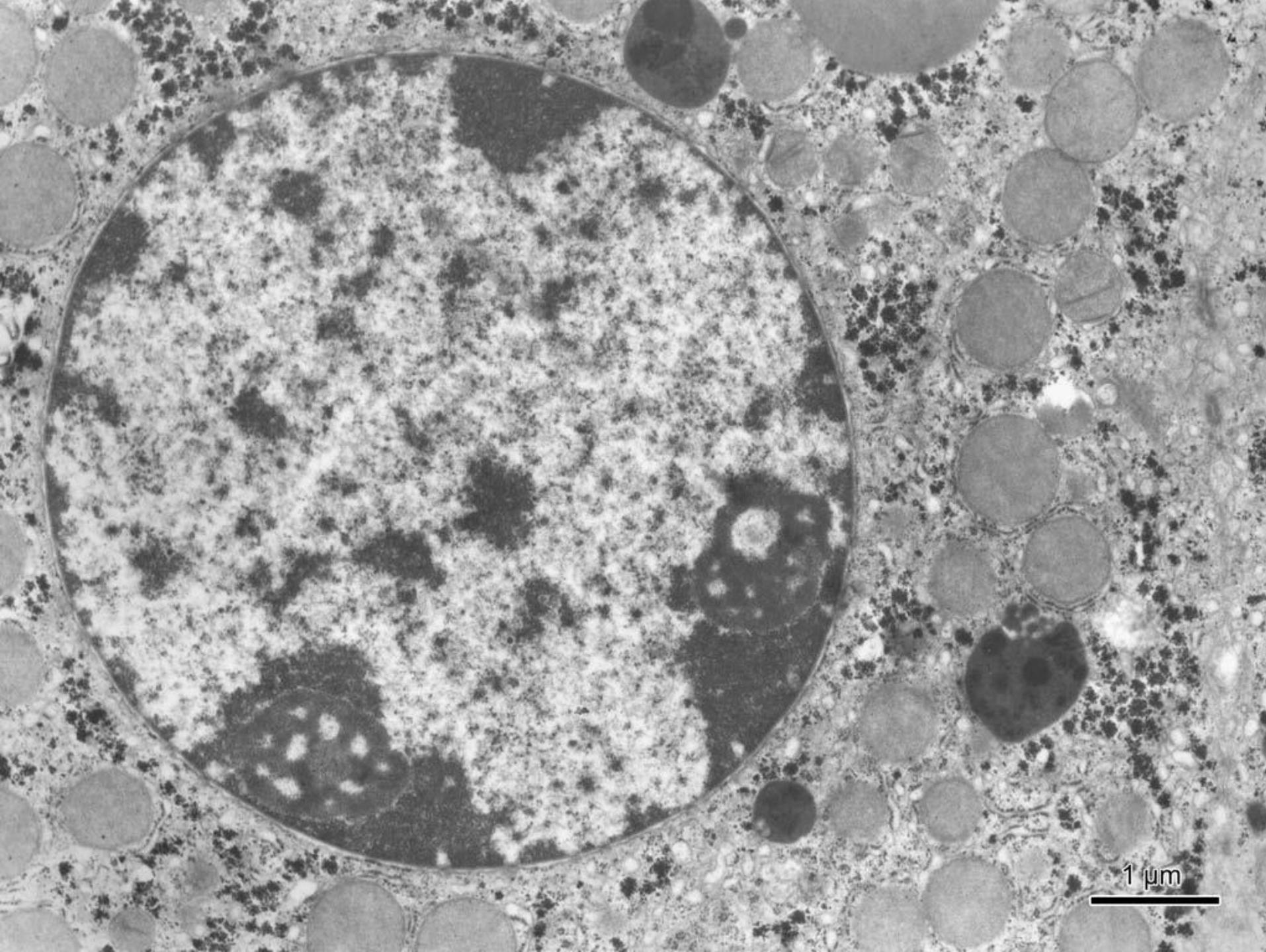


M U N I
M E D

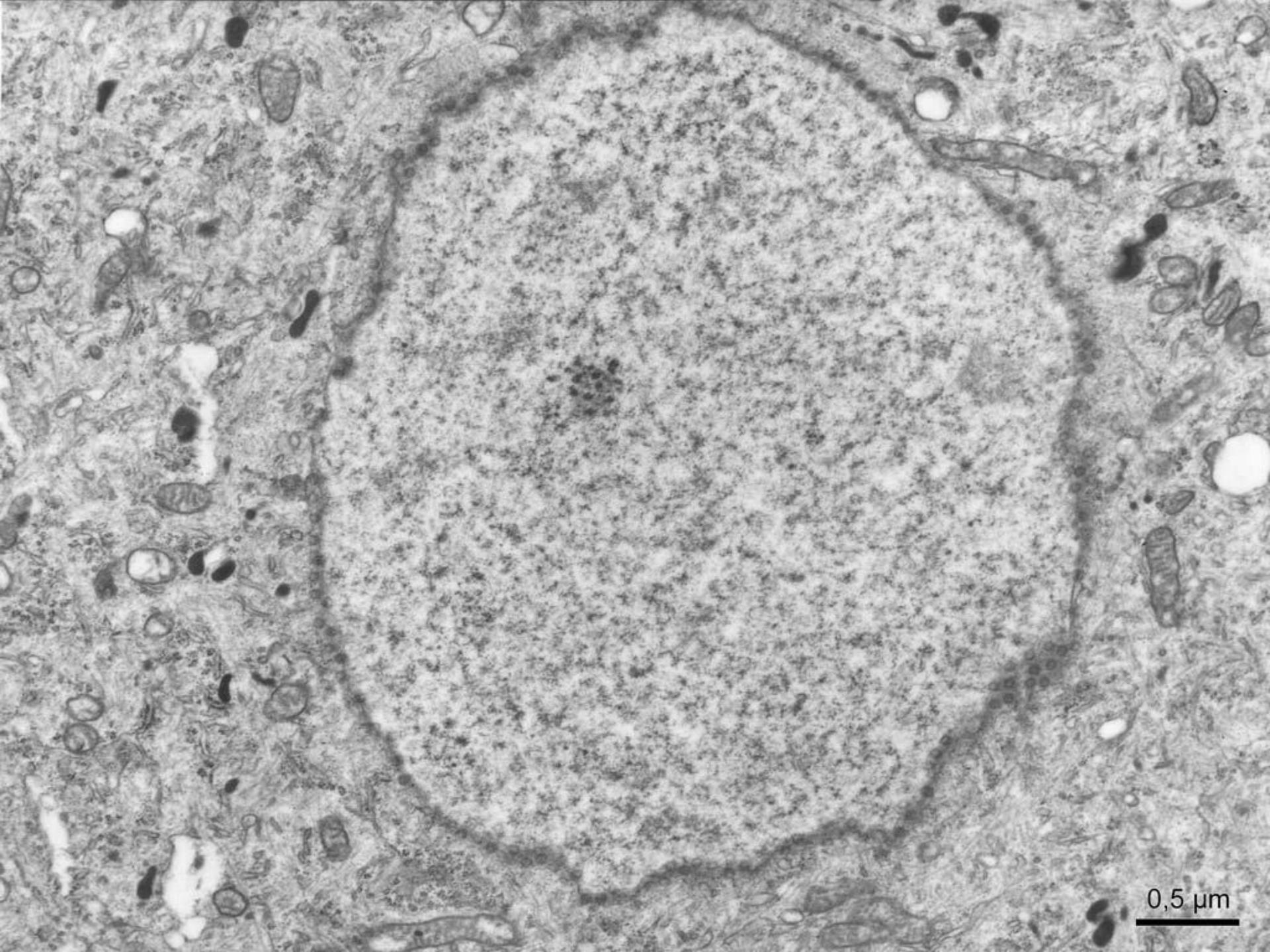
CYTOLOGY I

Ultrastructure of nucleus and cell organelles

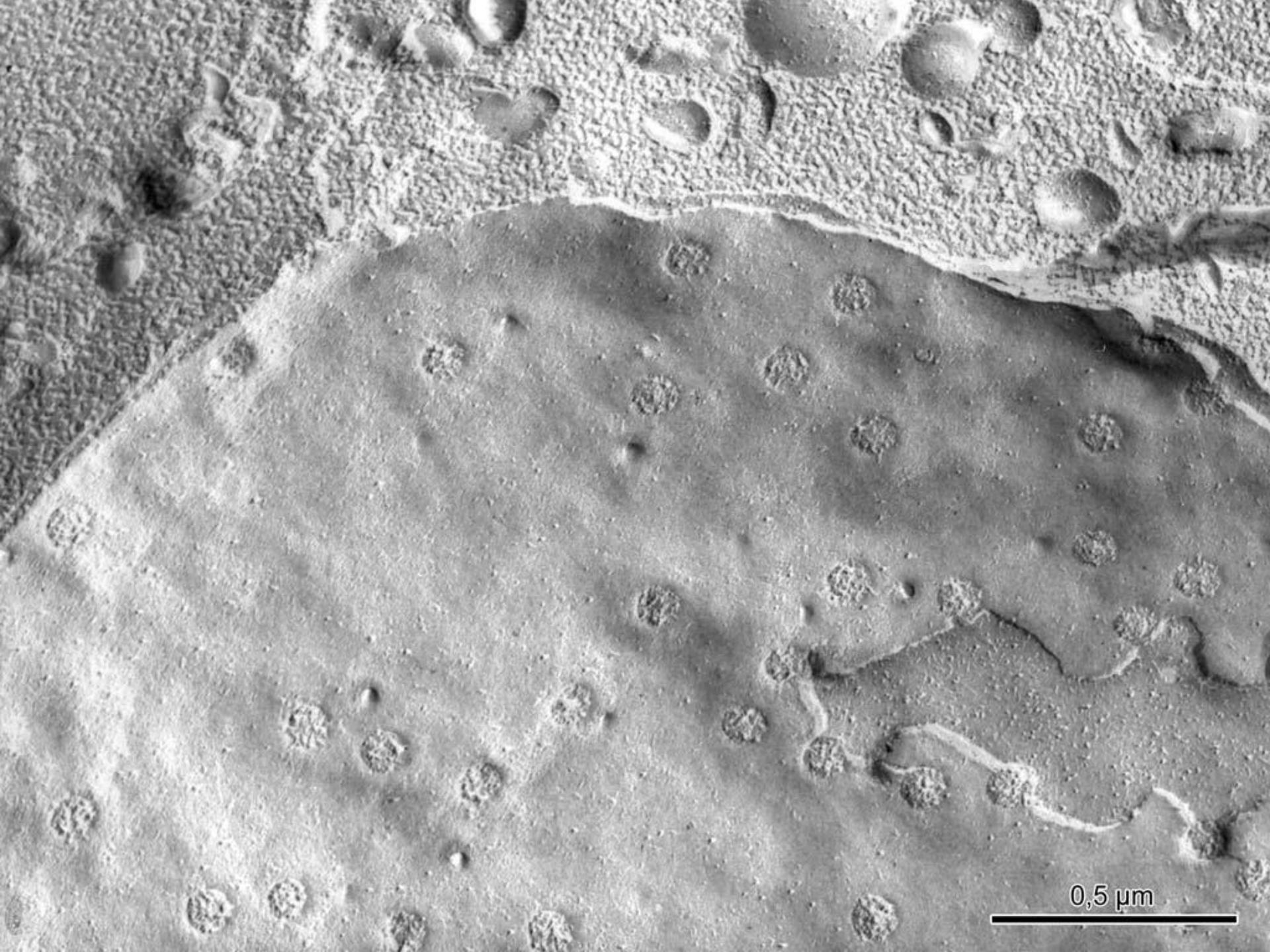
