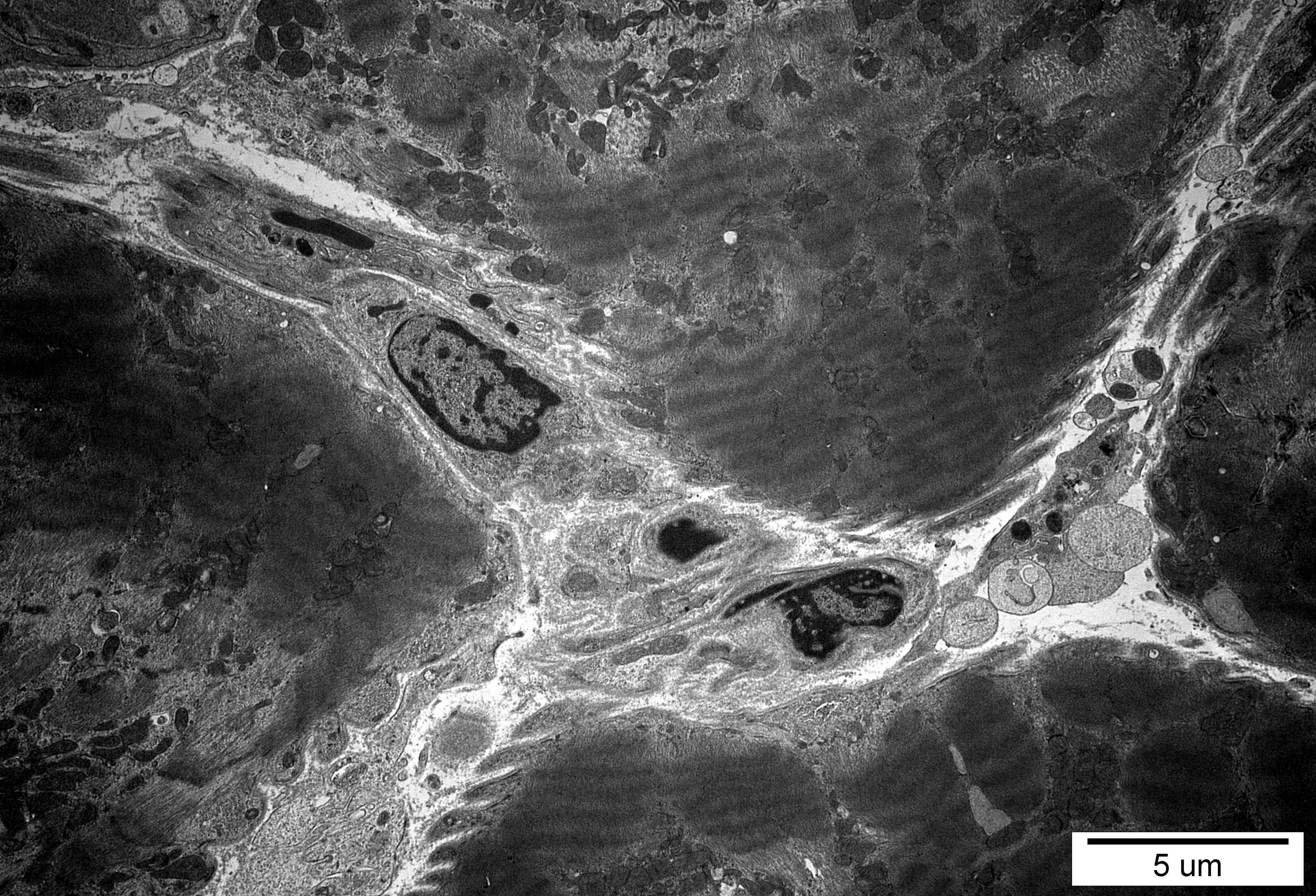


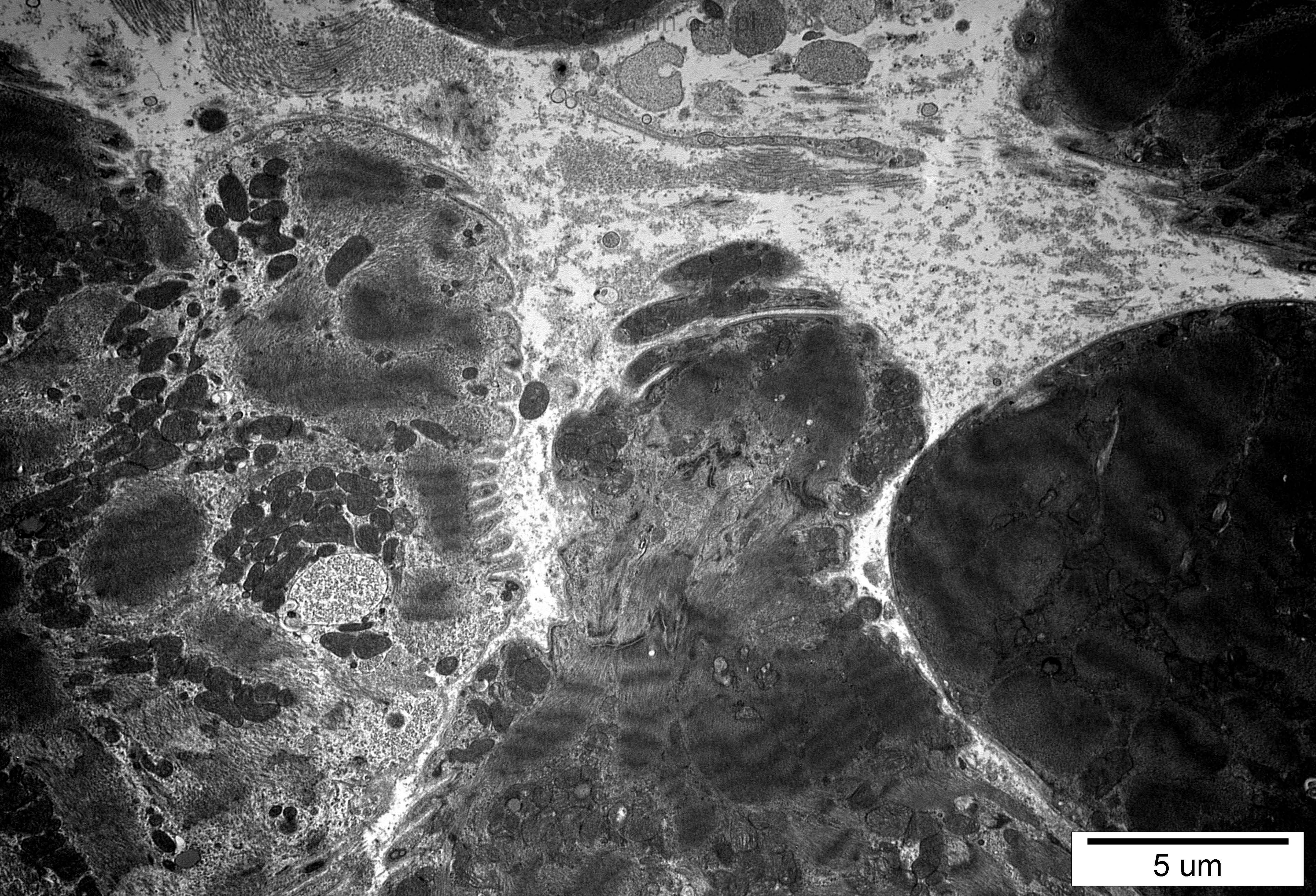
5 um





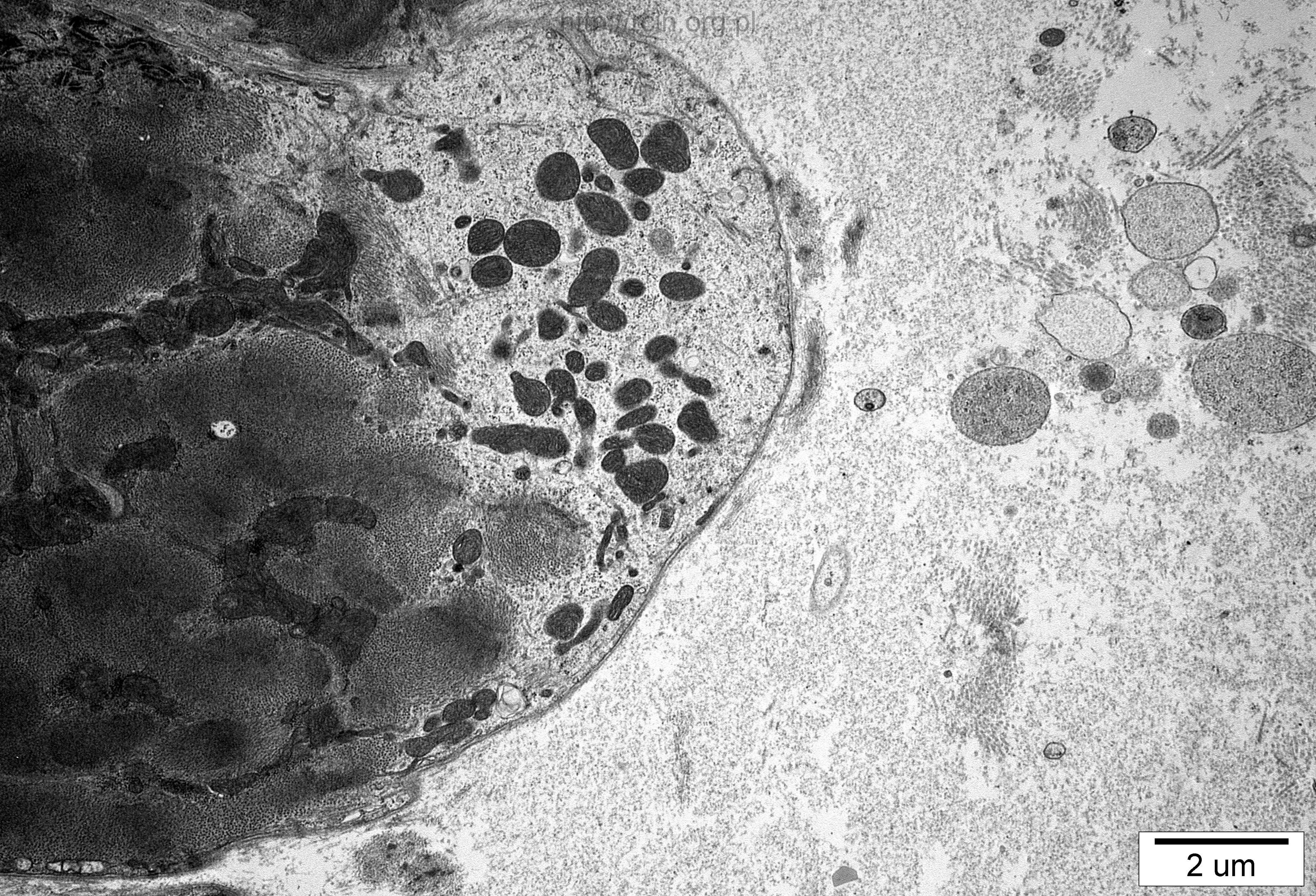
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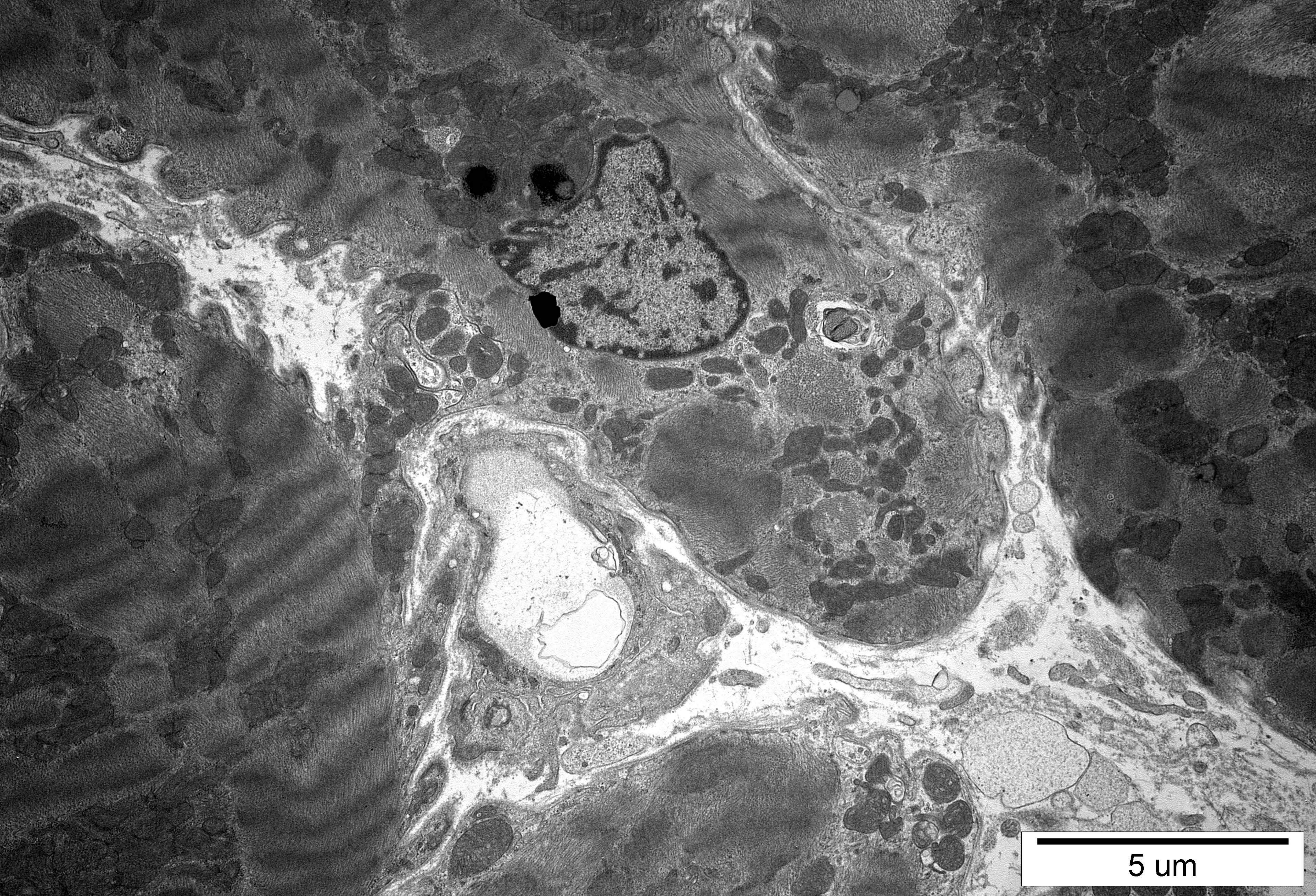
