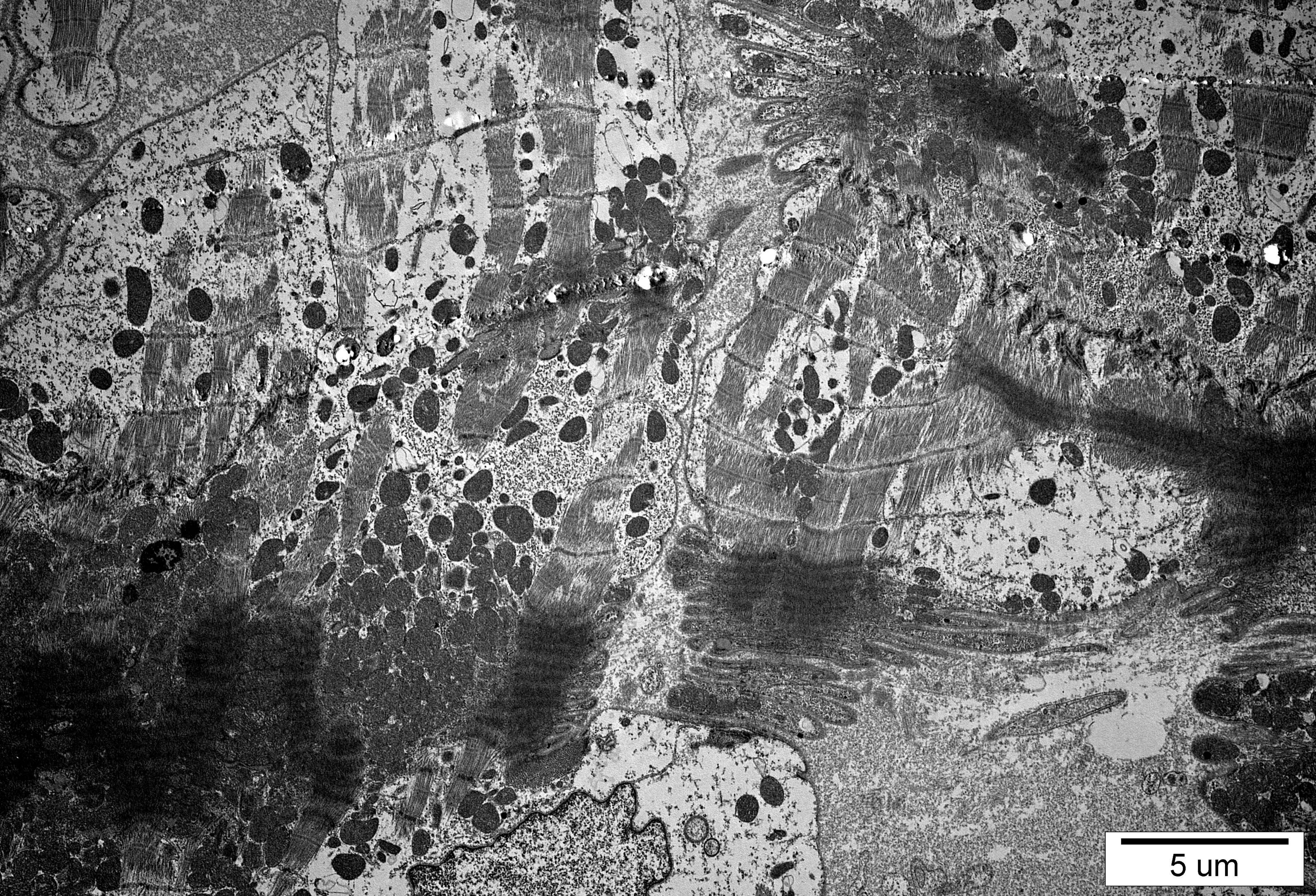
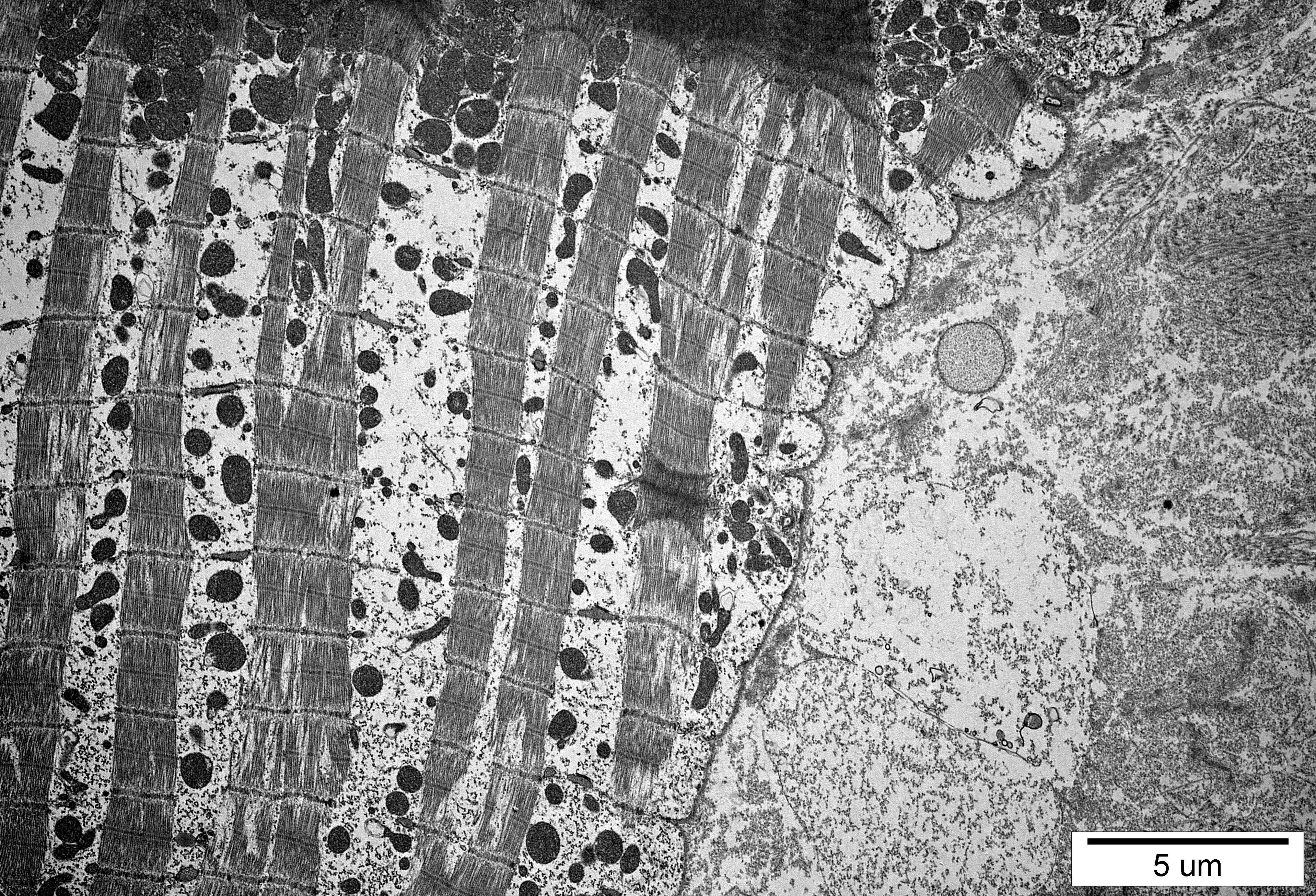


