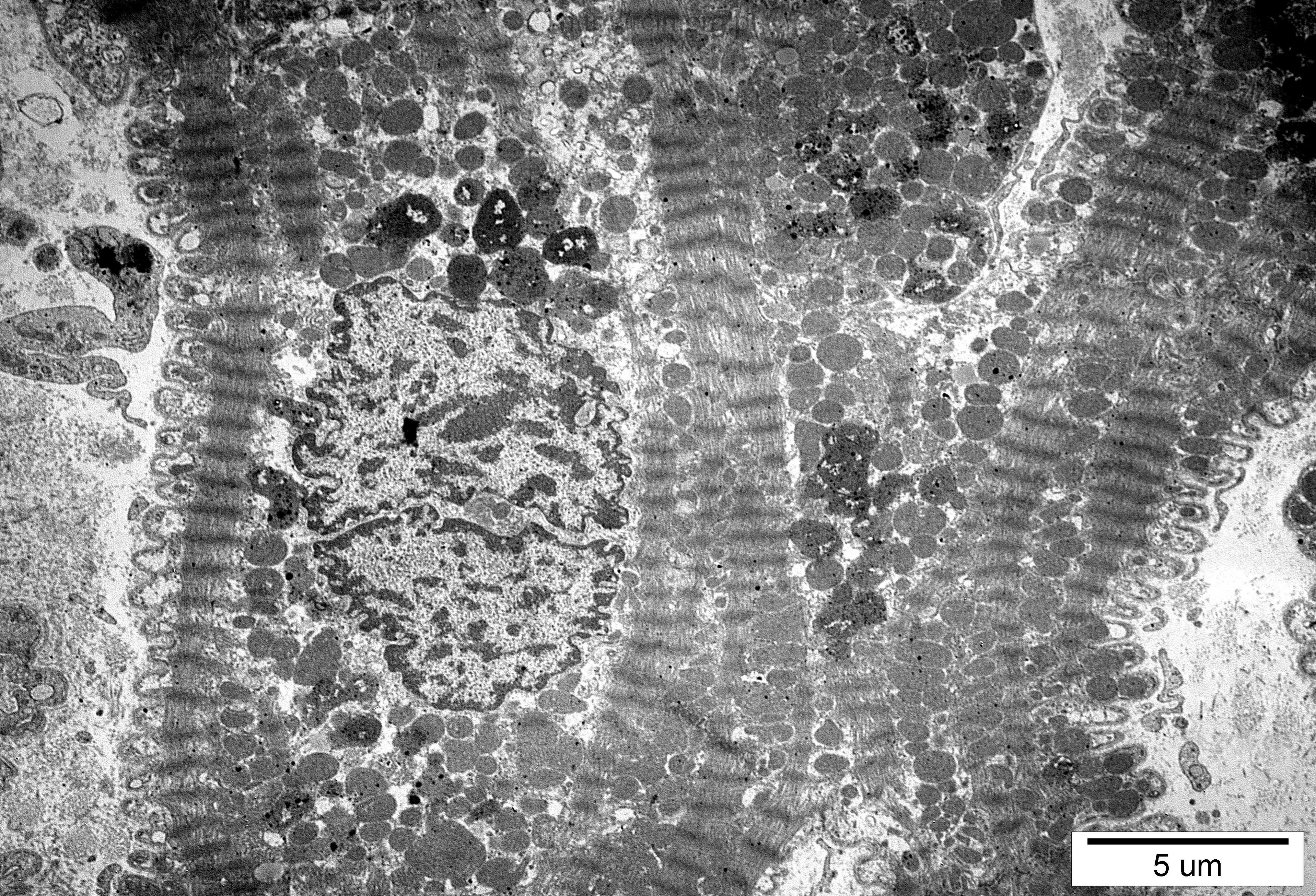
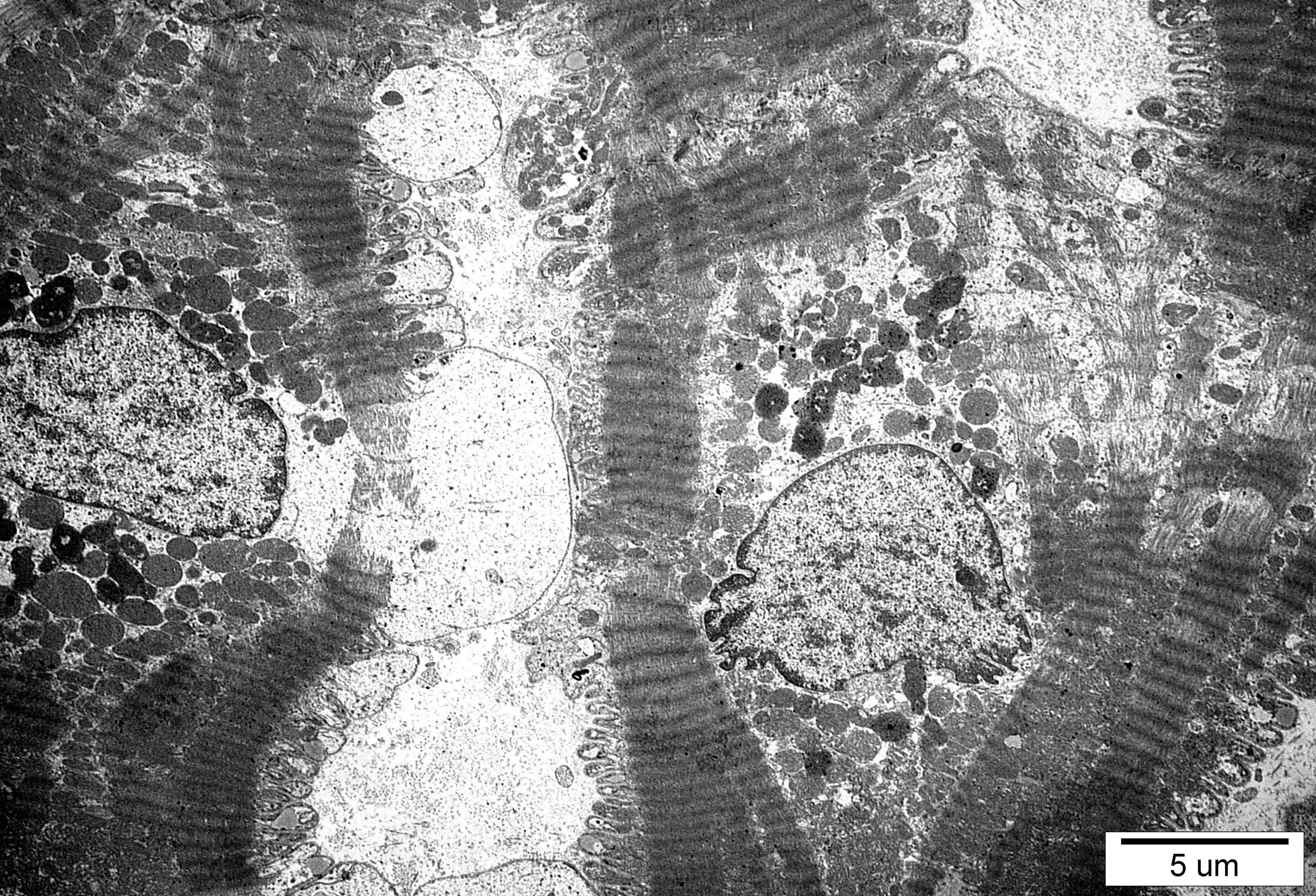