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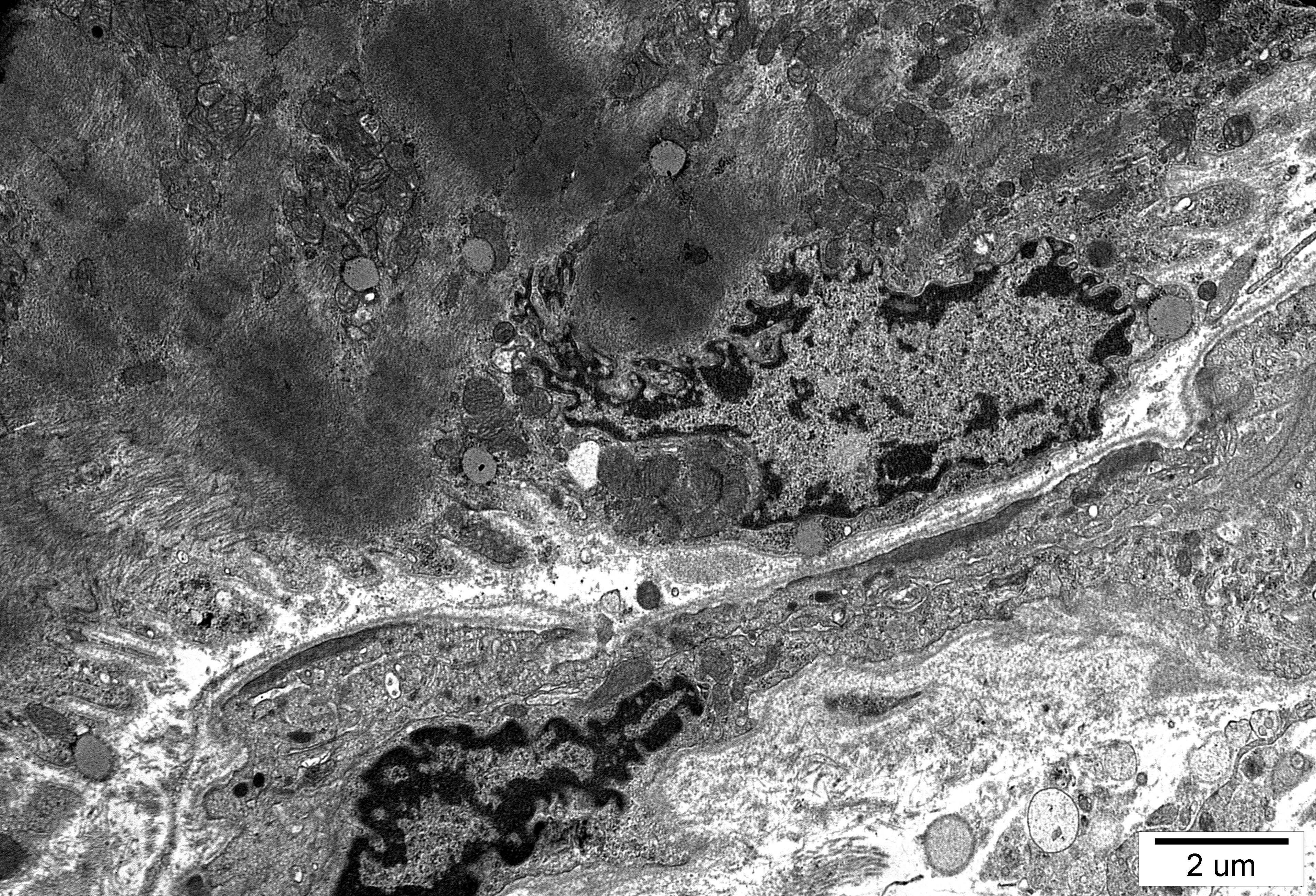
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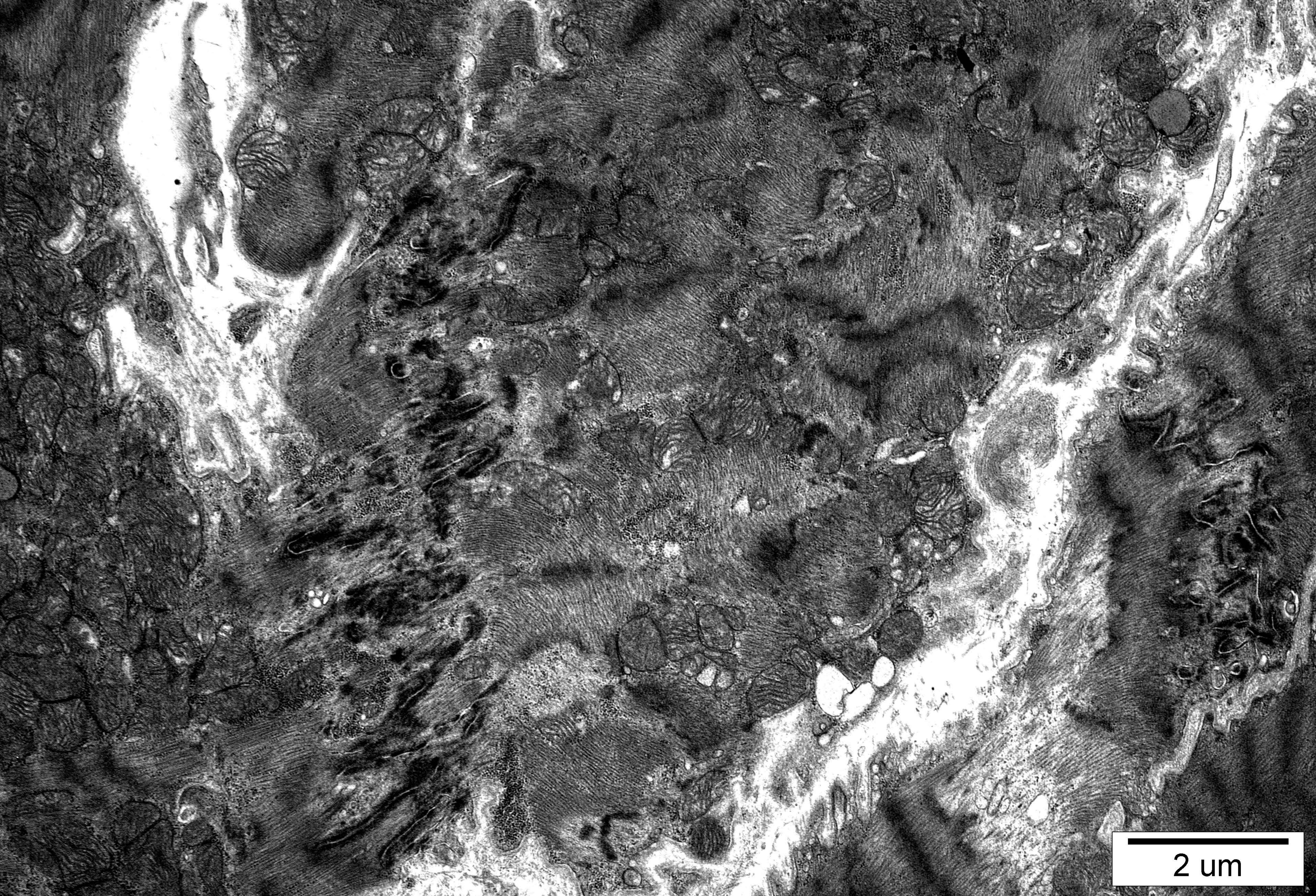