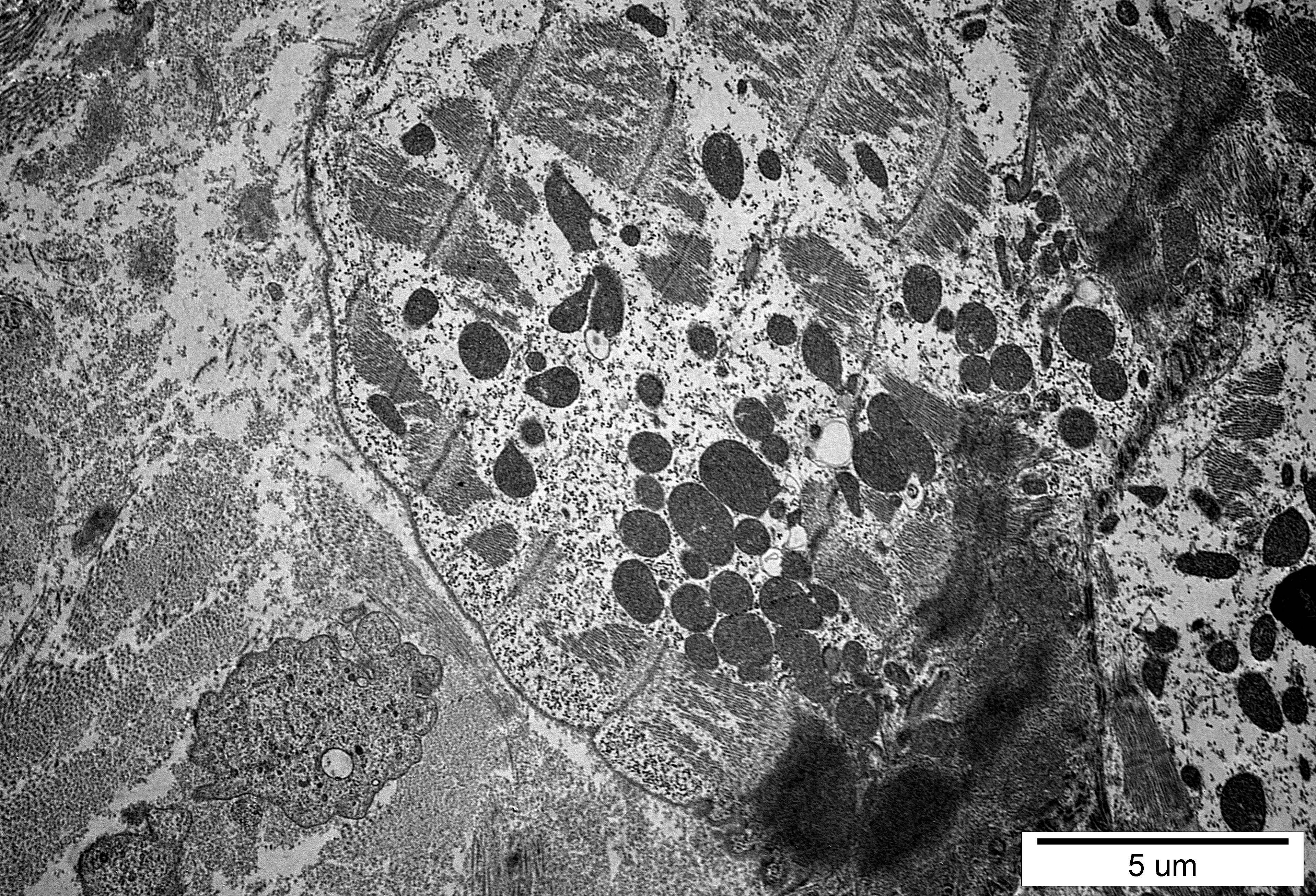
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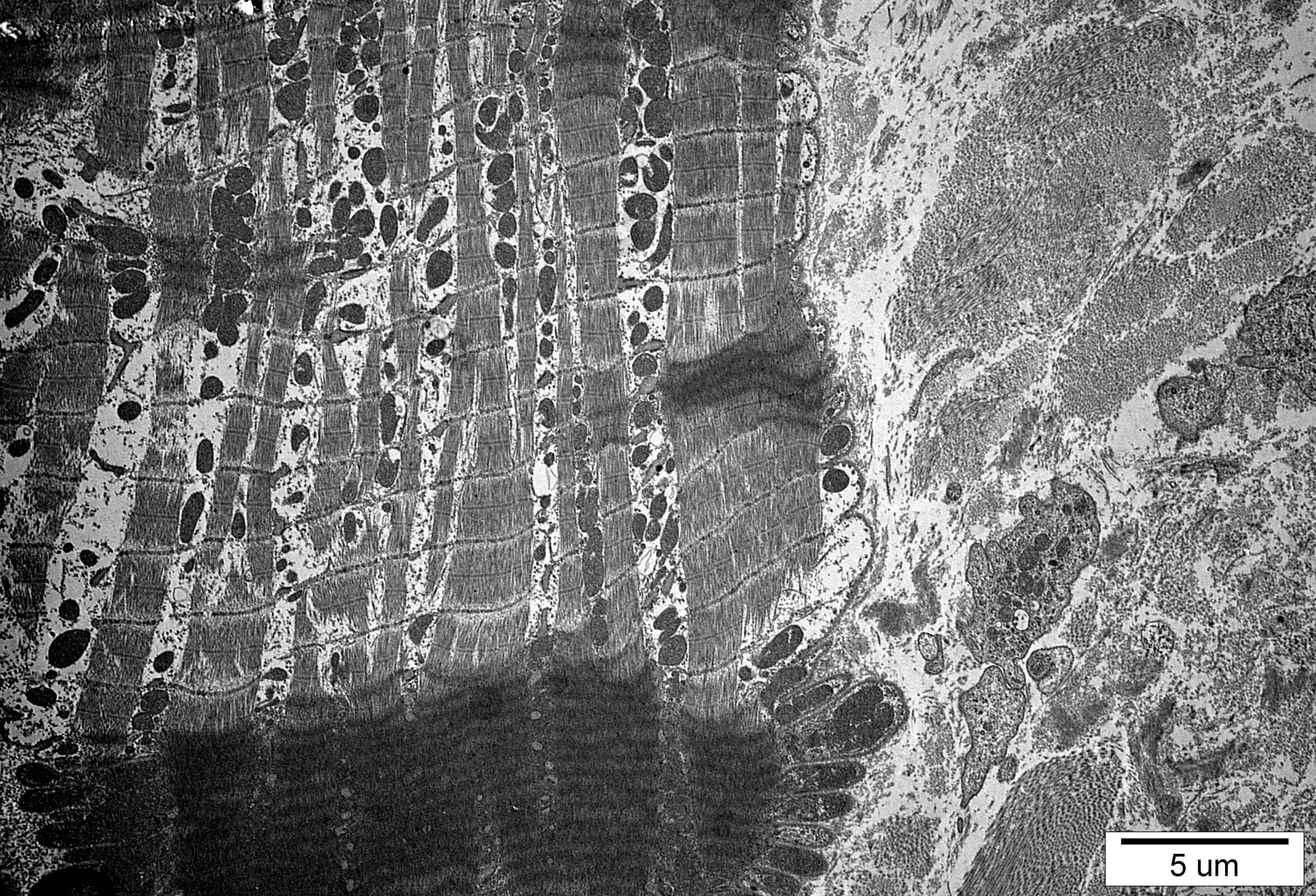
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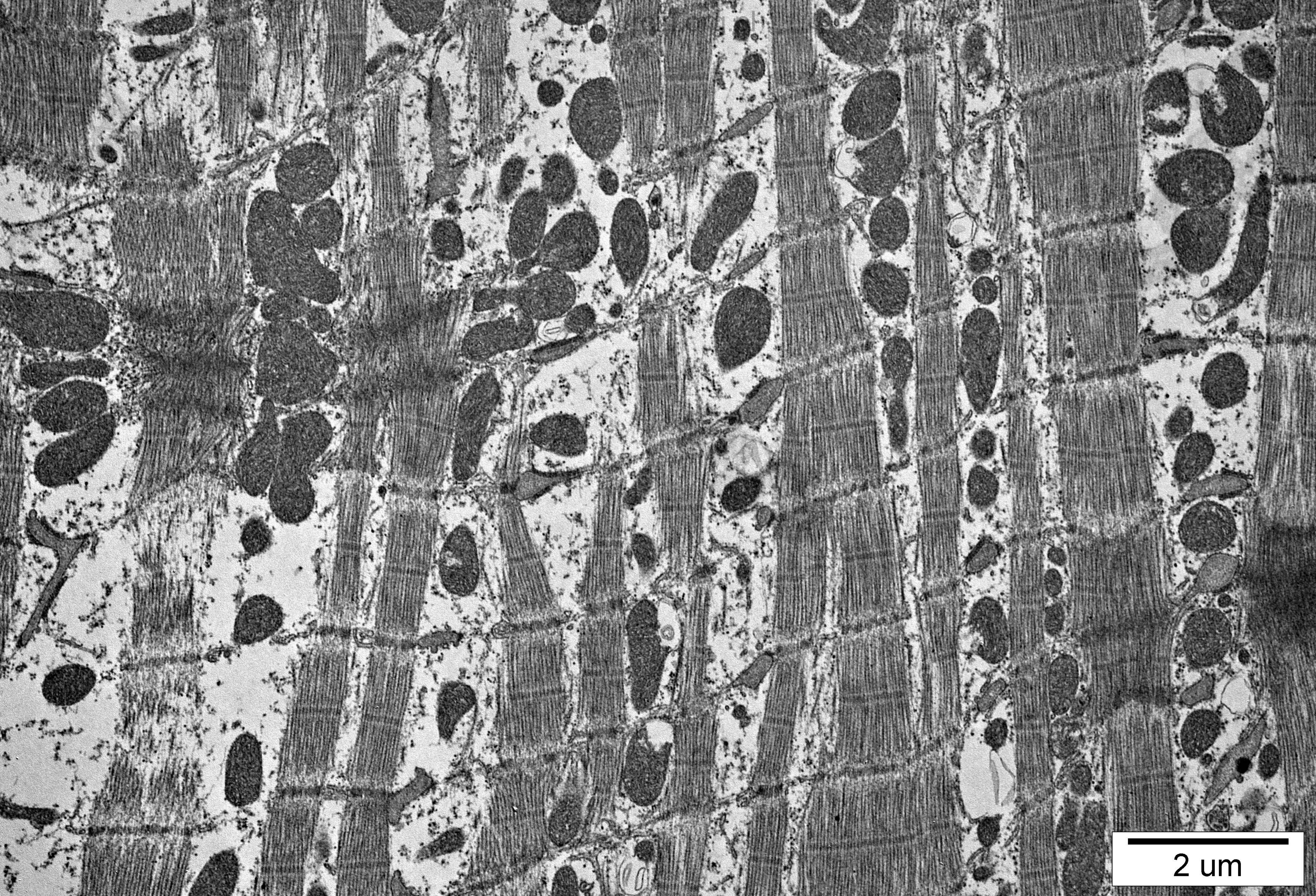
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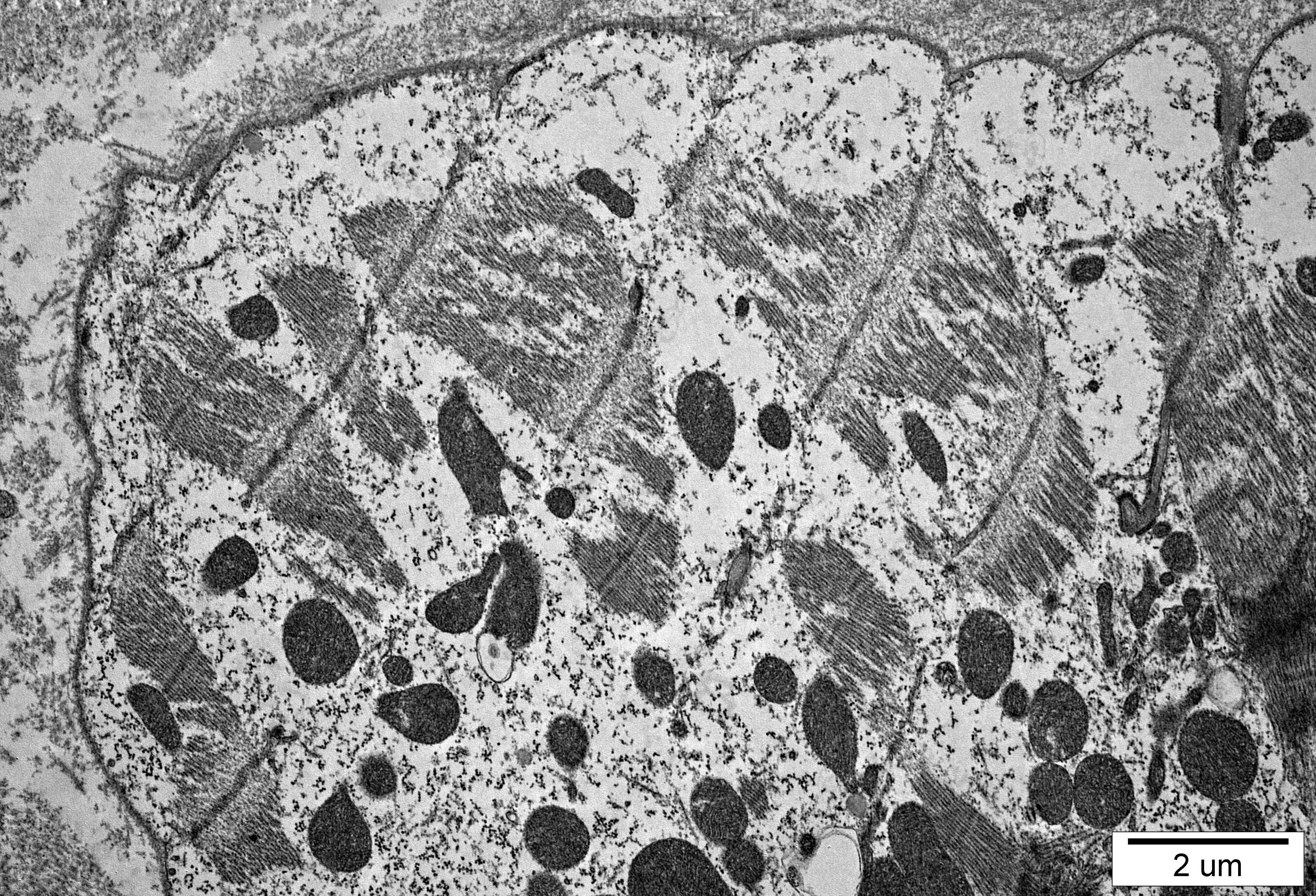
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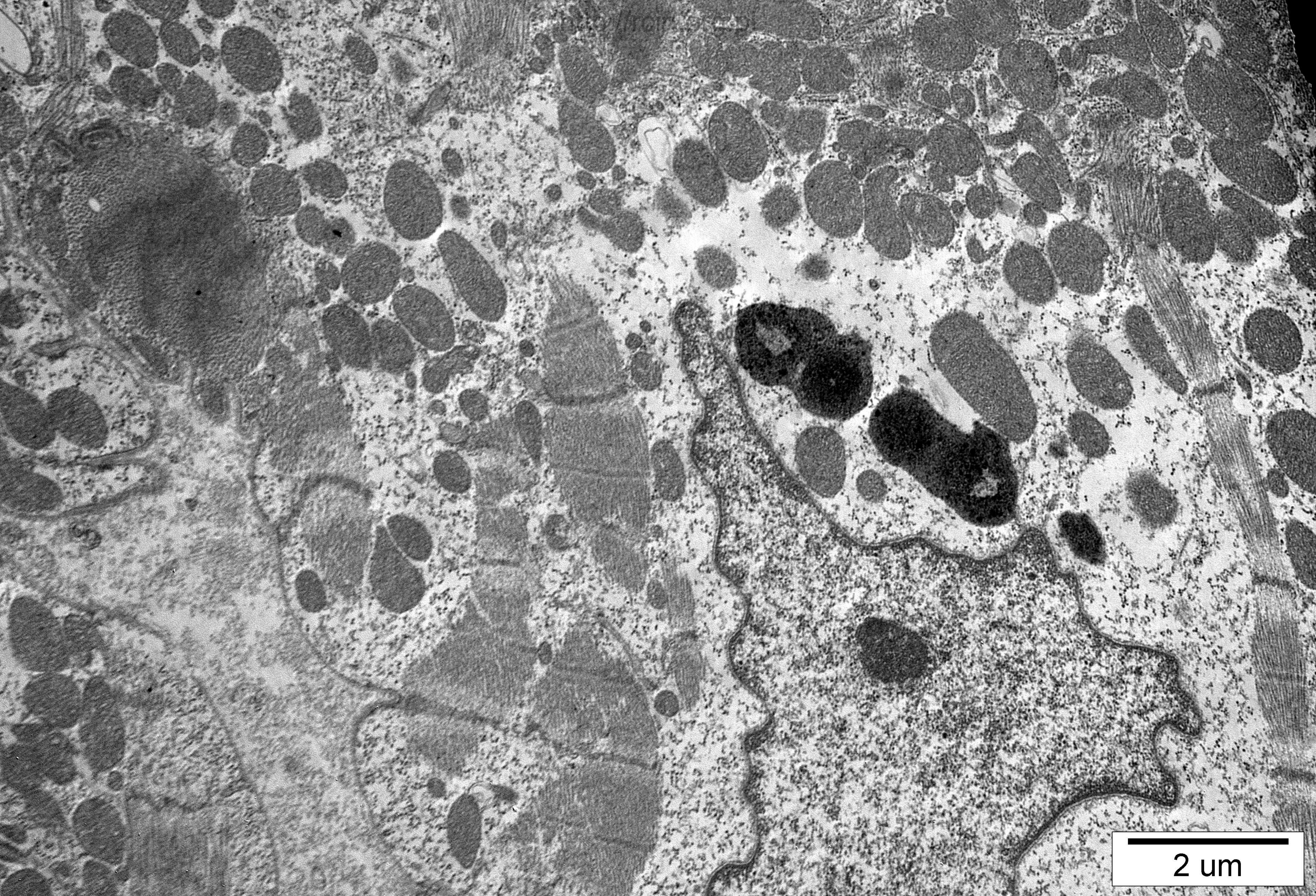
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2 um