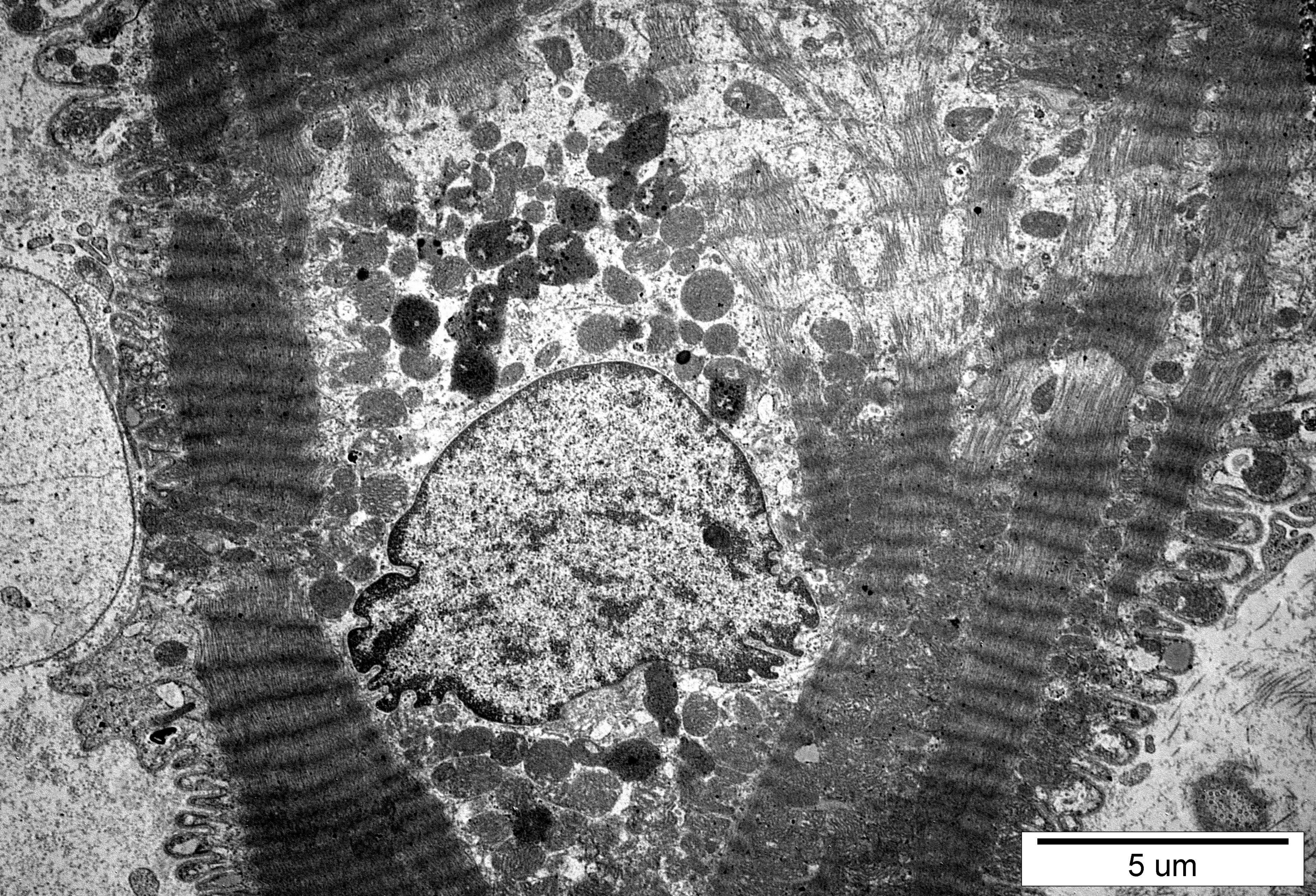
10 um



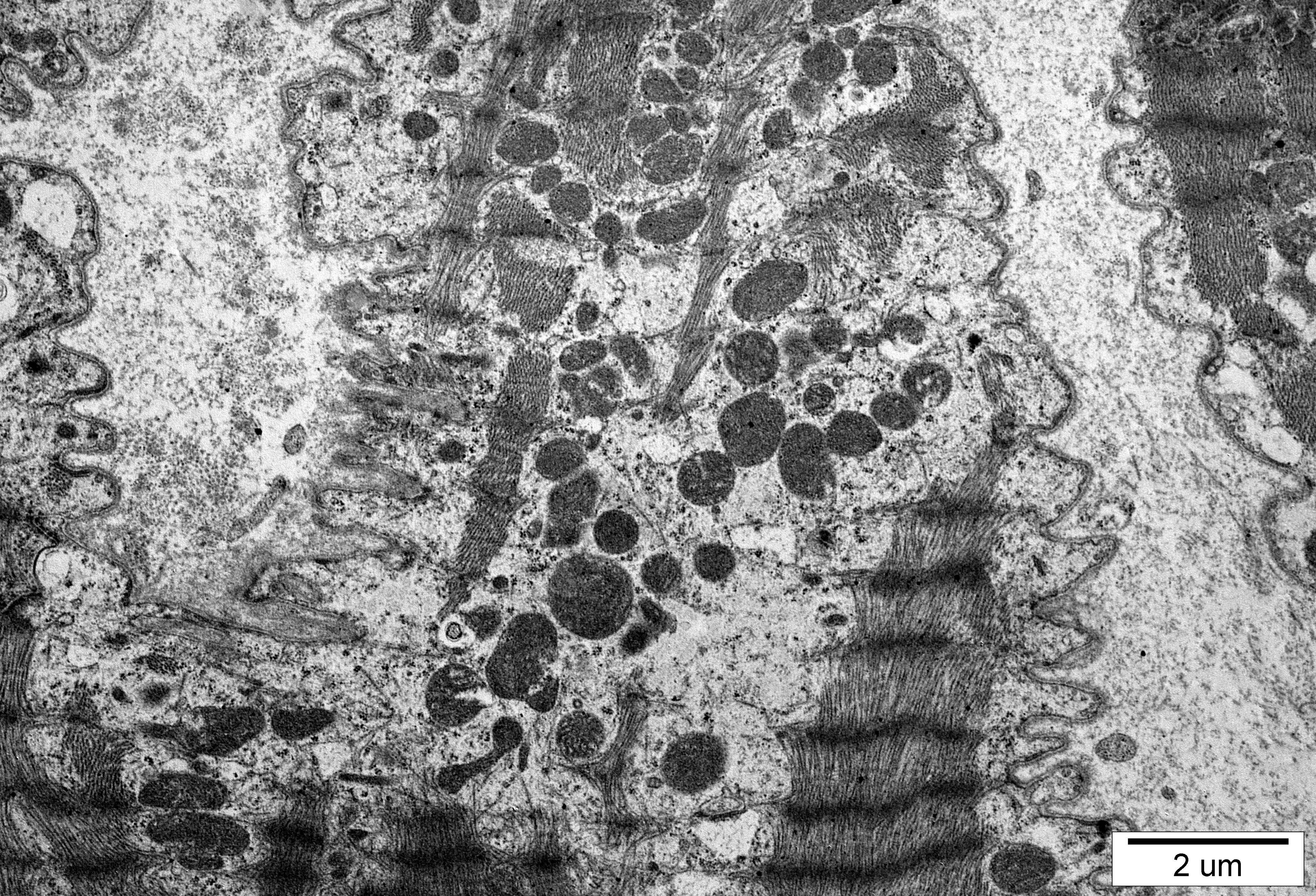
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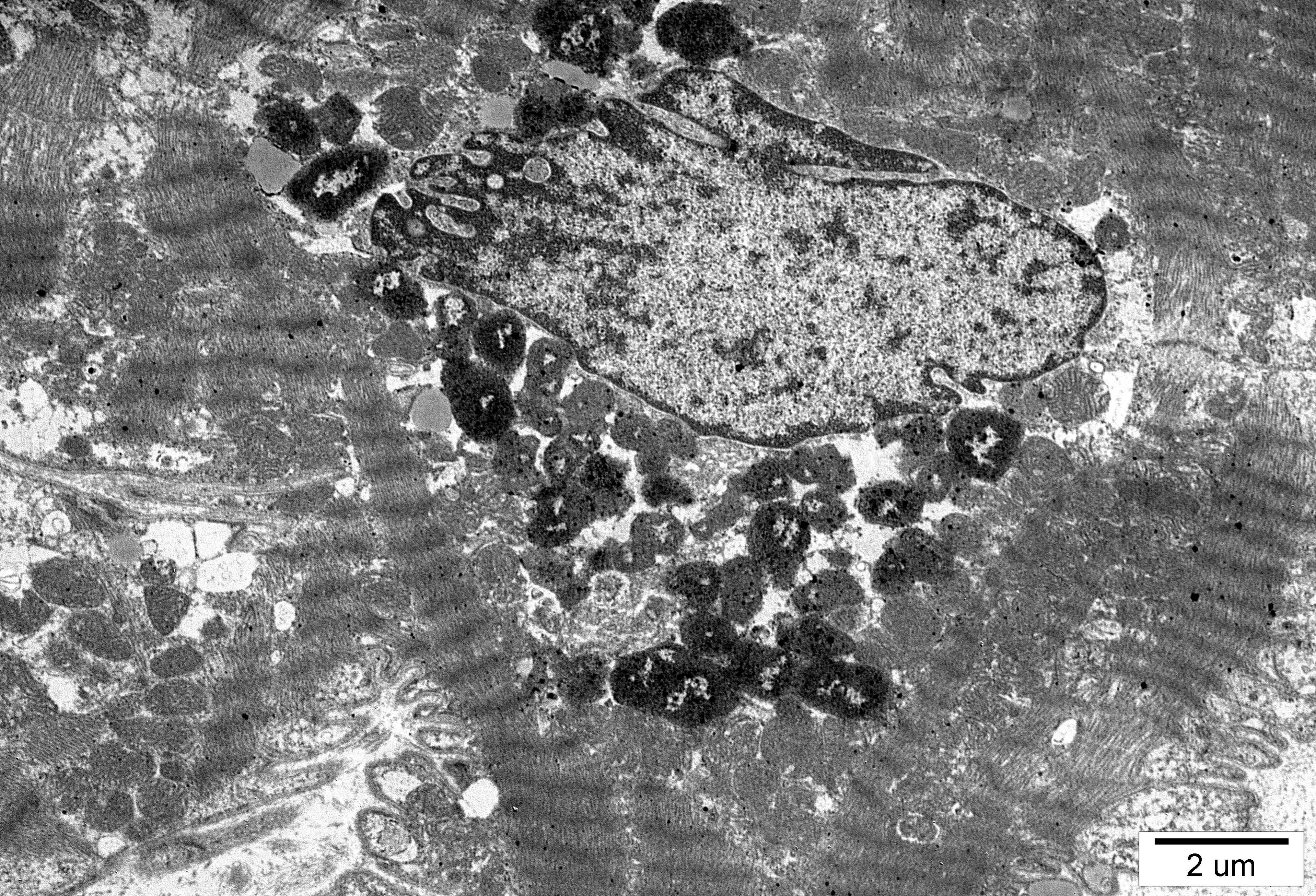
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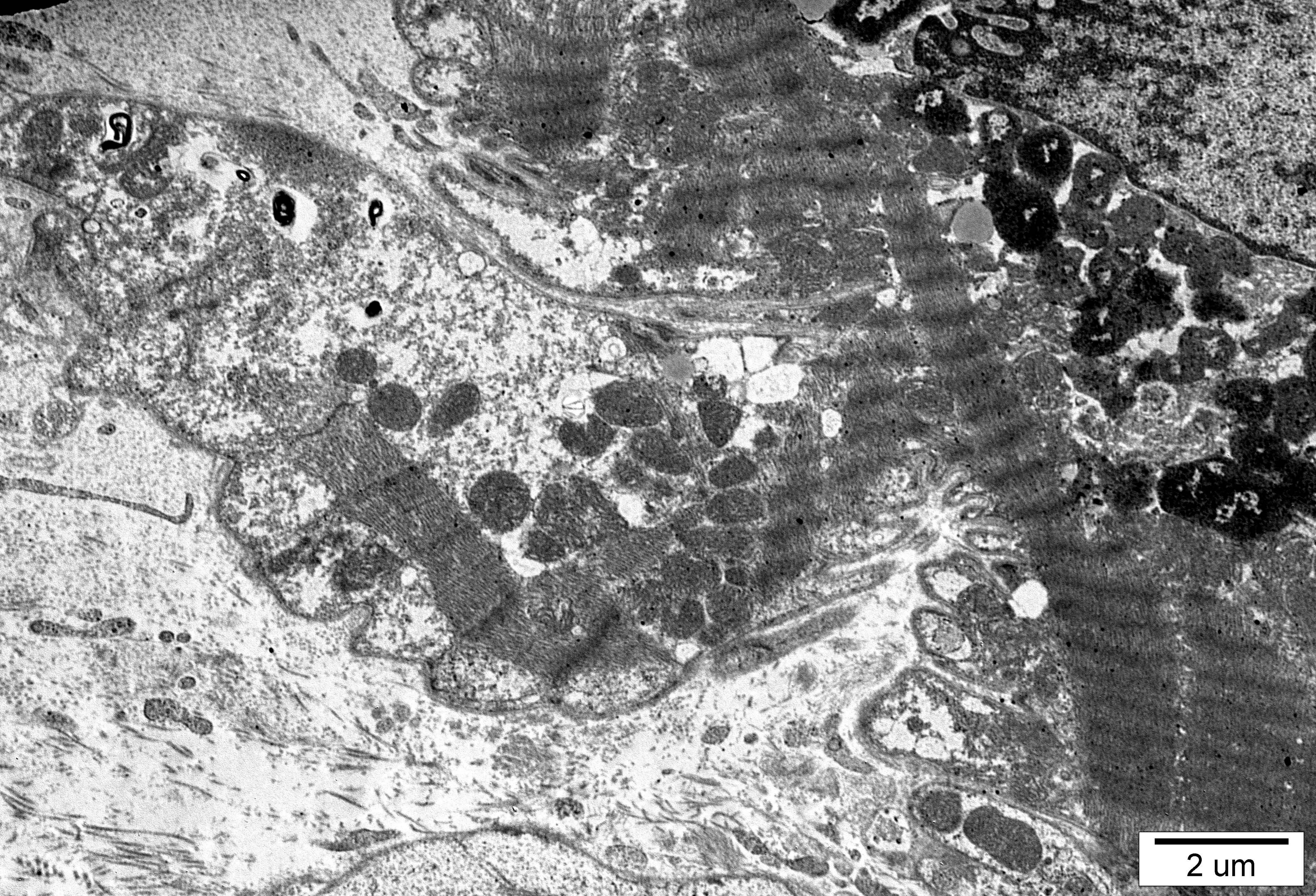
