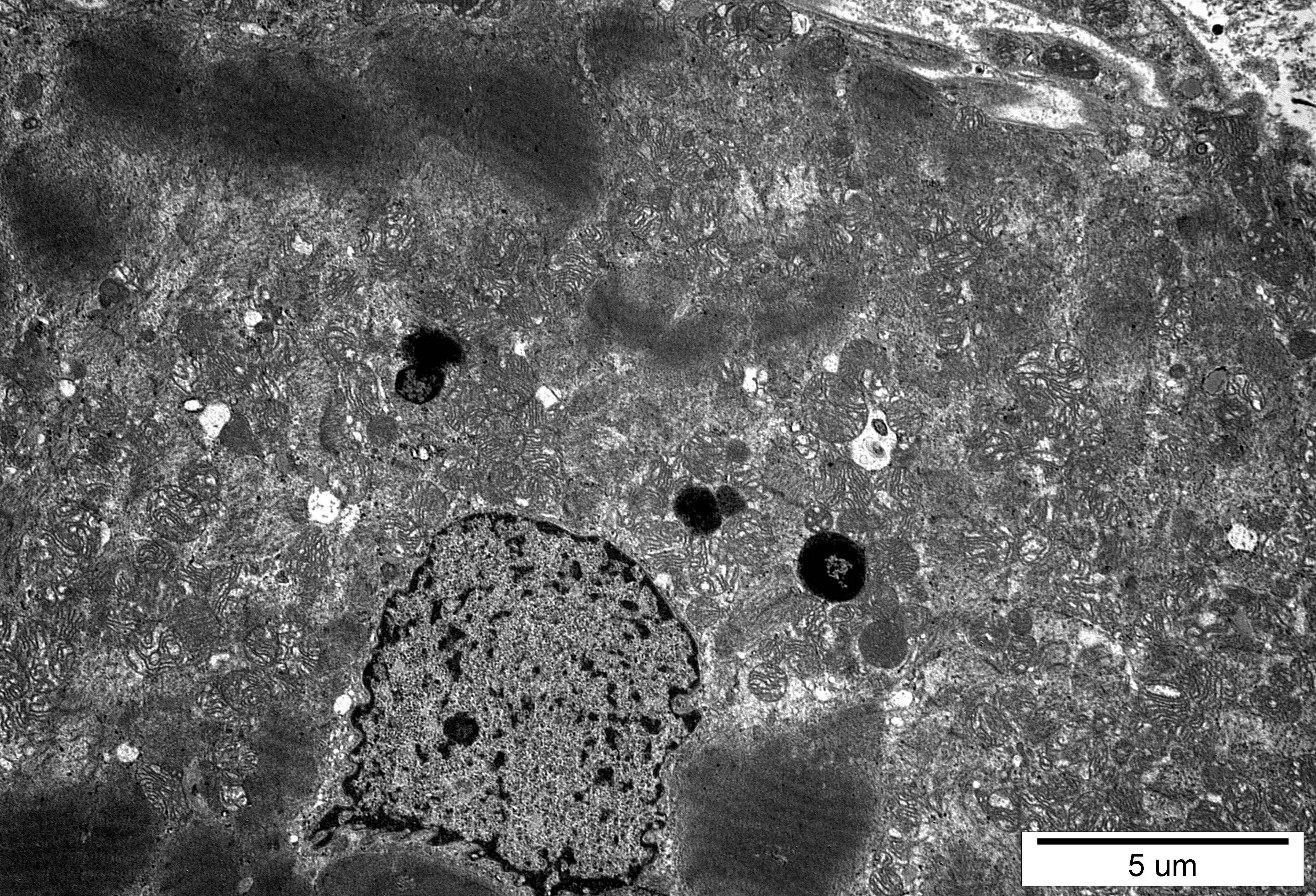
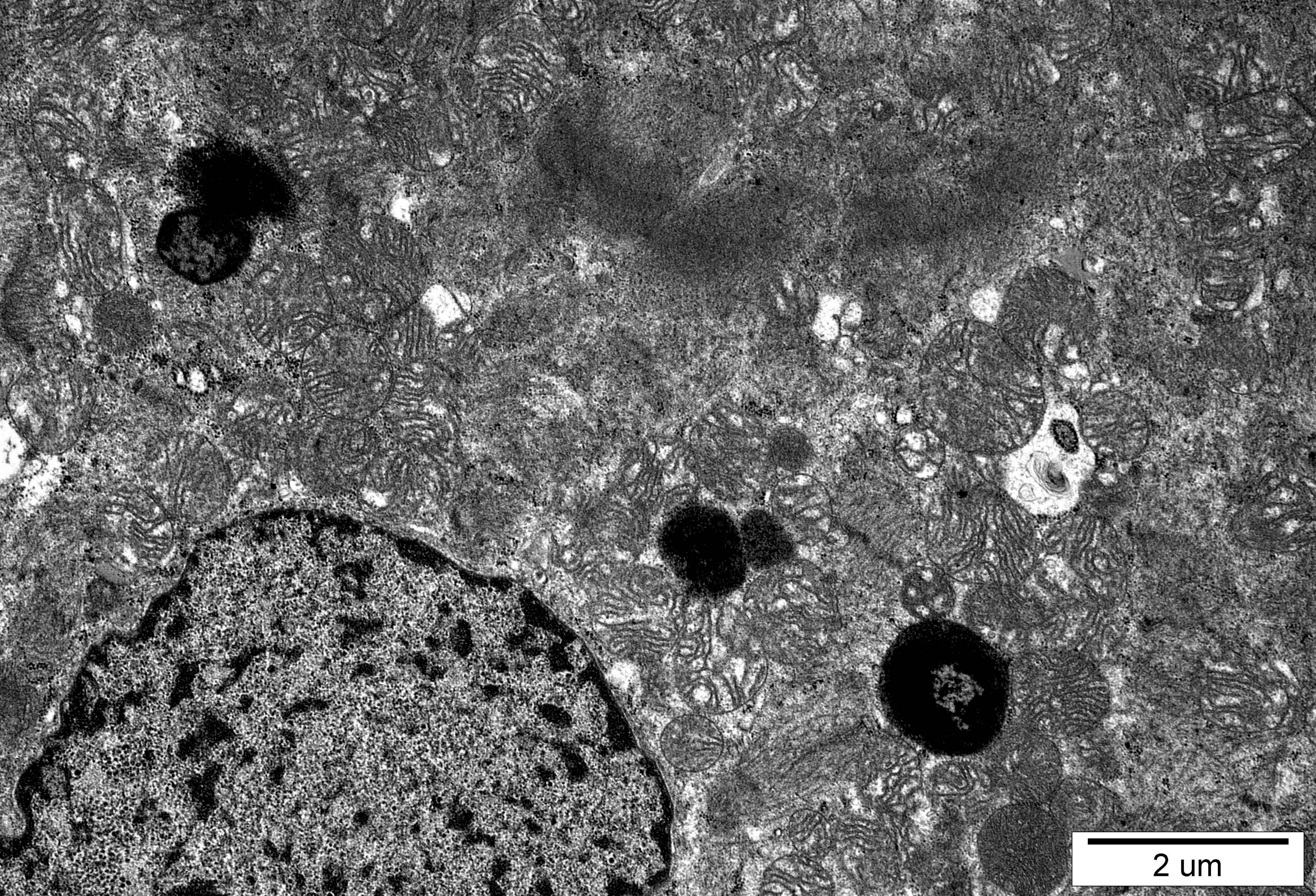




