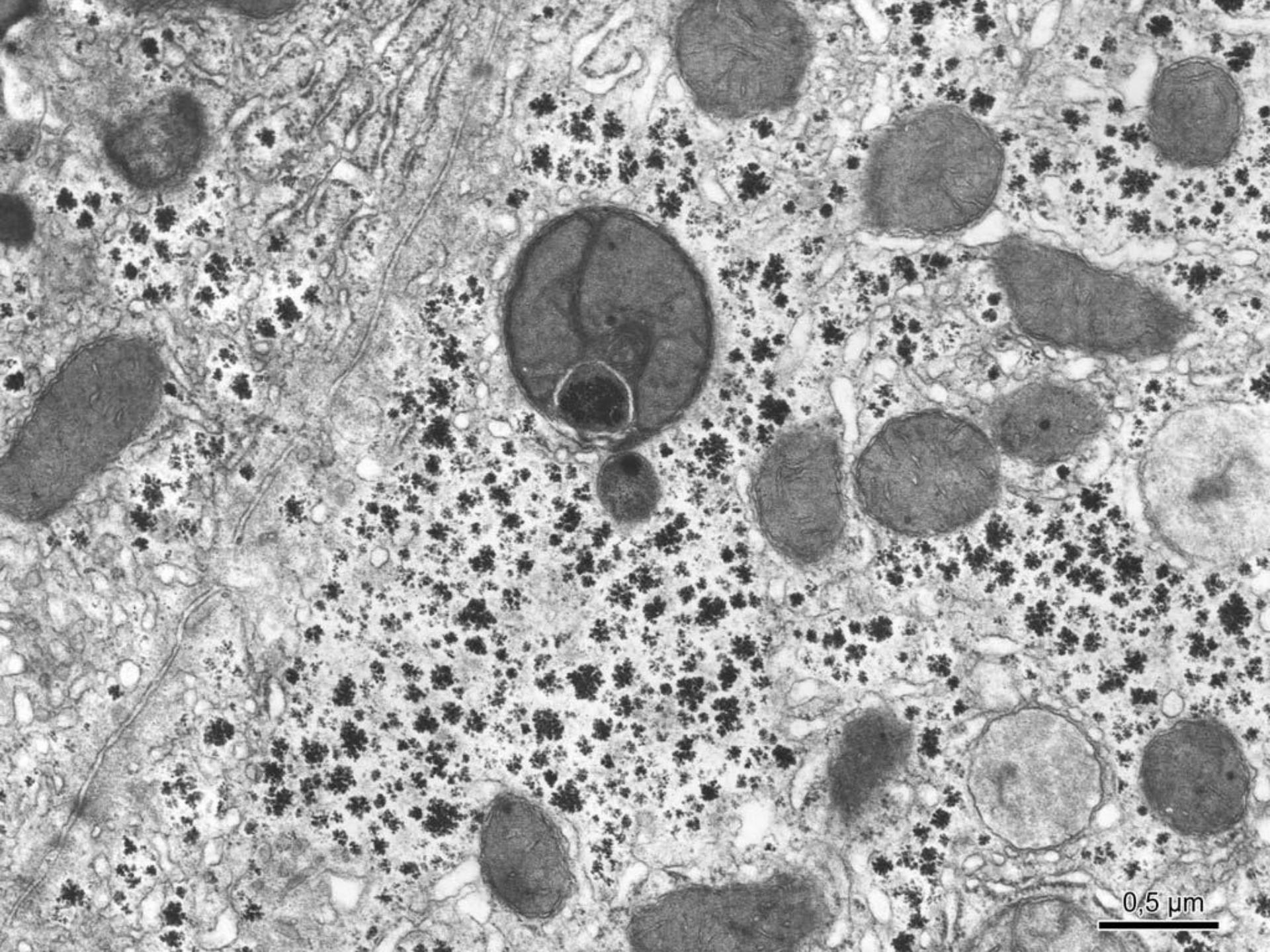
Formation of vesicles from RER ↑



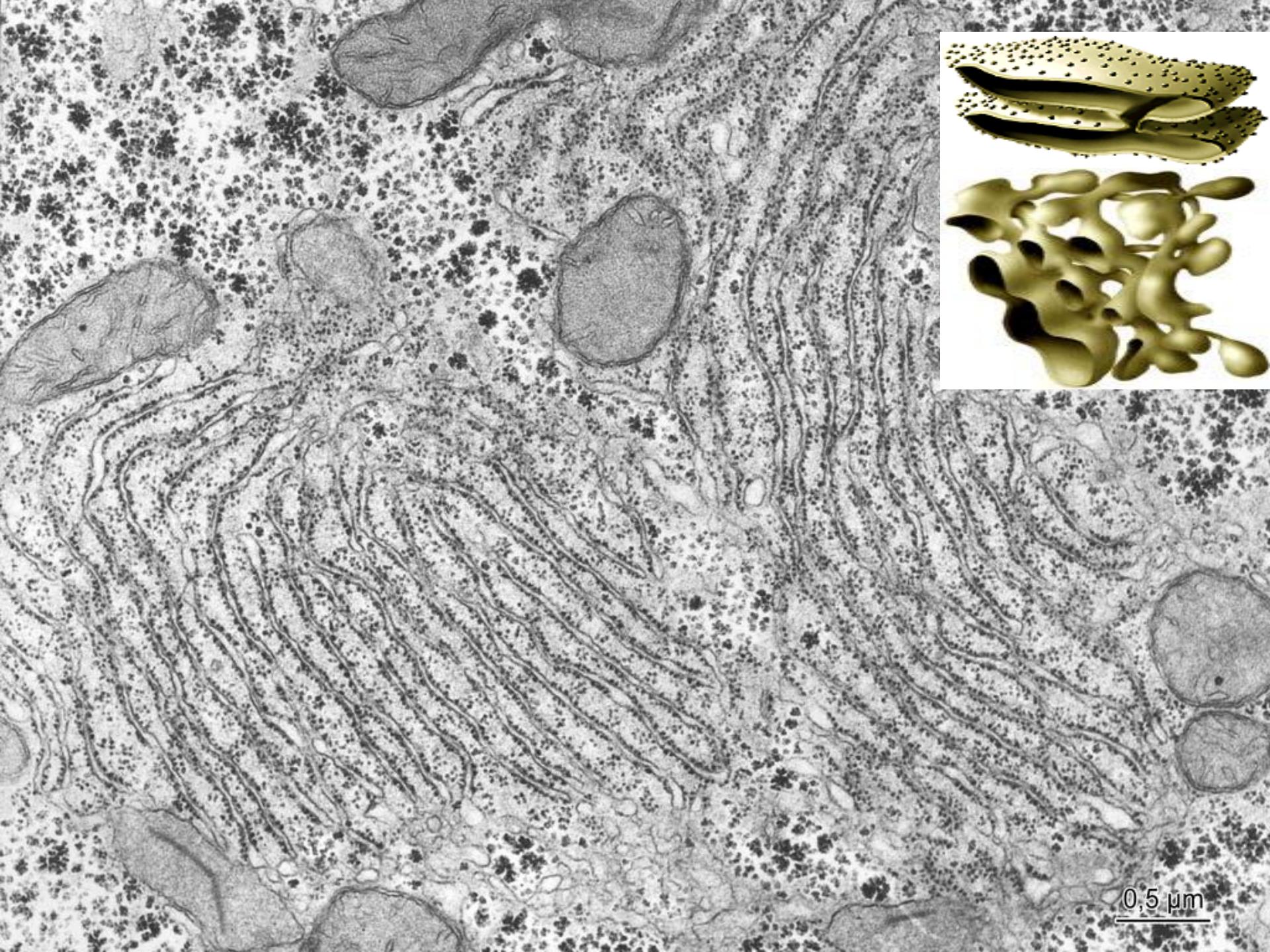
0,5 µm



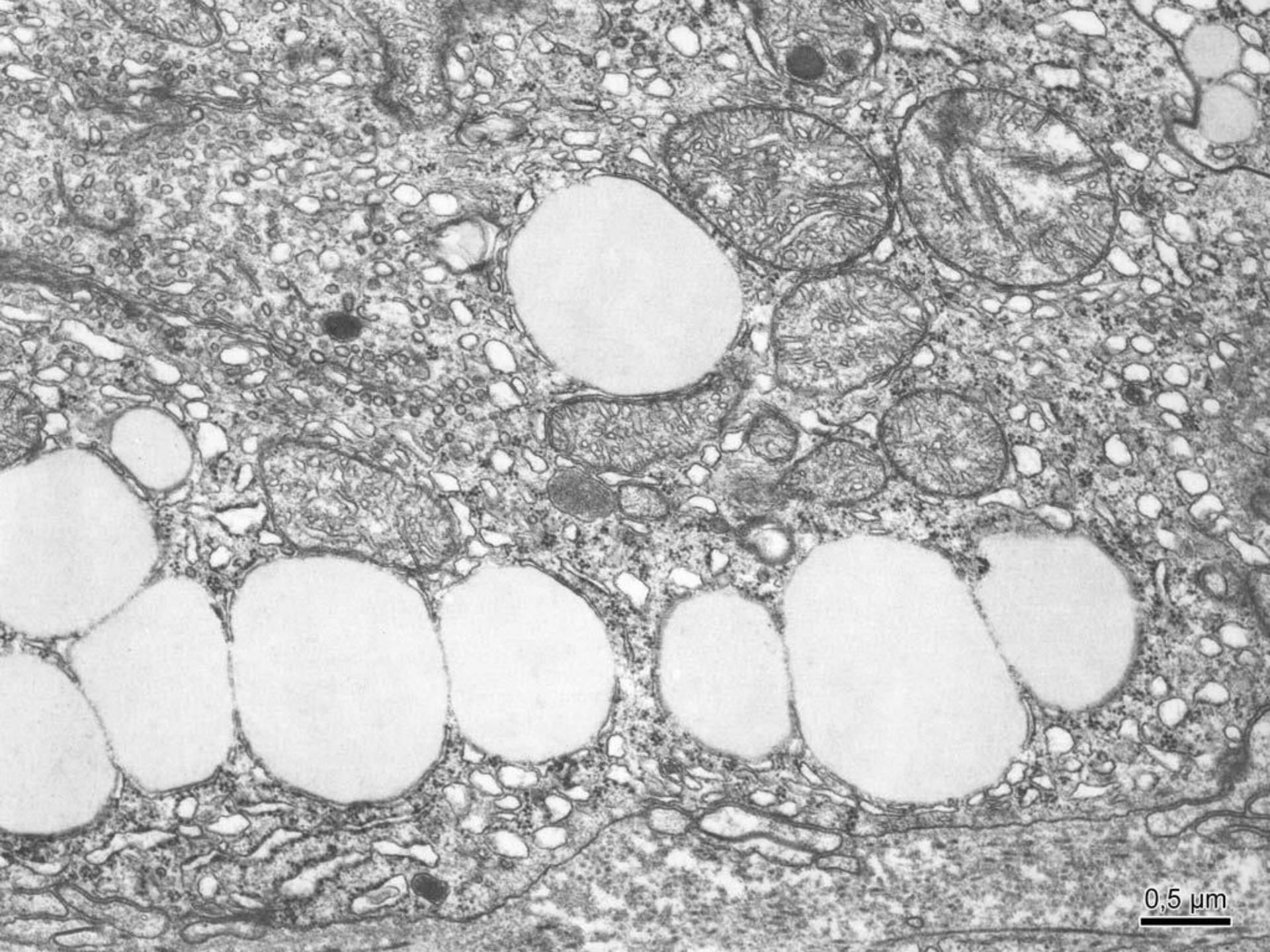
0,5 μ m



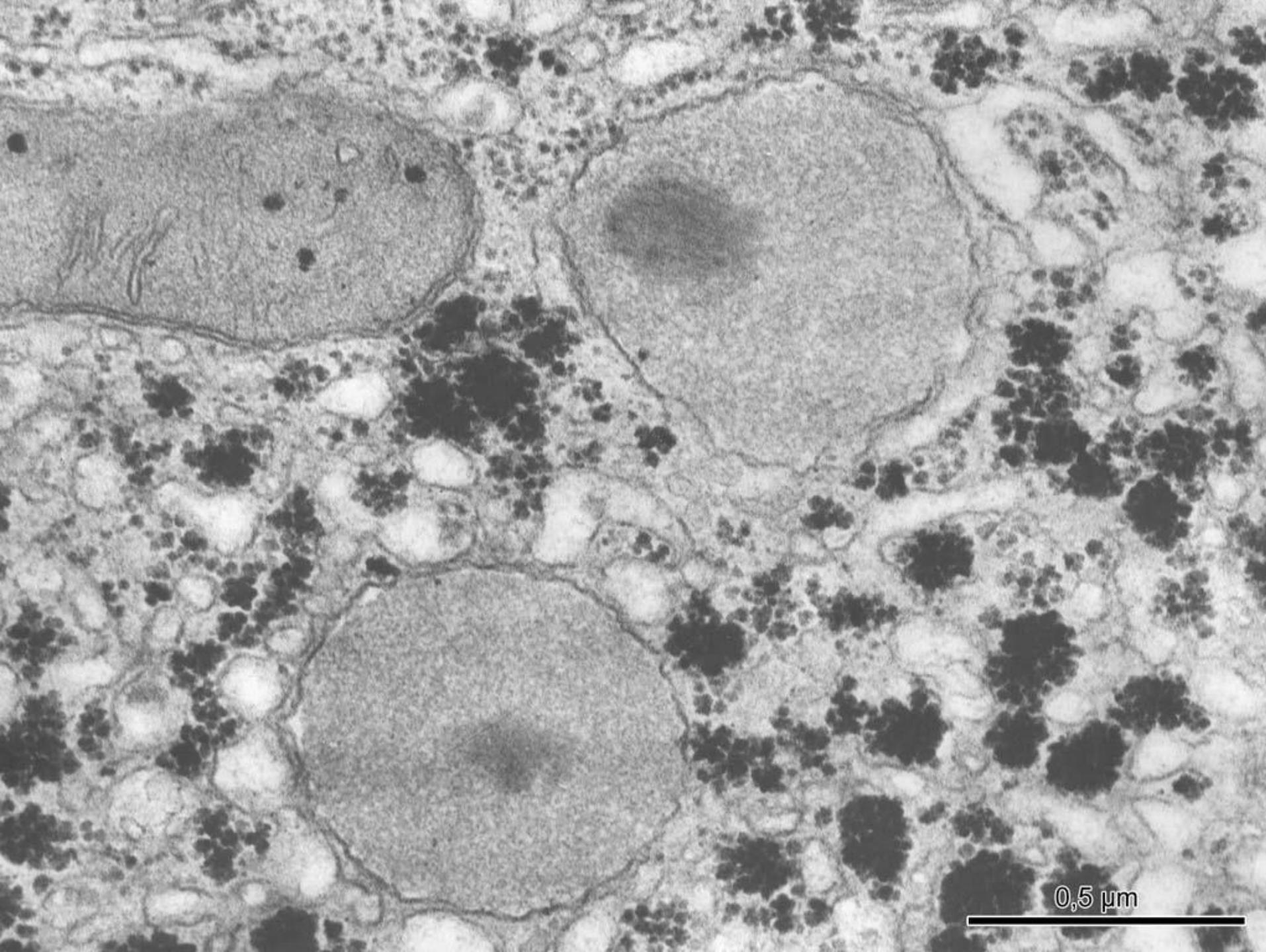
0,5 μ m



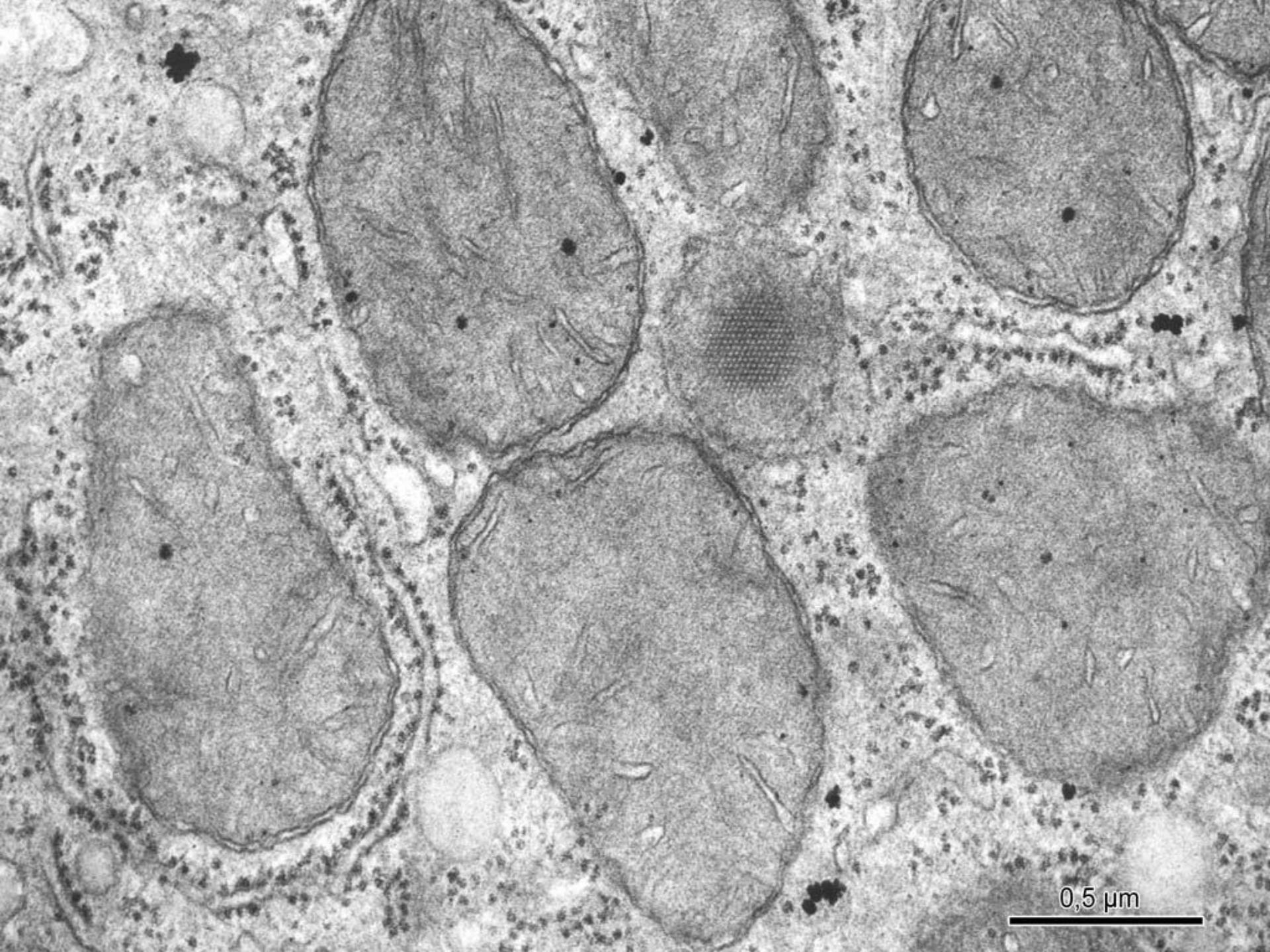
$0.5 \mu\text{m}$