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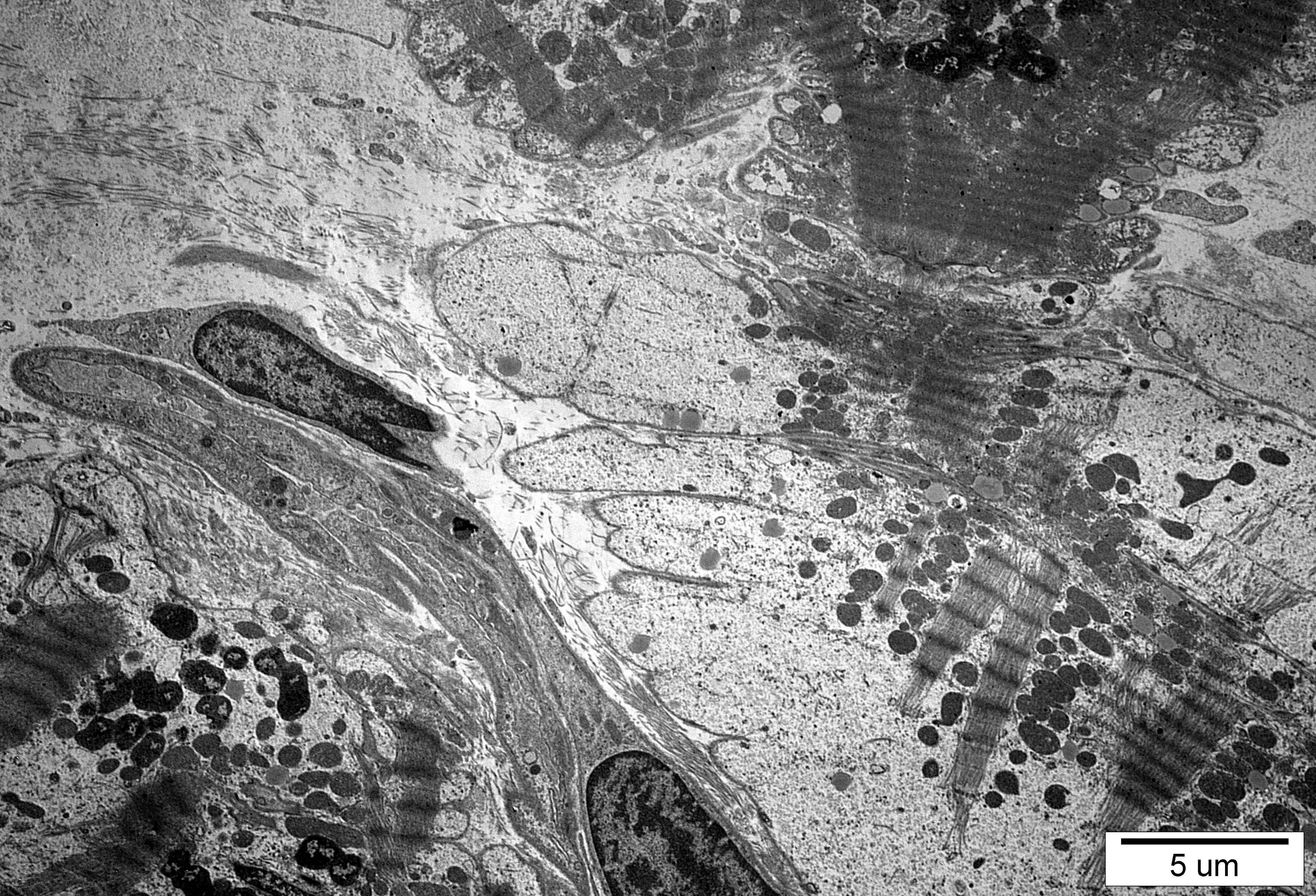
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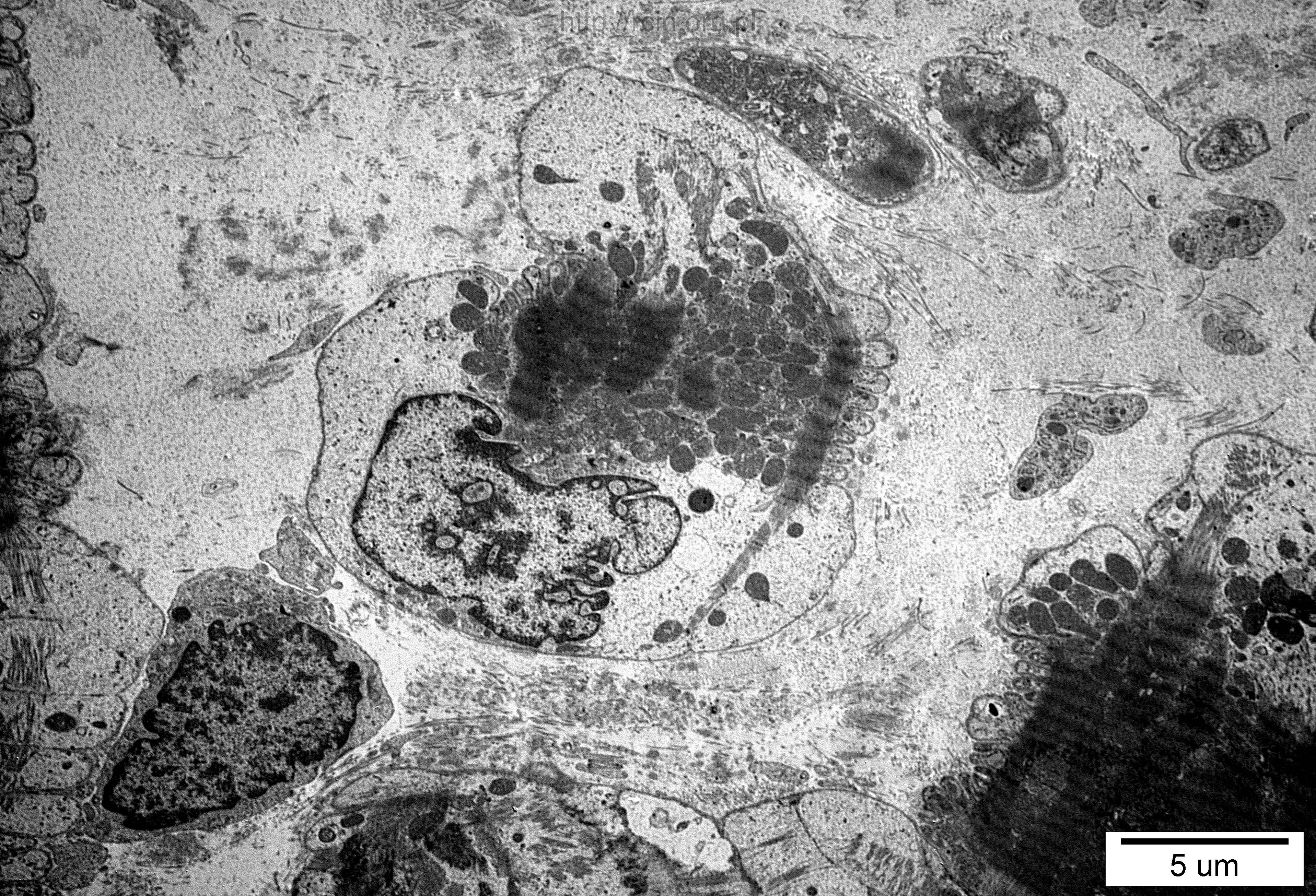