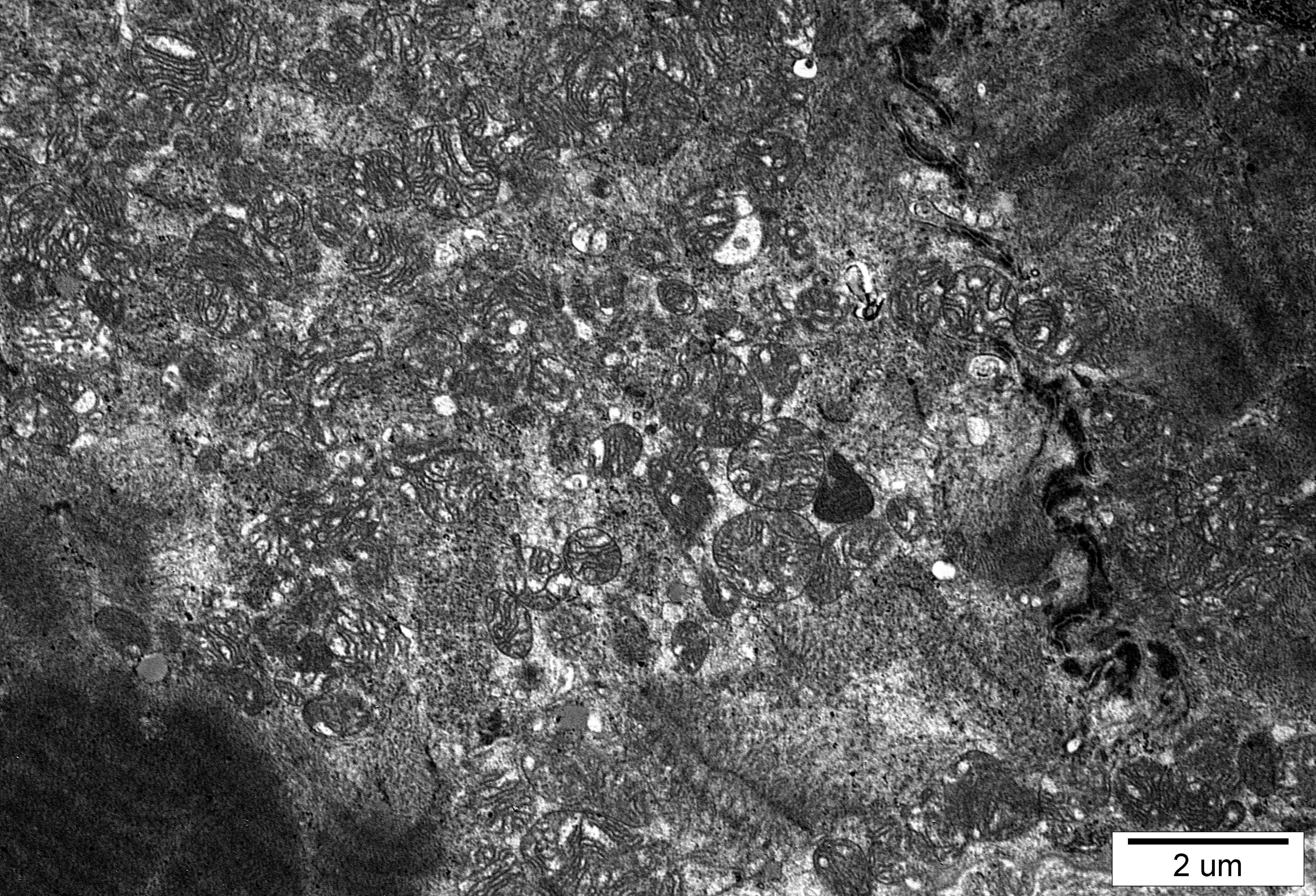
5 μ m



5 μm

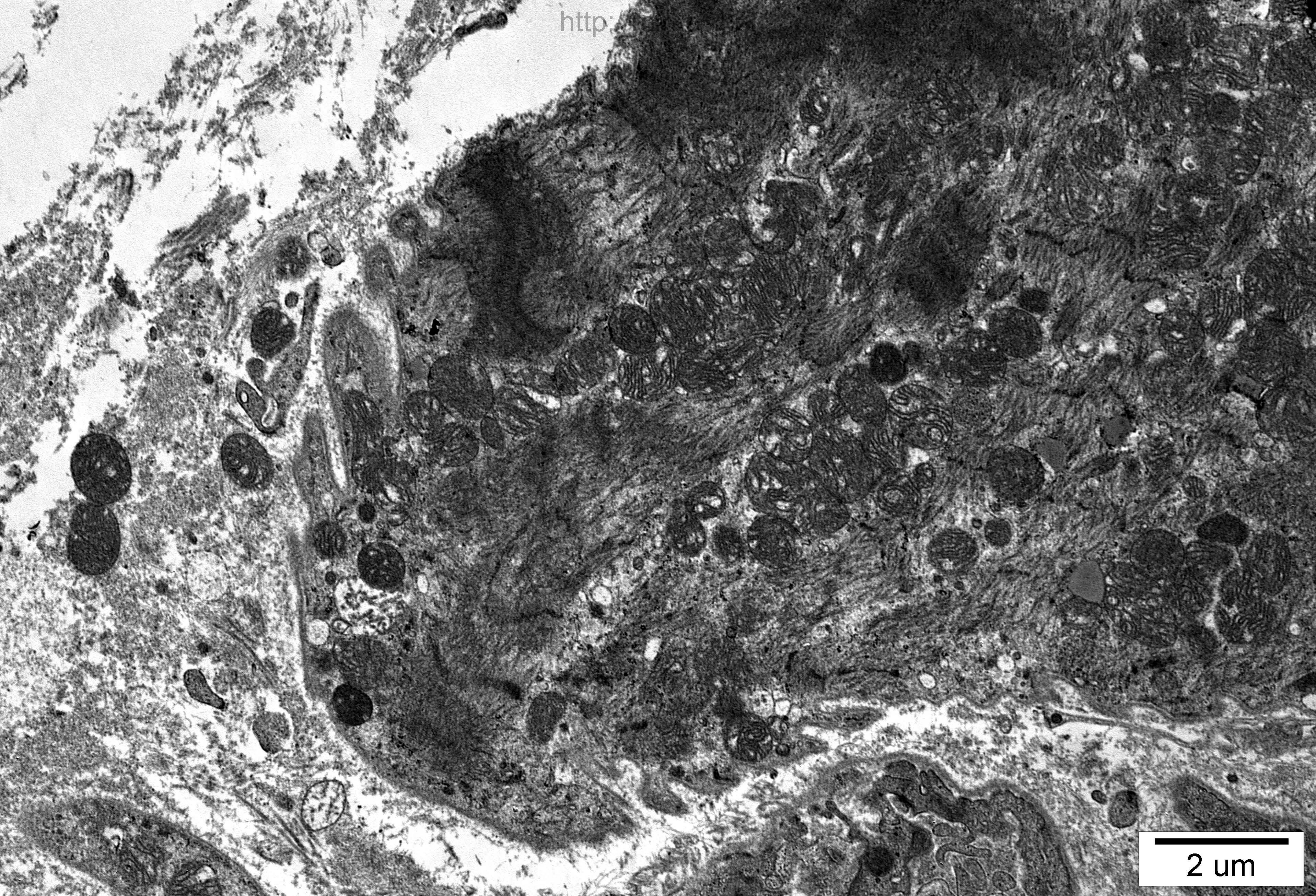


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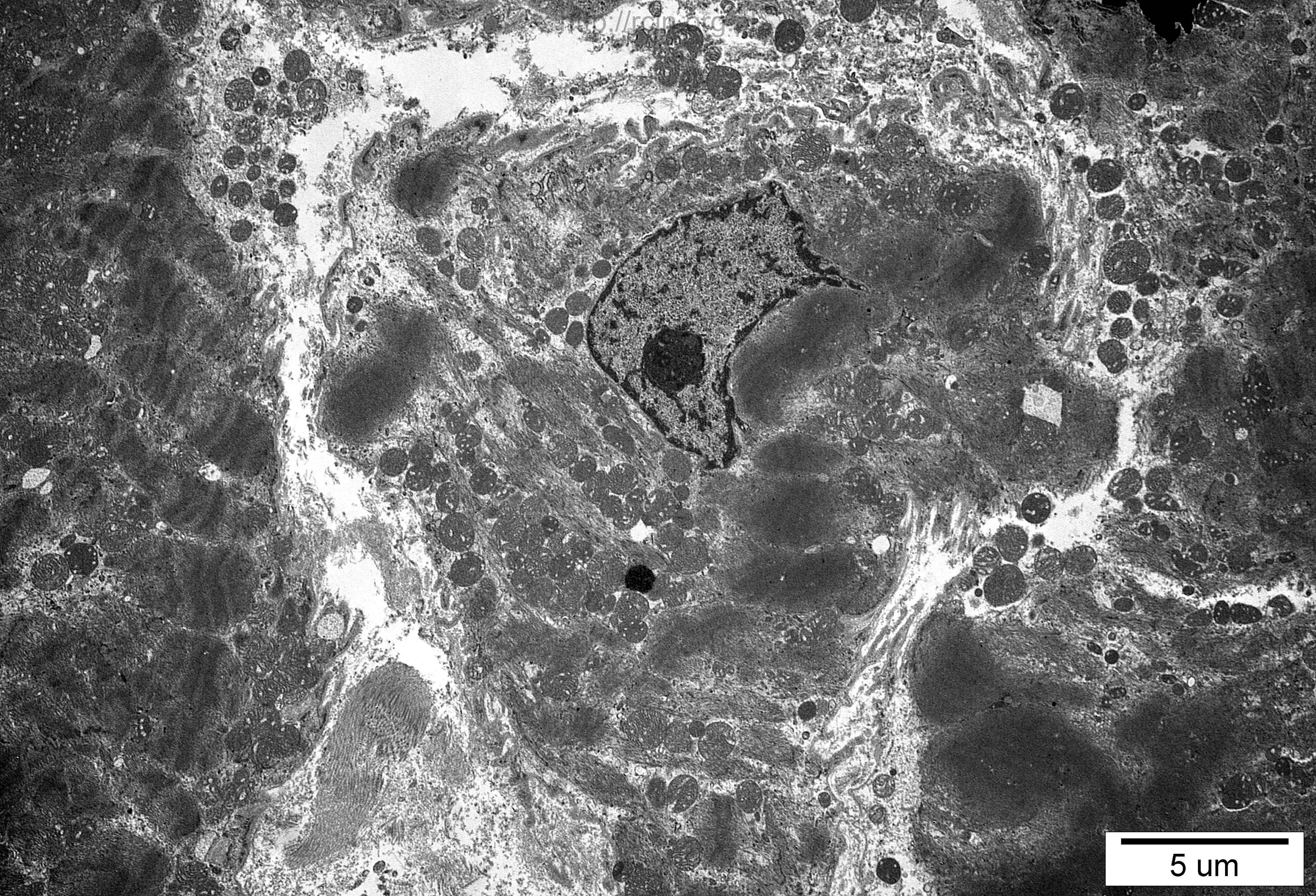