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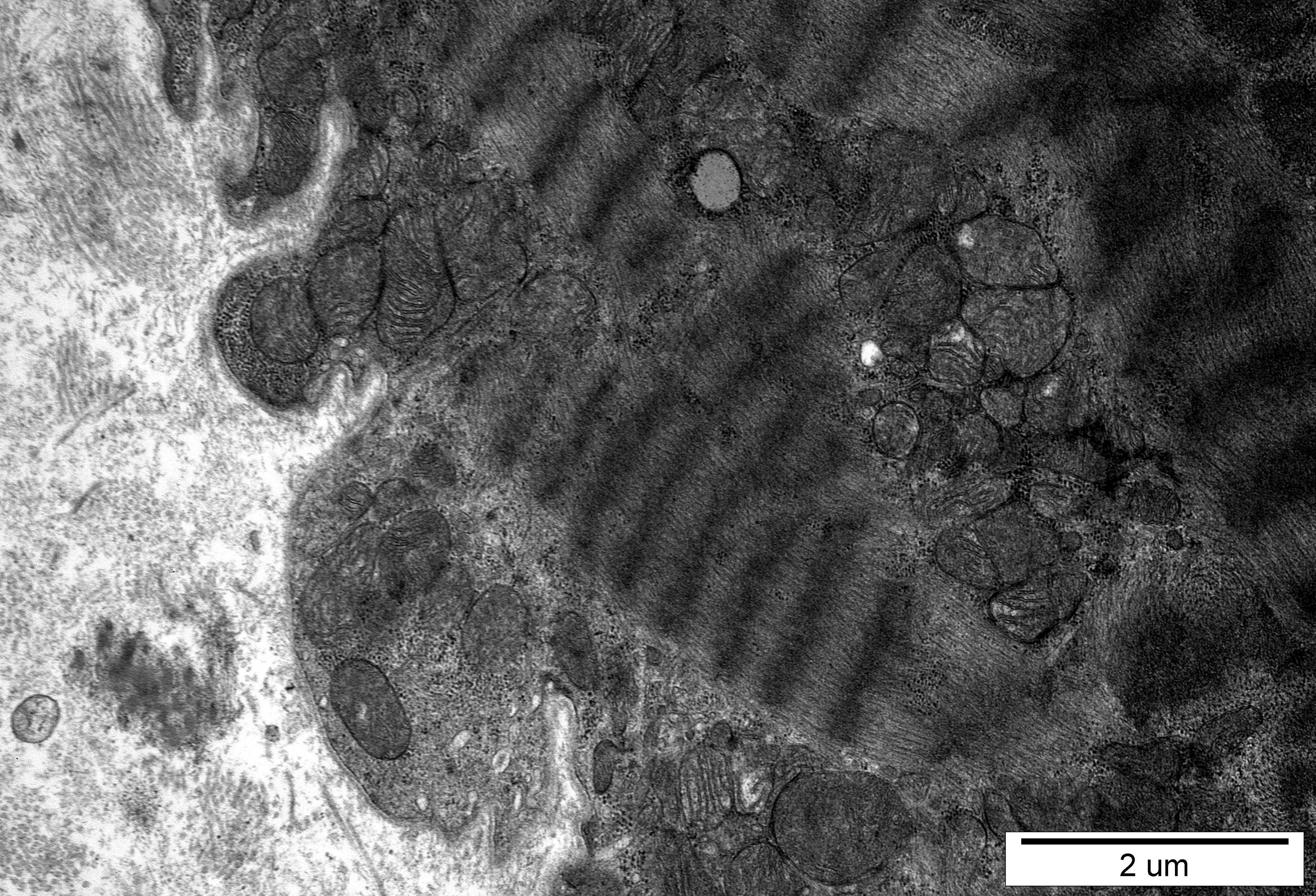
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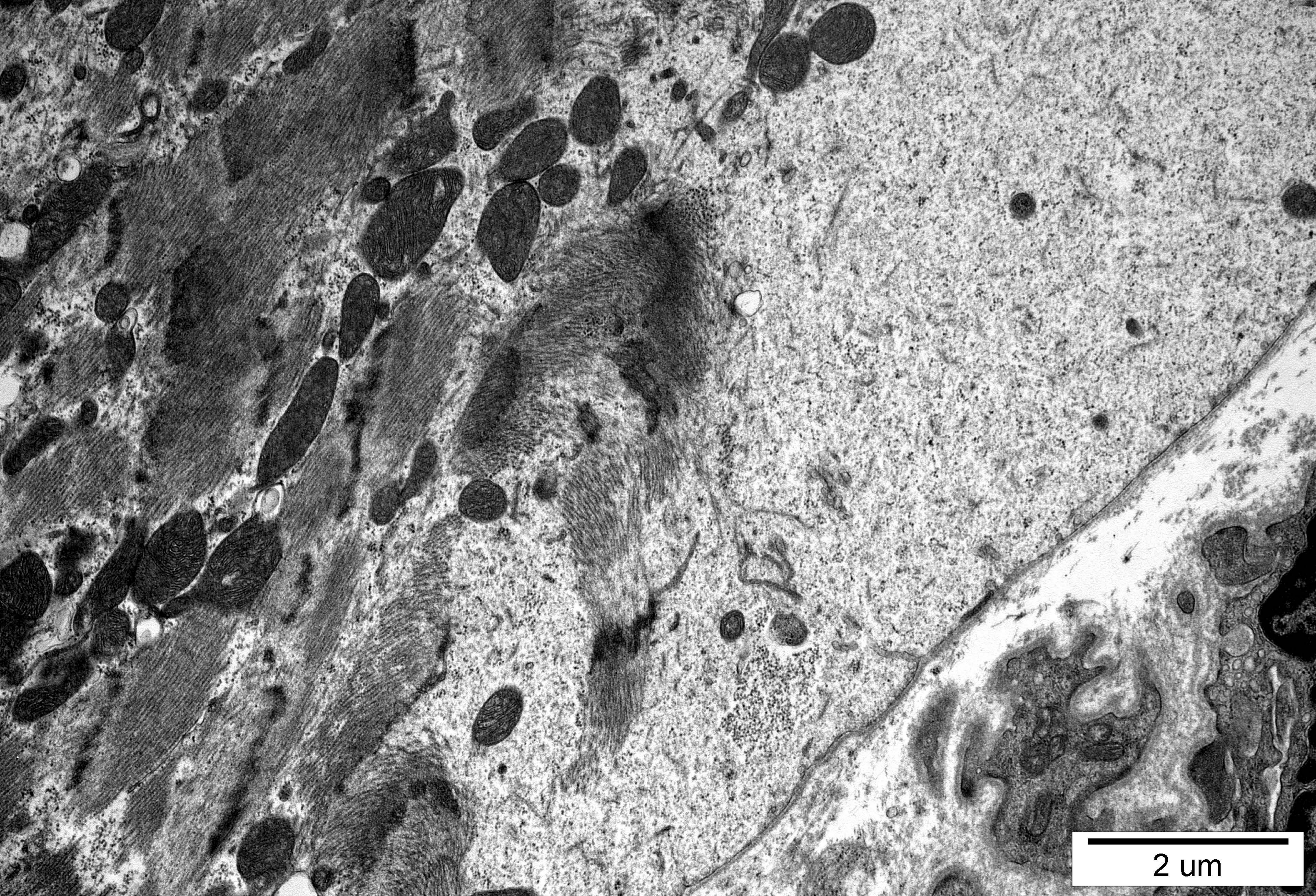