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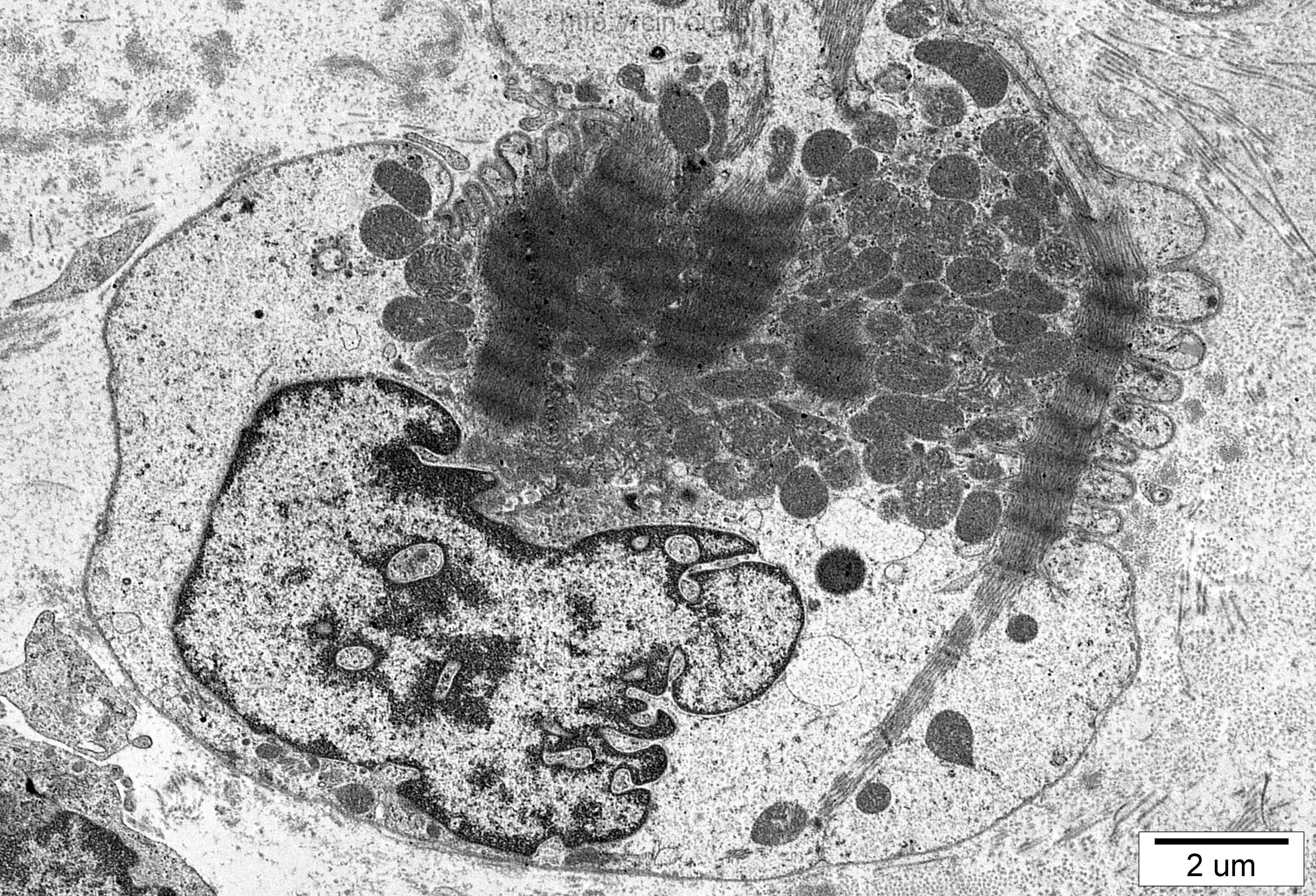
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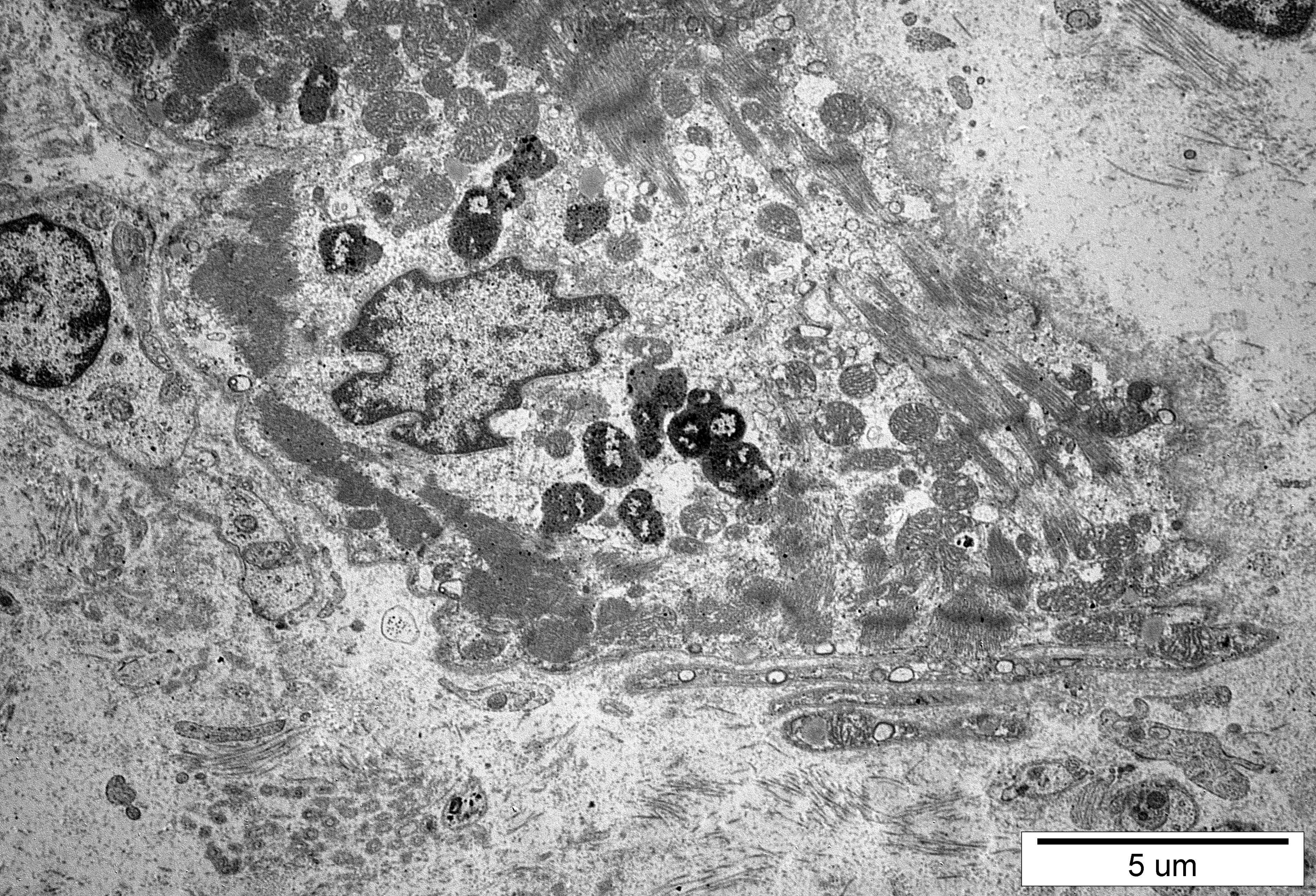
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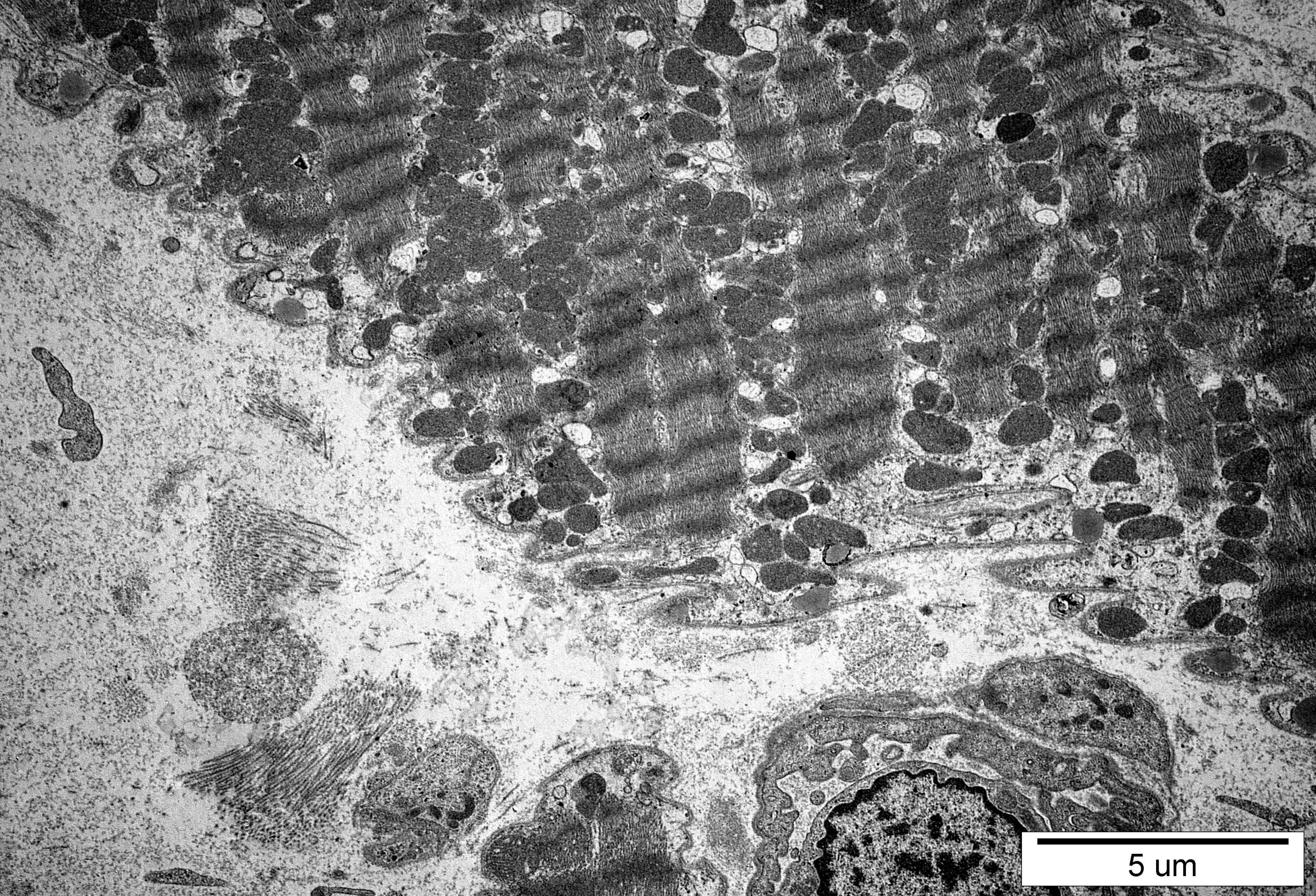