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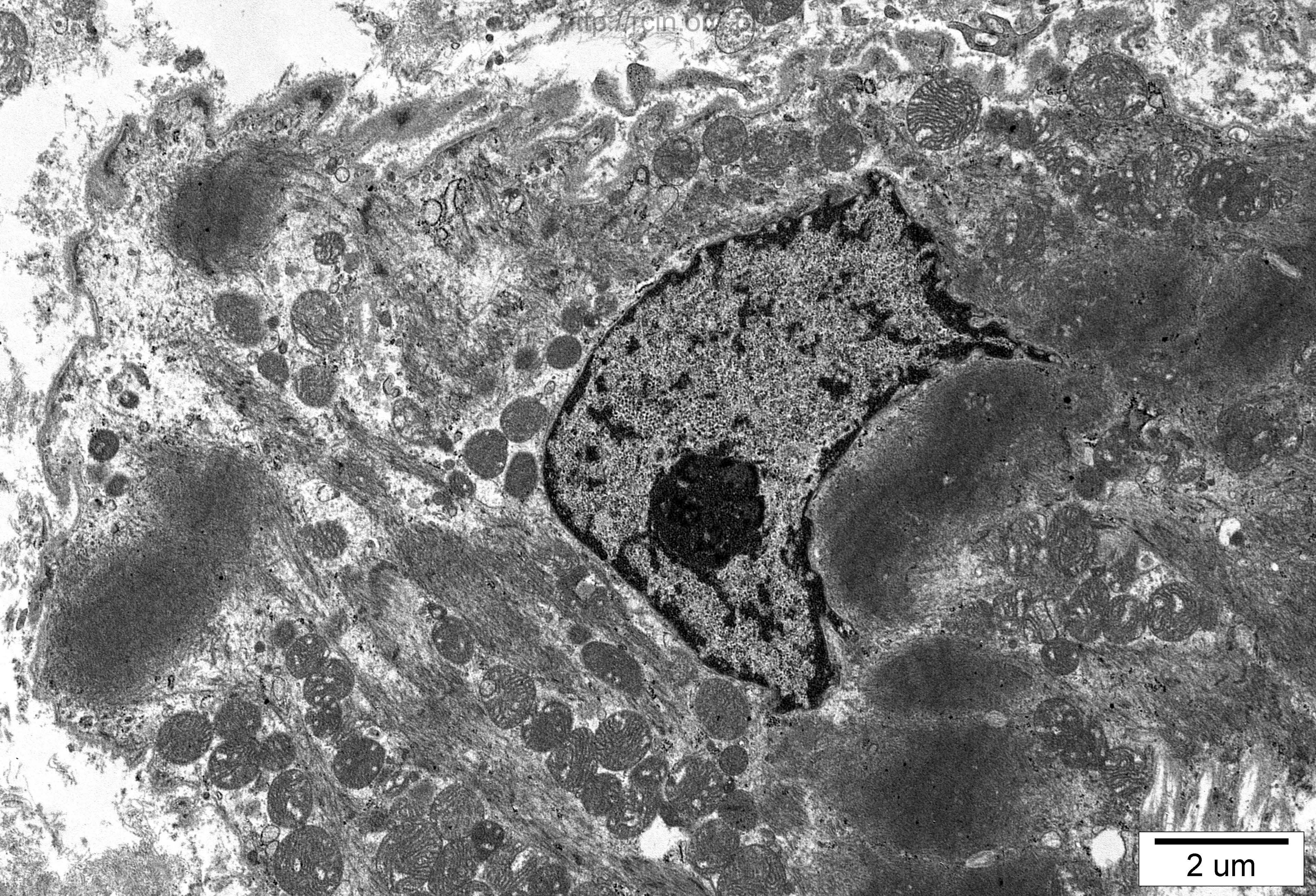
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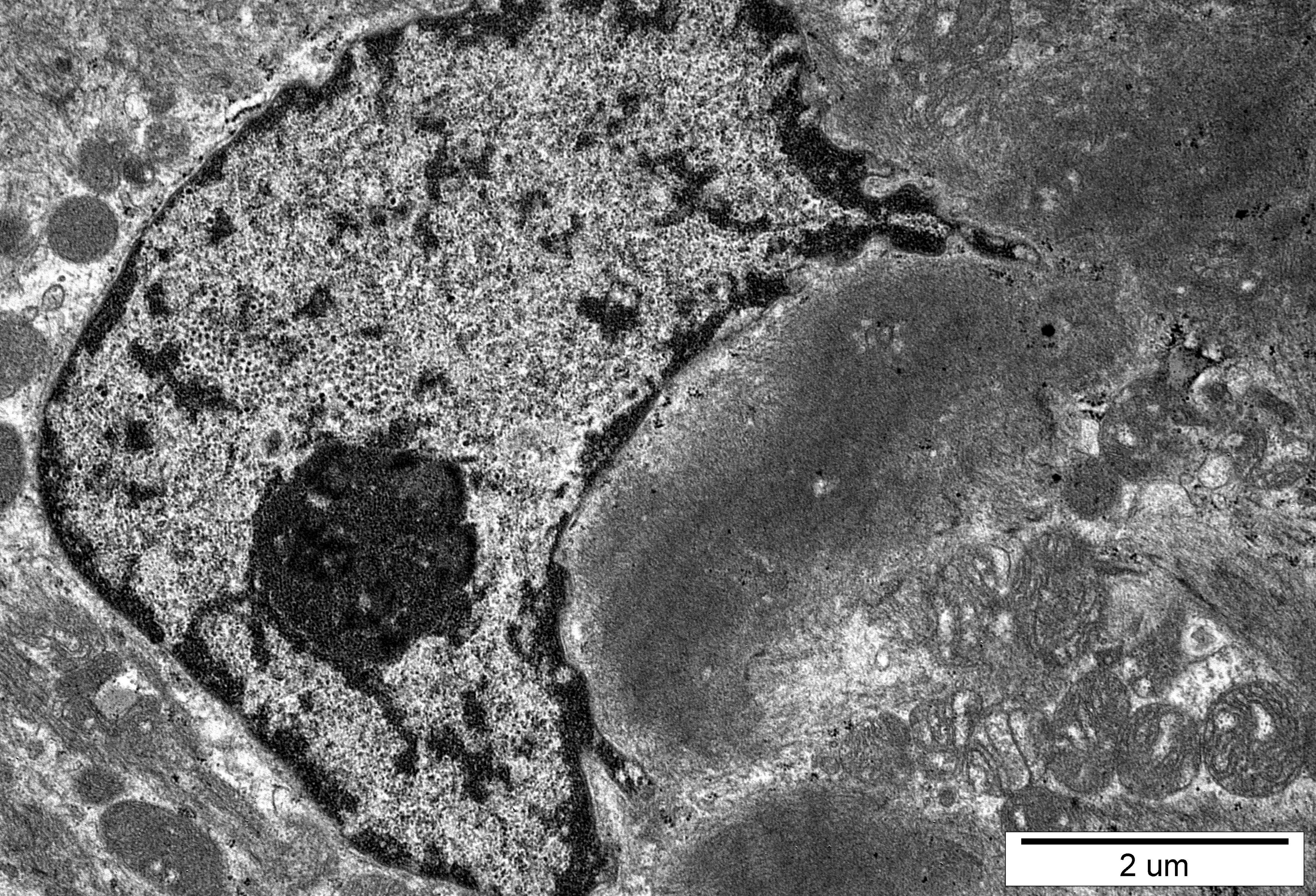
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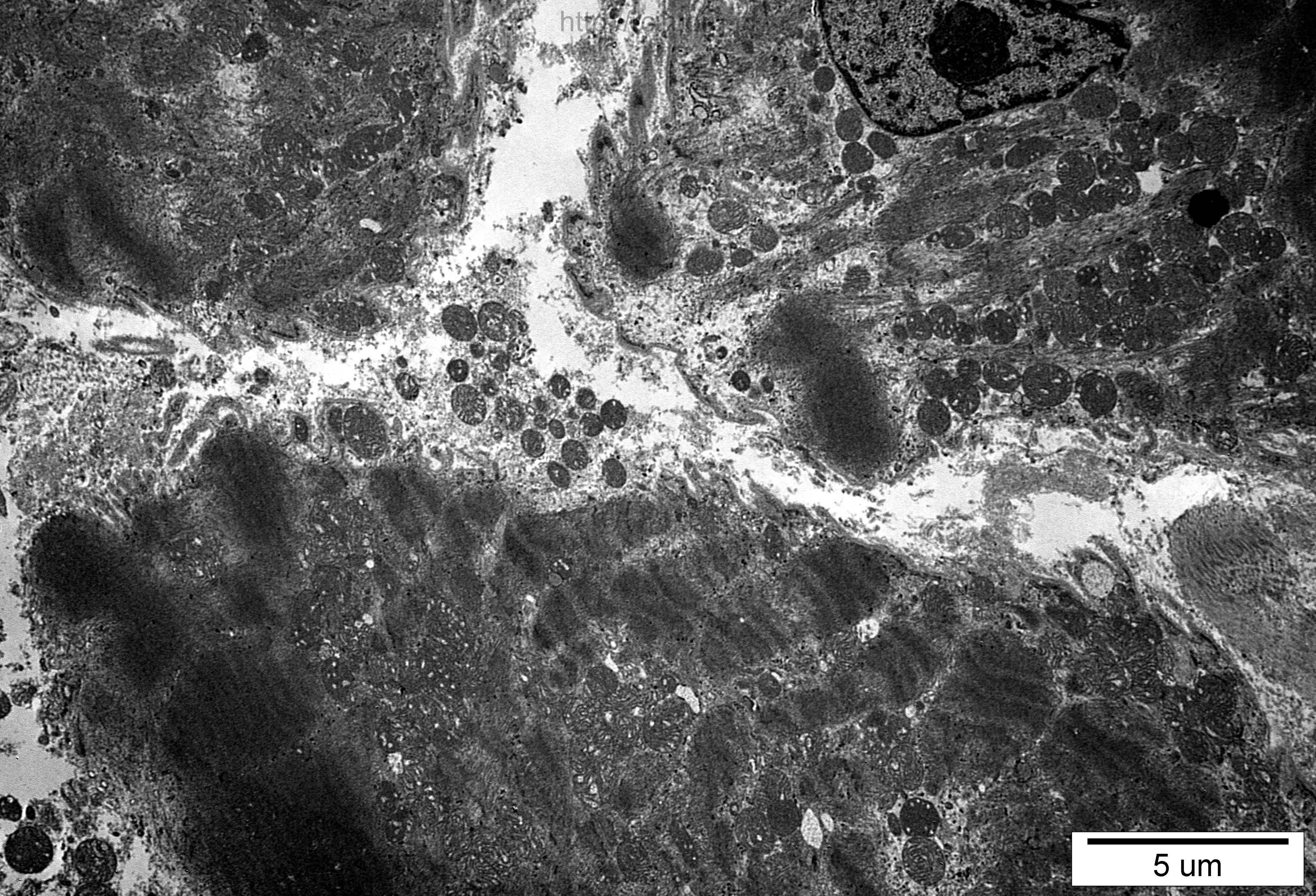
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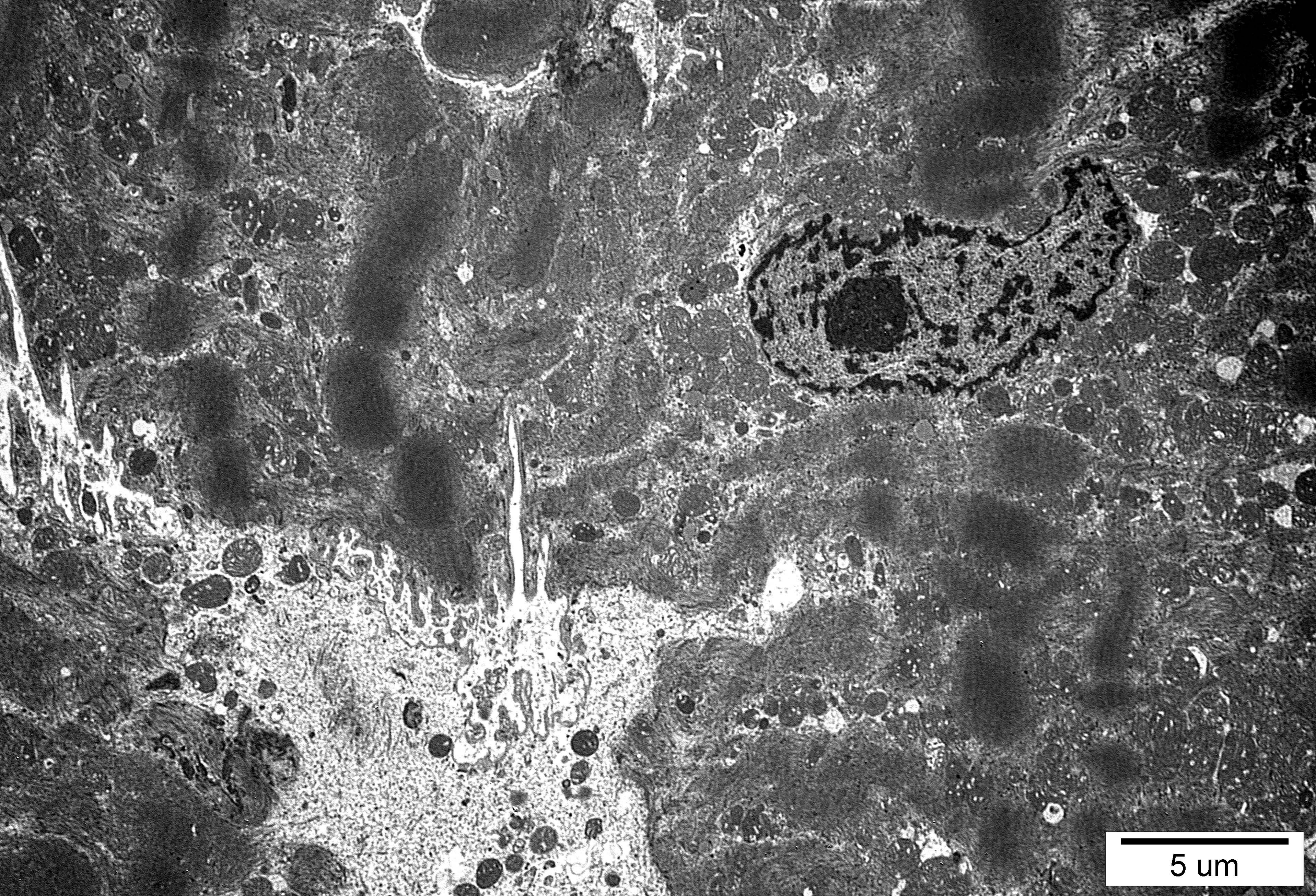
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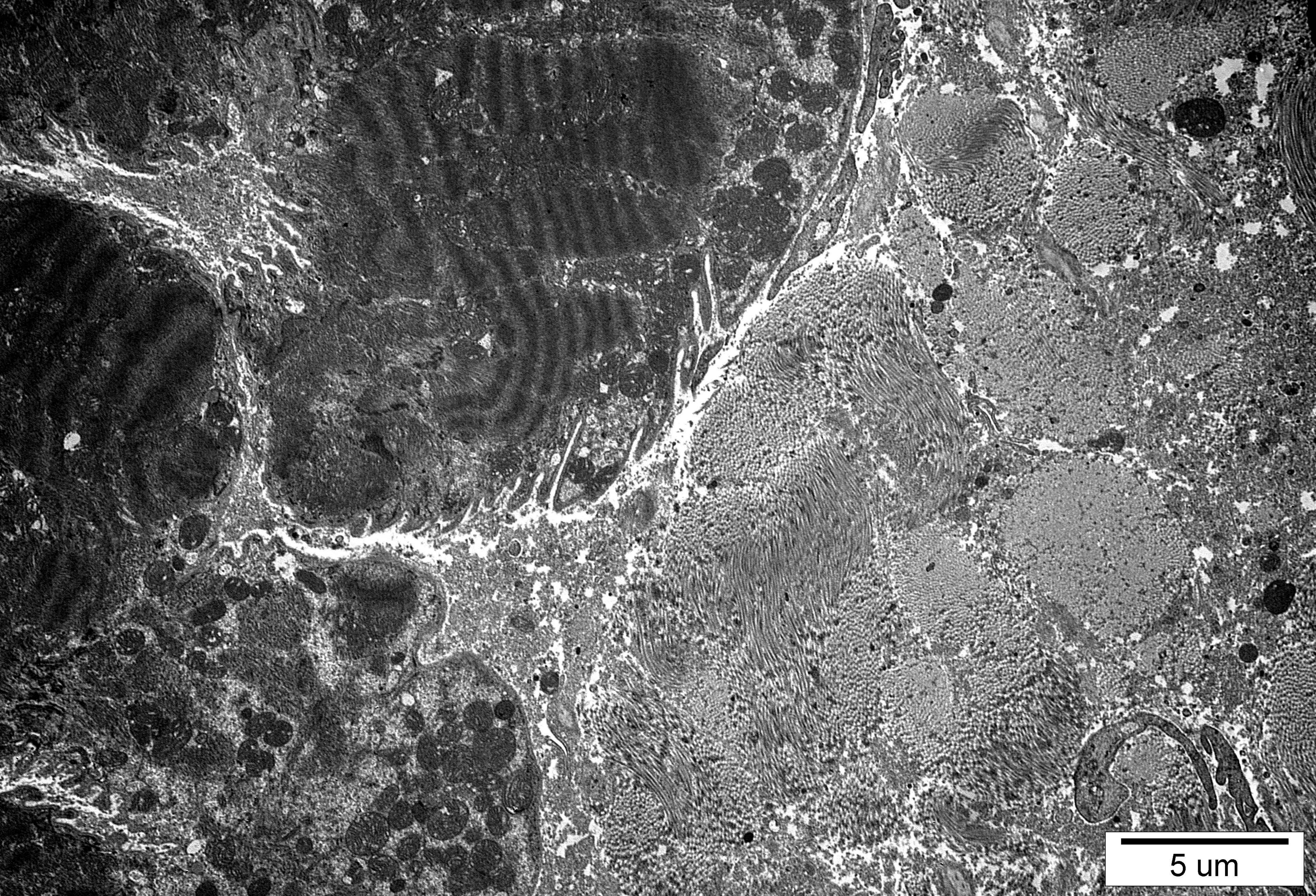
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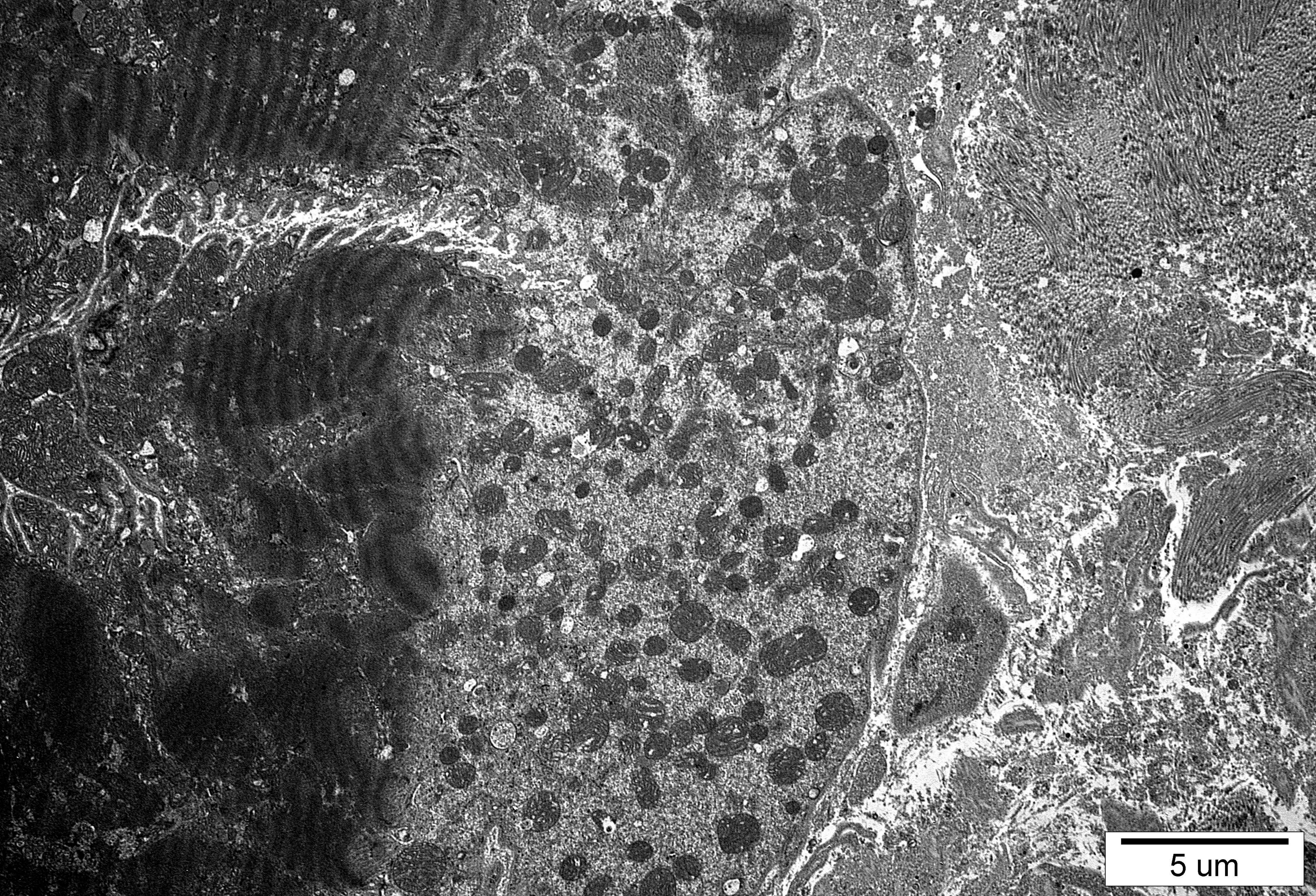
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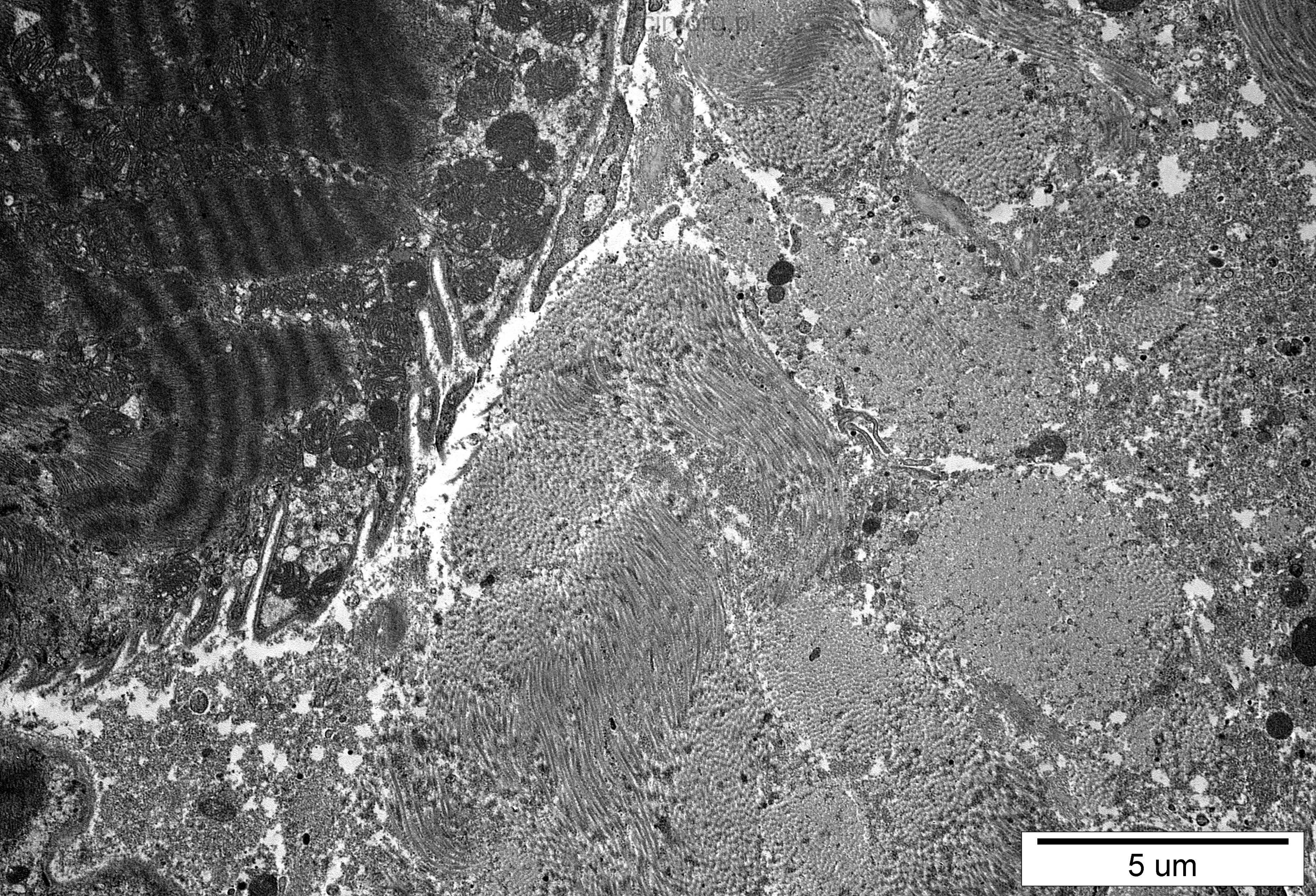
5 μm