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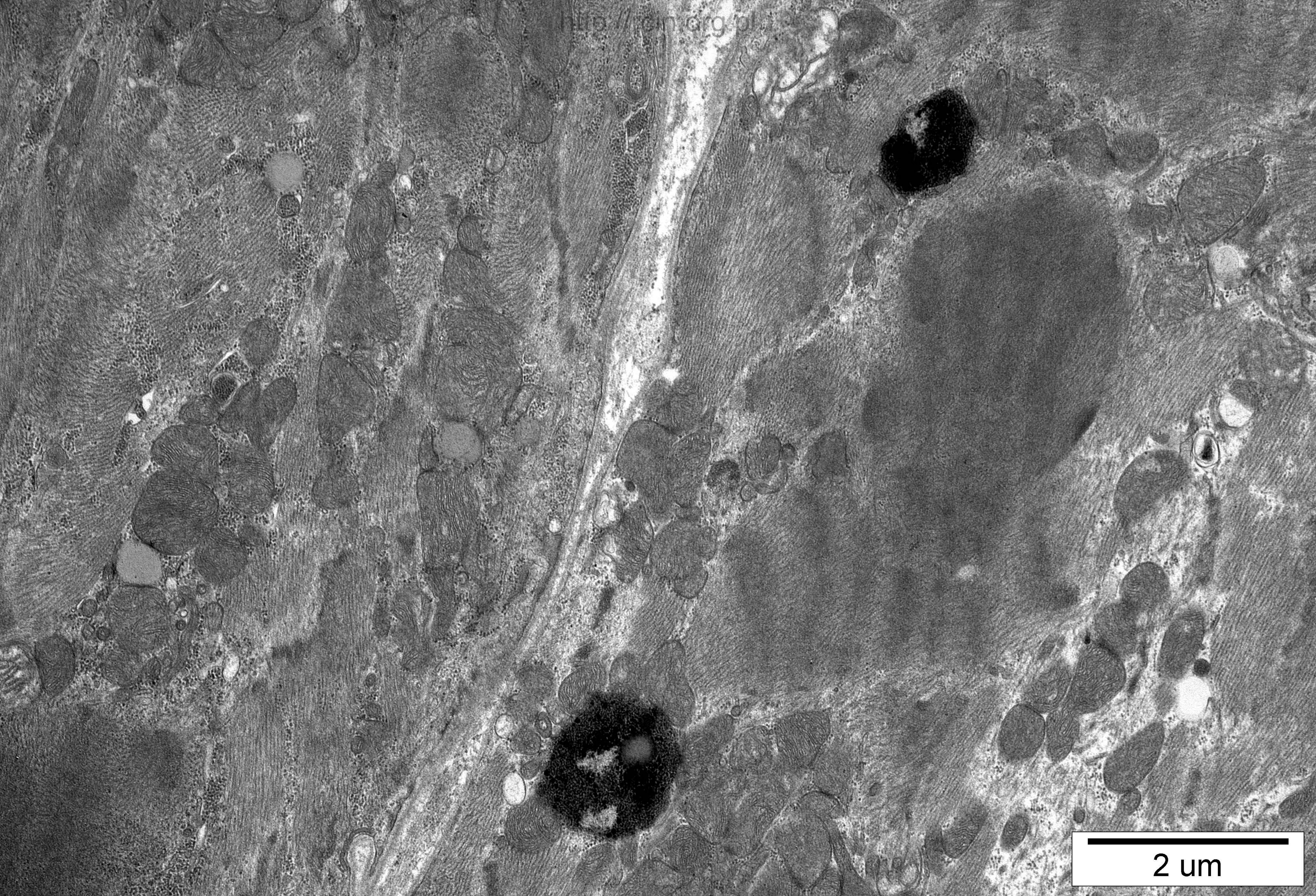
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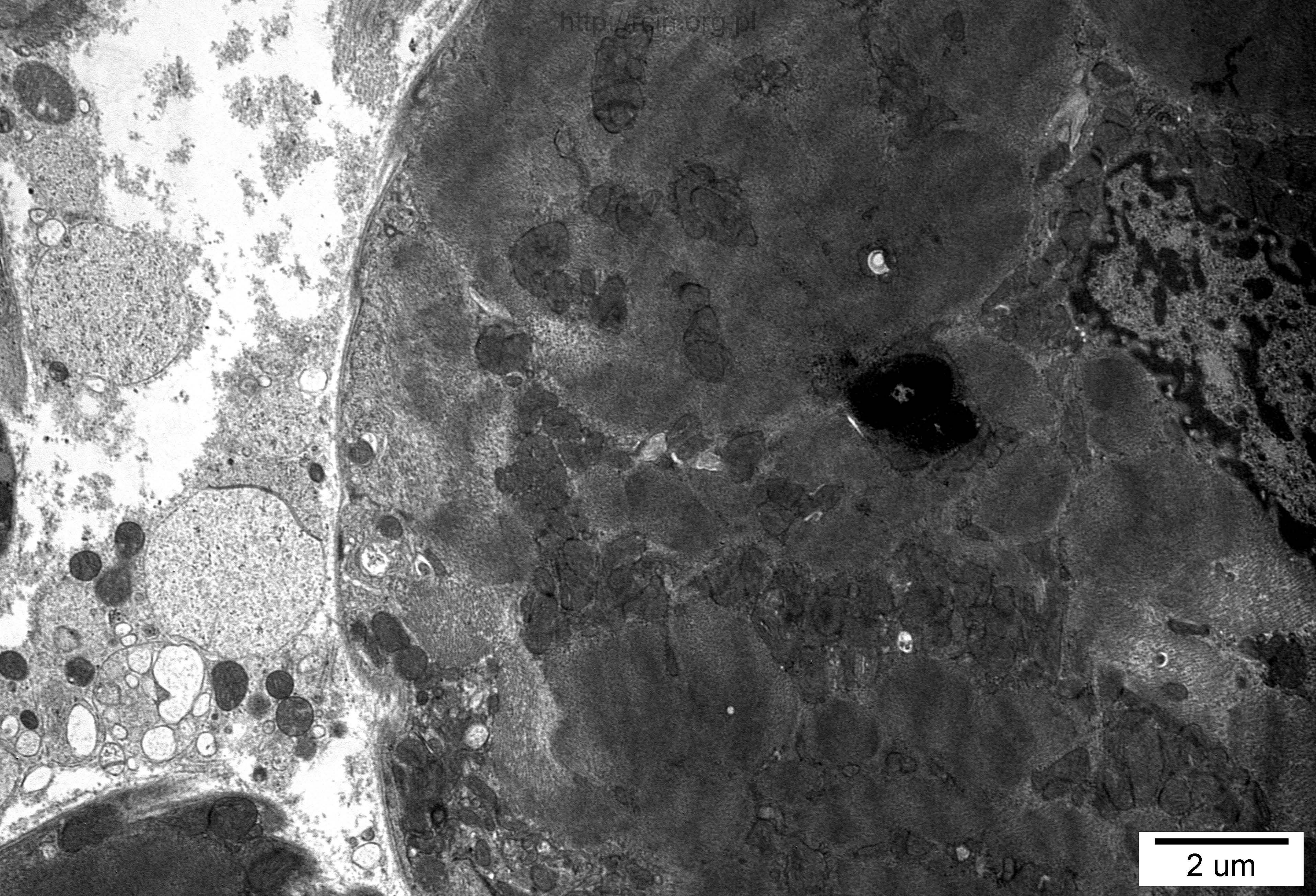
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