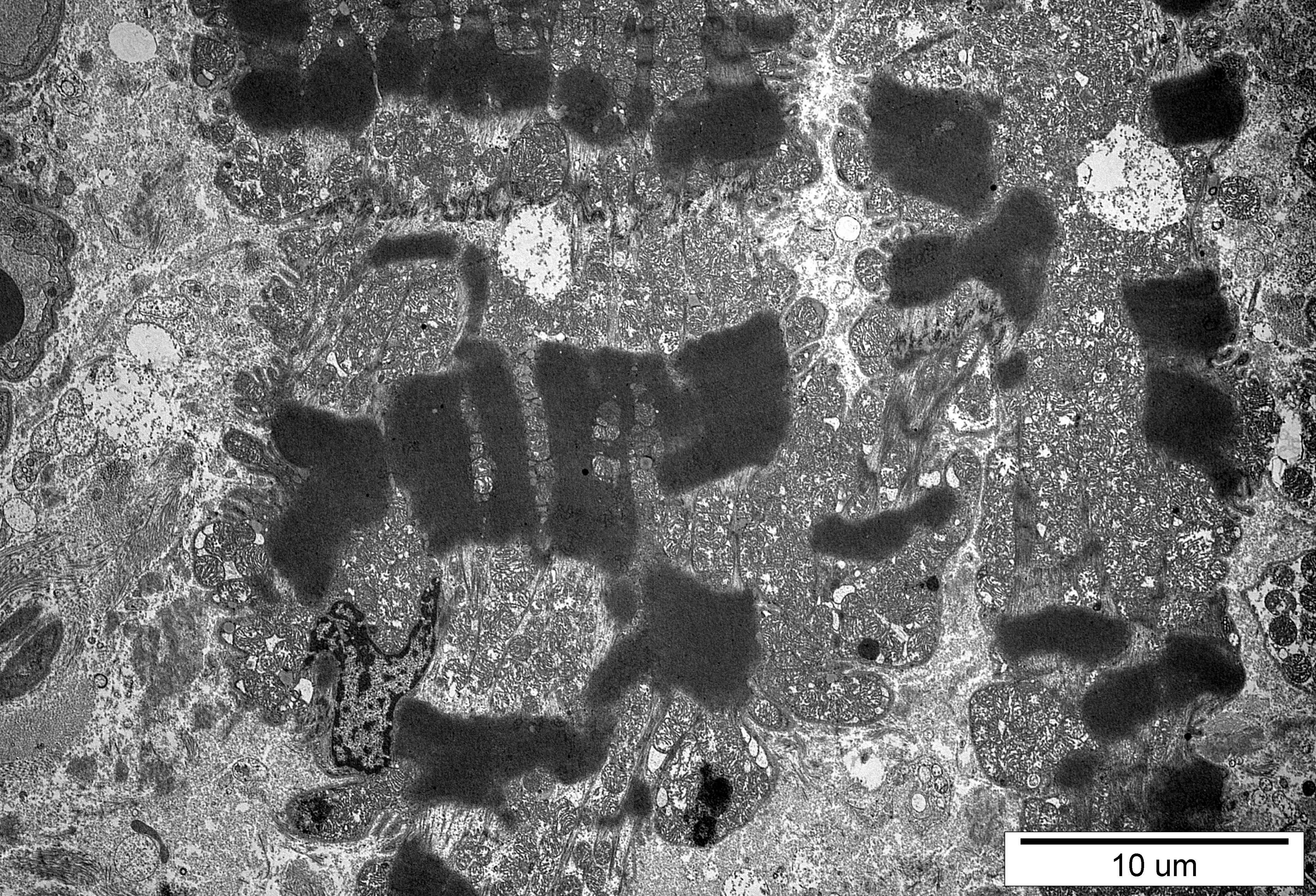


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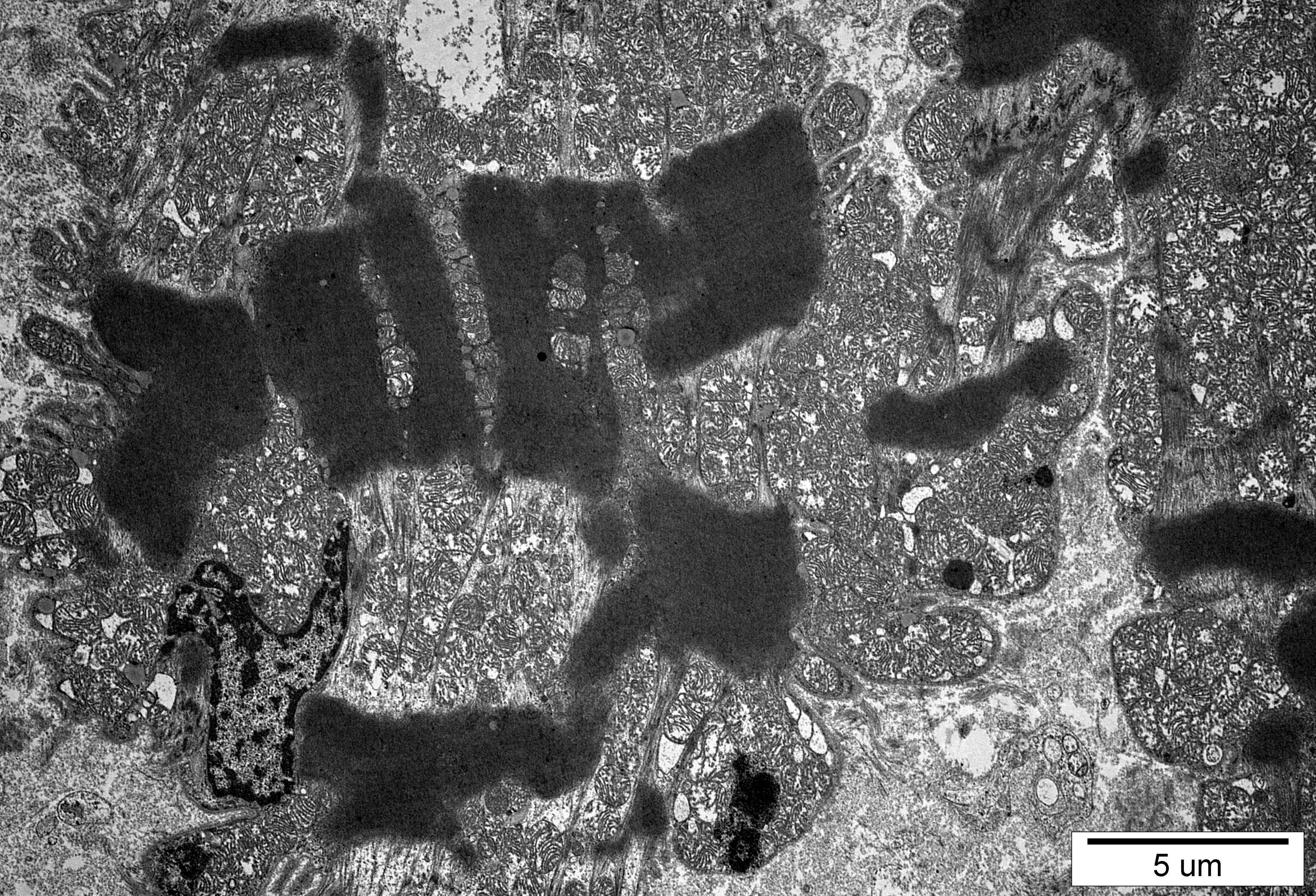


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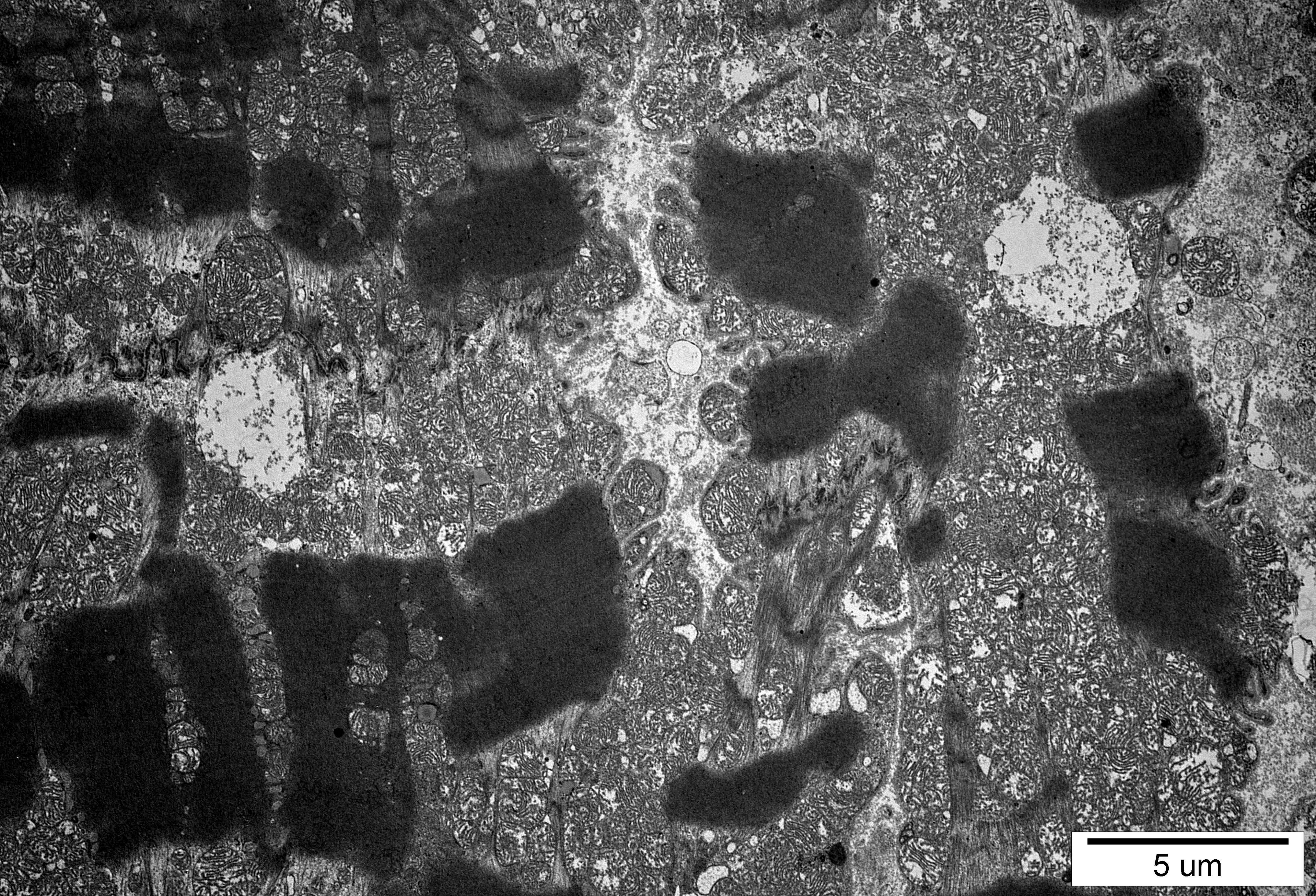