5 μm

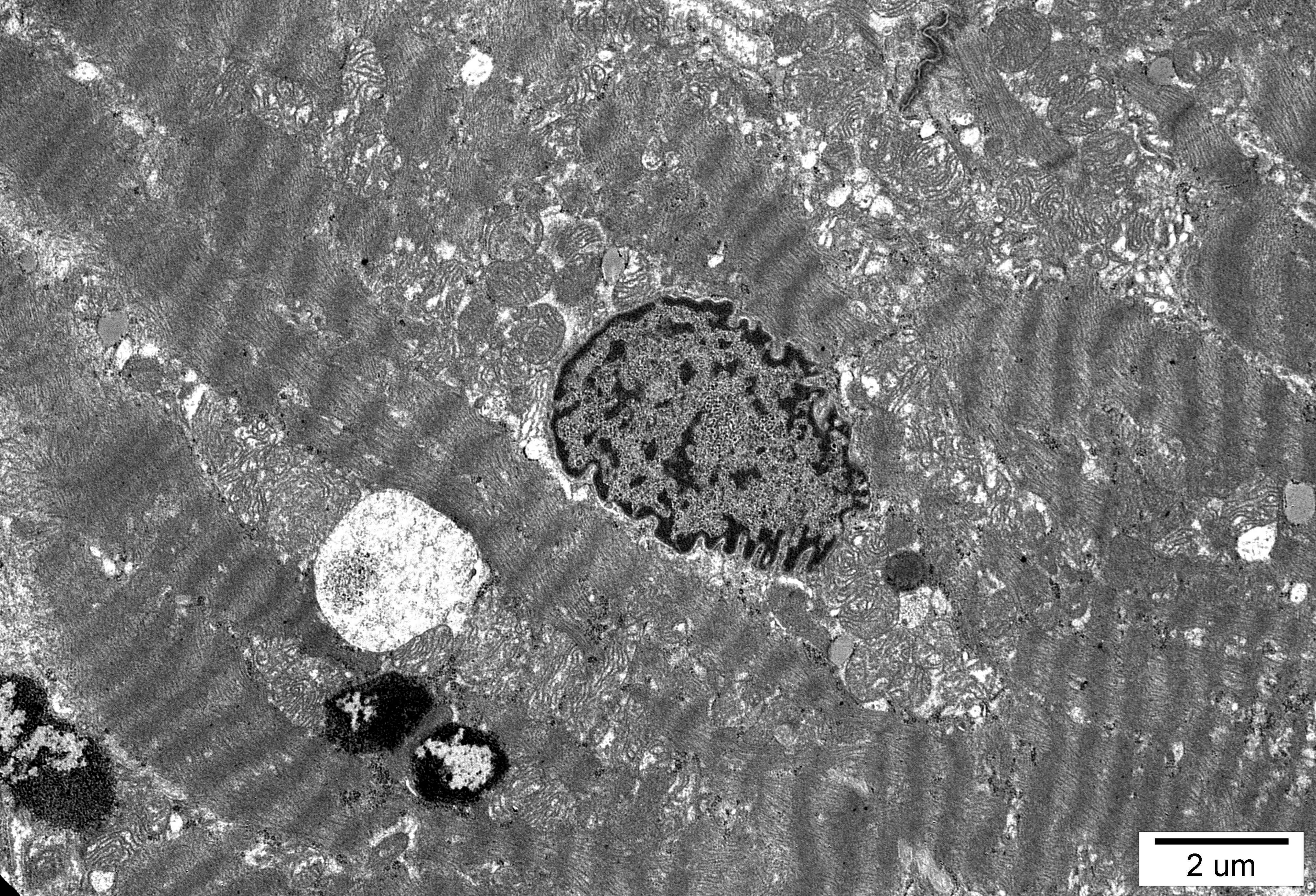


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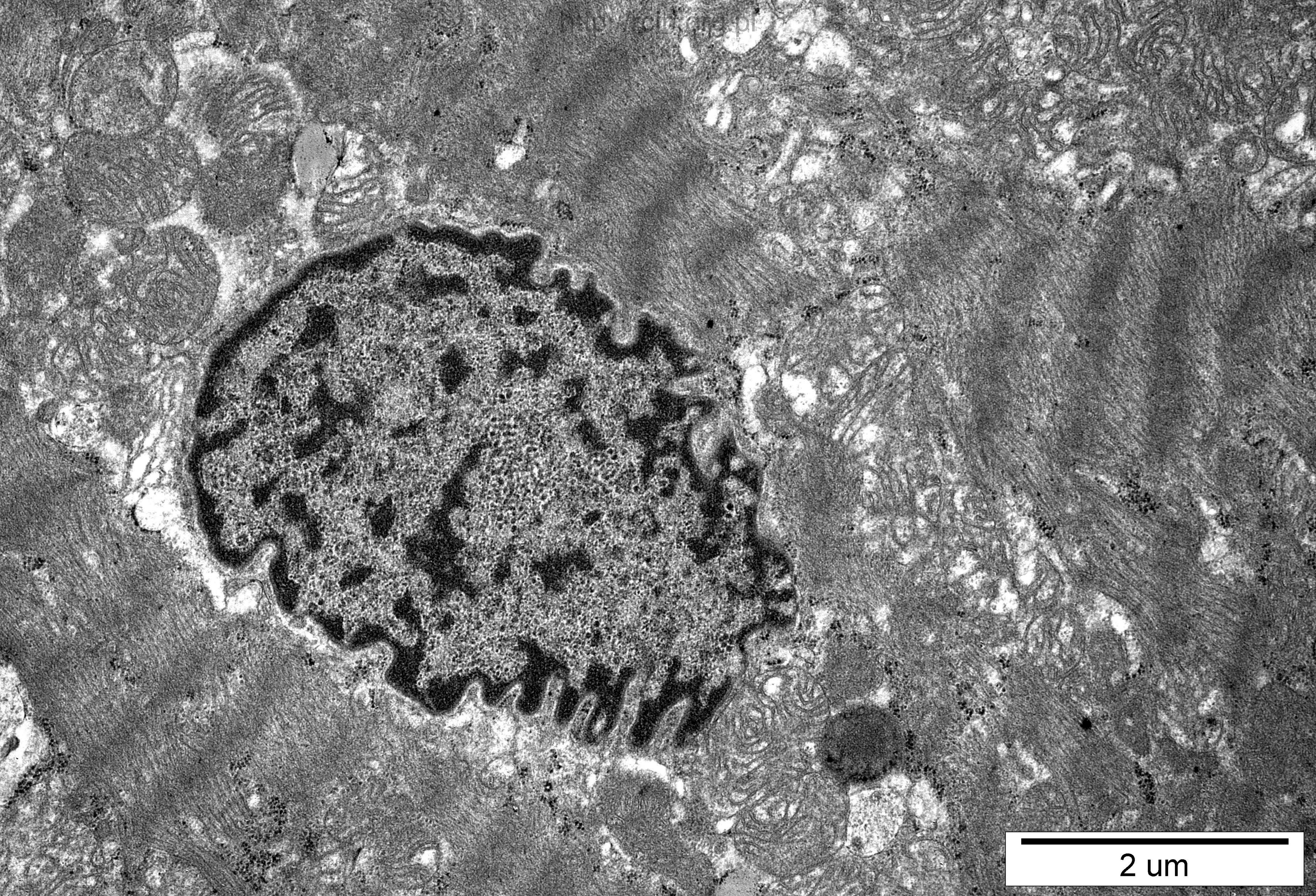