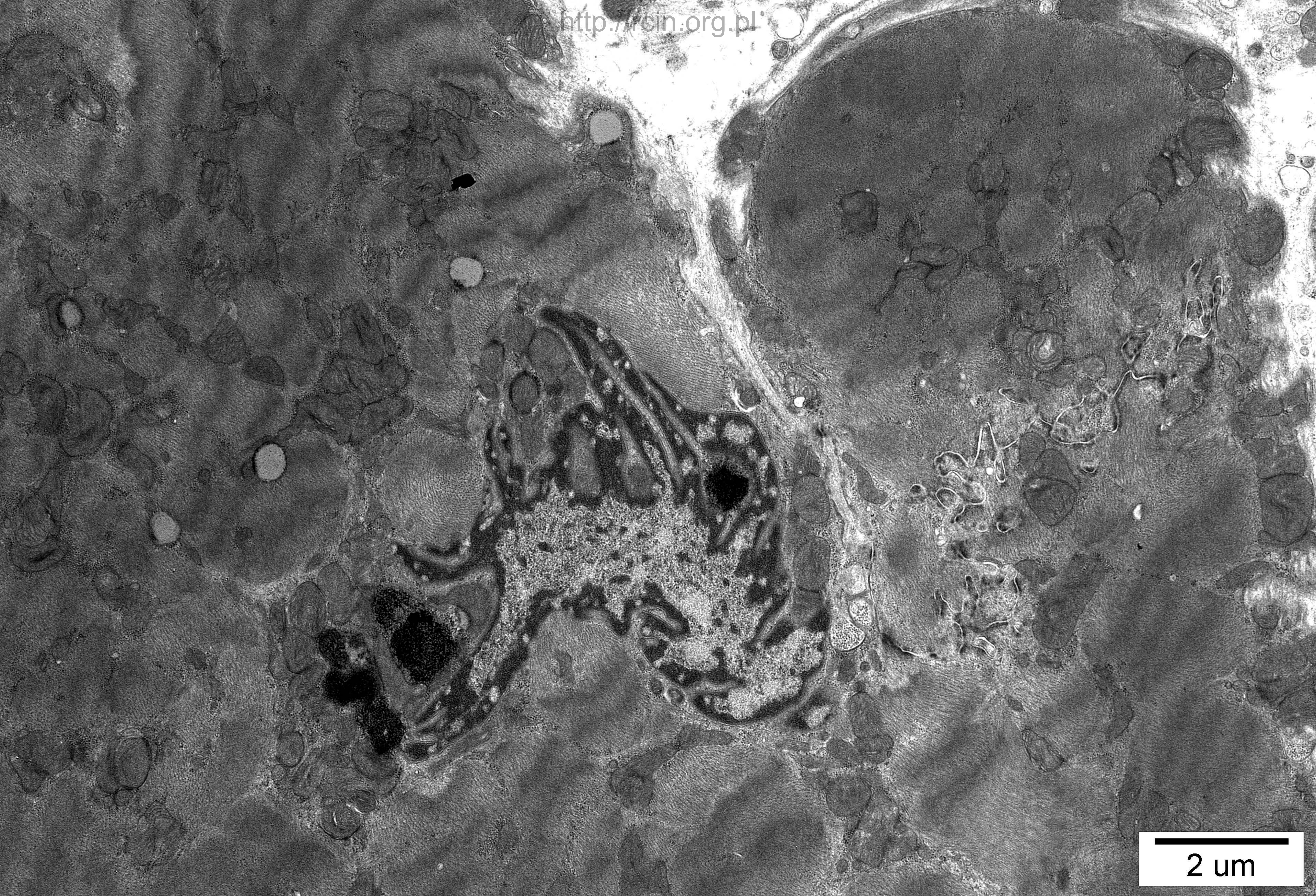
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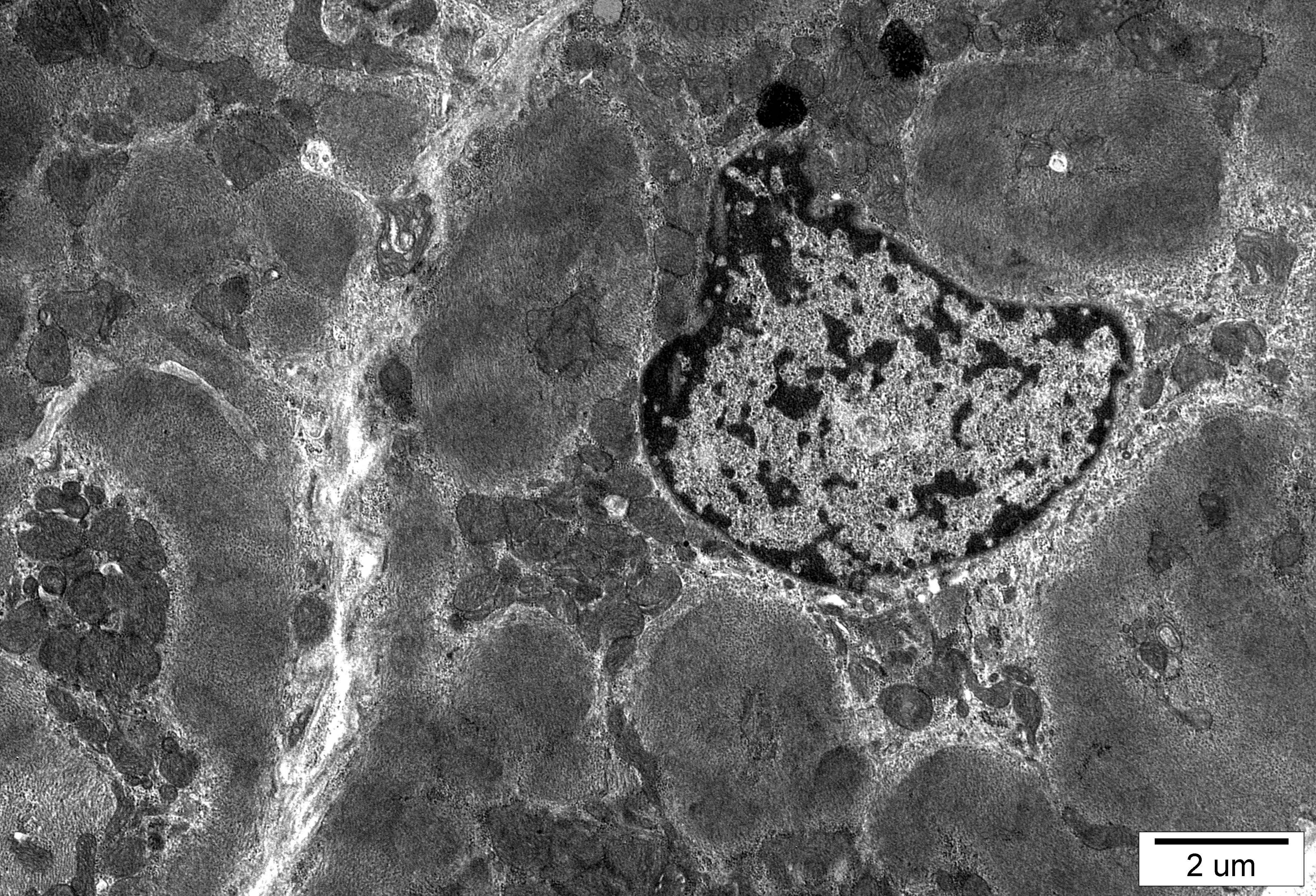
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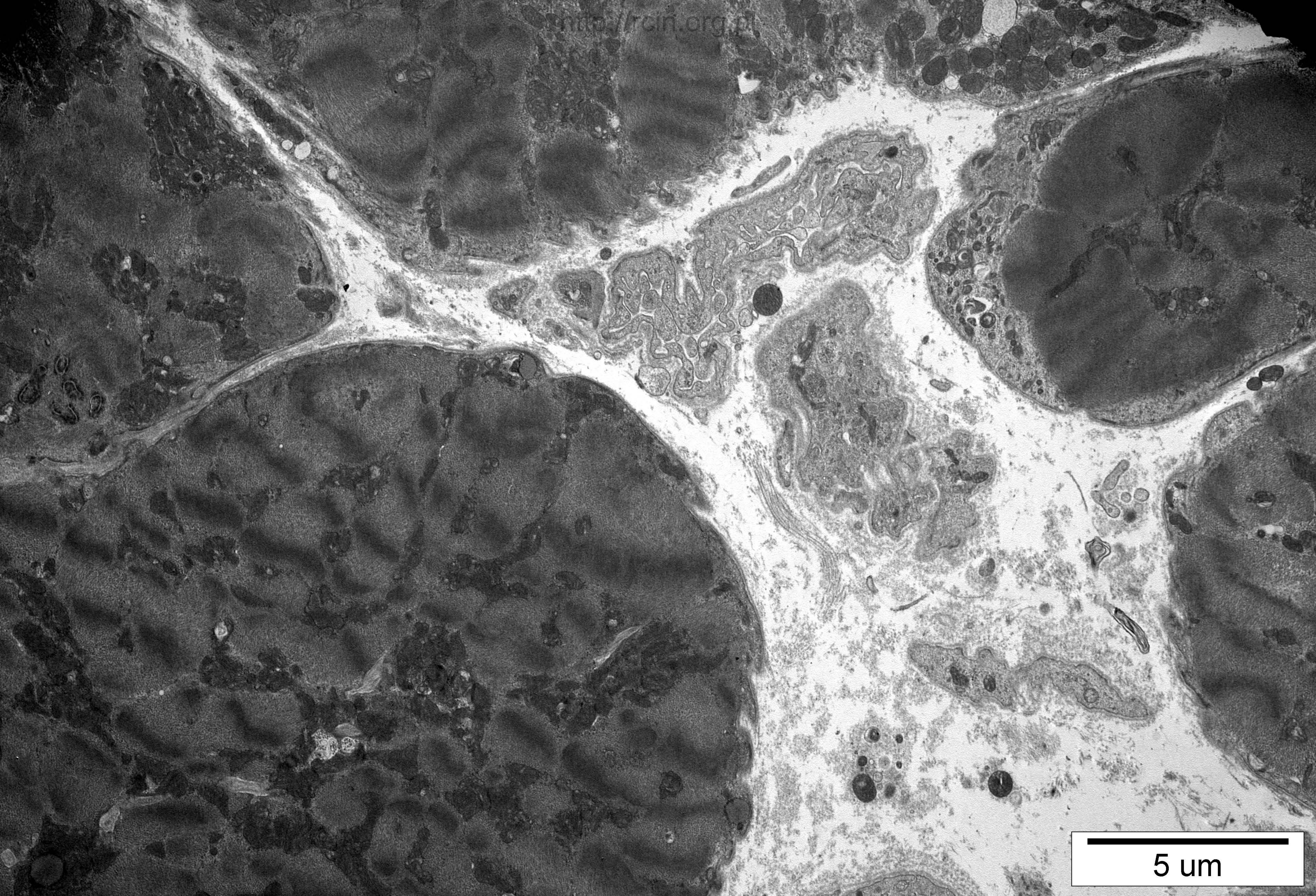