ATLAS OF CYTOLOGY AND EMBRYOLOGY



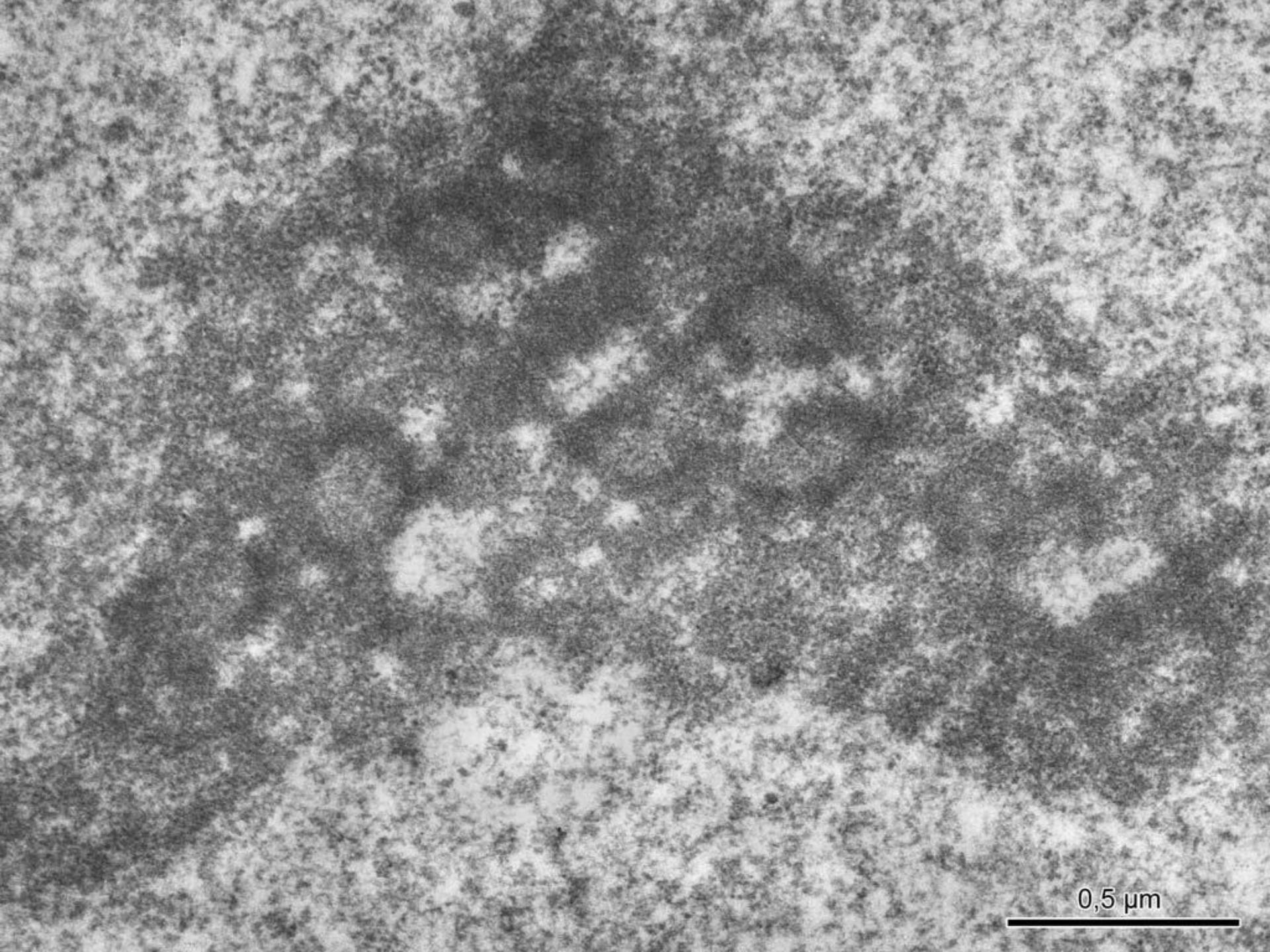
1 μ m



0,5 μm

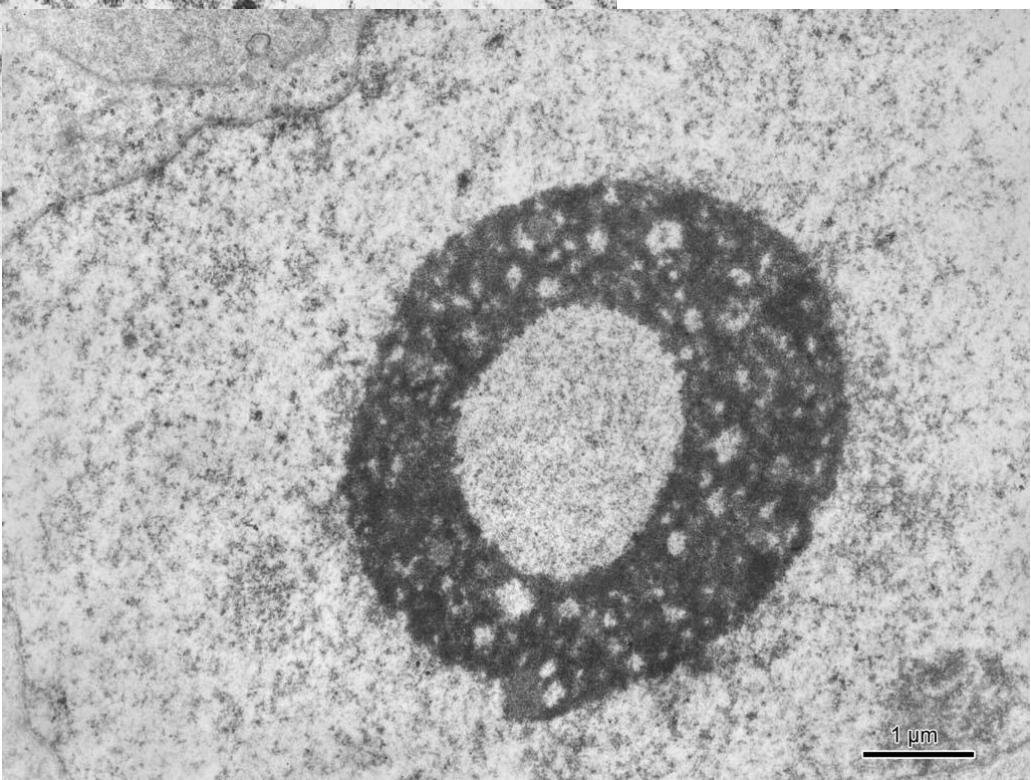
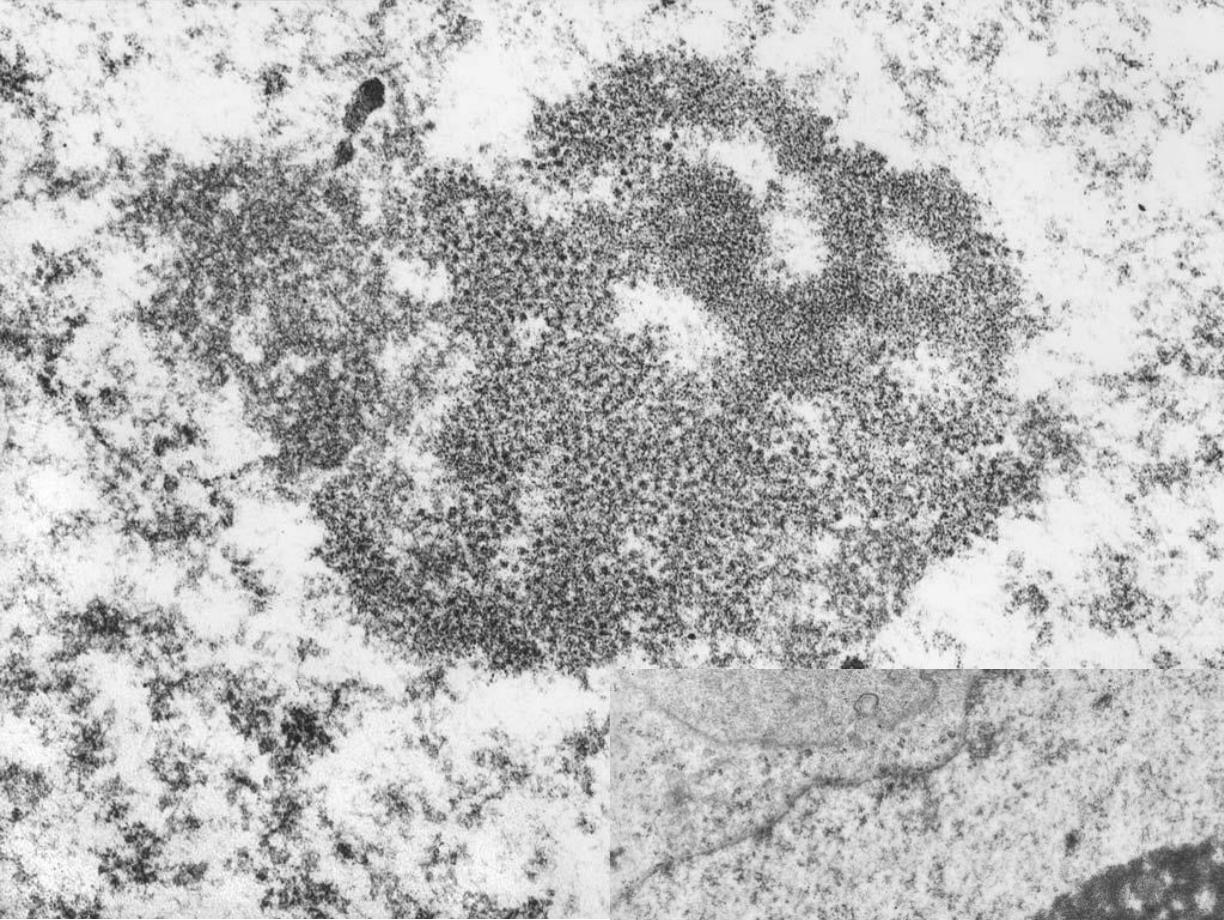


0,5 μm



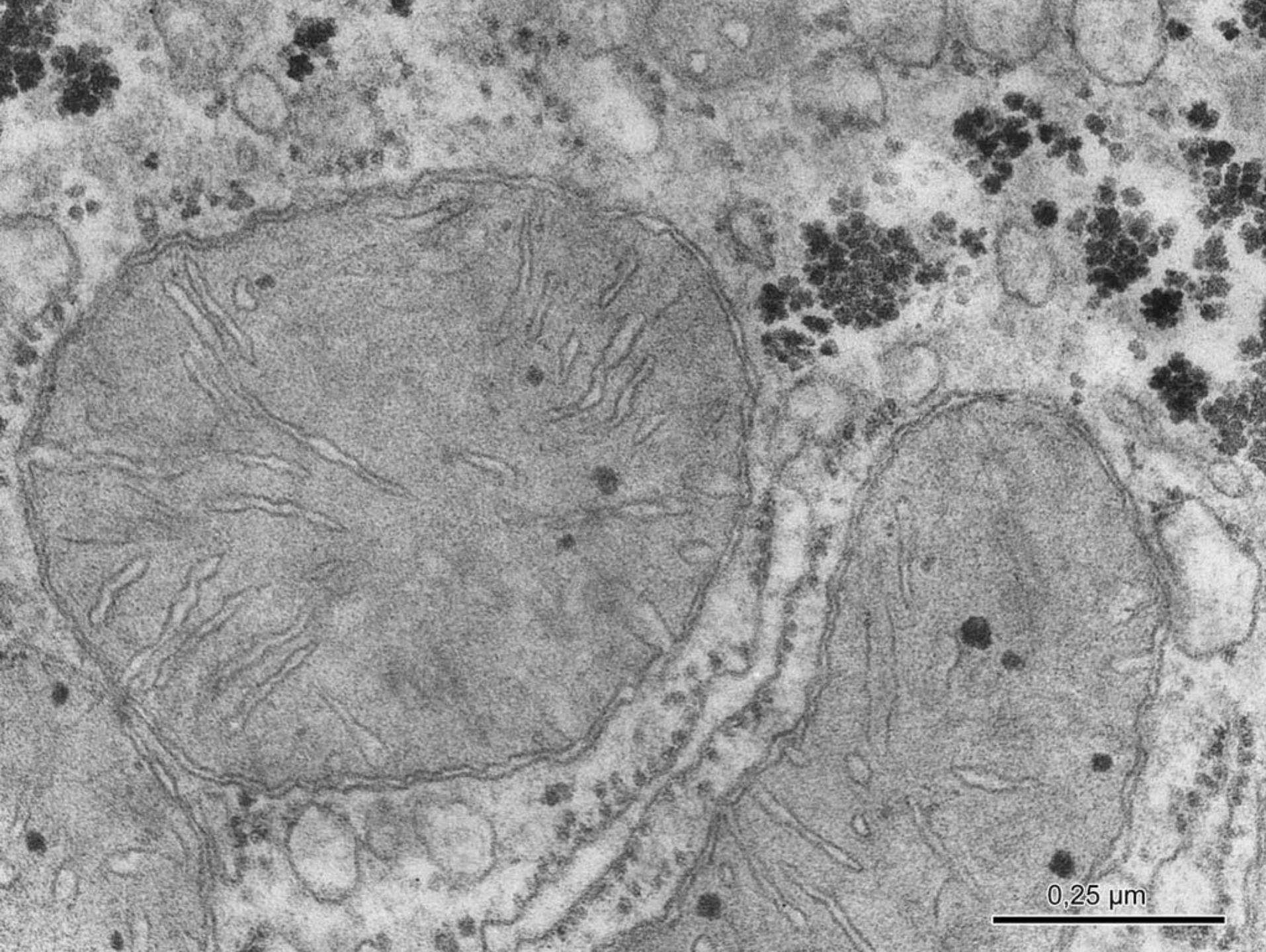
0,5 μm

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 background is a lighter gray, suggesting a different material or a different depth of field. 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.