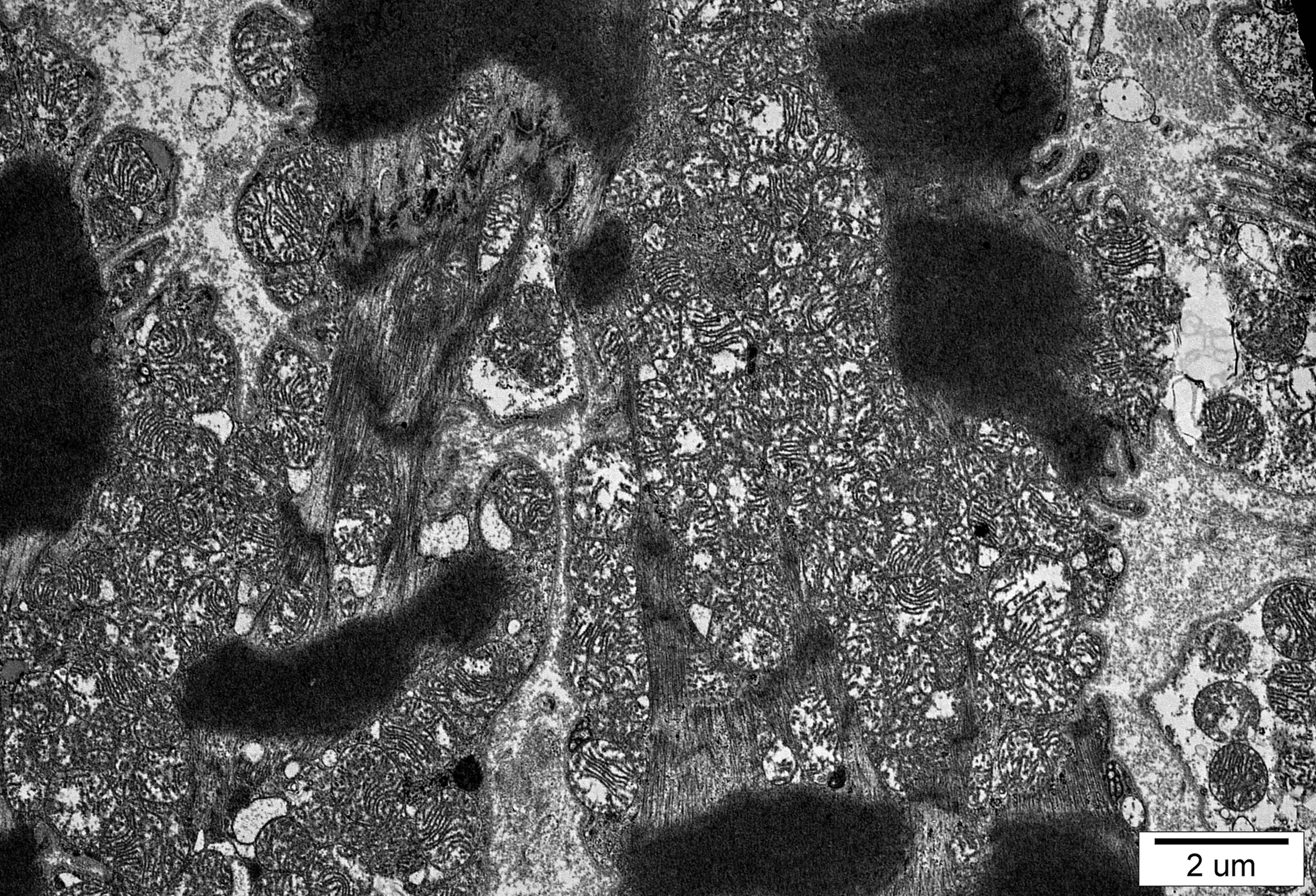
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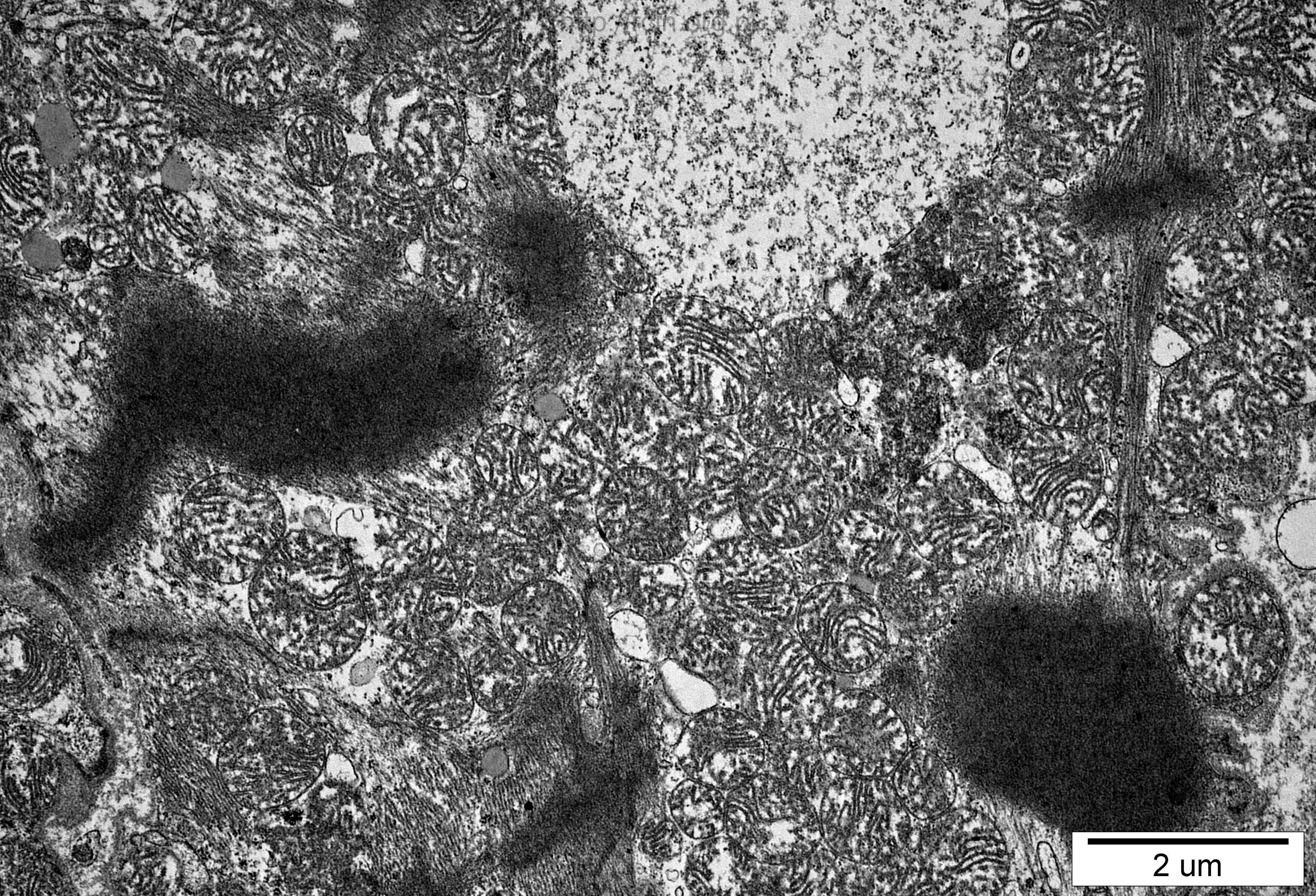
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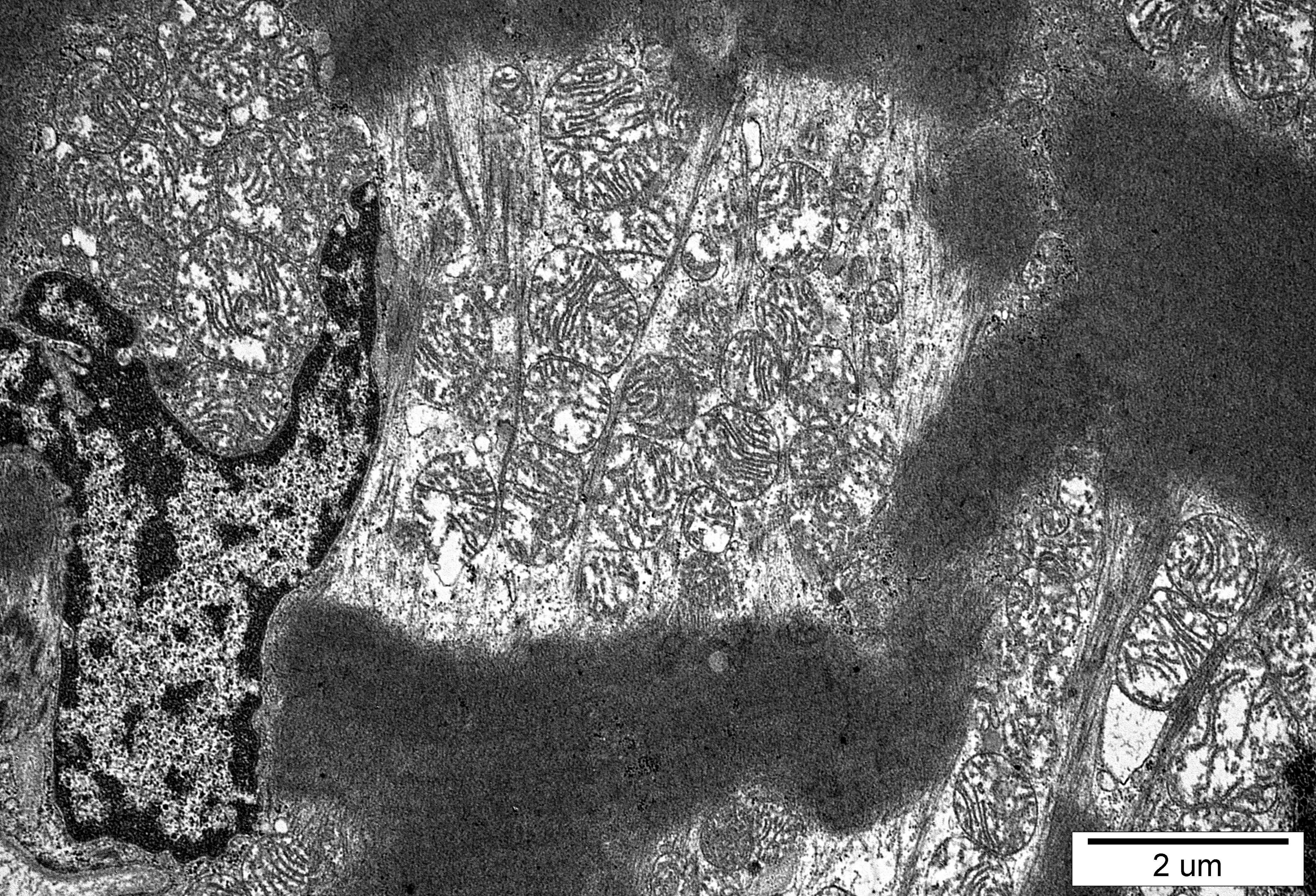
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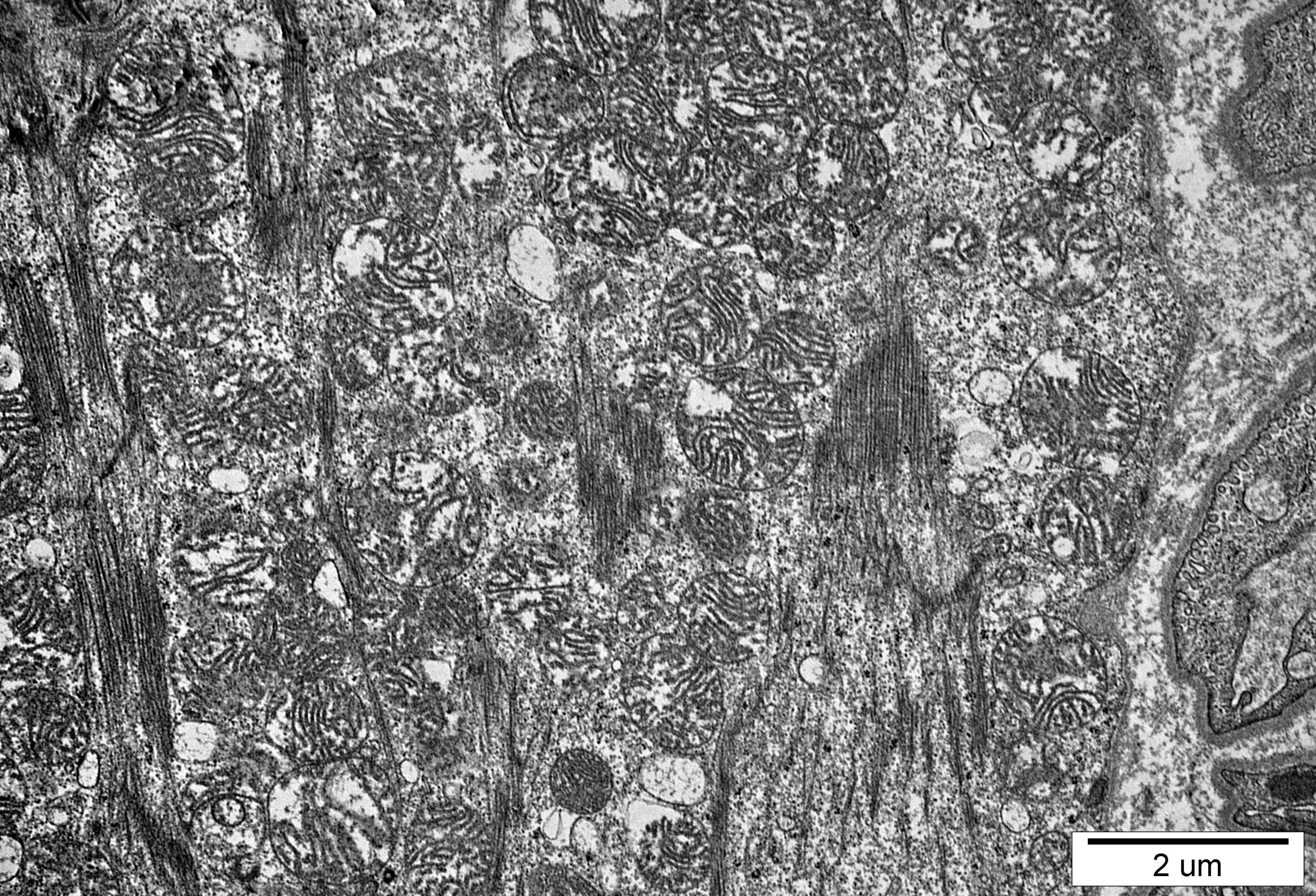
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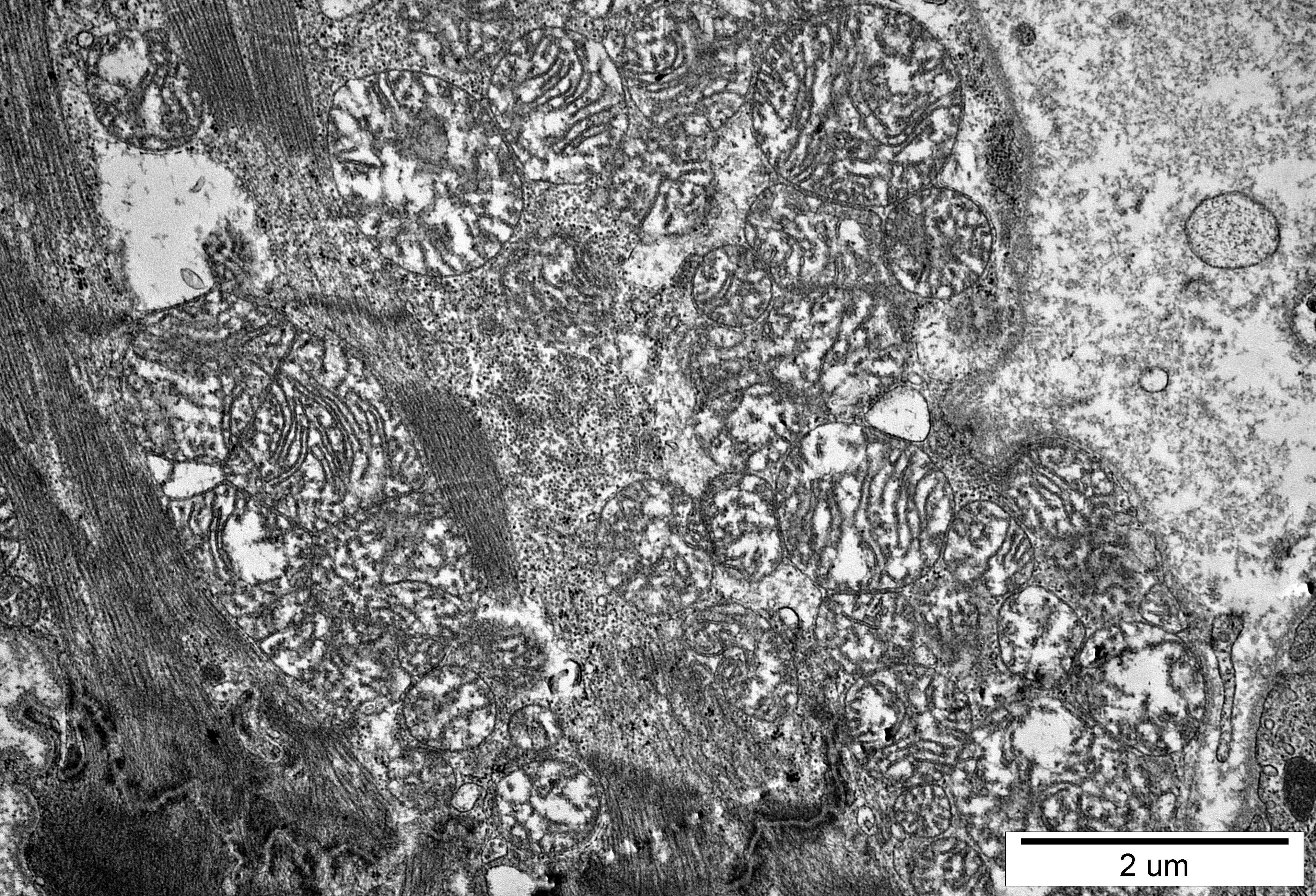
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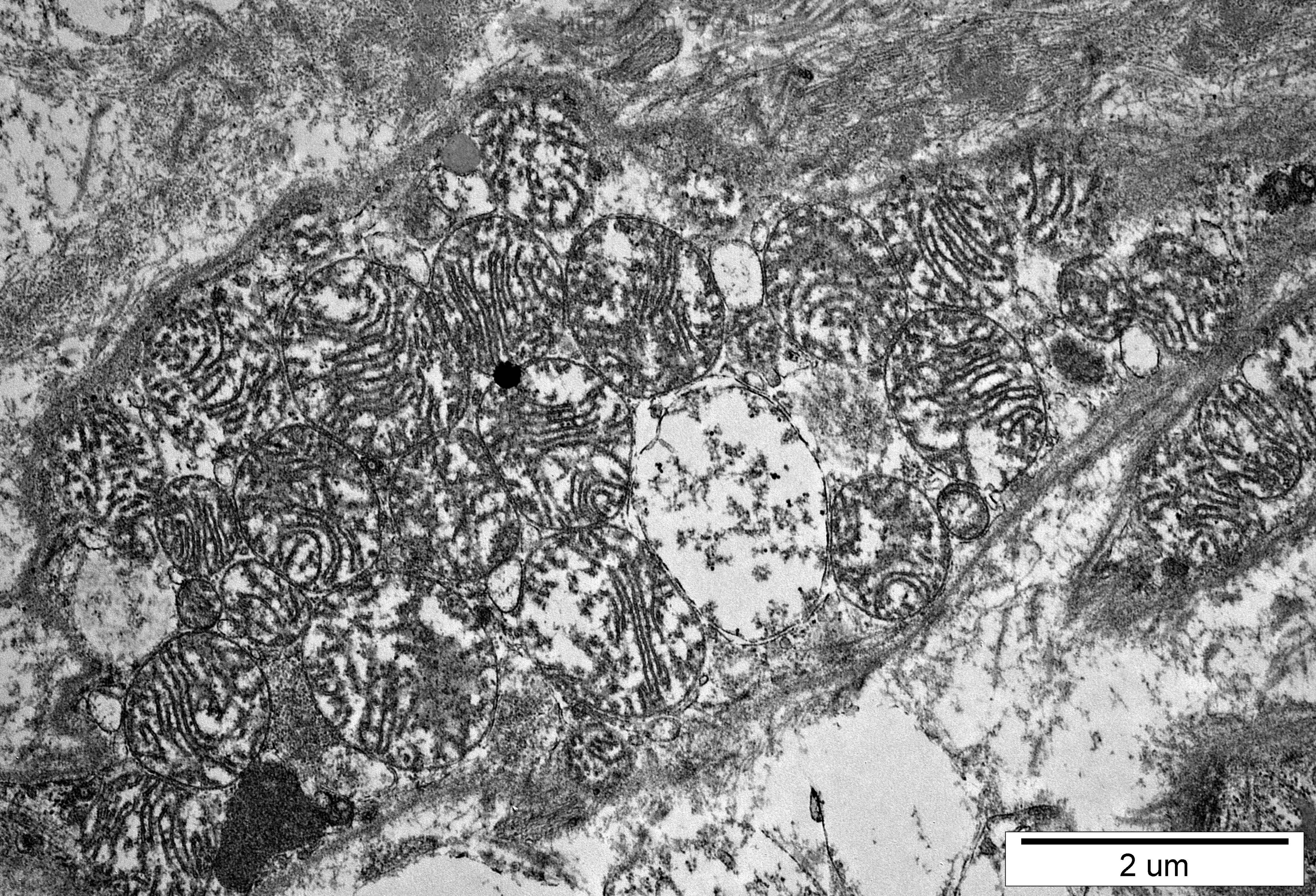