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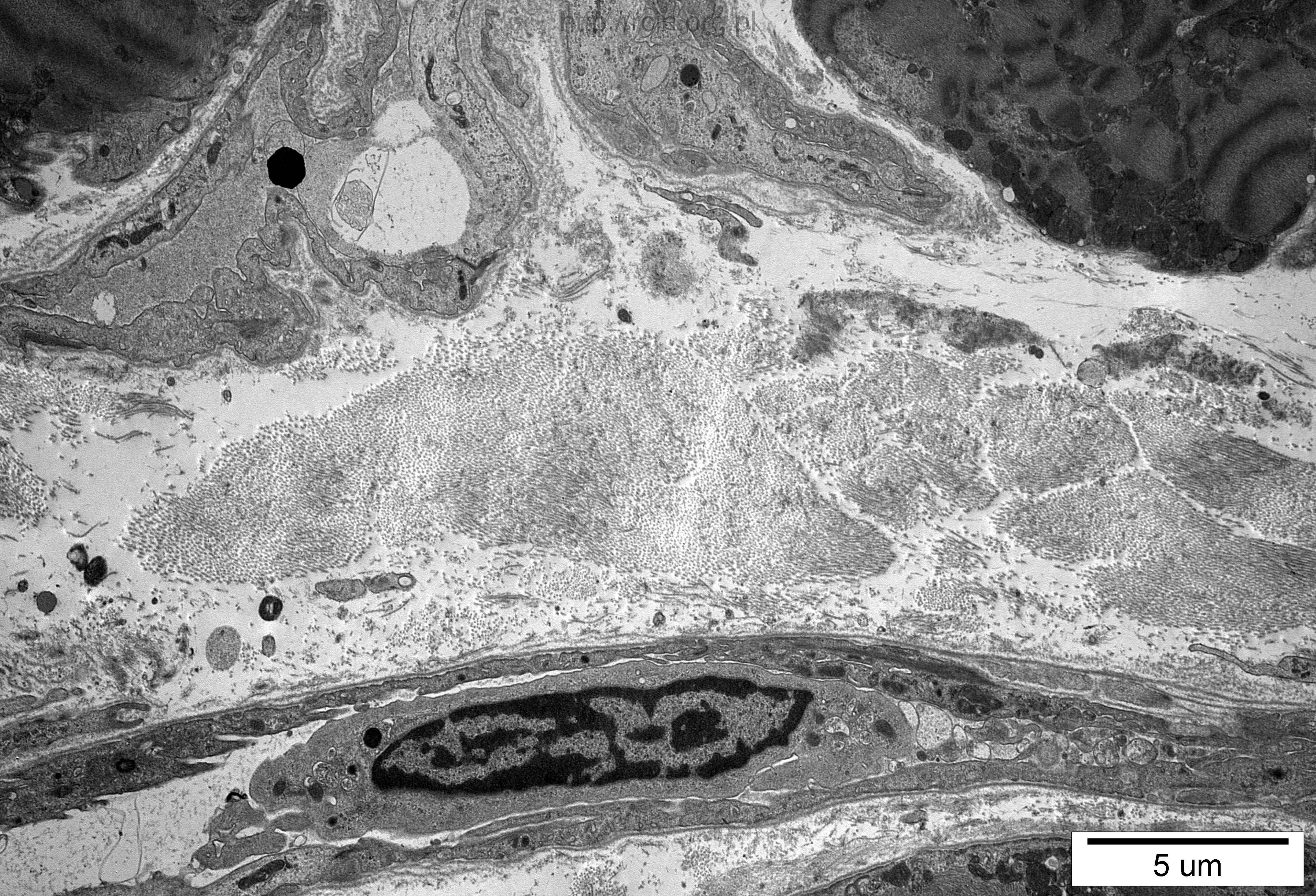
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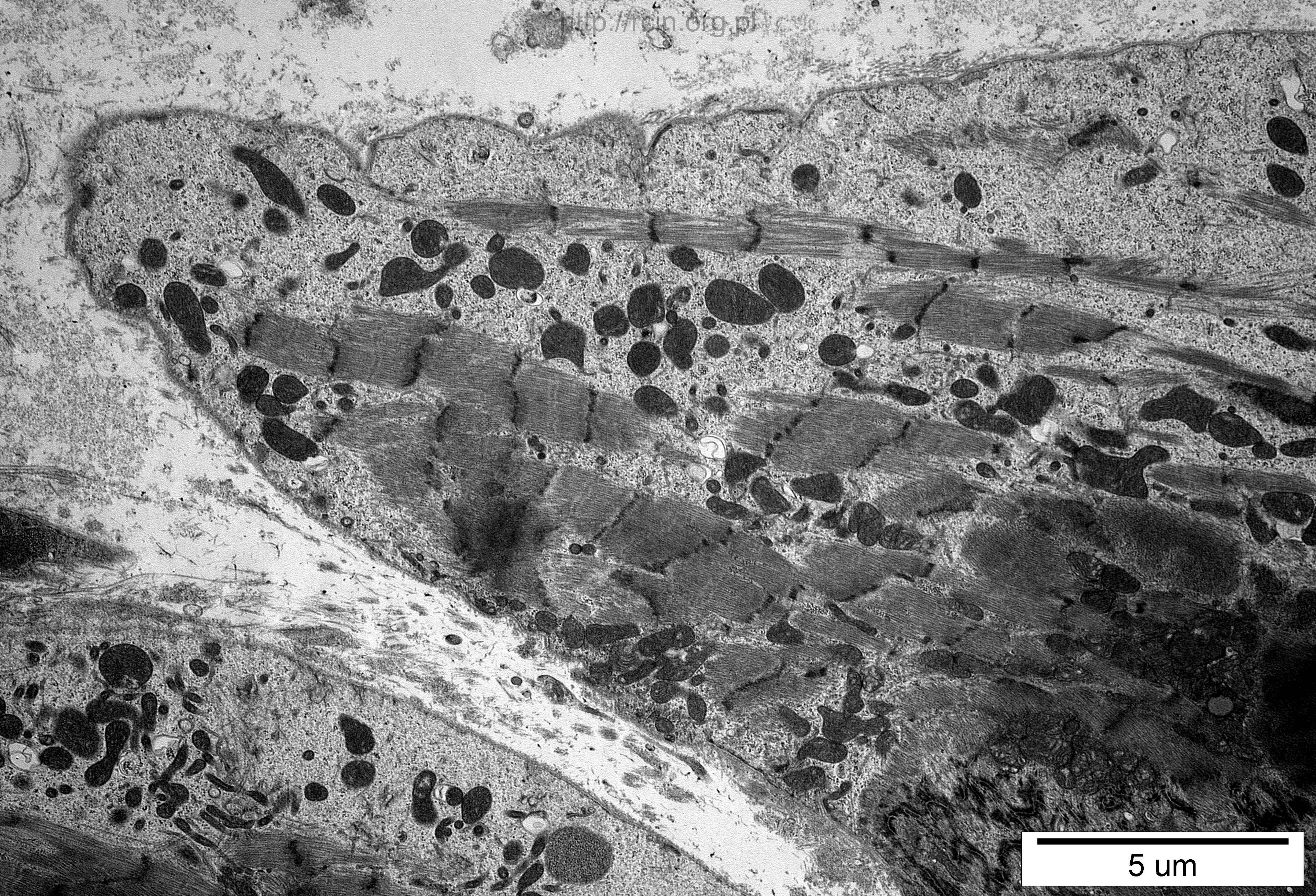