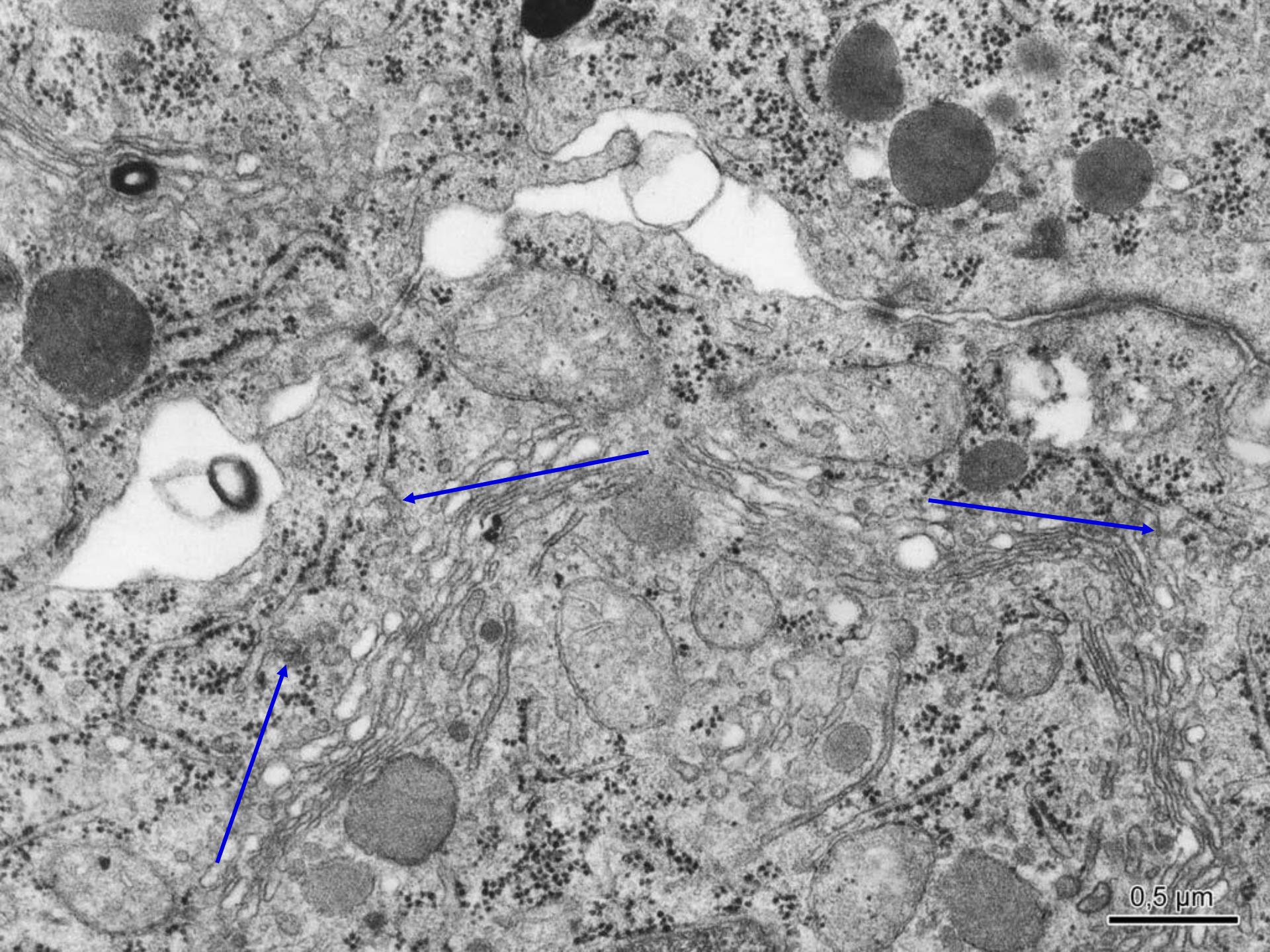


1 μm

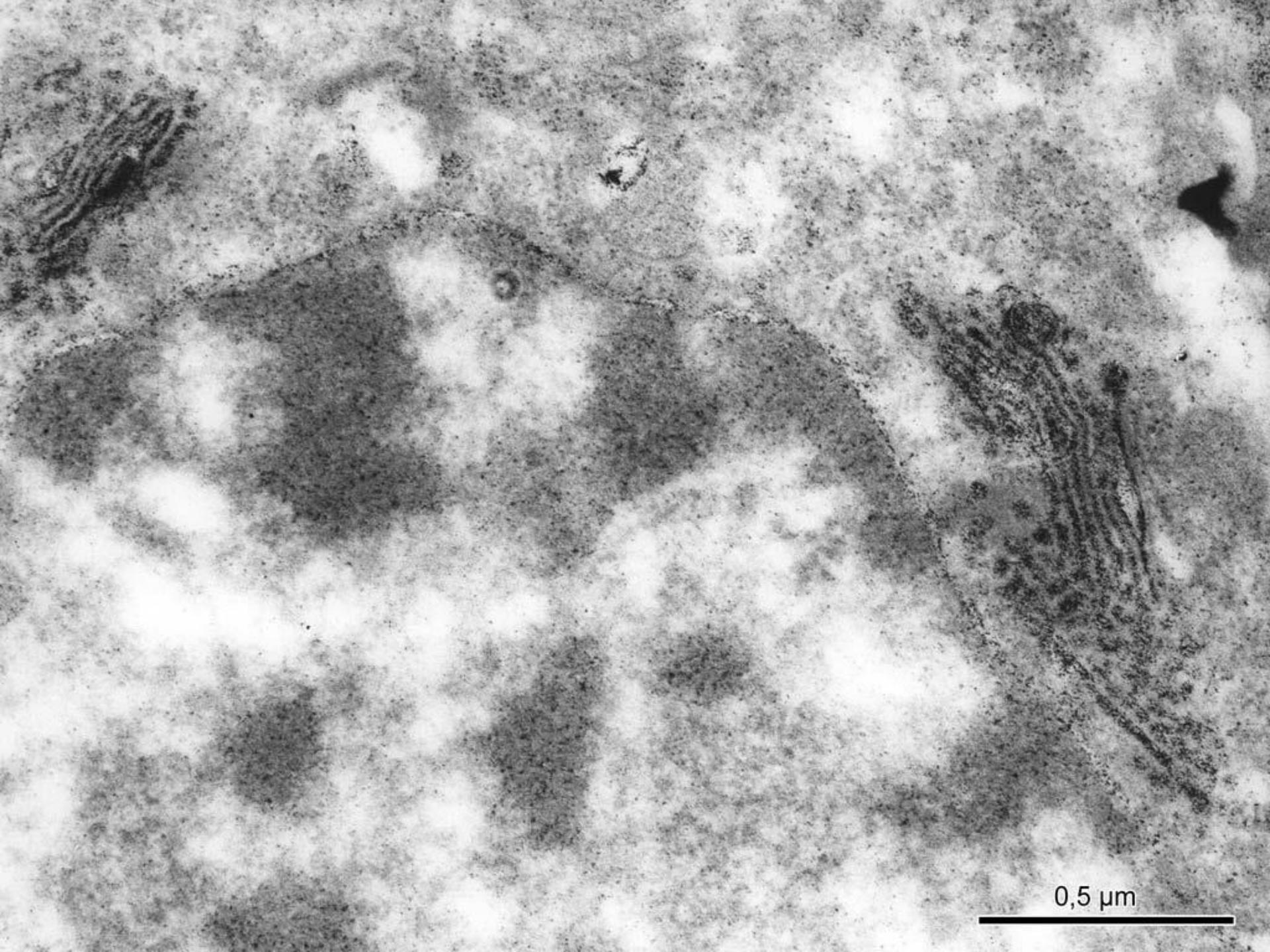
MUNI
MED



0,25 μ m

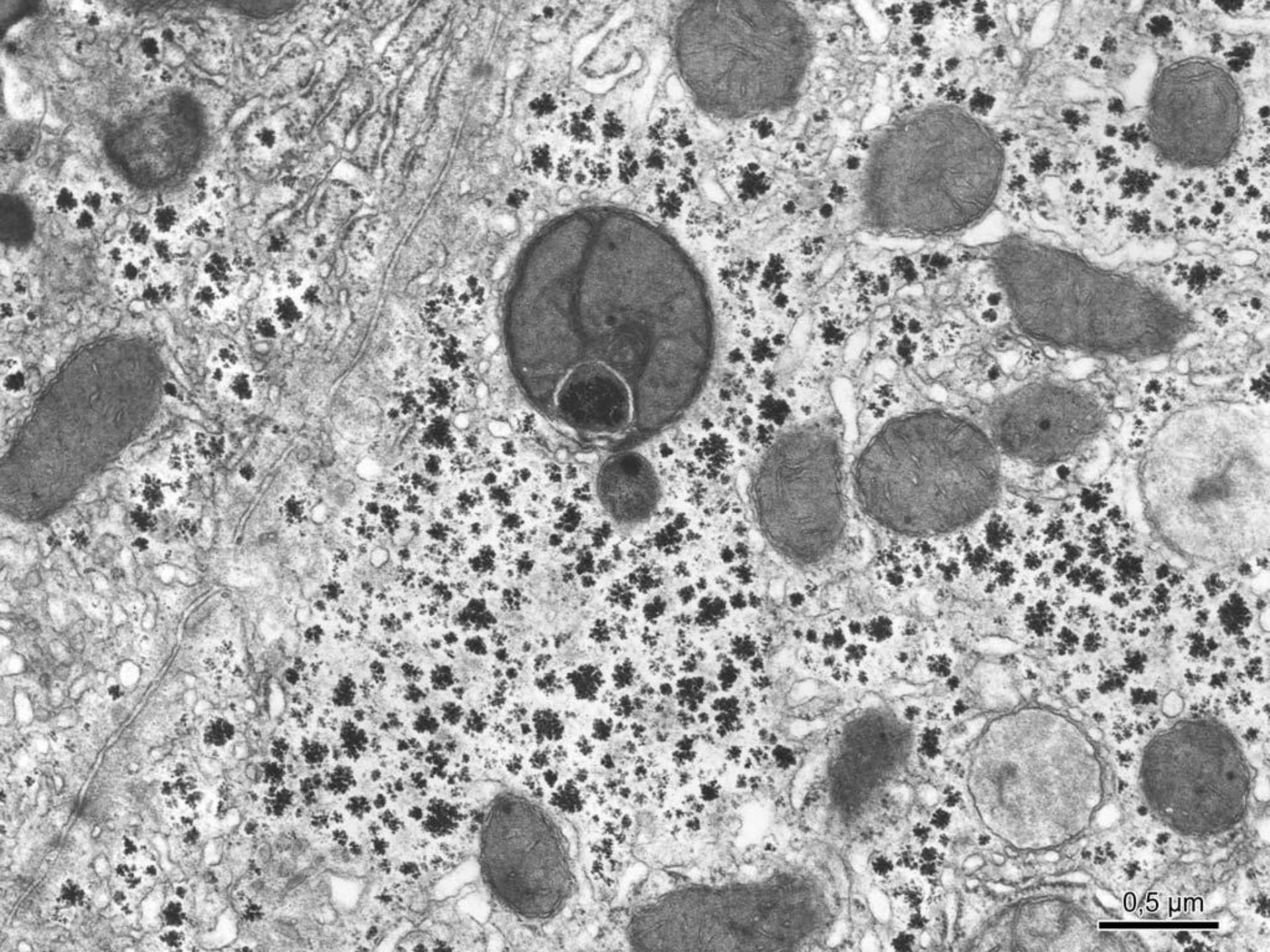


$0.5 \mu\text{m}$

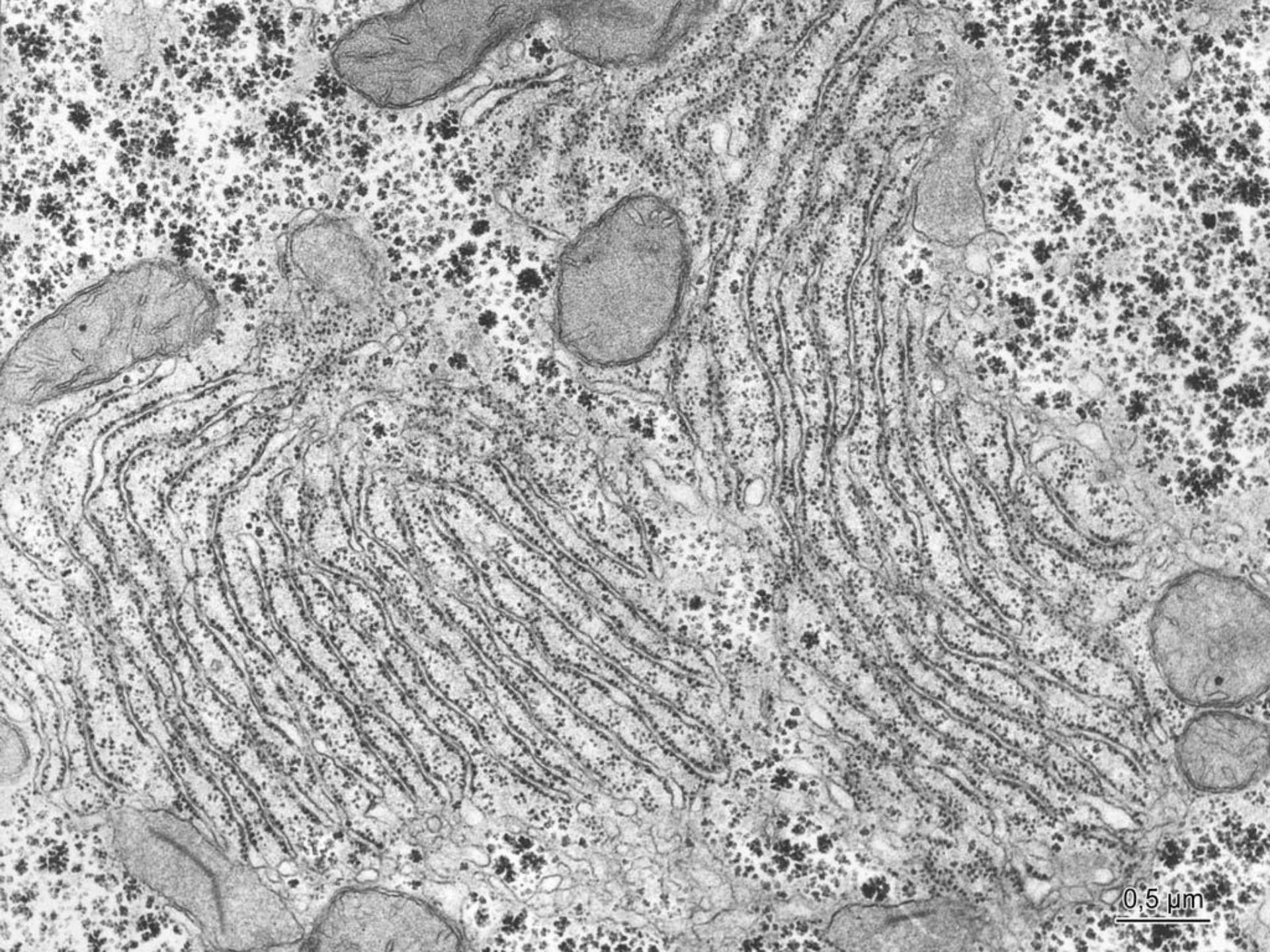


This electron micrograph displays a complex cellular ultrastructure. The image is dominated by a light gray background, with darker, granular regions representing various organelles and cytoplasmic components. A prominent feature is a large, roughly circular structure in the center-left, characterized by a dense, granular texture. To the right, there are several elongated, dark, membrane-bound vesicles or tubular structures. In the bottom right corner, a scale bar is present, consisting of a horizontal line with the text "0,5 μm" written next to it.