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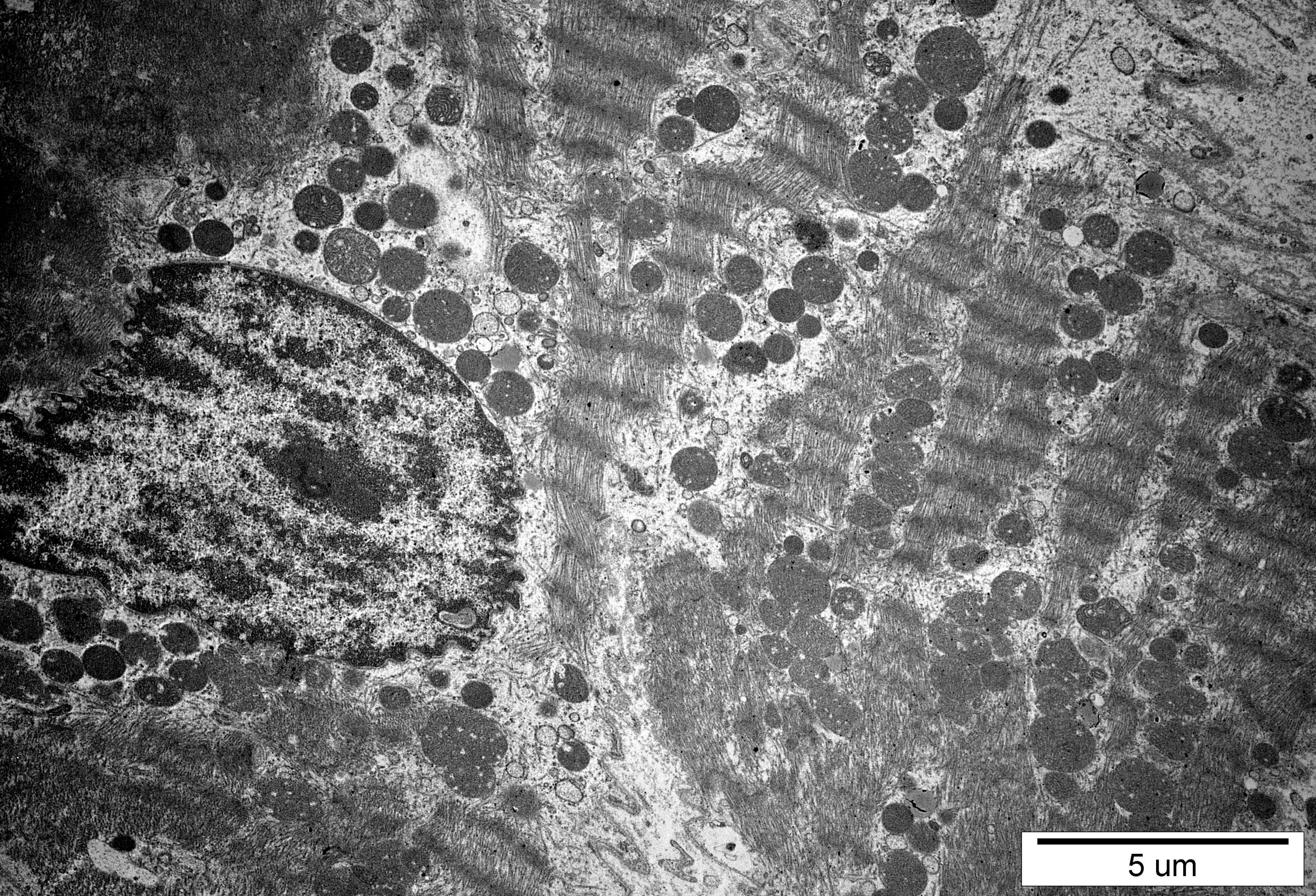
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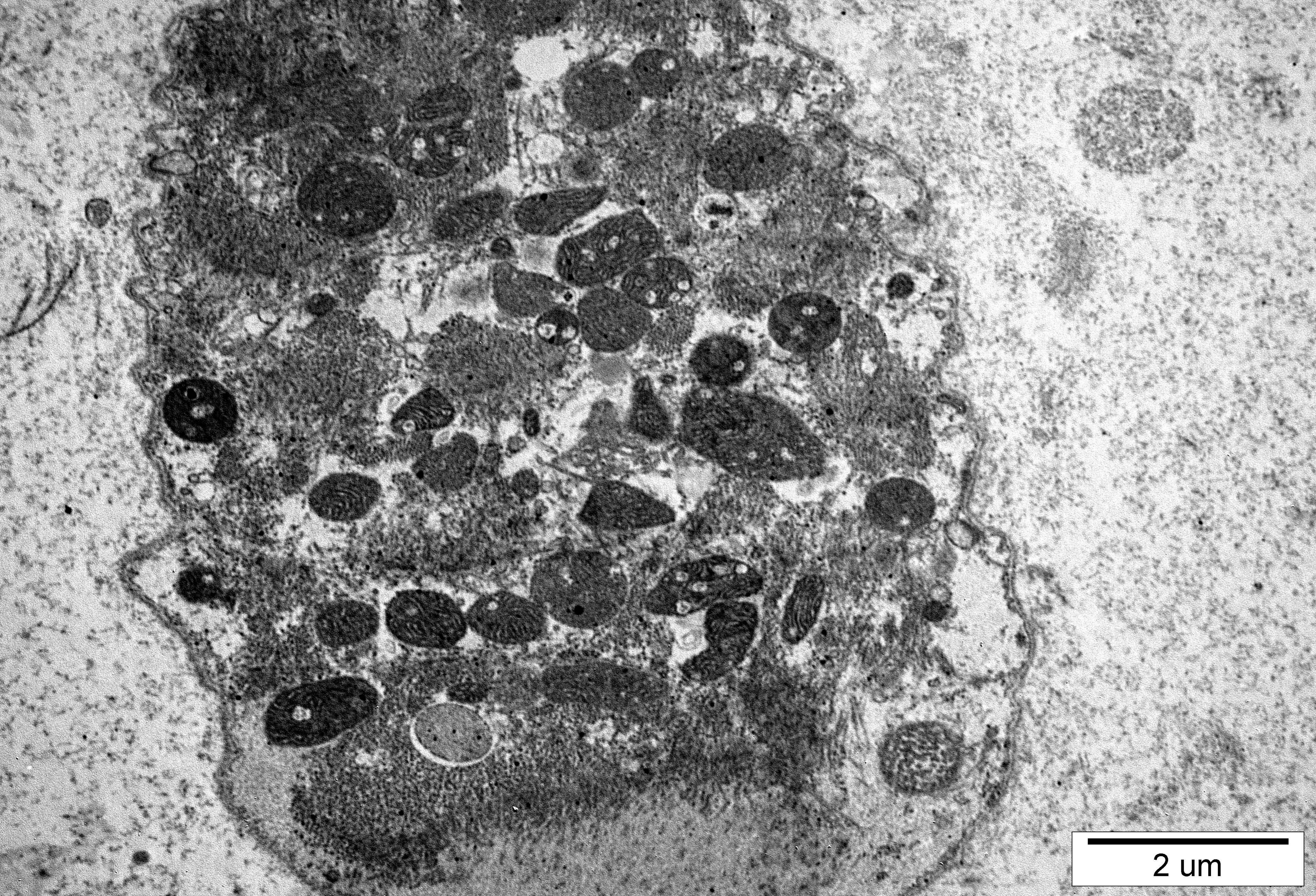
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