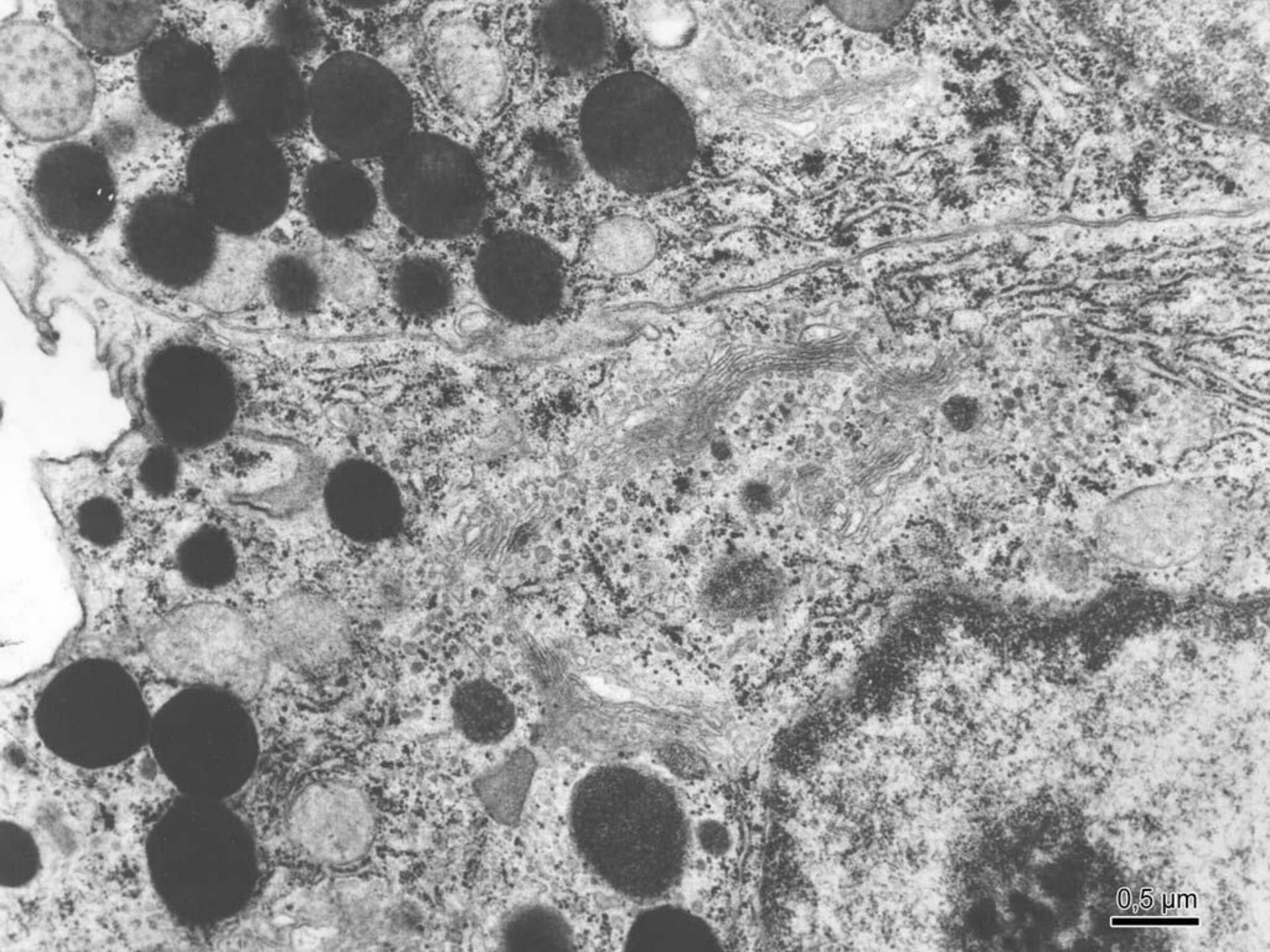
0,5 μ m



0,5 μ m

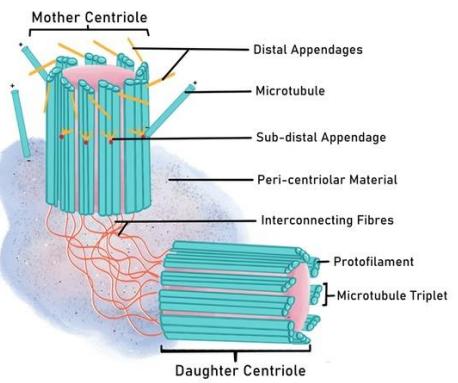


0,5 μ m

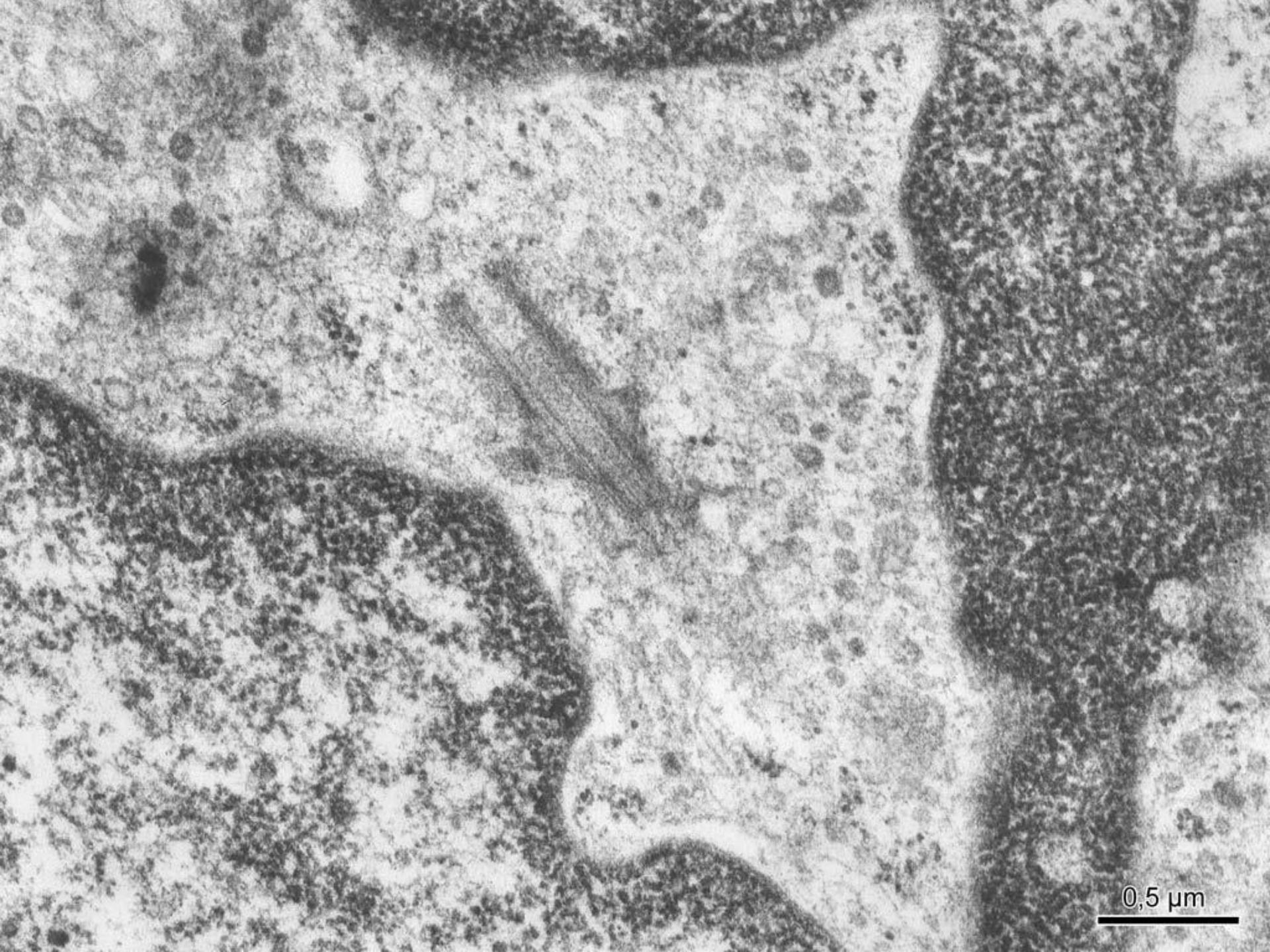


0,5 μm

CENTROSOME



0,5 μ m



This electron micrograph displays a detailed view of cellular ultrastructure. The image is dominated by