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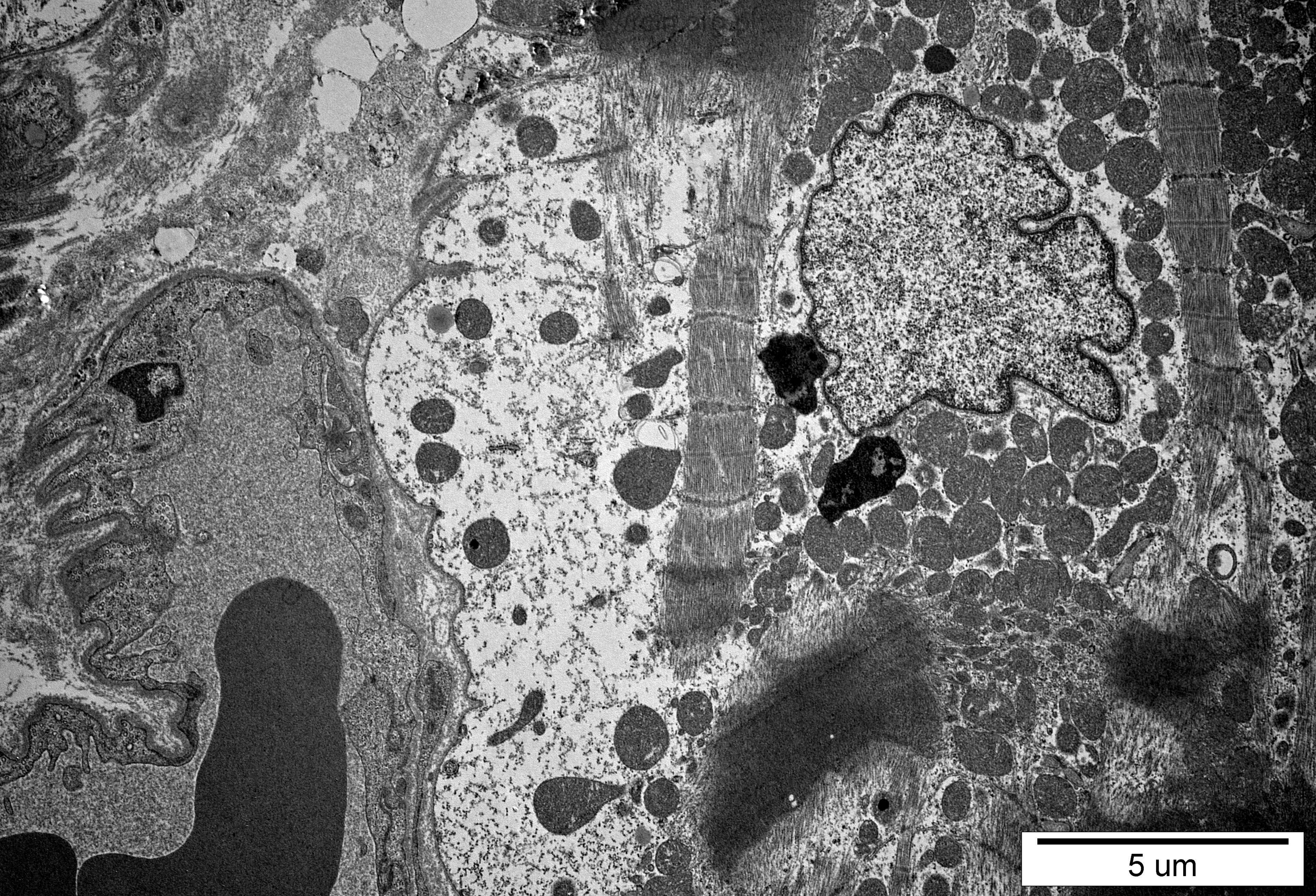


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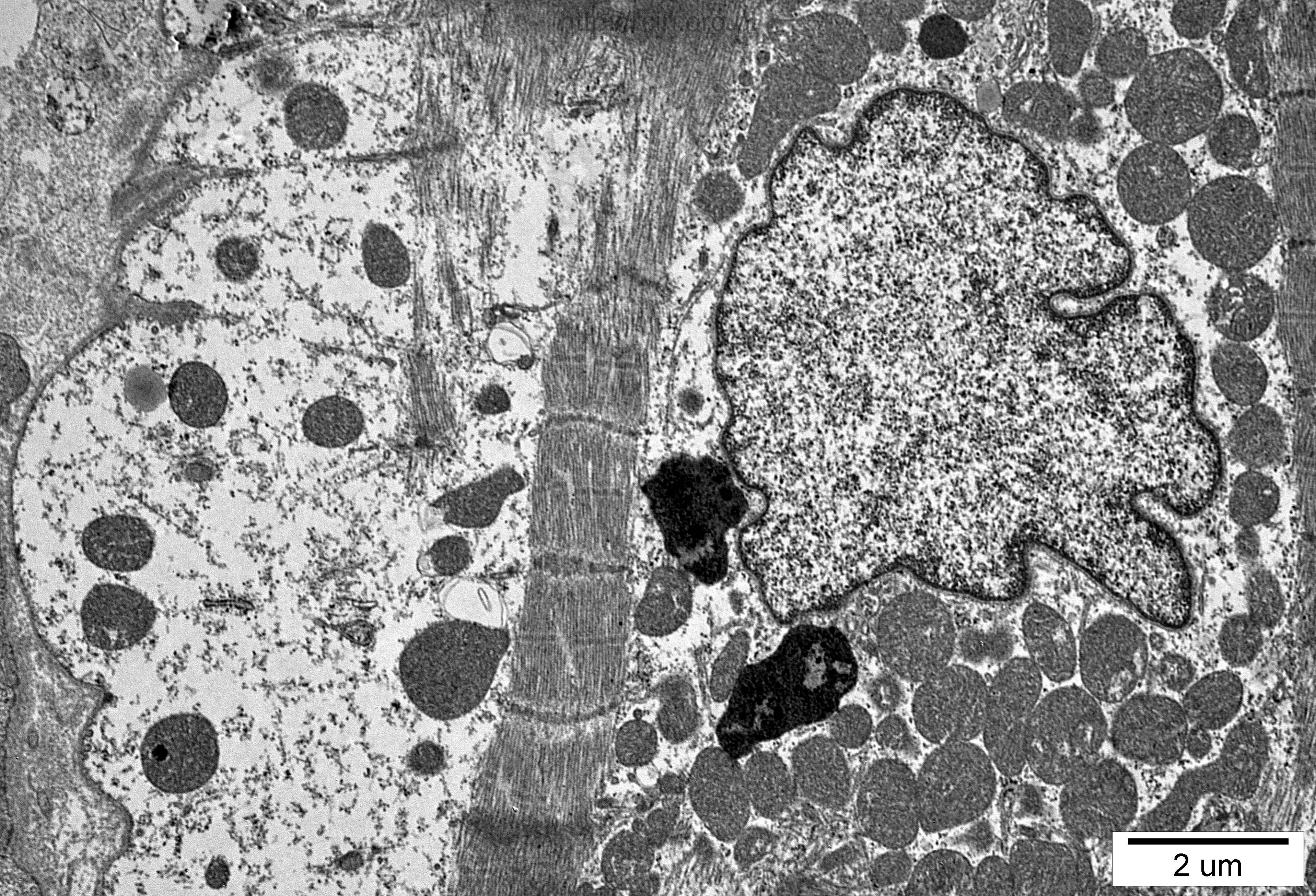