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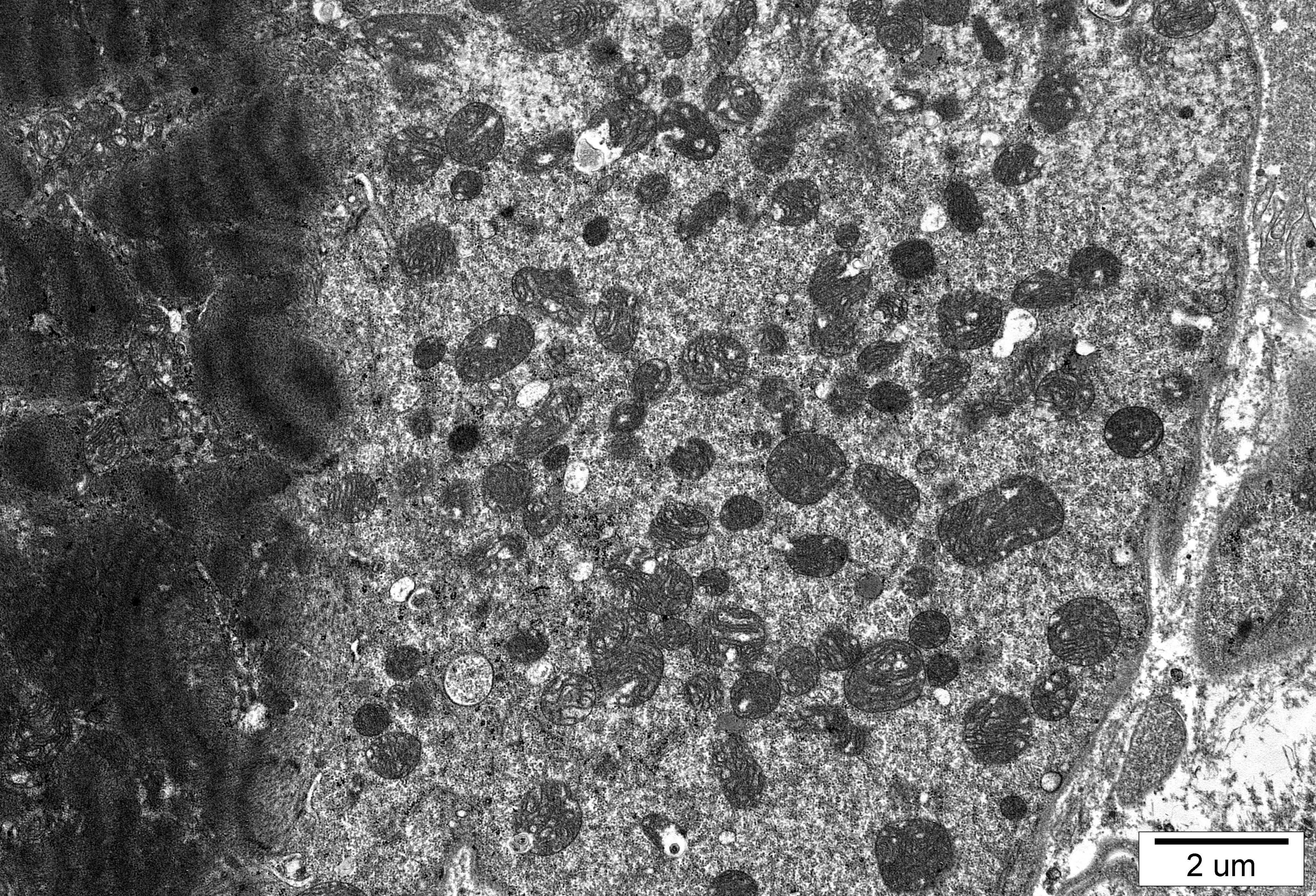
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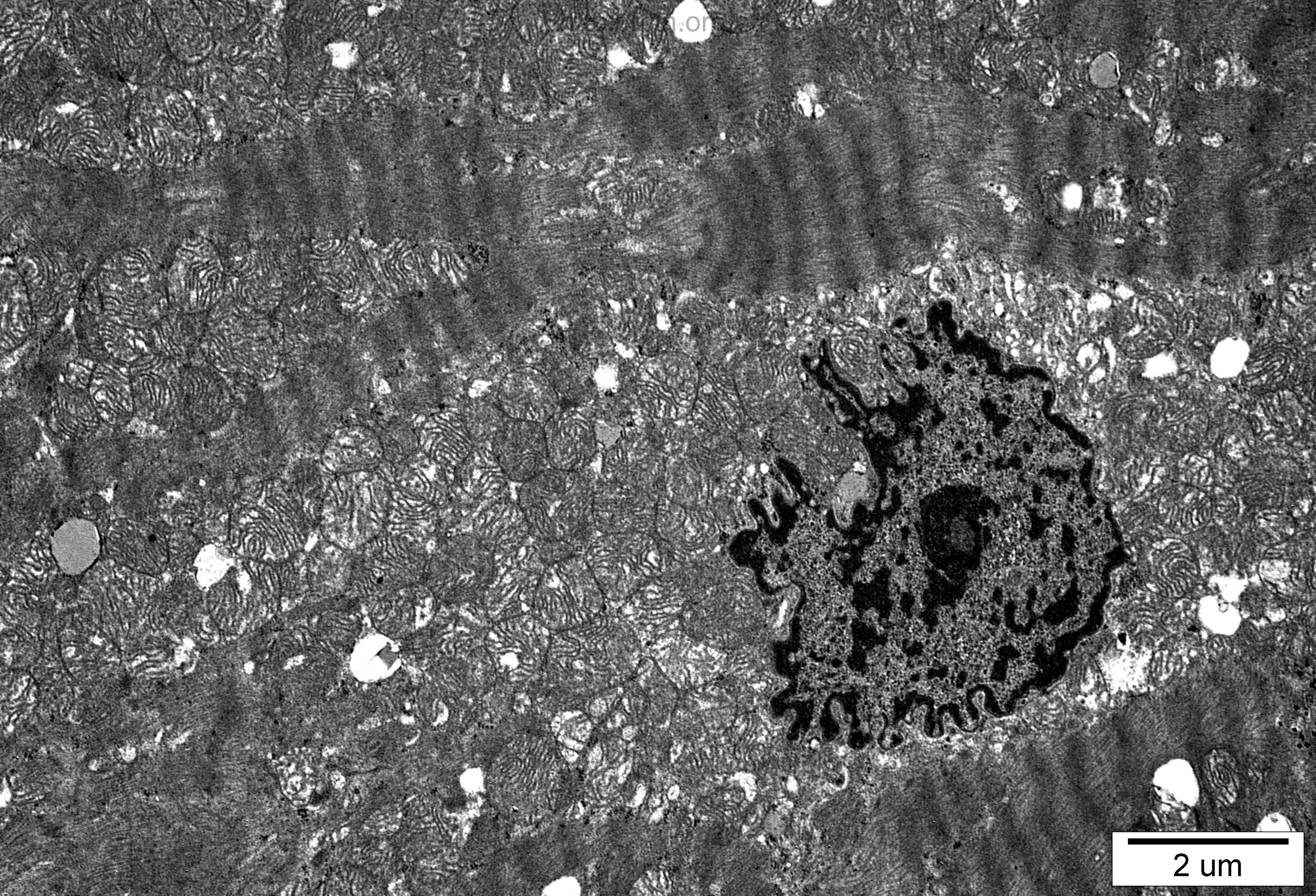
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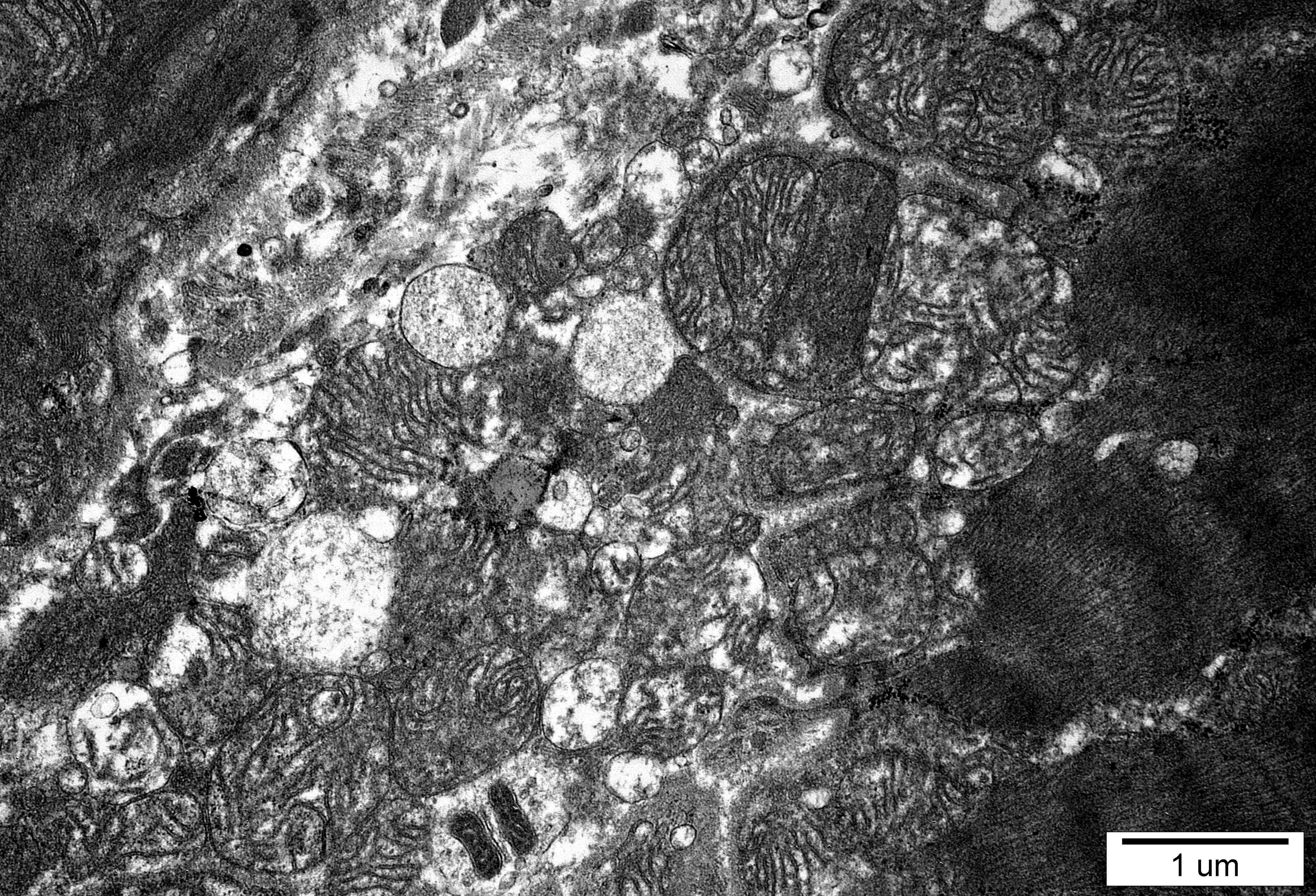
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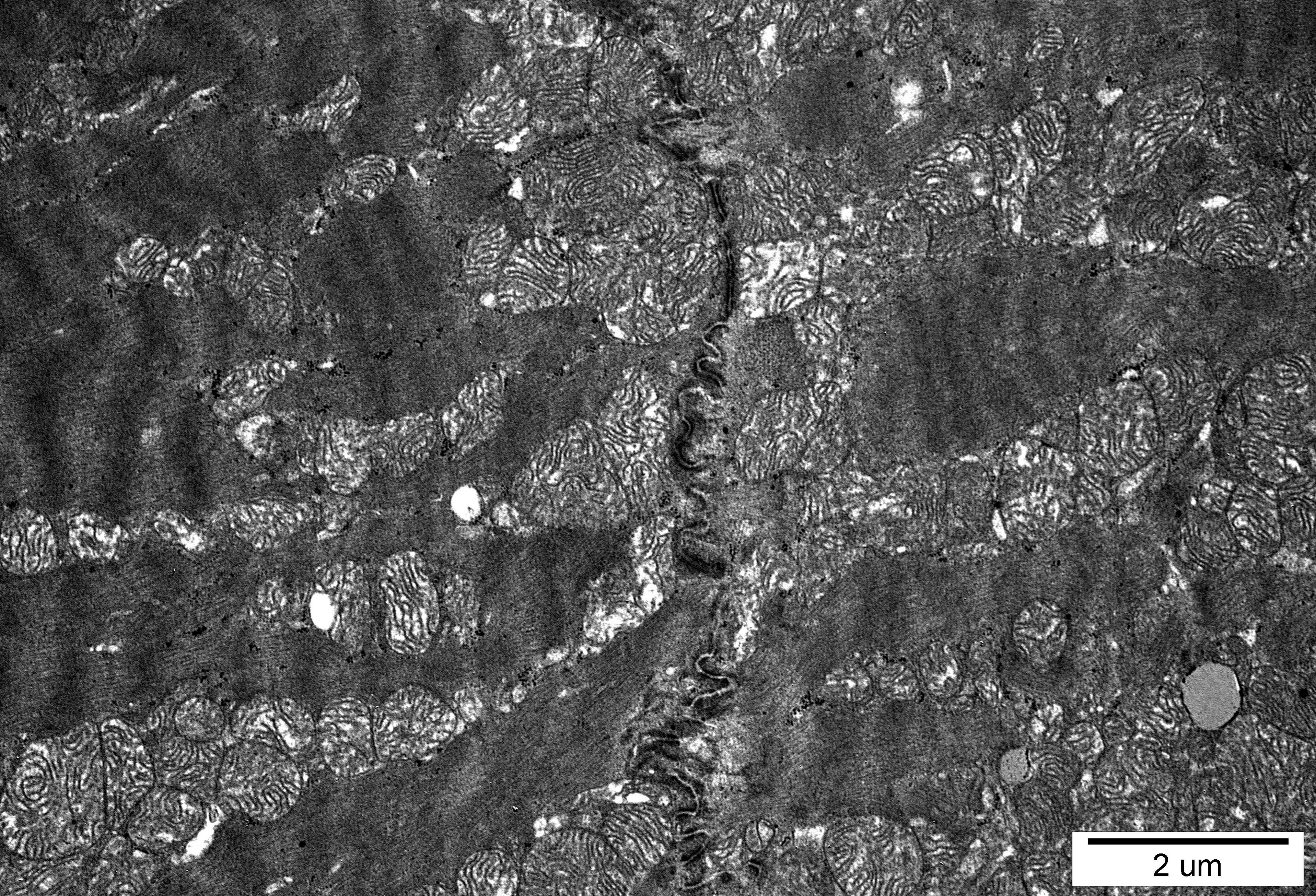
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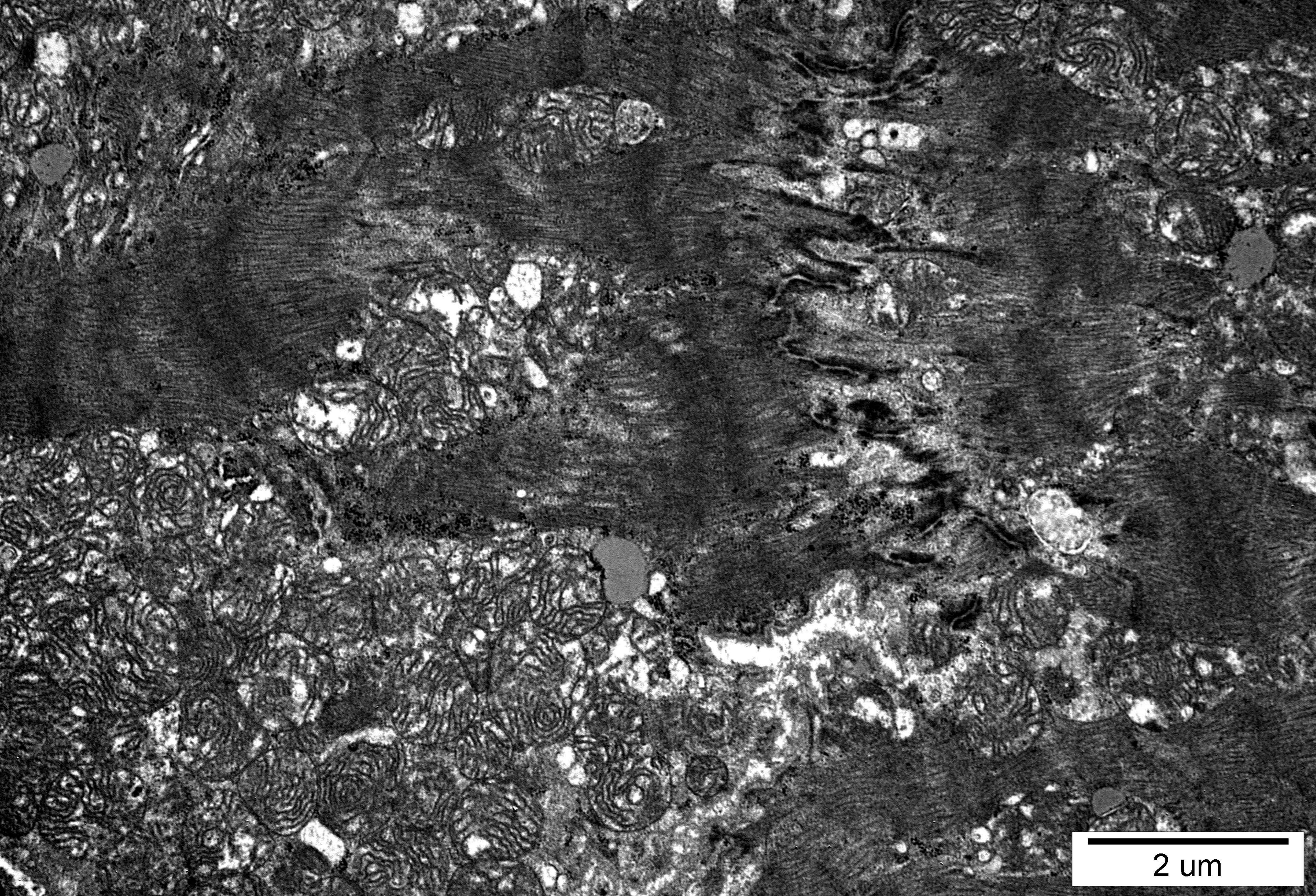
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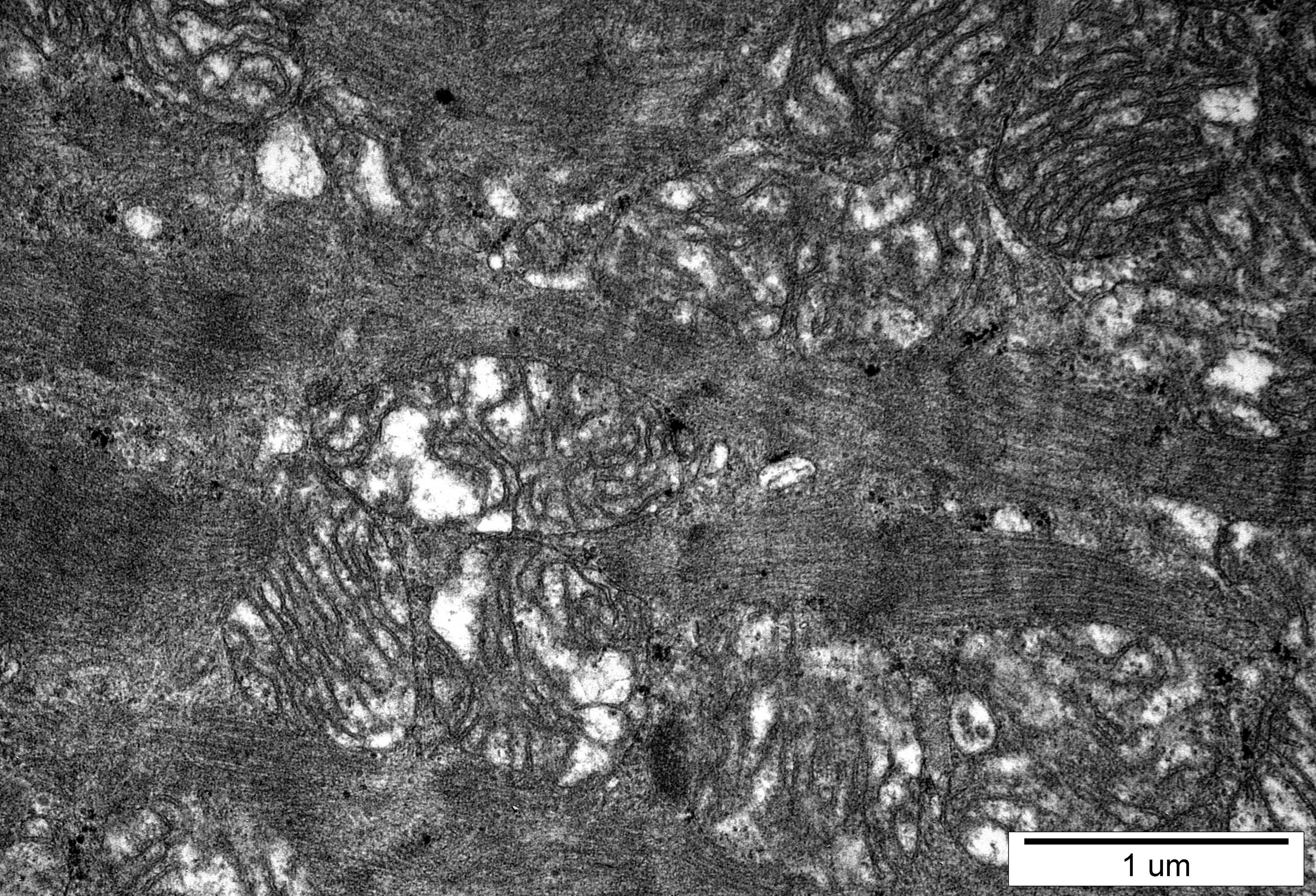
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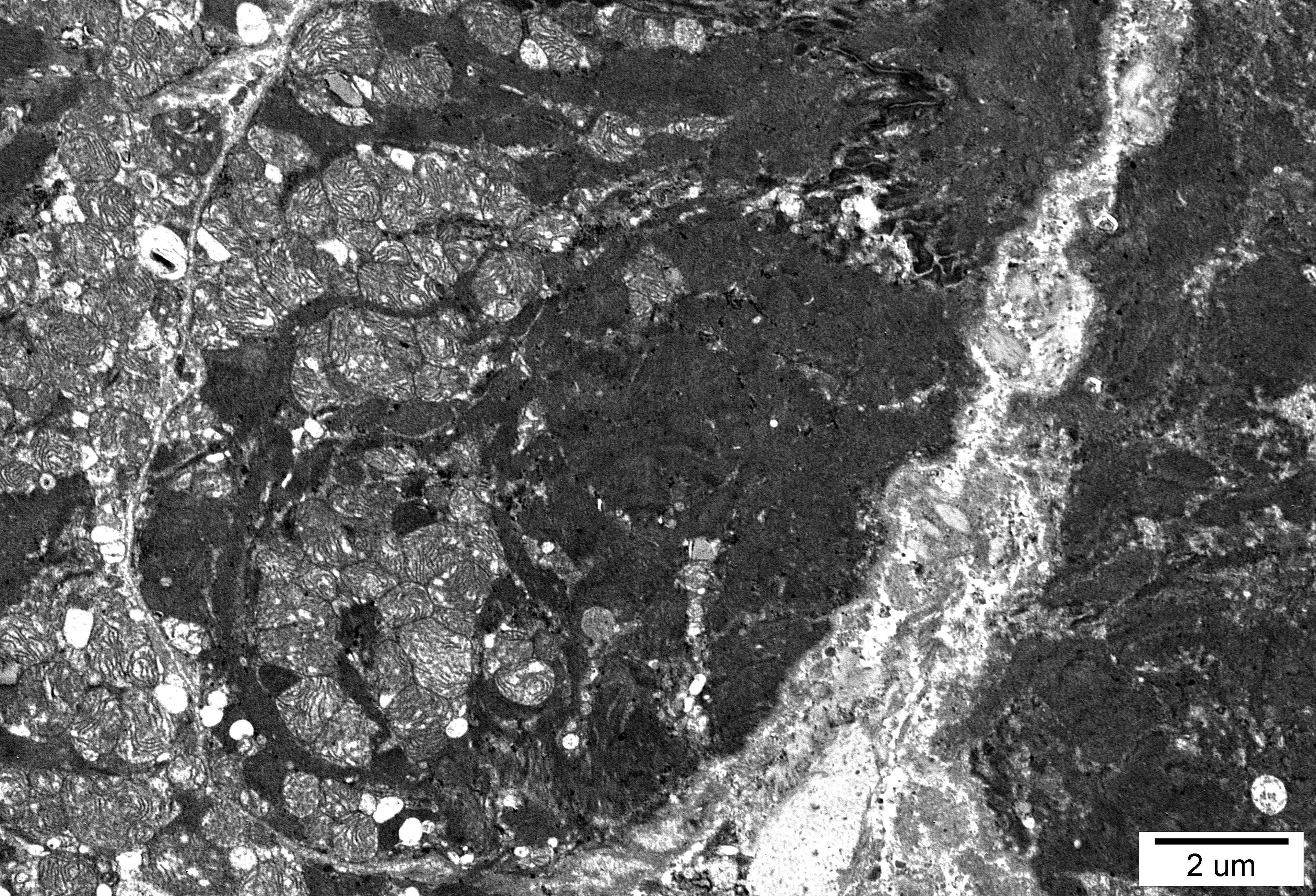