a light gray background, with darker, granular regions indicating various organelles and cellular components. A prominent feature is a large, roughly circular structure located in the lower right quadrant, characterized by a dense, granular internal texture. Another significant feature is a diagonal band of similar granular material extending from the bottom left towards the top center. The overall appearance is that of a biological tissue or cell section. In the bottom right corner, there is a scale bar consisting of a horizontal line with '0,5' written above it and 'μm' written below it, indicating the resolution of the image.

0,5 μm

CYTOLOGY I

- nucleus
- nucleolus
- mitochondrion
- granular ER
- agranular ER
- Golgi apparatus
- lysosomes
- peroxisomes
- centrosome

Atlas: pages 1-14

Web:

https://is.muni.cz/do/rect/el/estud/lf/j/s18/histologie_atlas/

web/atlas_OH_en.html?chapter=0



Protocol No.:

Protocol title:

UCO/Name:

Study program/year:

Study group:

Date:

List of slides (Box):

Number Title of slide and used staining

List of electronograms (Atlas)

Number Title of electronogram

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Guidelines for protocol preparation

1. Protocol shall complement theoretical knowledge with real microscopic observations. As such it contains color diagrams of histological slides, or black and white diagrams of electronograms of EM atlas, and if applicable, also answers to theoretical questions.