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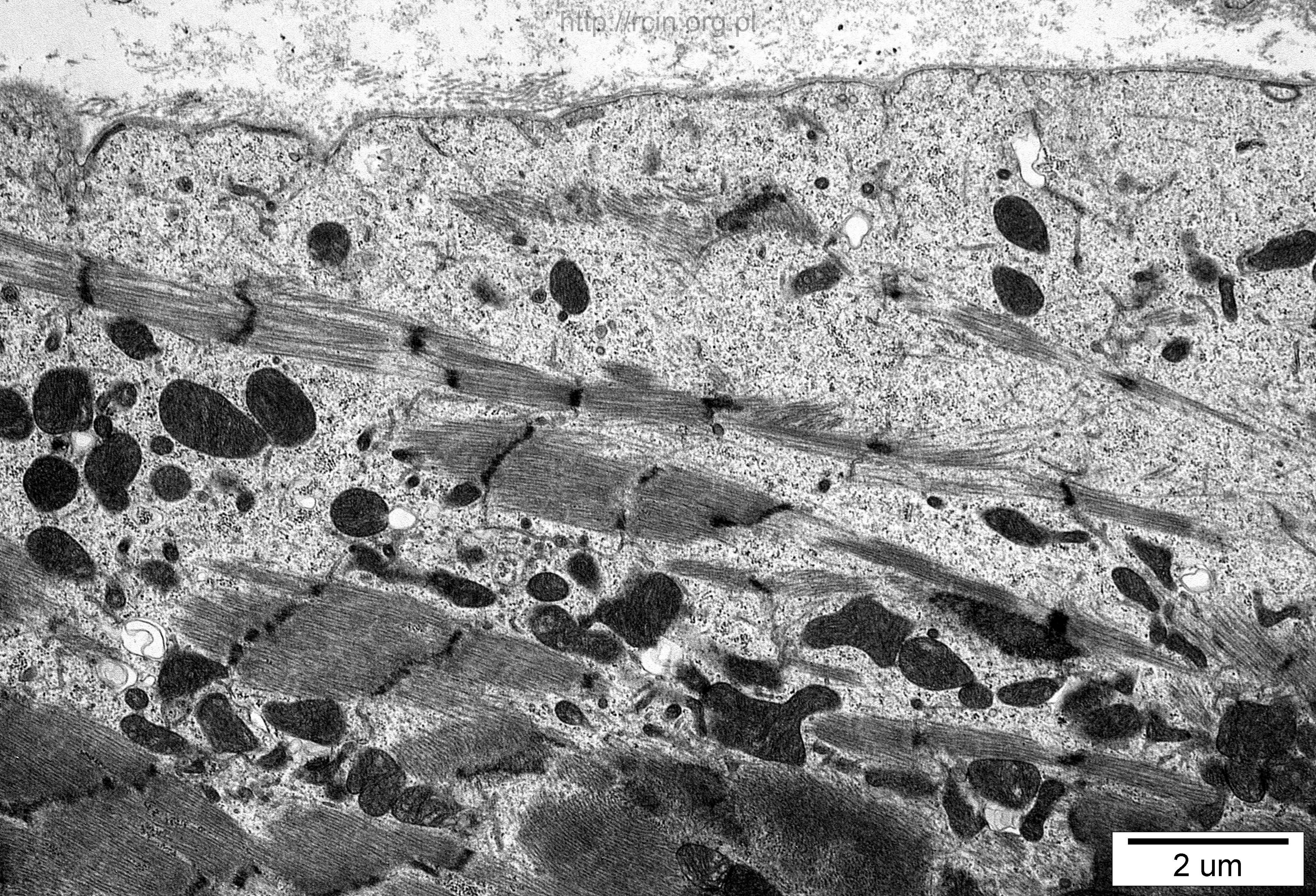
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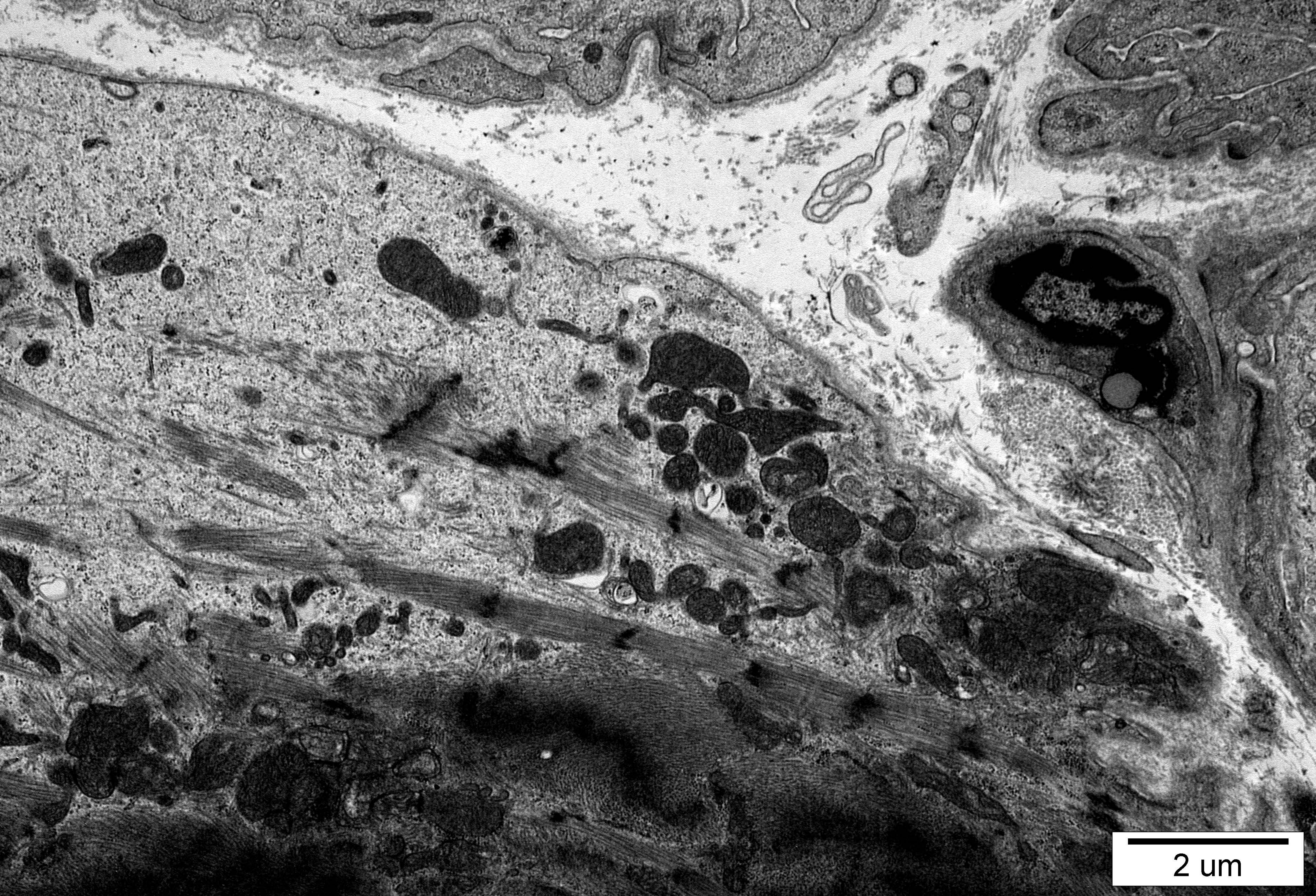