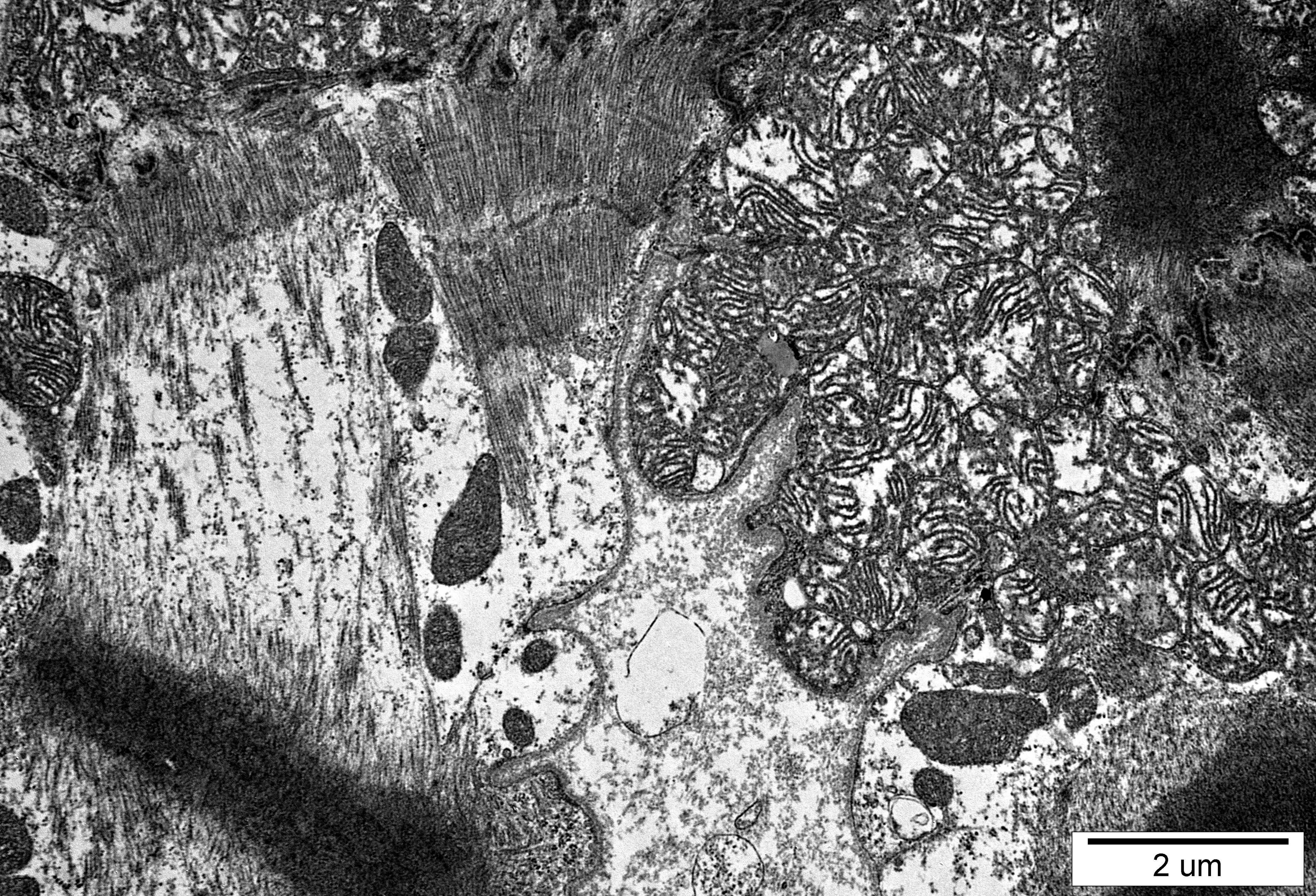
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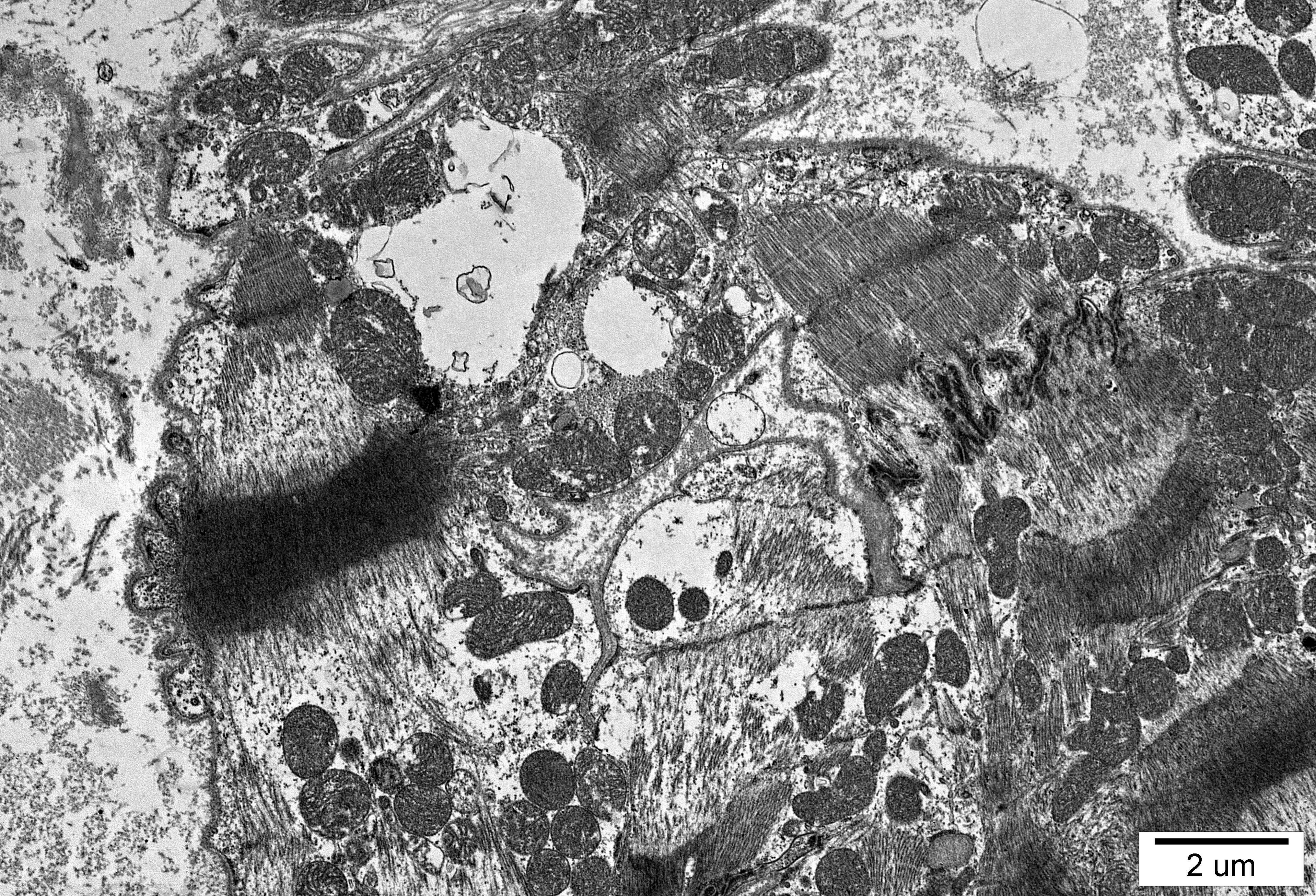
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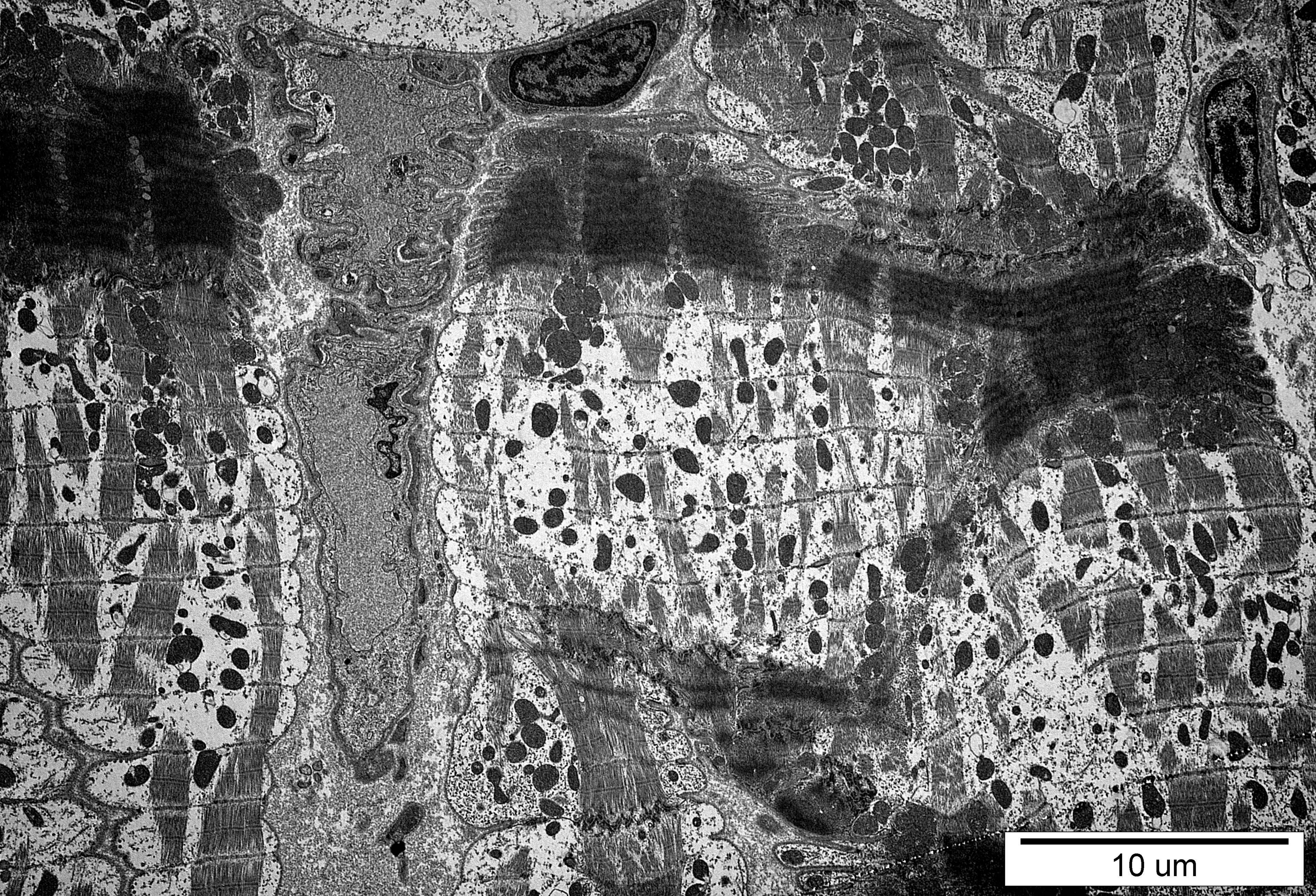
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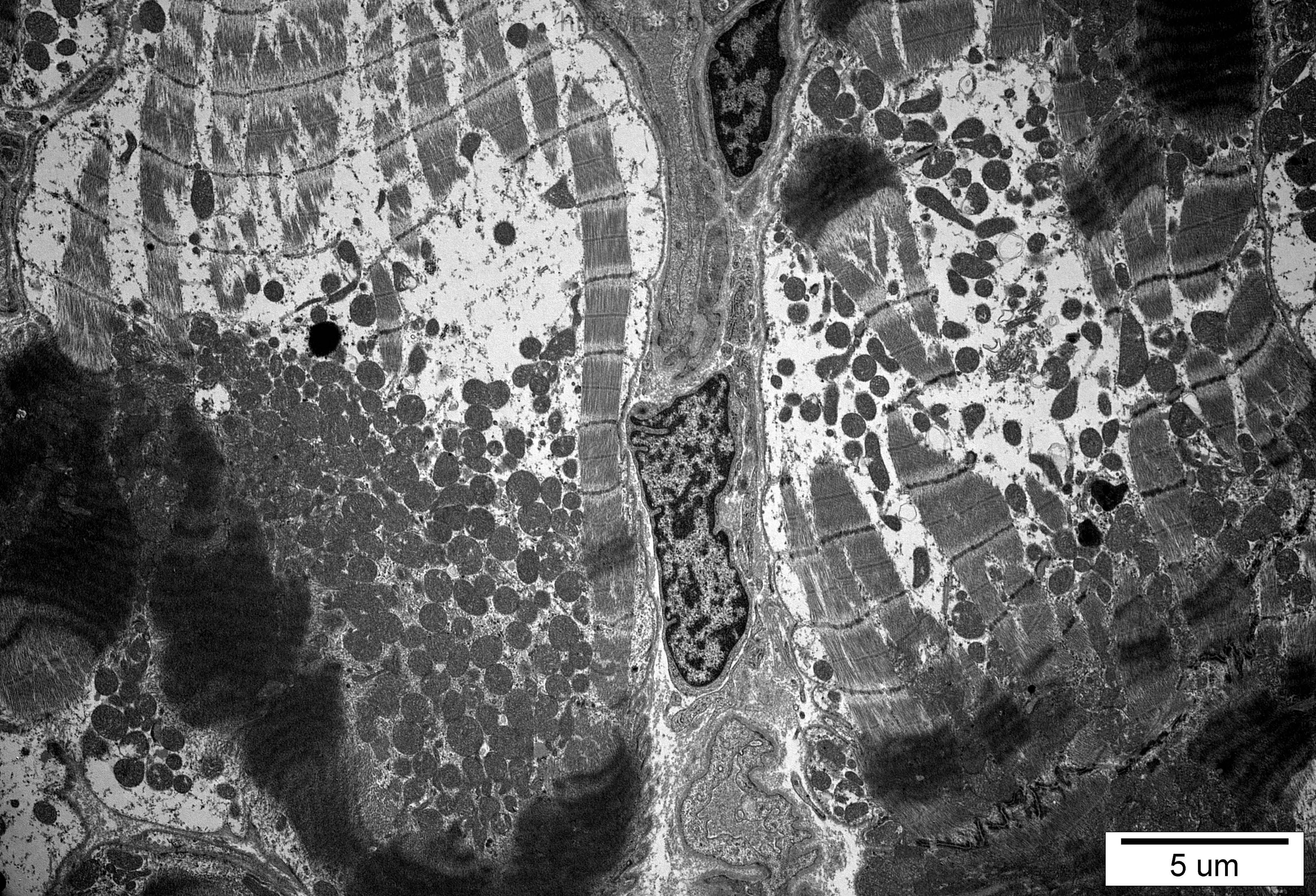
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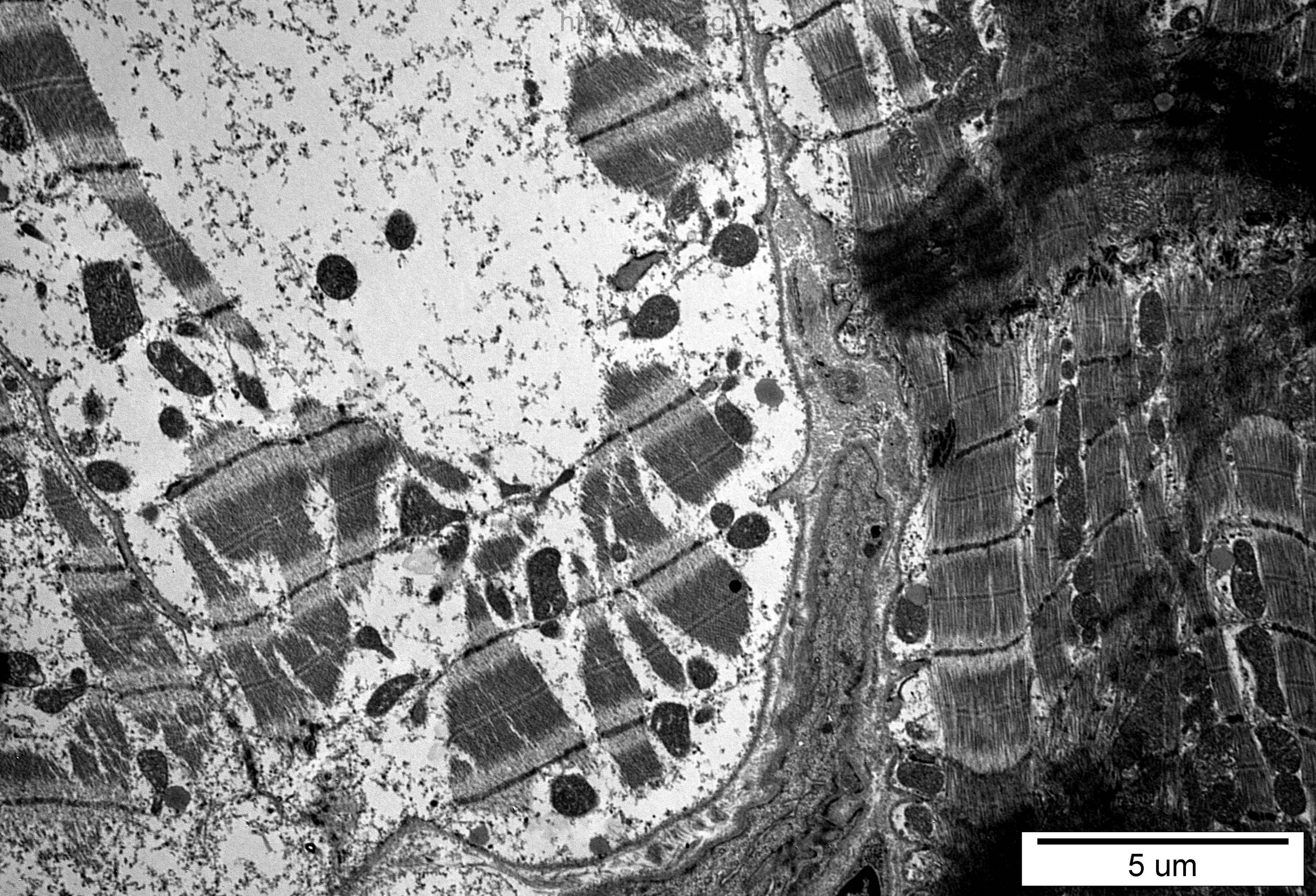