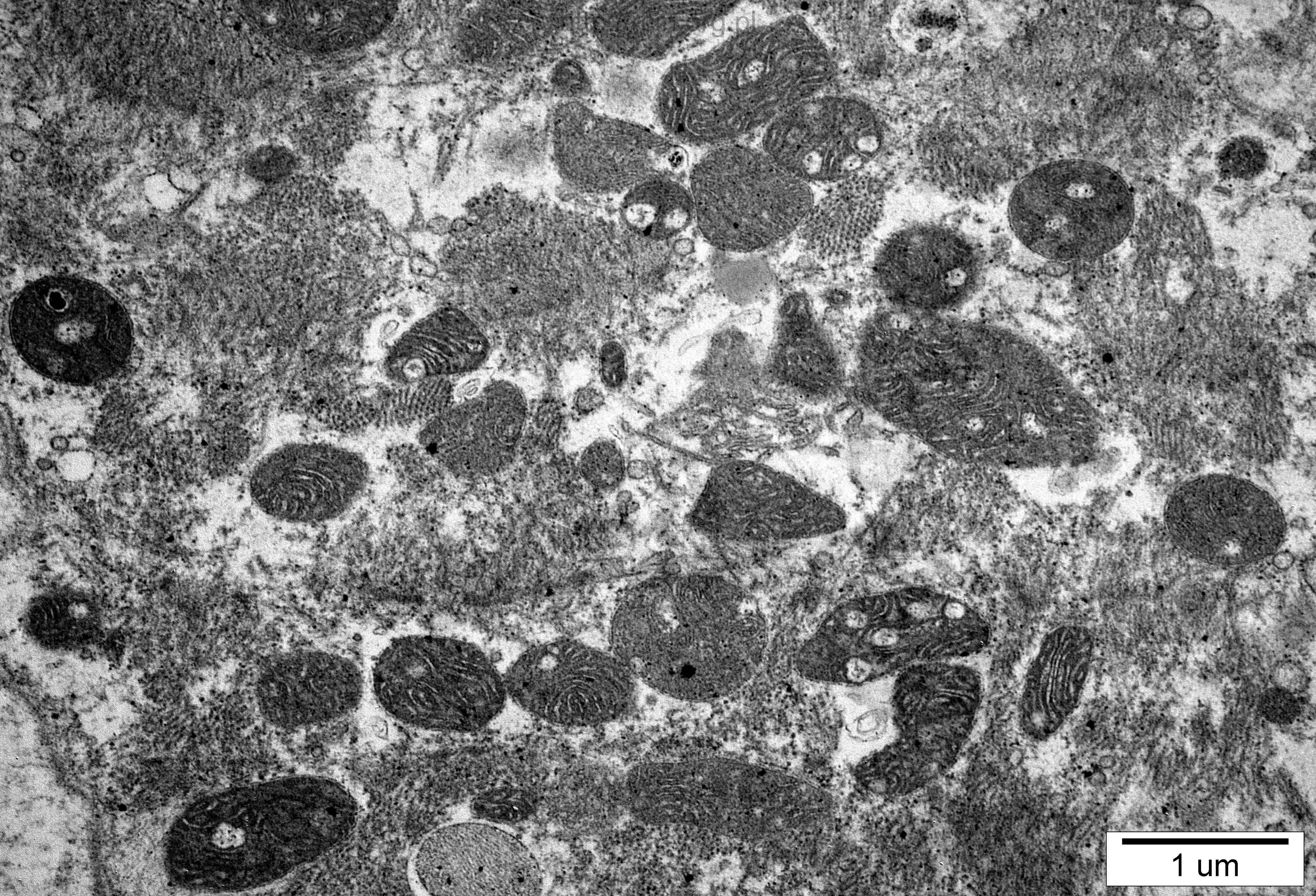
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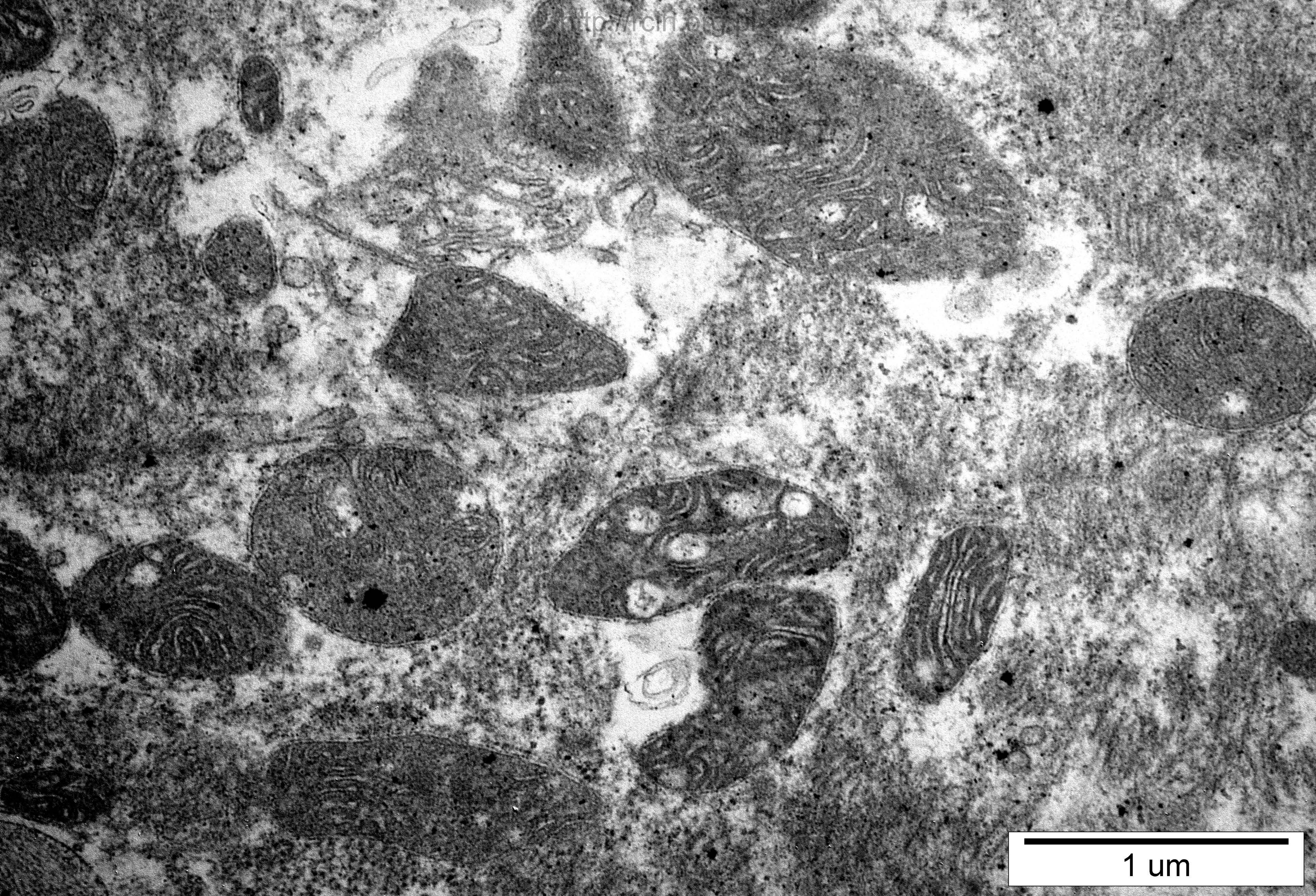
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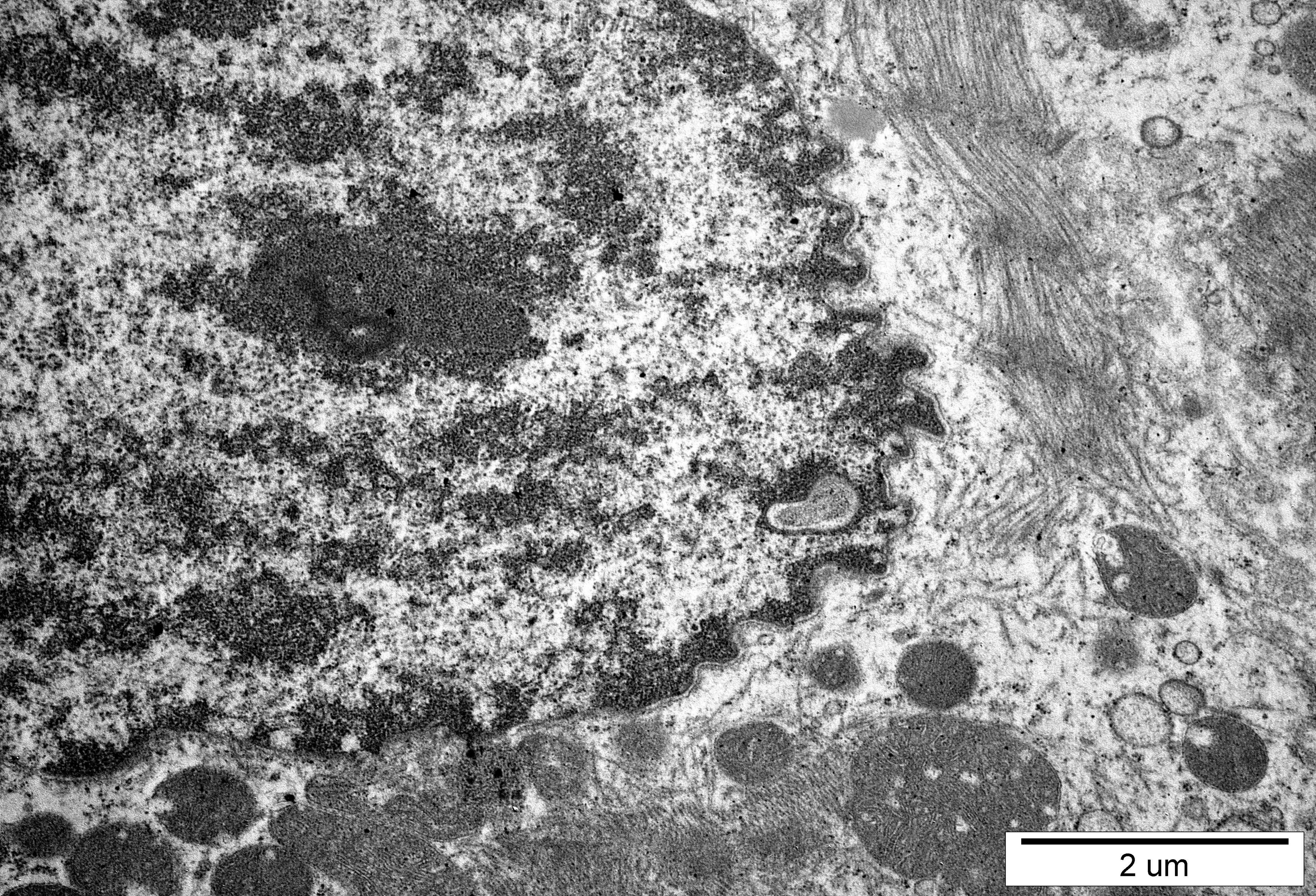
2 um