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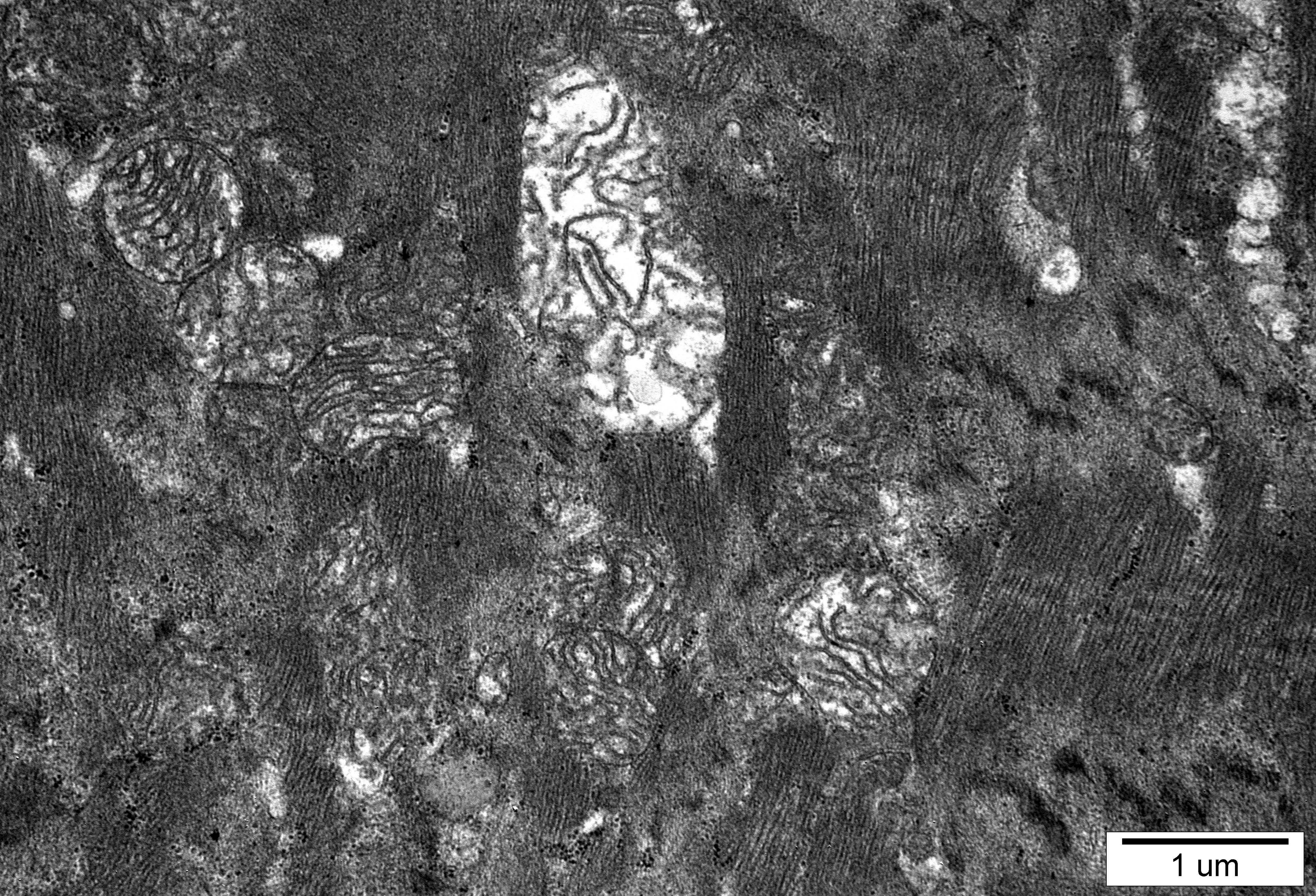
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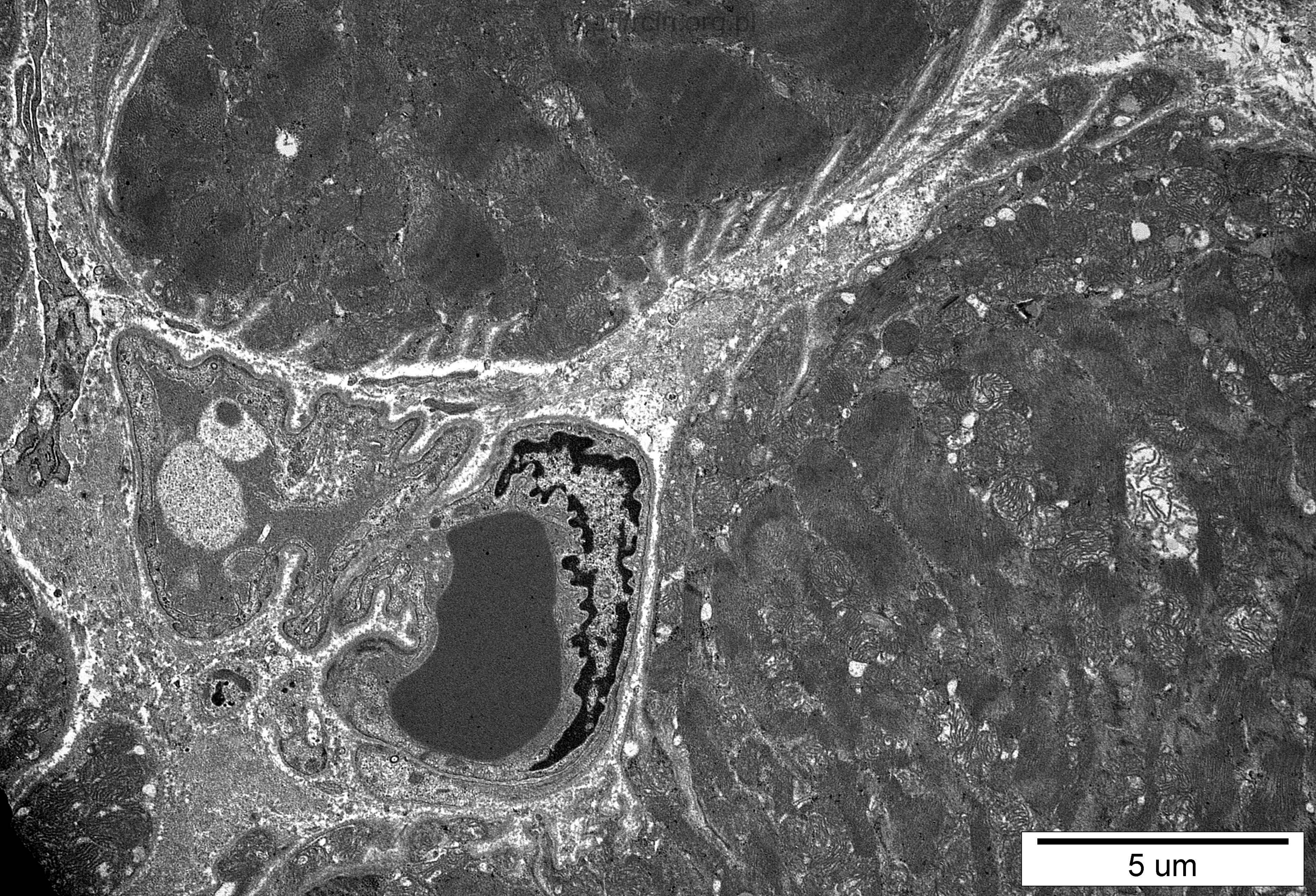
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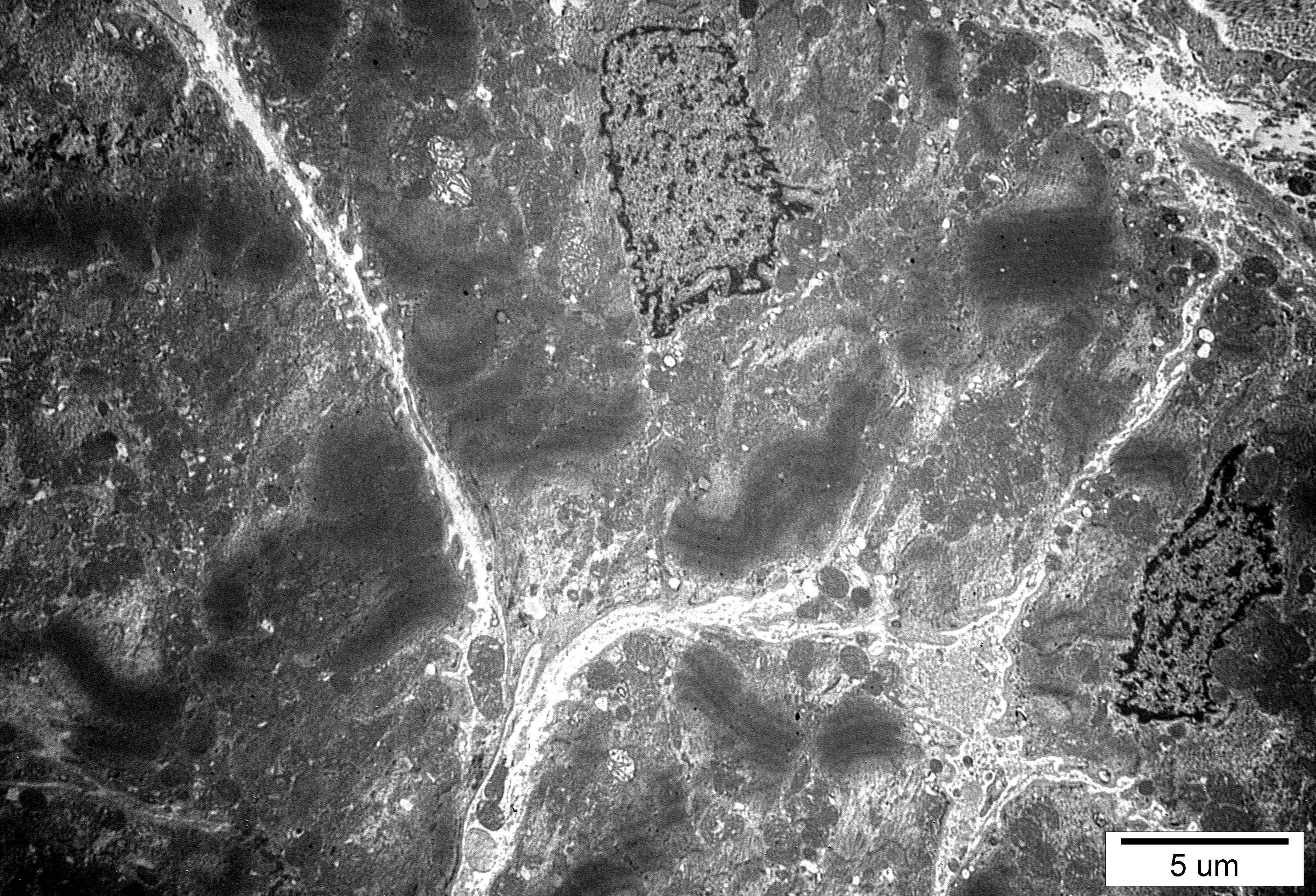
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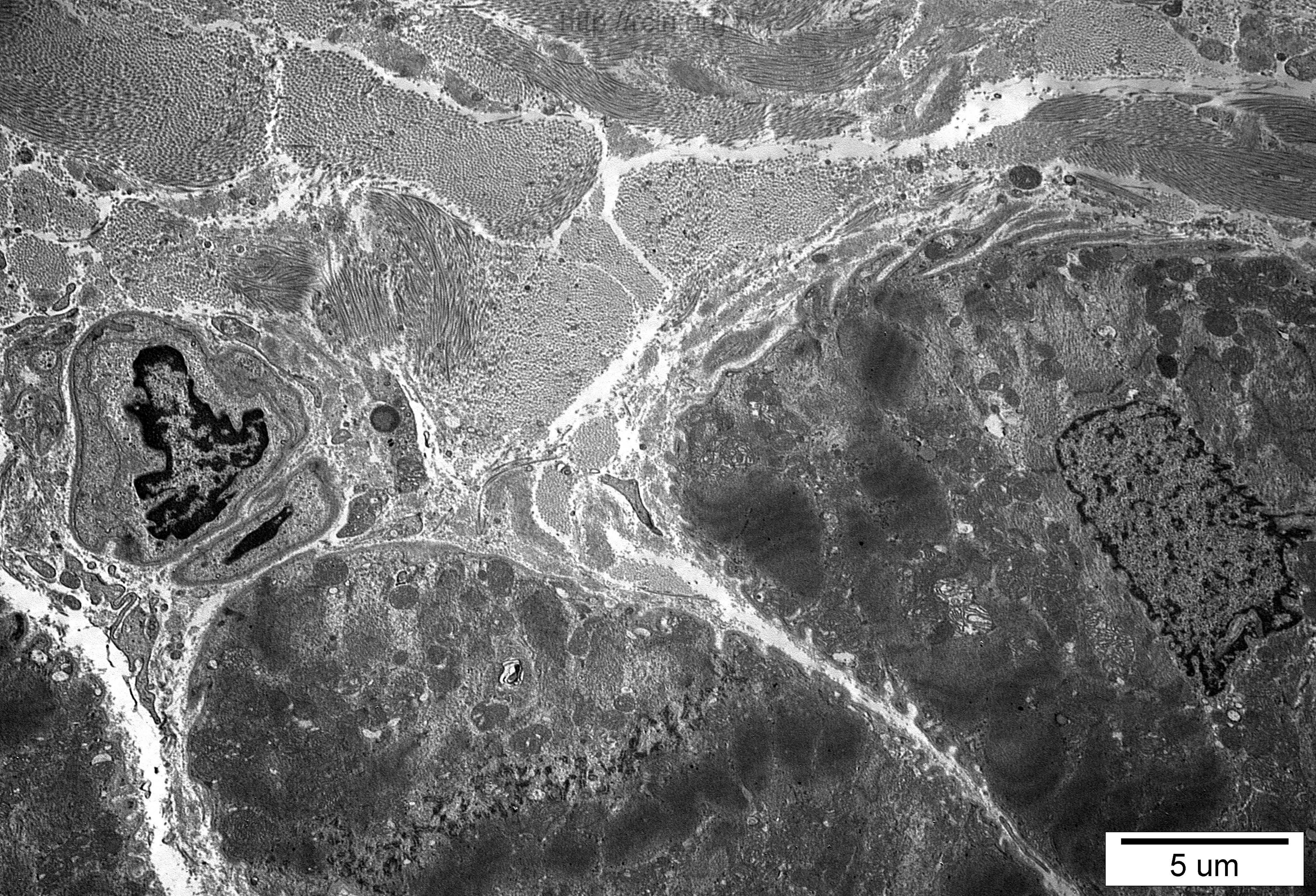
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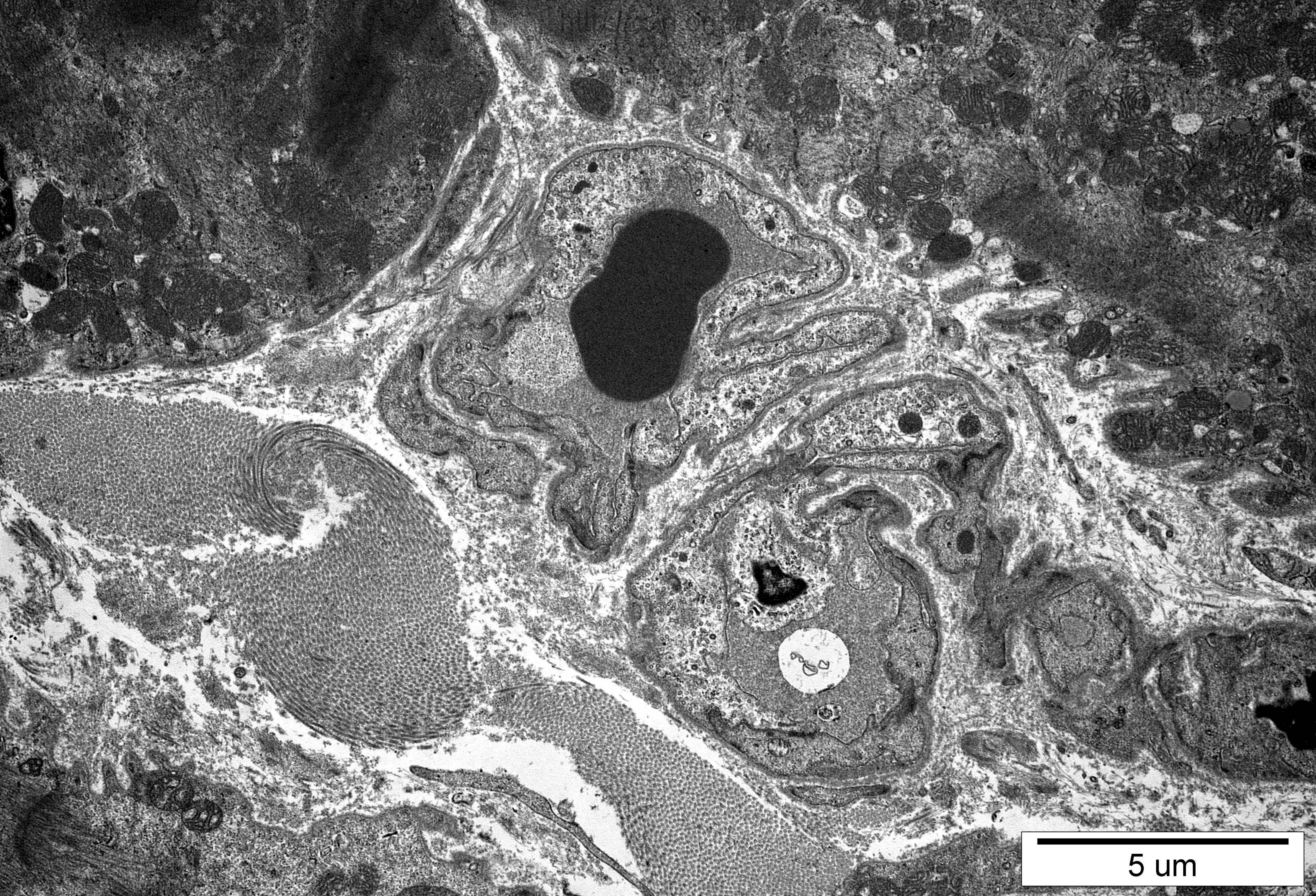
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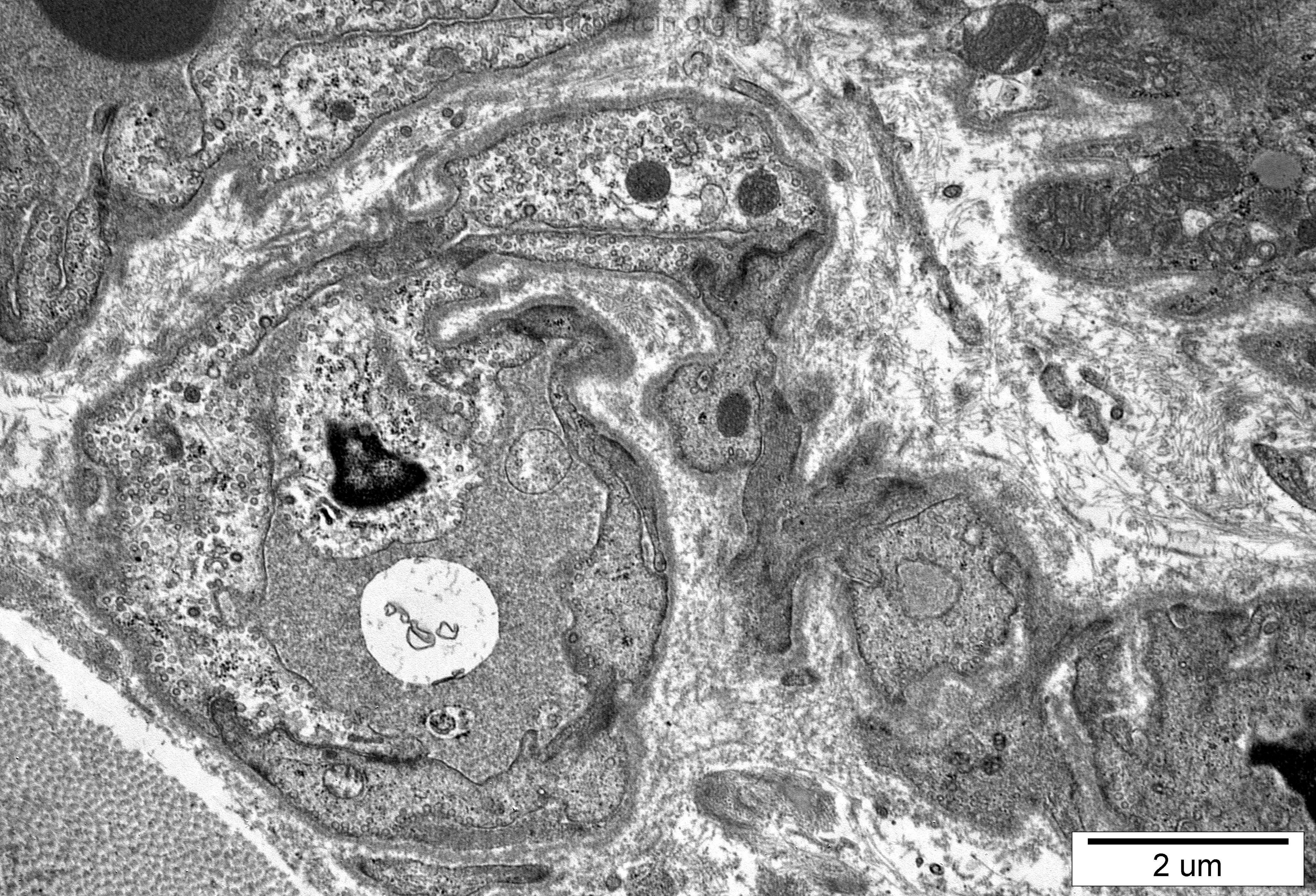
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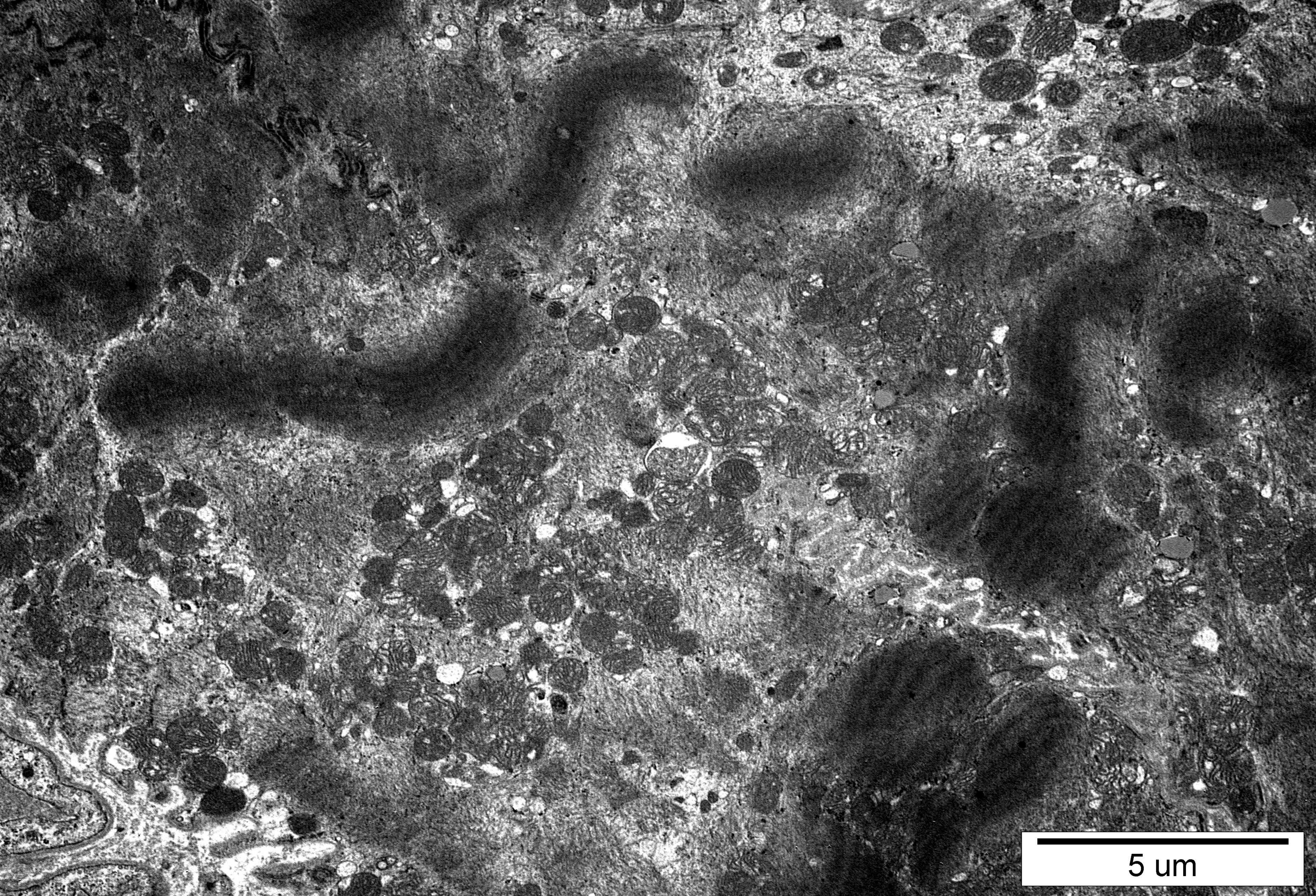
5 μ m