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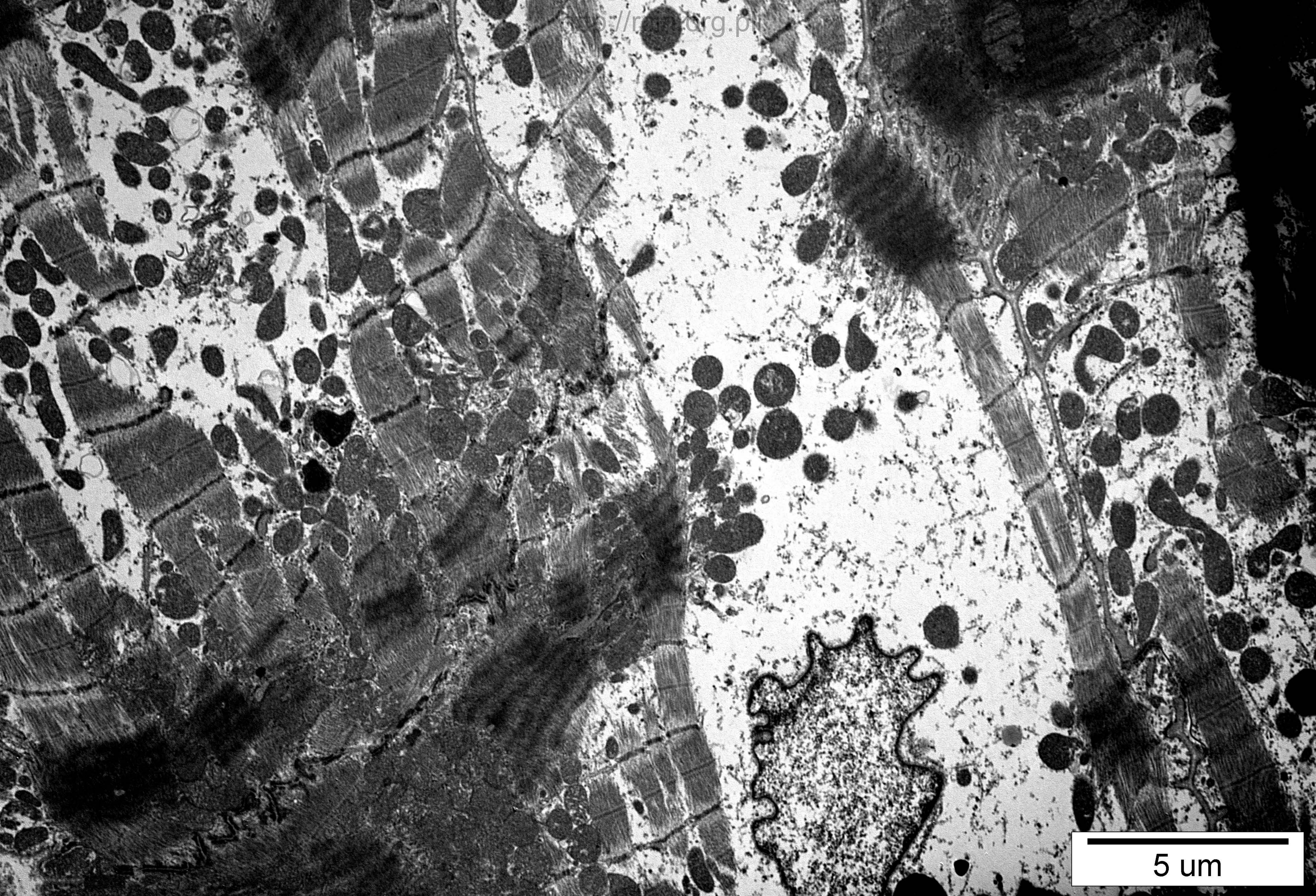