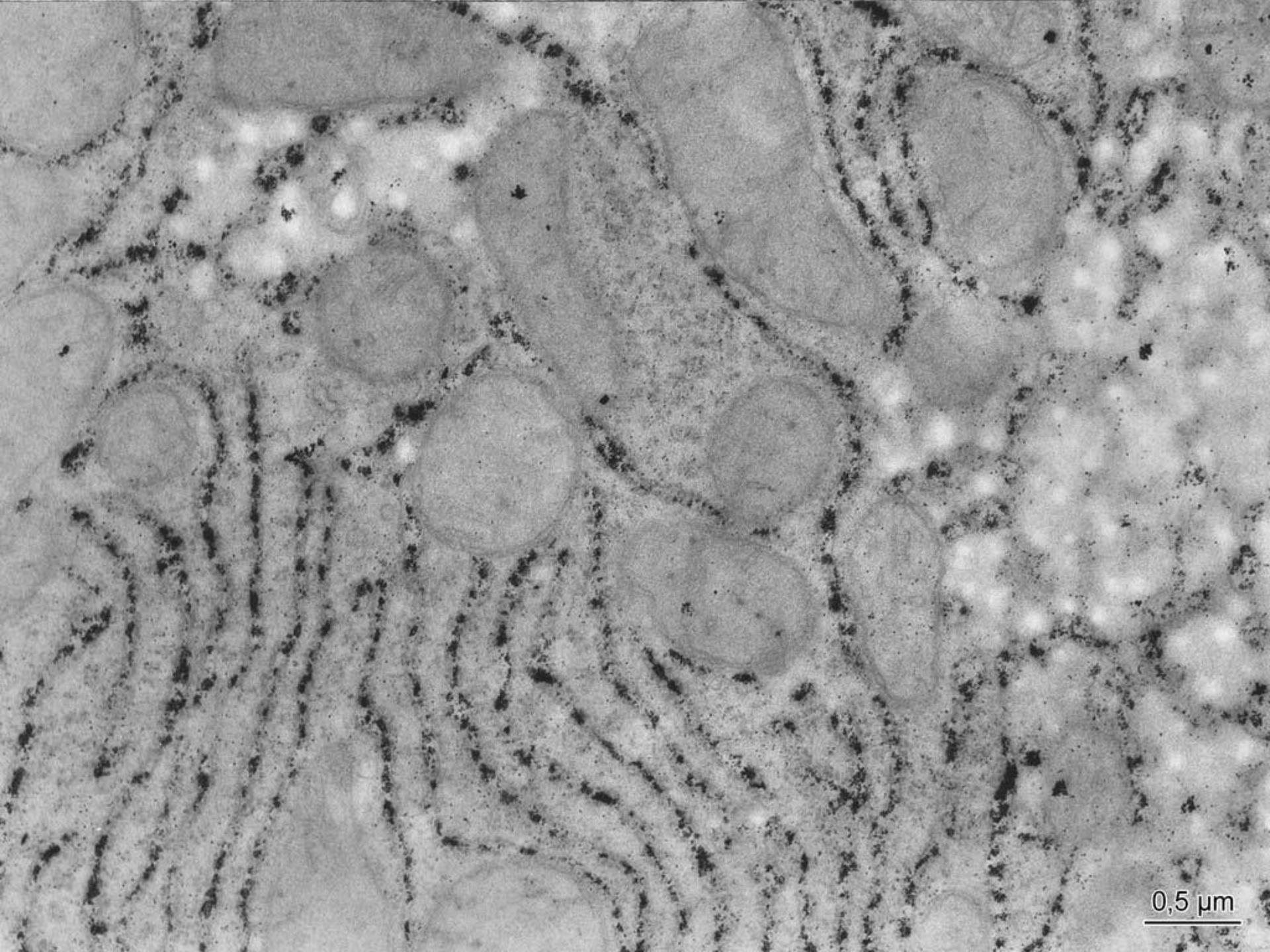
0,5 μm



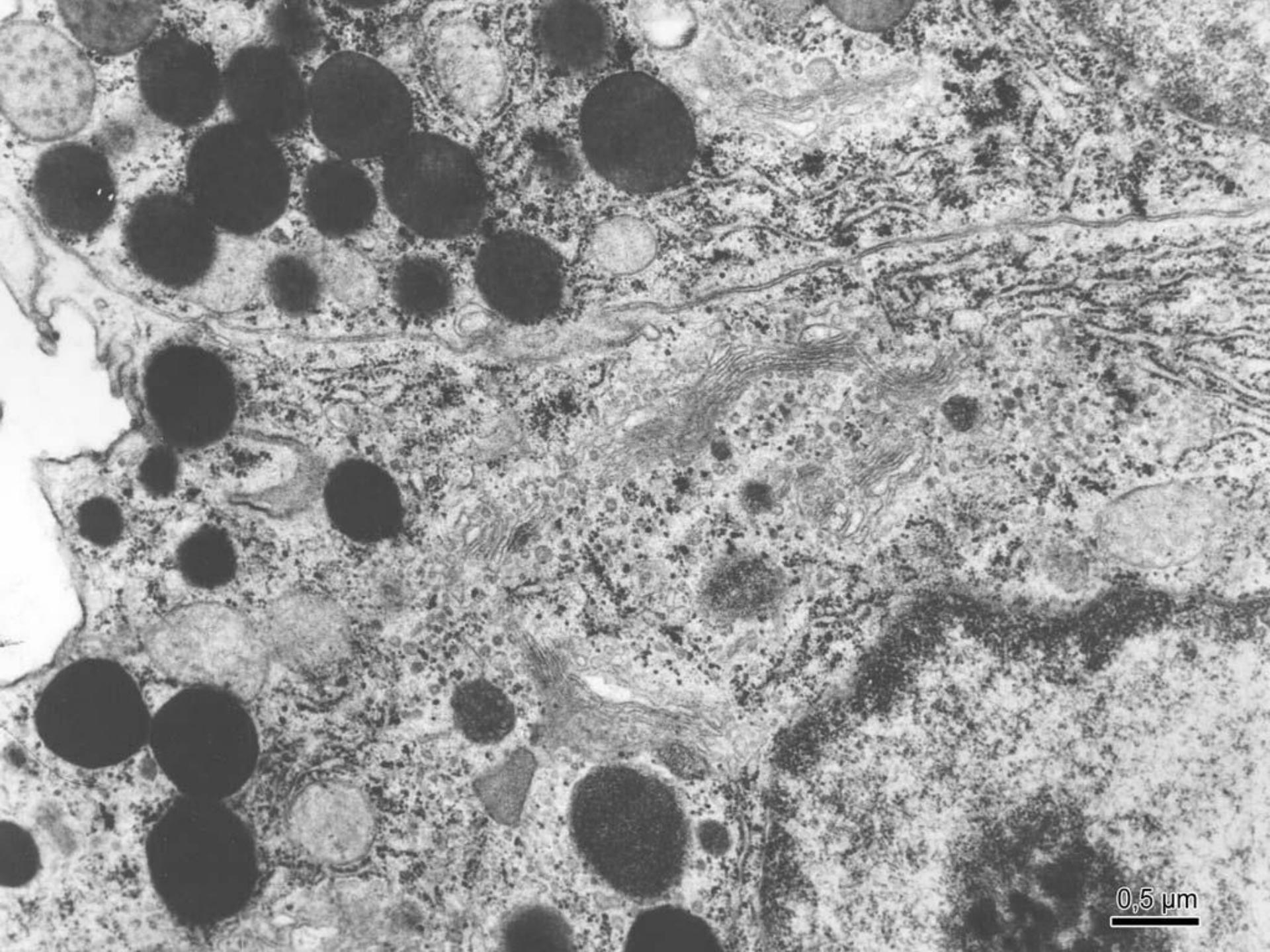
0,5 μ m



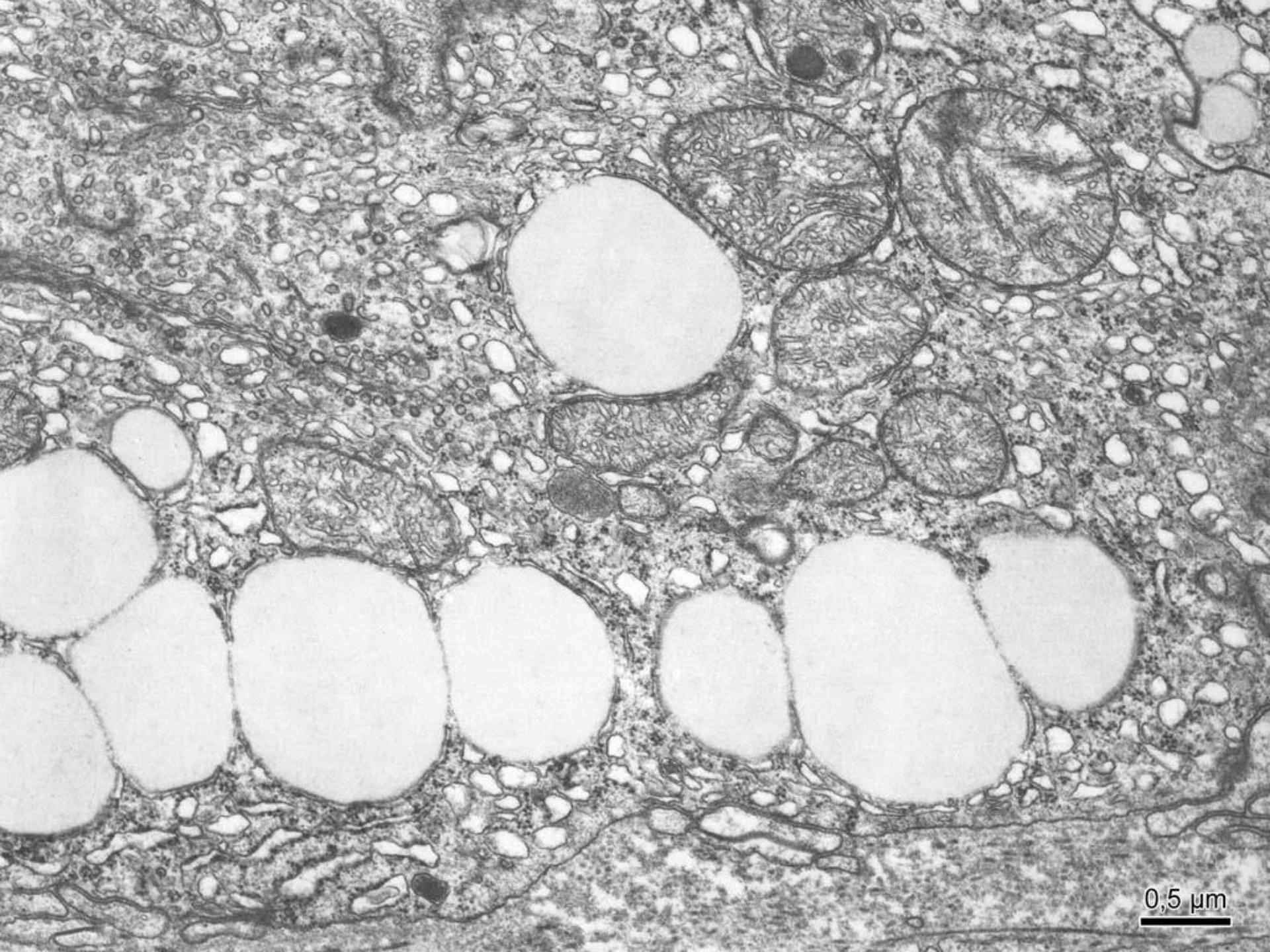
0,5 μ m



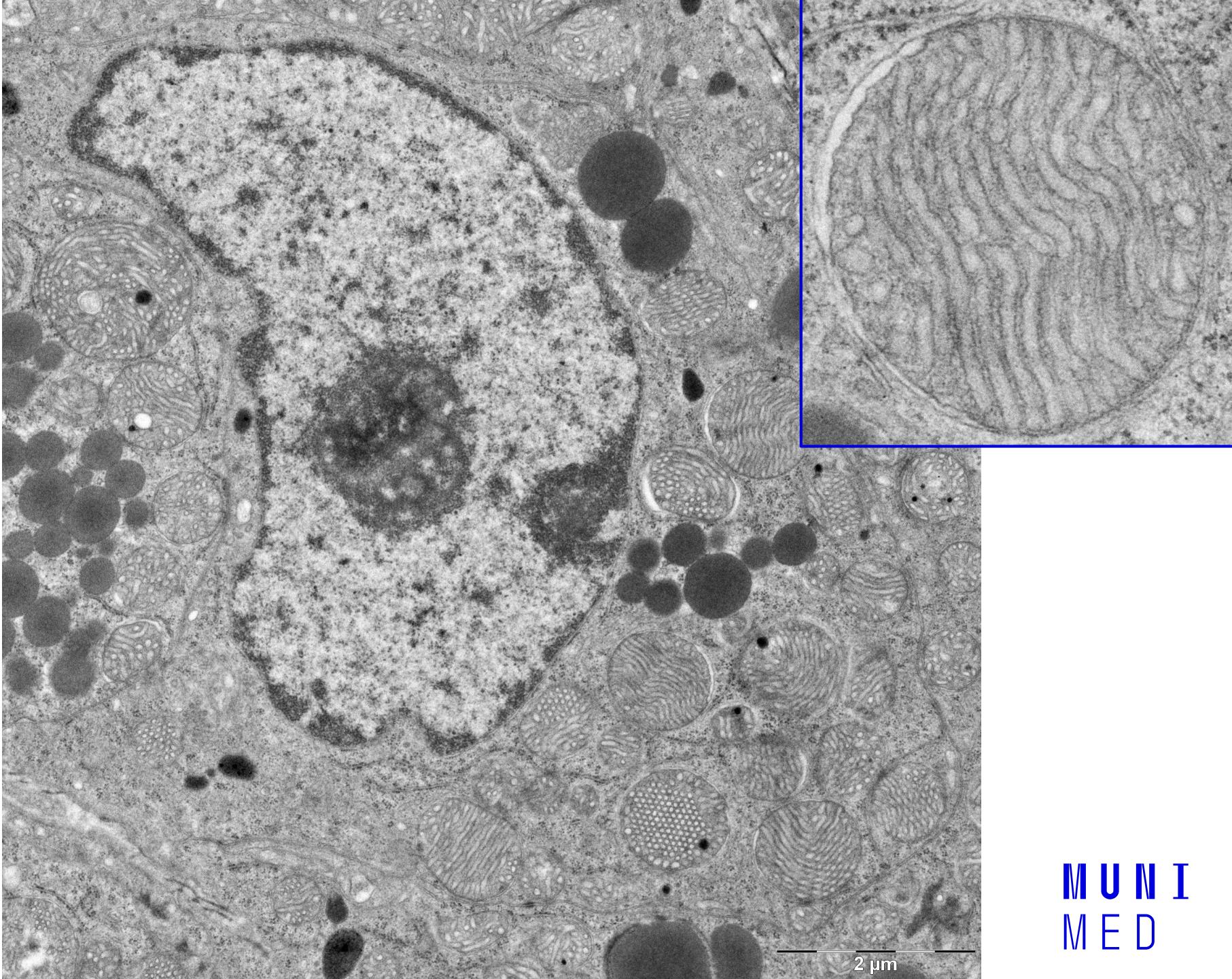
0,5 μ m



0,5 μm



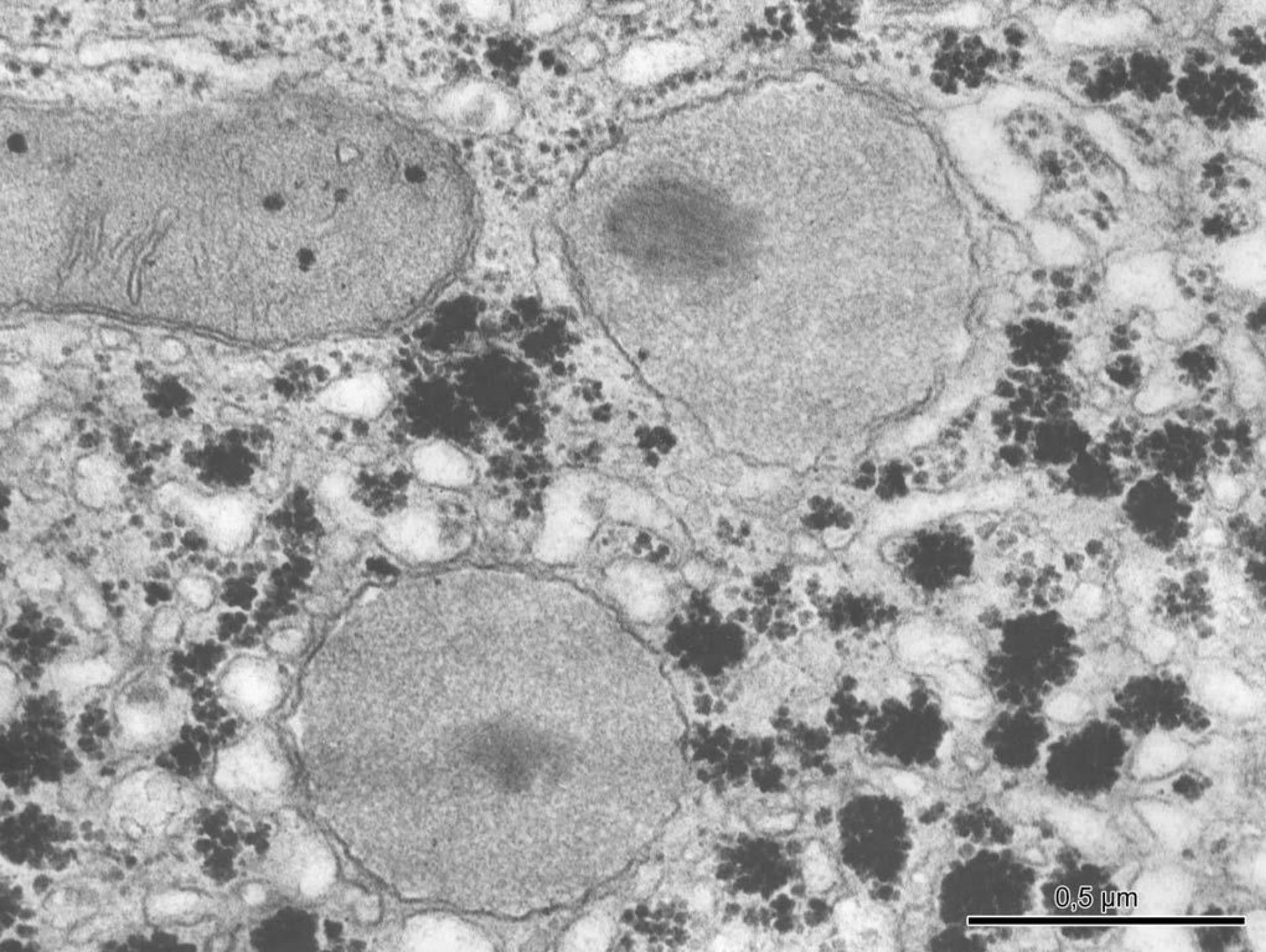
0,5 μ m