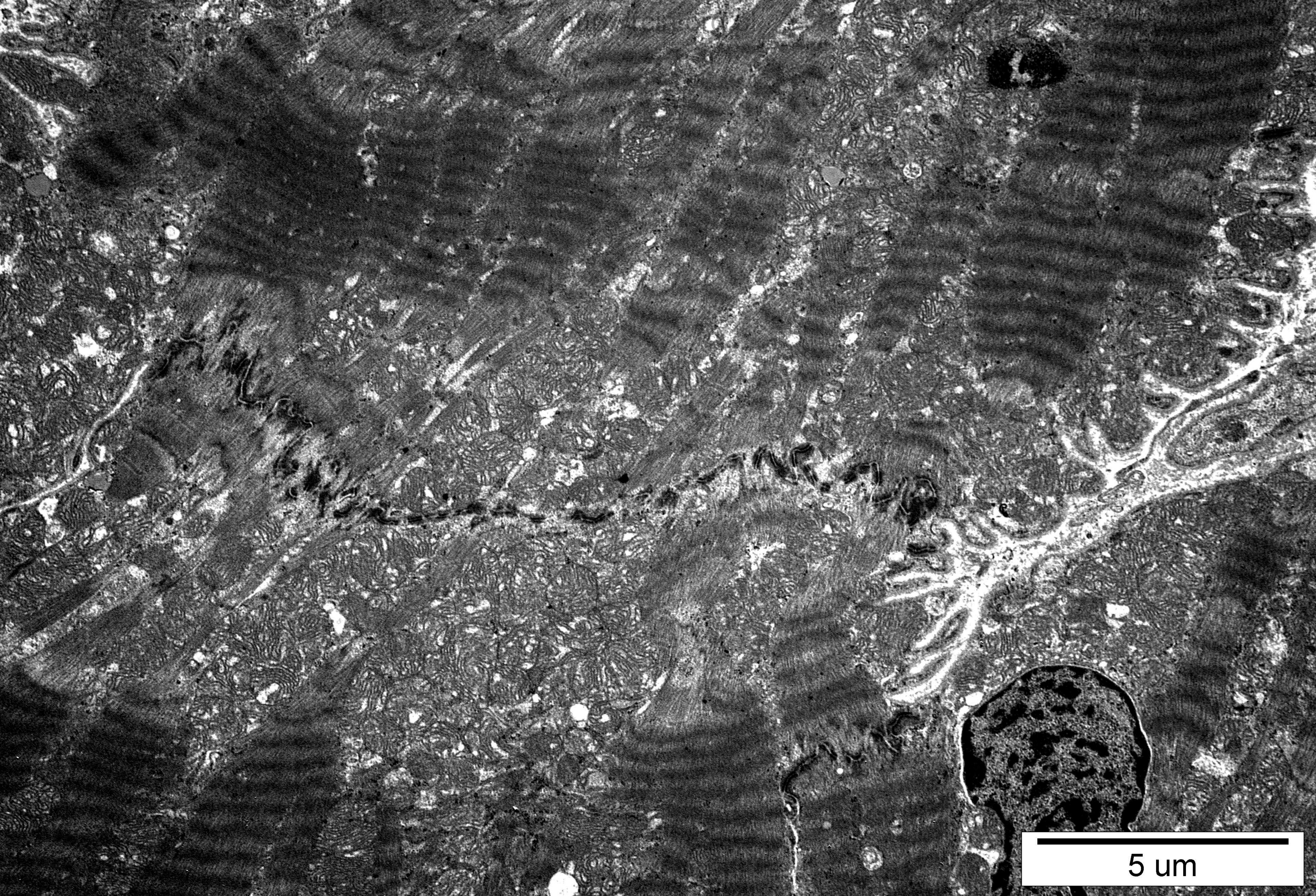
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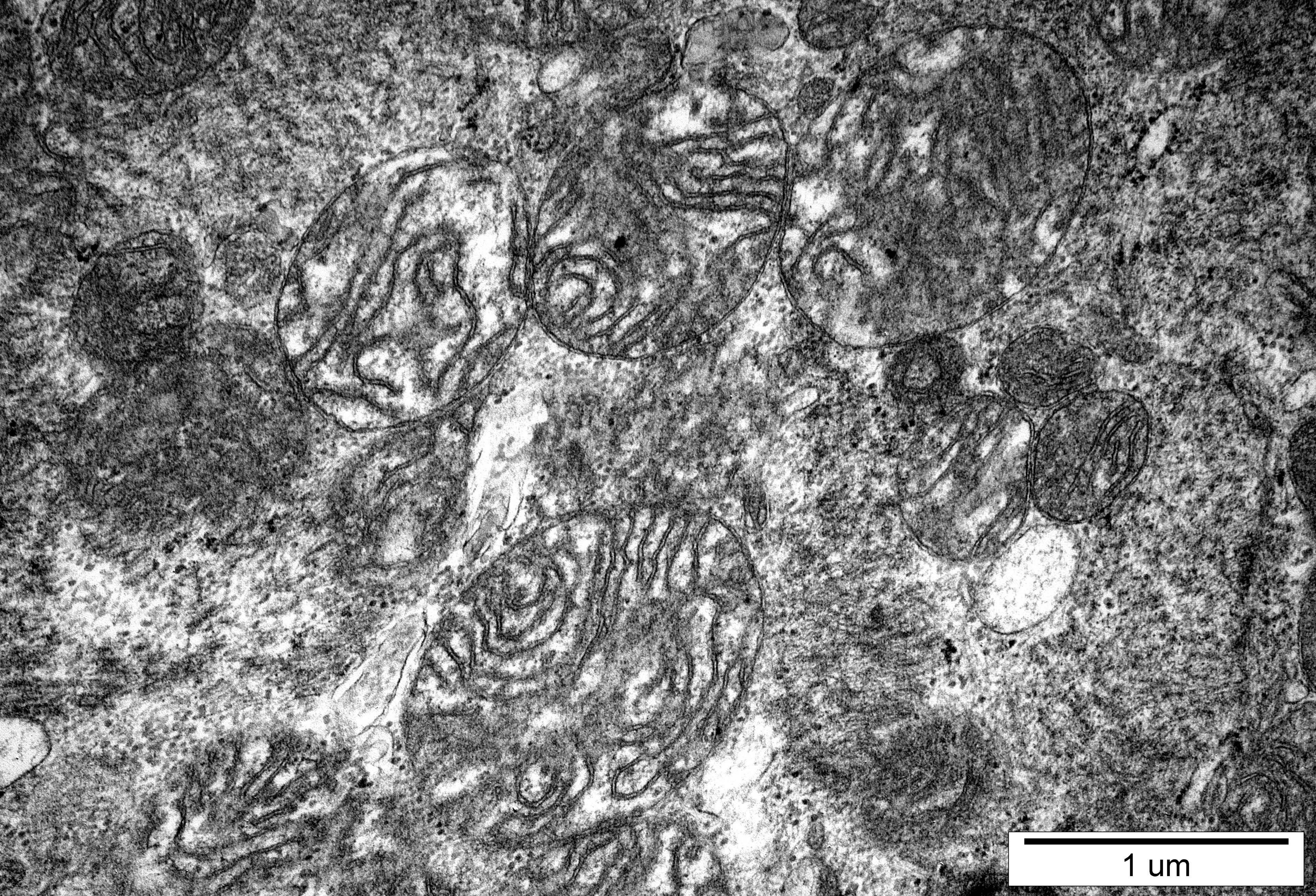
2 μm