5  $\mu$ m



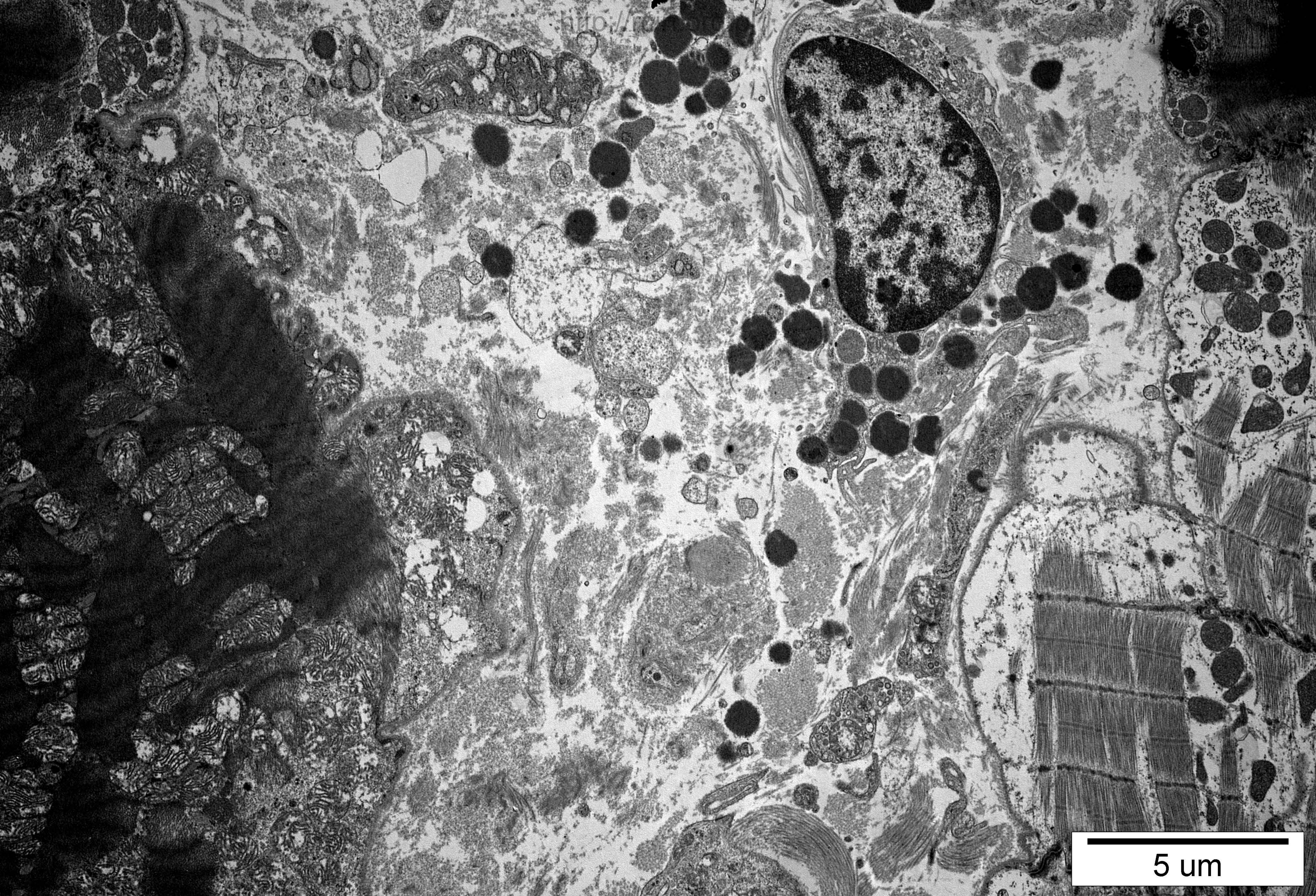


5  $\mu\text{m}$

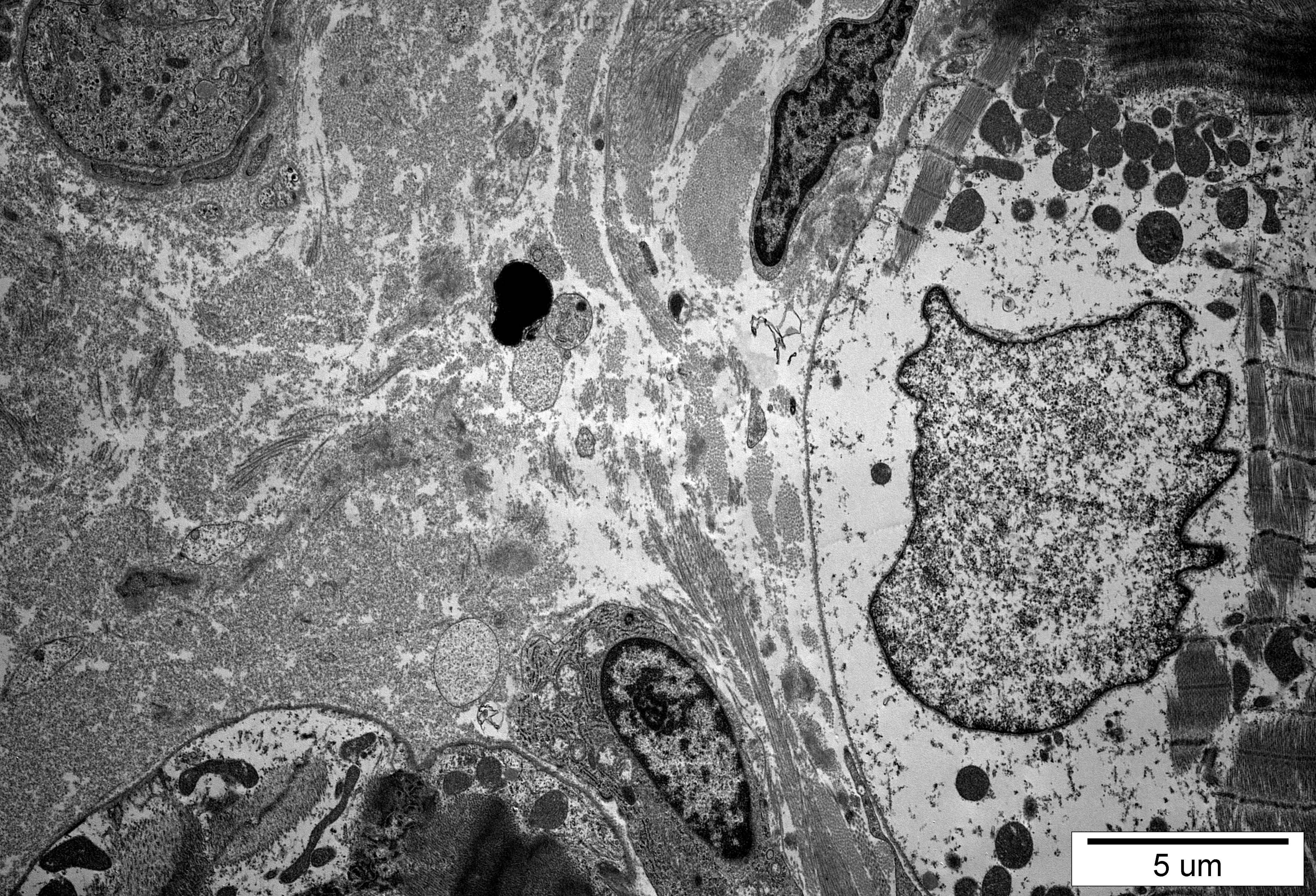


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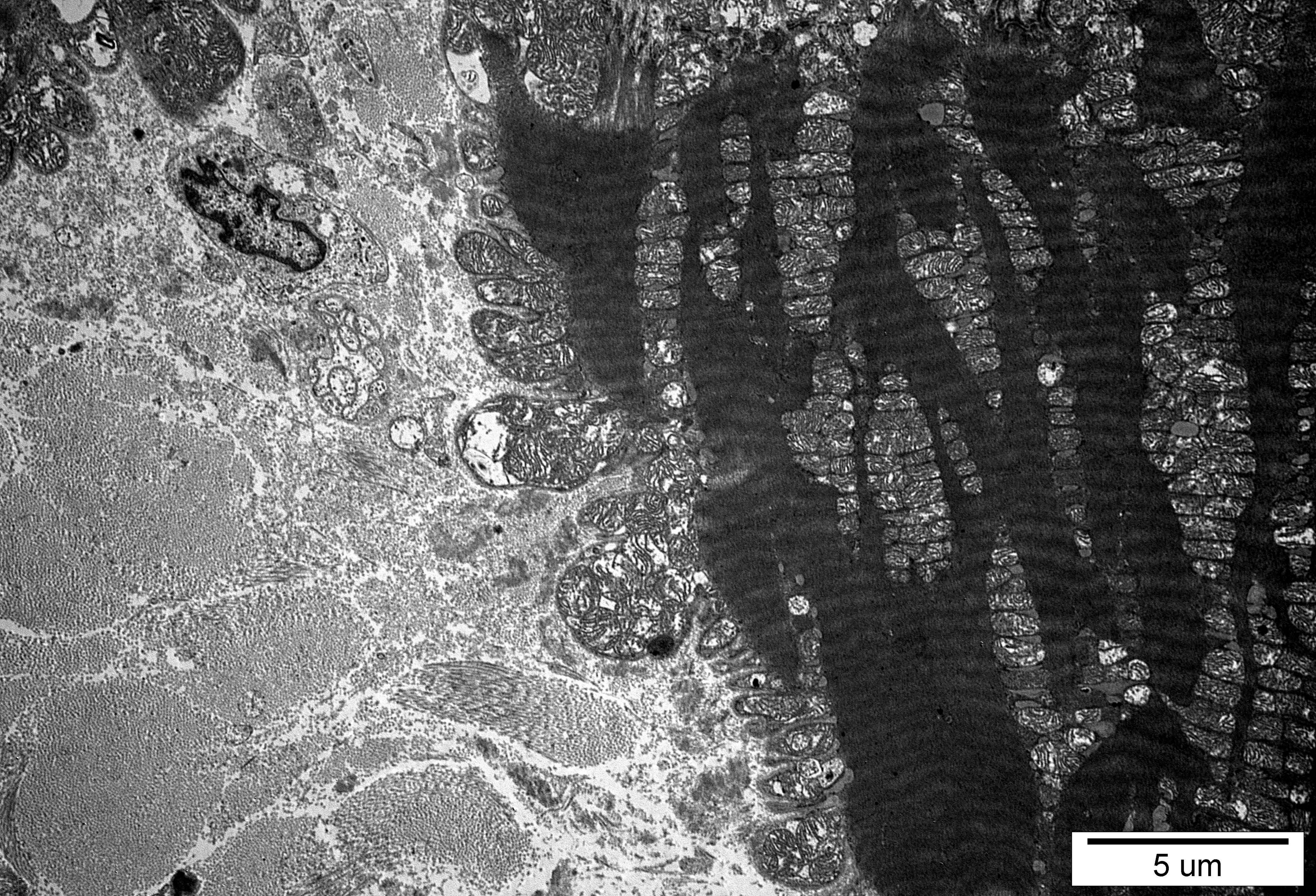
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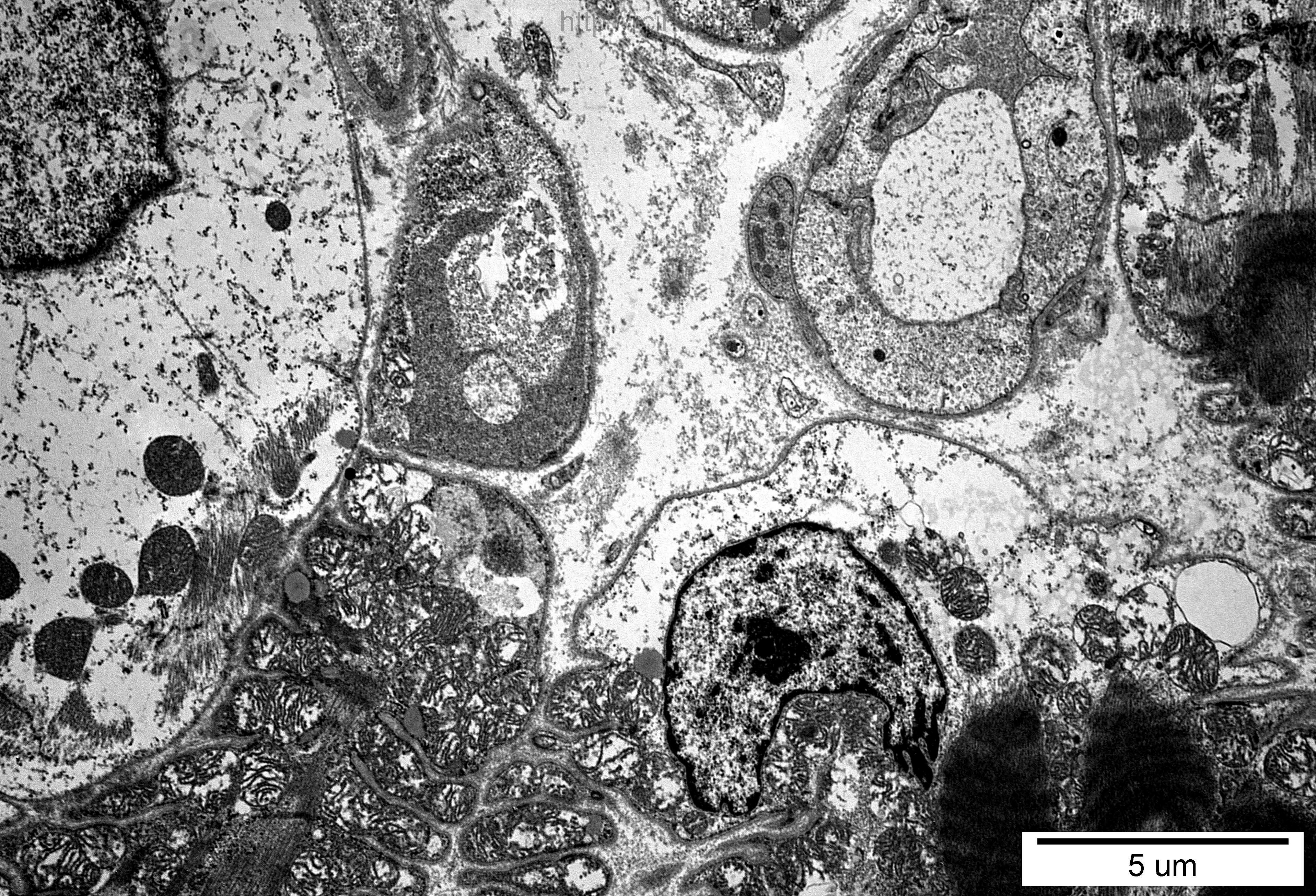
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#### 48-1 serce

Ocena ultrastrukturalna wykazała niezmienny wzór sarkomerowy, jednak miofibryle były znacznie rozproszone, przzerwane (Fig. 48-1-2, 3, 4, 22, 25), a miejscami, szczególnie w okolicy jąder kardiomiocytów obserwowano ich zupełny zanik (Fig. 48-1-1, 26, 27, 31). Obecne nieprawidłowe mitochondria o ciemnej elektronowo macierzy (Fig. 48-1-6, 7) lub pozbawione grzebieni mitochondrialnych (Fig. 48-1-15, 16, 17, 20). W pobliżu jąder kardiomiocytów widoczna była lipofuscyna (Fig. 48-1-8, 18). W przestrzeni zewnątrzkomórkowej występowała obficie tkanka włóknista (Fig. 48-1-5, 32).

Ultrastructural analysis revealed unchanged sarcomere pattern but myofibrils were scattered, their disorganization (Figs. 48-1-2,3,4,22,25) and focally, especially near the cardiomyocytes' nuclei, their atrophy were observed (Figs. 48-1-1,26,27,31). Altered mitochondria with electron-dark matrix (Figs. 48-1-6,7) or lacking mitochondrial cristae (Figs. 48-1-15,16,17,20) were present. Lipofuscin was visible in the region of the cardiomyocyte nuclei (Figs. 48-1-8,18). Fibrous tissue was abundant in the extracellular space (Figs. 48-1-5,32).