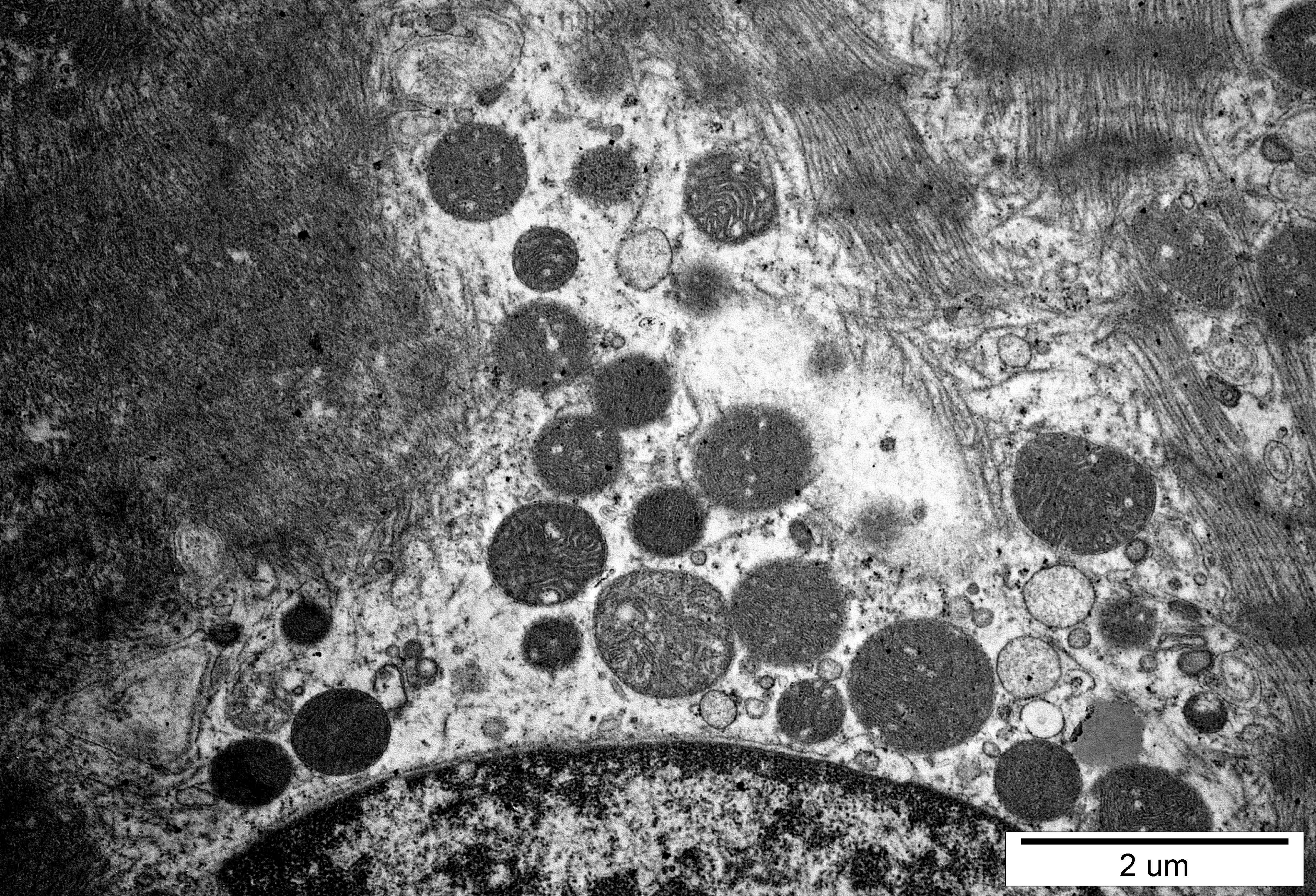
1 μm



1 um



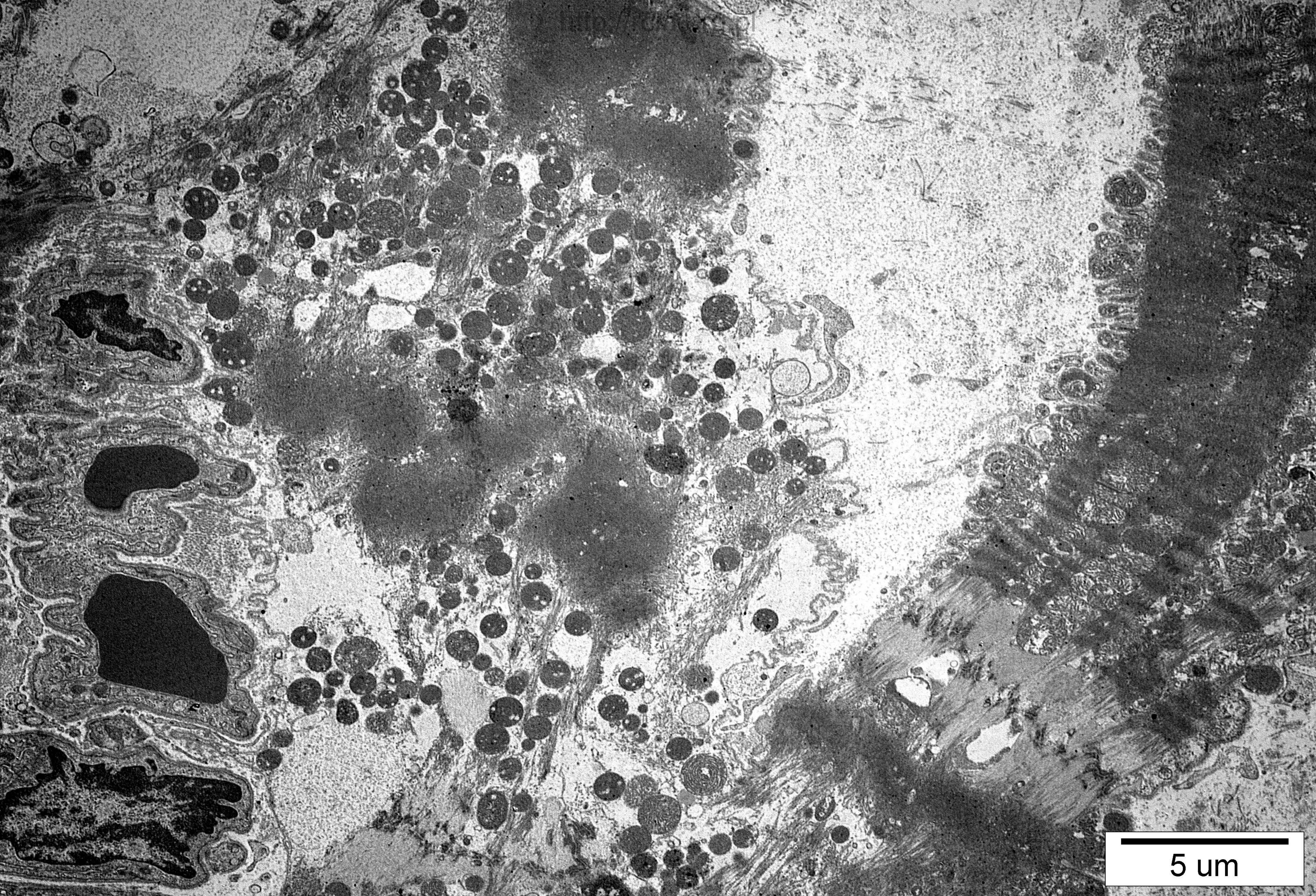
2 μ m



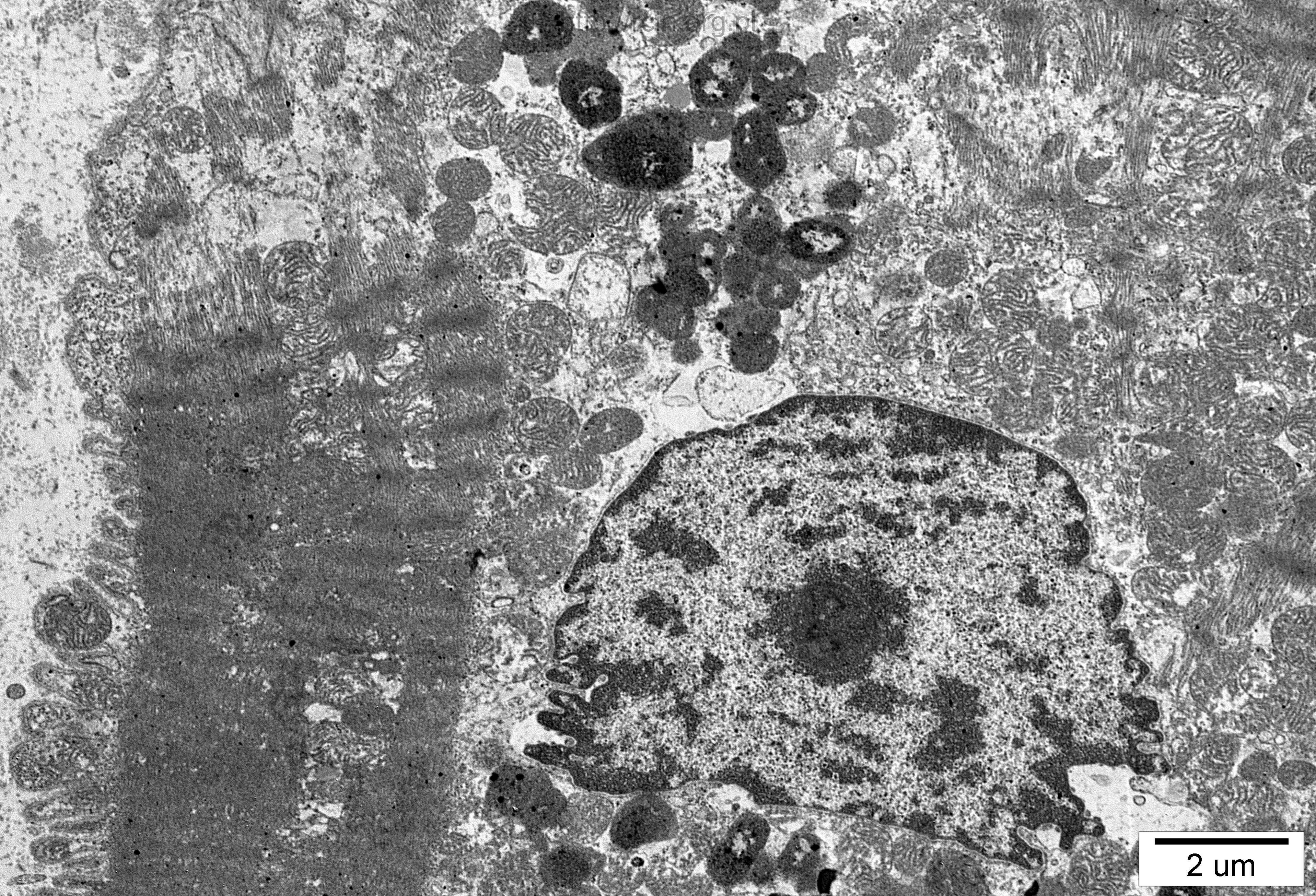
2 um



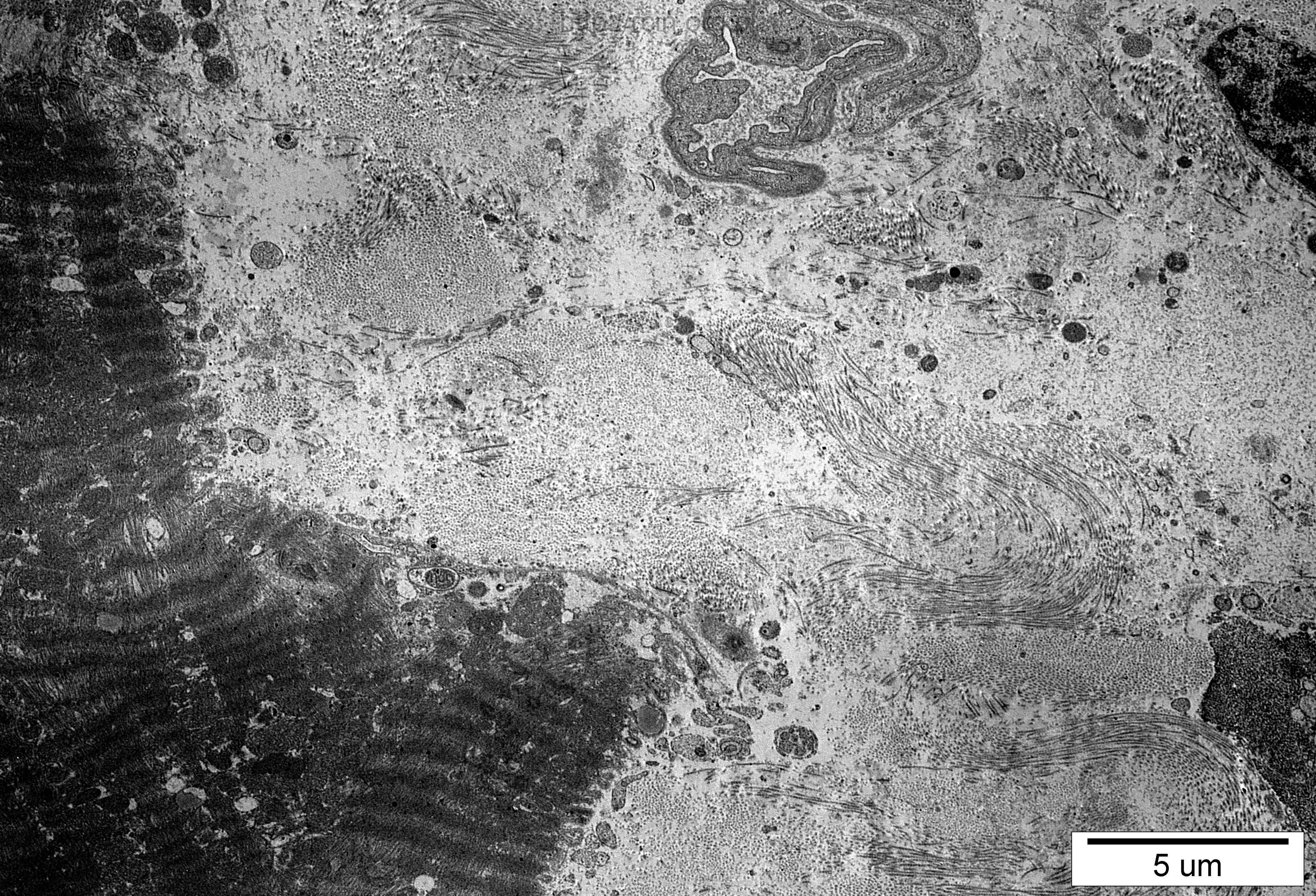
5 μ m



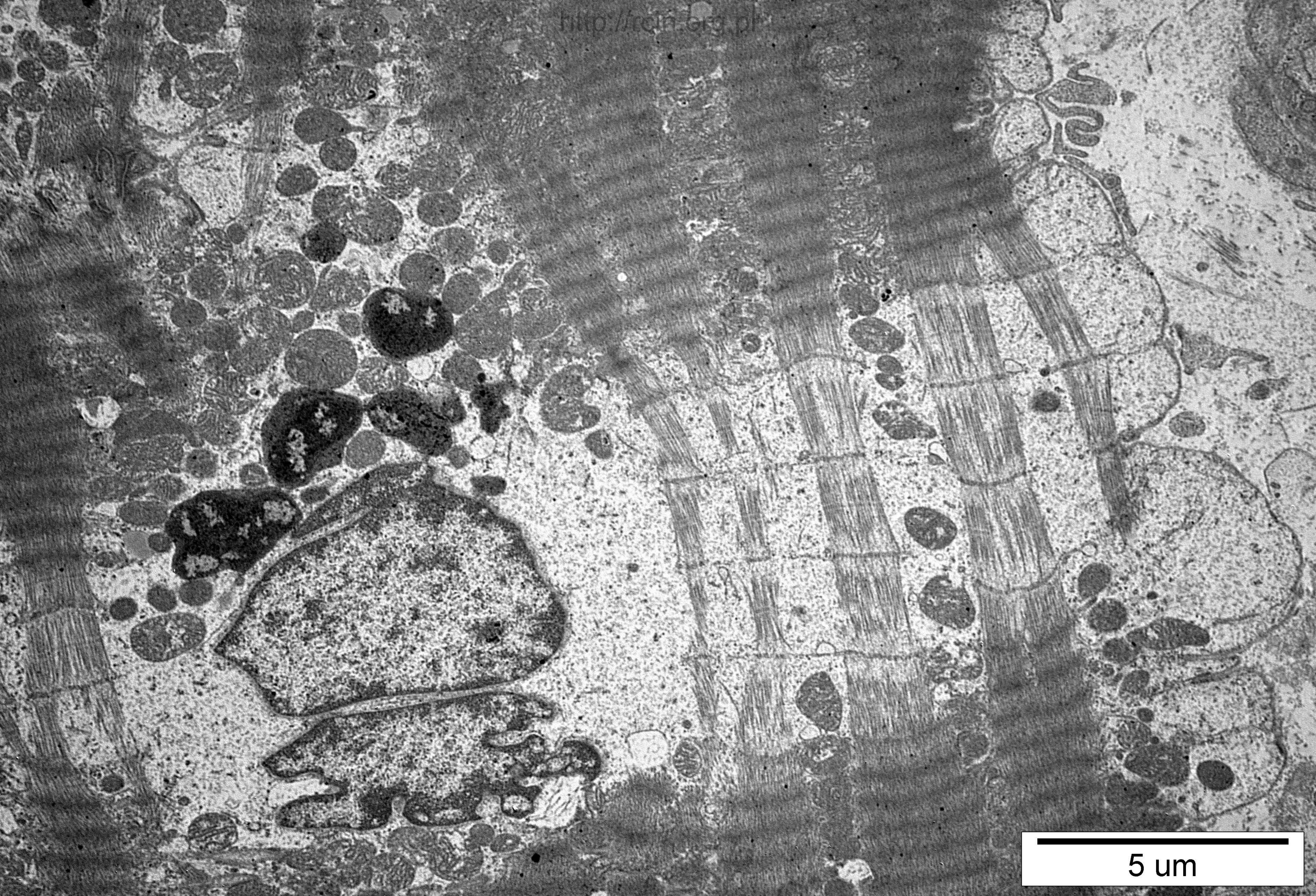
5 um



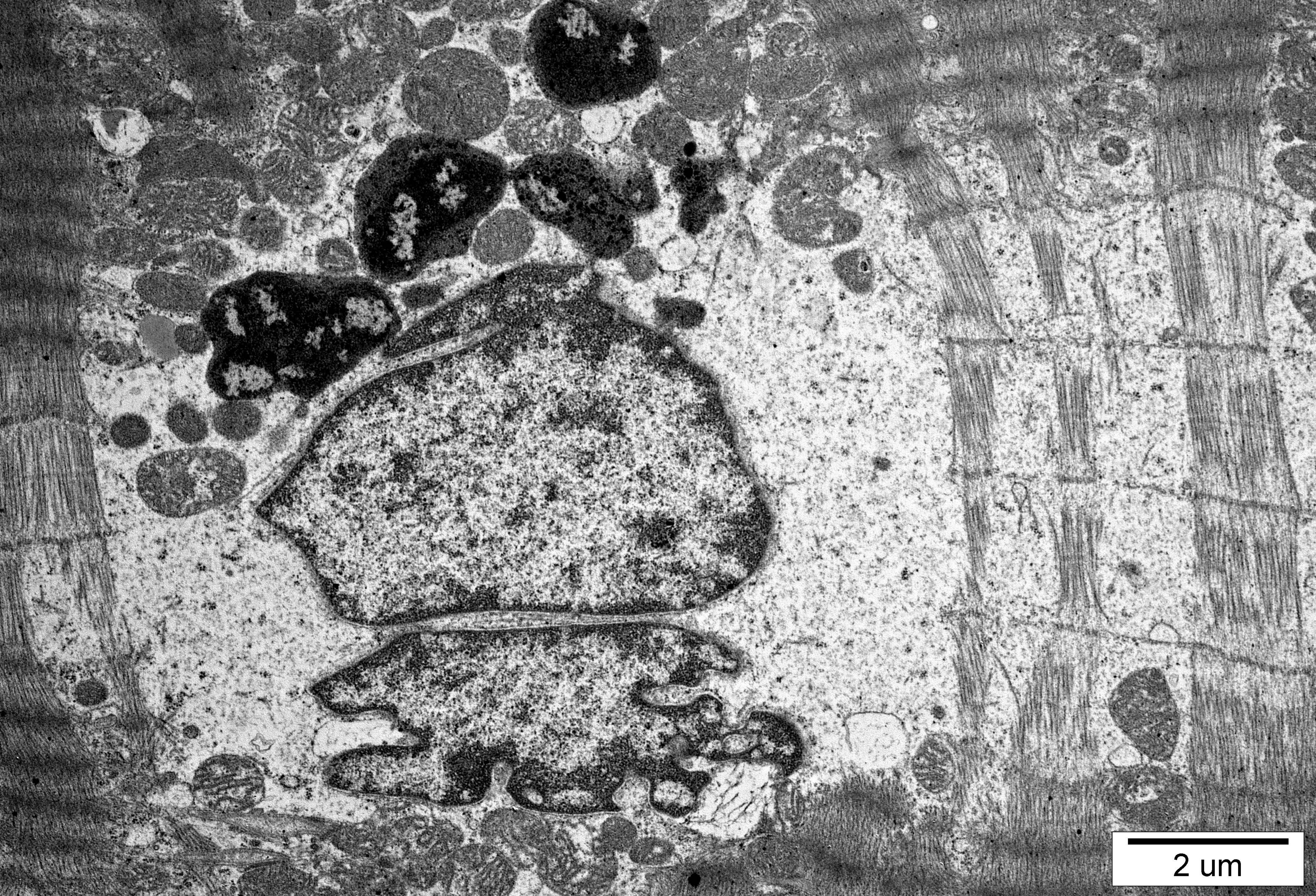
2 um



5 um



5 um



2 um

3517 serce

Ocena ultrastrukturalna wykazała zatartą strukturę sarkomerów (Fig. 3517-1, 3) oraz rozproszenie i miejscowy ubytek miofibrili (Fig. 3517-5, 8, 9, 10). Jądra charakteryzowały się pofałdowaną otoczką jądrową, a w ich pobliżu licznie występowały złogi lipofuscyny (Fig. 3517-2, 4, 6, 7, 11, 19, 21, 24). Obserwowano nieprawidłowe mitochondria o ciemnej elektronowo macierzy zawierające w swym wnętrzu charakterystyczne wtręty (Fig. 3517-13, 14, 15, 16, 17). W przestrzeni zewnątrzkomórkowej obecna była obfita tkanka łączna oraz naczynia kapilarne (Fig. 3517-22)

Ultrastructural evaluation revealed blurred sarcomeres structure (Figs. 3517-1,3) as well as scattered myofibrils and focally their complete disappearance (Figs. 3517-5,8,9,10). Nuclei of cardiomyocytes were characterized by numerous indentations in the nuclear envelope, and lipofuscin deposits were abundant in their vicinity (Figs. 3517-2,4,6,7,11,19,21,24). Altered mitochondria with electron-dark matrix containing characteristic inclusions were observed (Figs. 3517-14,15,16,17). Abundant connective tissue and capillary vessels were present in the extracellular space (Fig. 3517-22).