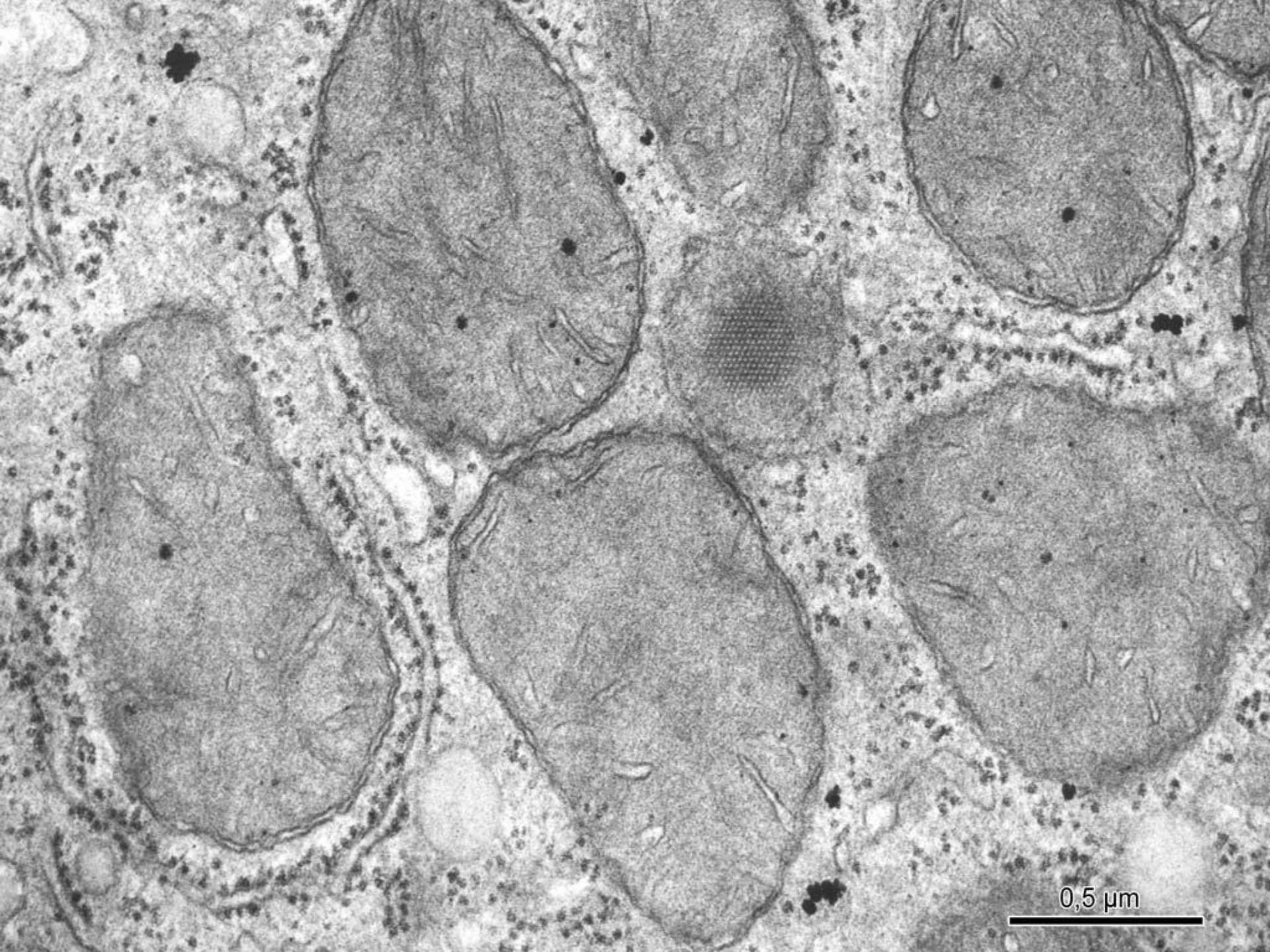
15

2 μm

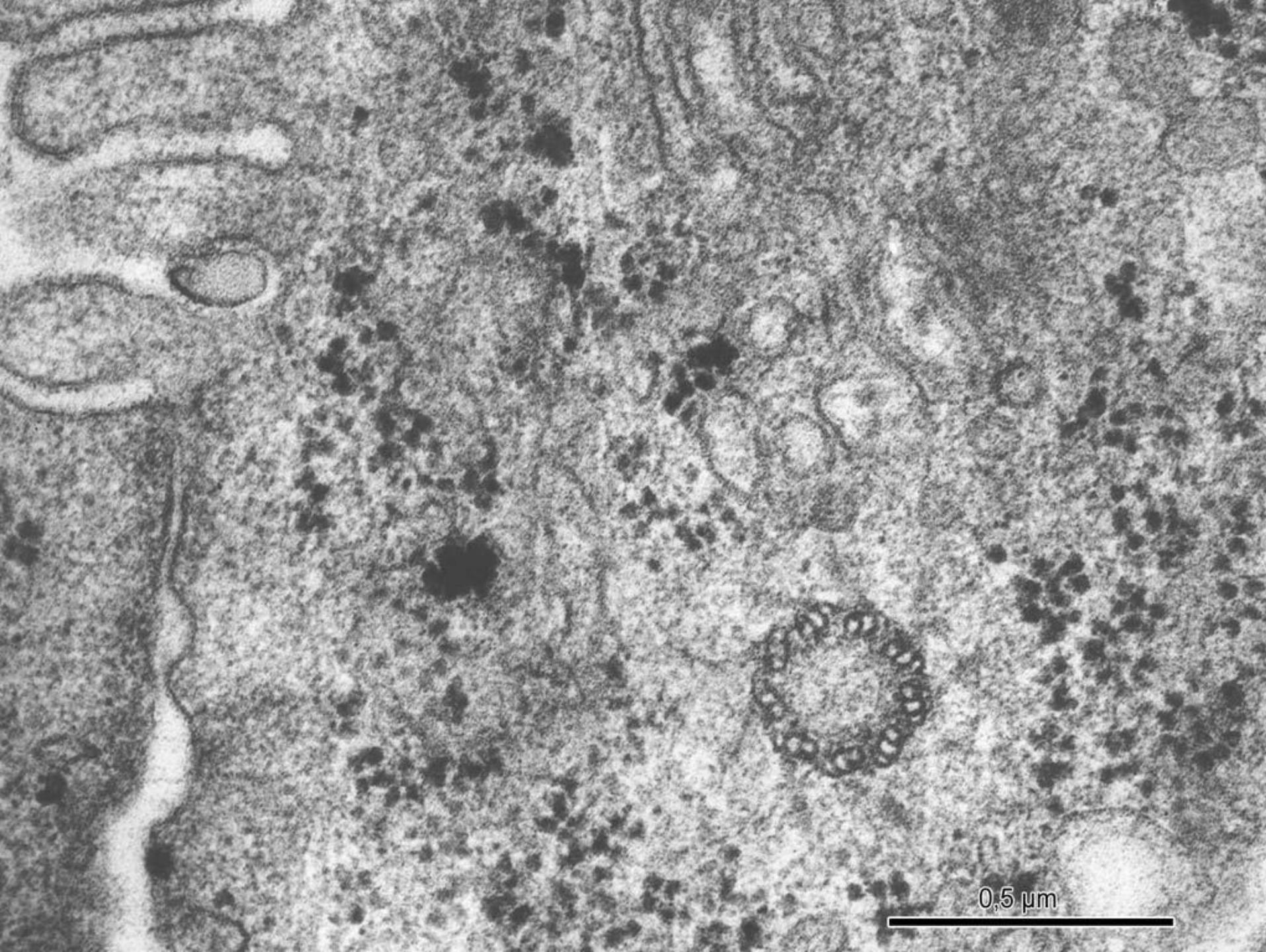
MUNI
MED



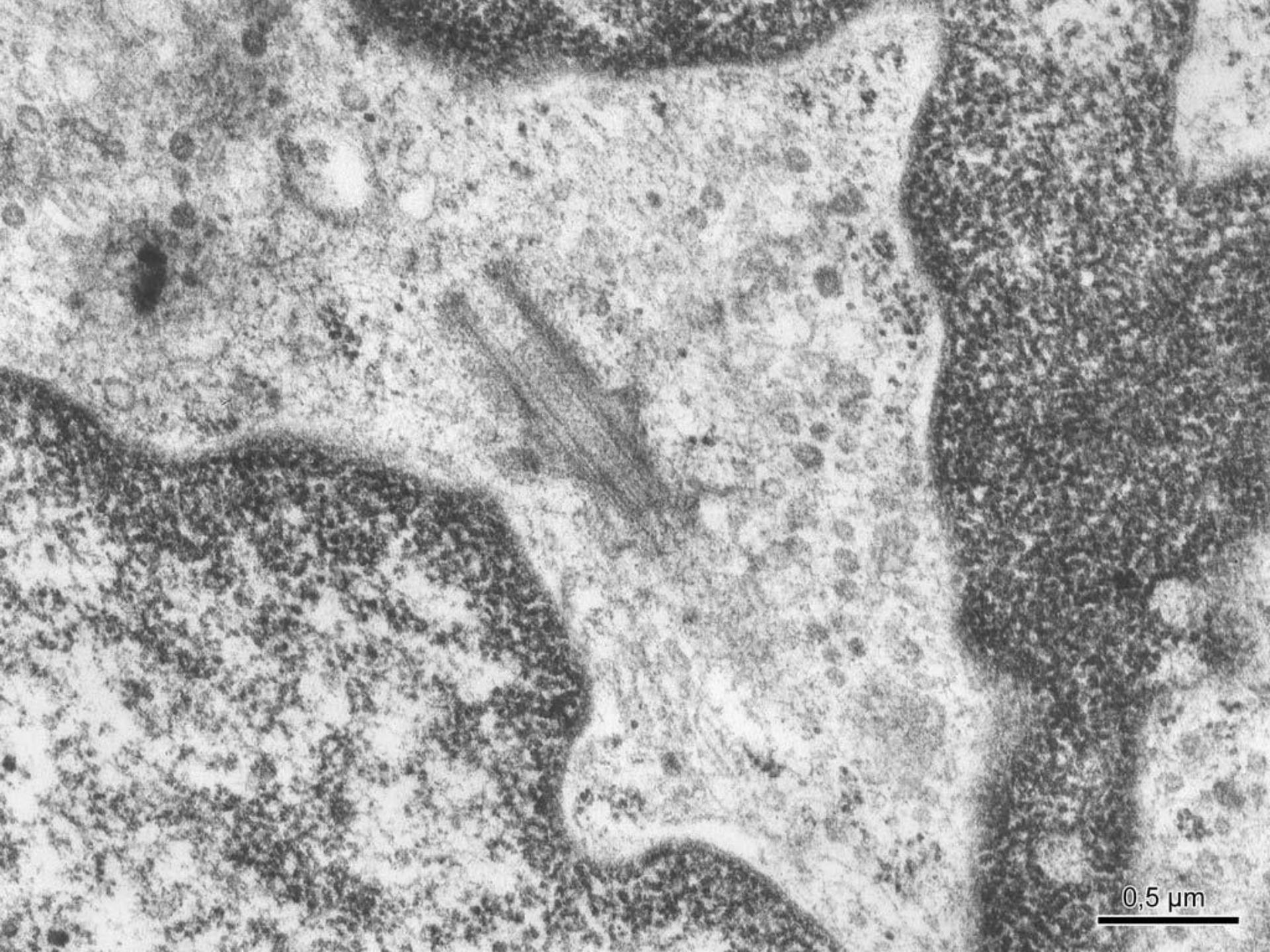
0,5 μ m



0,5 μ m



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 at a high magnification level.

0,5 μ m

CYTOTOLOGY I

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

Atlas: pages 1-14

Web:

https://is.muni.cz/do/rect/el/estud/lf/js18/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):

List of electronograms (Atlas)

Number Title of slide and used staining

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.