5 μm



5 μm



1 μm

1877-8 serce

Ocena ultrastrukturalna wykazała zatarty wzór sarkomerów (Fig.1877-8-2, 8) oraz rozproszenie miofibryli (1877-8-6, 7). Widoczne były wstawki (intercalated discs) o prawidłowym przebiegu (Fig. 1877-8-4, 19, 20, 31). Jądra komórkowe prawidłowe, położone ośrodkowo (Fig. 1877-8-1, 6, 10, 15, 26), nieliczne charakteryzowały się mocno pofałdowaną błoną jądrową (Fig. 1877-8-17). W pobliżu jąder widoczne były średnio liczne lipofuscyny (Fig. 1877-8-3, 14). Obserwowano mitochondria o ciemnej elektronowo macierzy (Fig. 1877-8-12, 16), a wiele wykazywało znaczne uszkodzenia grzebieni (Fig.1877-8-18, 22, 24, 32). W przestrzeni pozakomórkowej występowała bardzo obfita tkanka włóknista (Fig. 1877-8-11, 13, 27) oraz liczne naczynia kapilarne, z których część charakteryzowała się śródbłonkiem o cechach nekrozy (Fig.1877-8-28, 29).

Ultrastructural evaluation revealed blurred sarcomeres pattern (Figs.1877-8-2,8) and scattered myofibrils (Figs. 1877-8-6,7). Unaltered morphologically intercalated discs were visible (Figs.1877-8-4,19,20,31). Normal, centrally located cell nuclei were observed (Figs. 1877-8-1,6,10,15,26), a few were characterized by a strongly undulating nuclear membrane (Fig. 1877-8-17). Lipofuscin deposits were seen in the region of cardiomyocytes nuclei (Figs. 1877-8-3,14). Some mitochondria with electron-dark matrix were observed (Figs. 1877-8-12,16), and many characterised by significant cristae damage or loss were seen (Figs.1877-8-18,22,24,32). In the extracellular space, there was very abundant fibrous tissue (Figs.1877-8-11,13,27) and numerous capillaries, some of which were characterized by endothelium with features of necrosis (Figs.1877-8-28,29).