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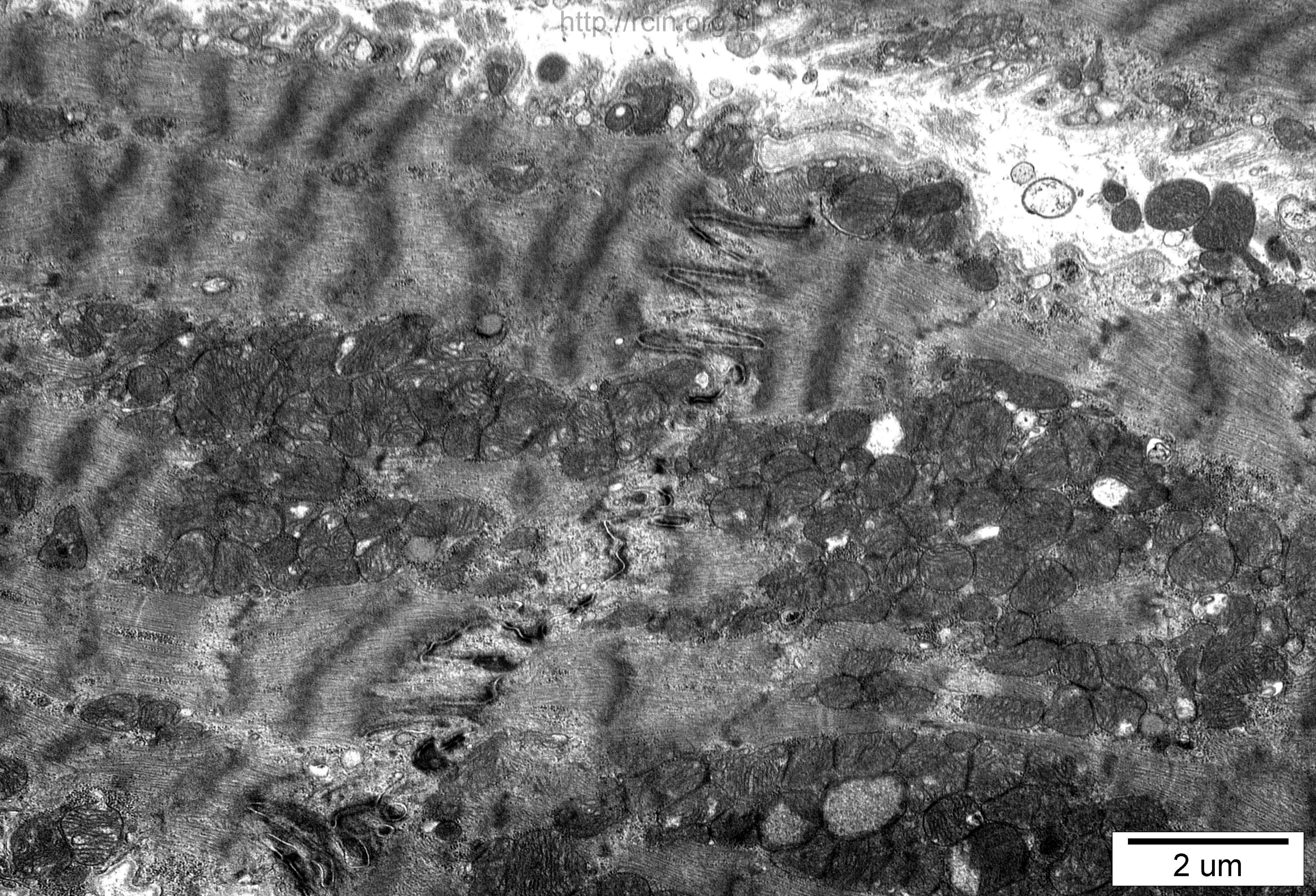
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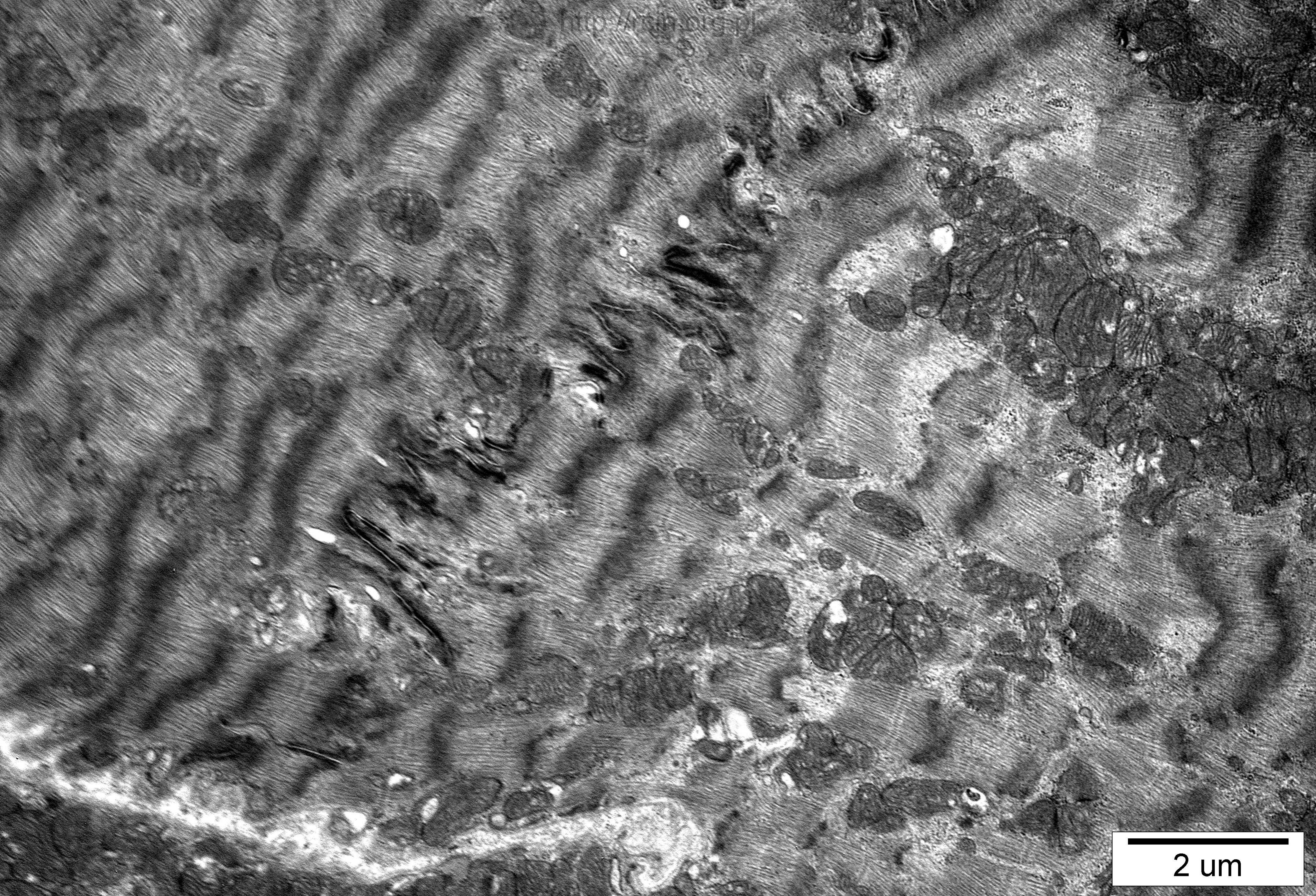
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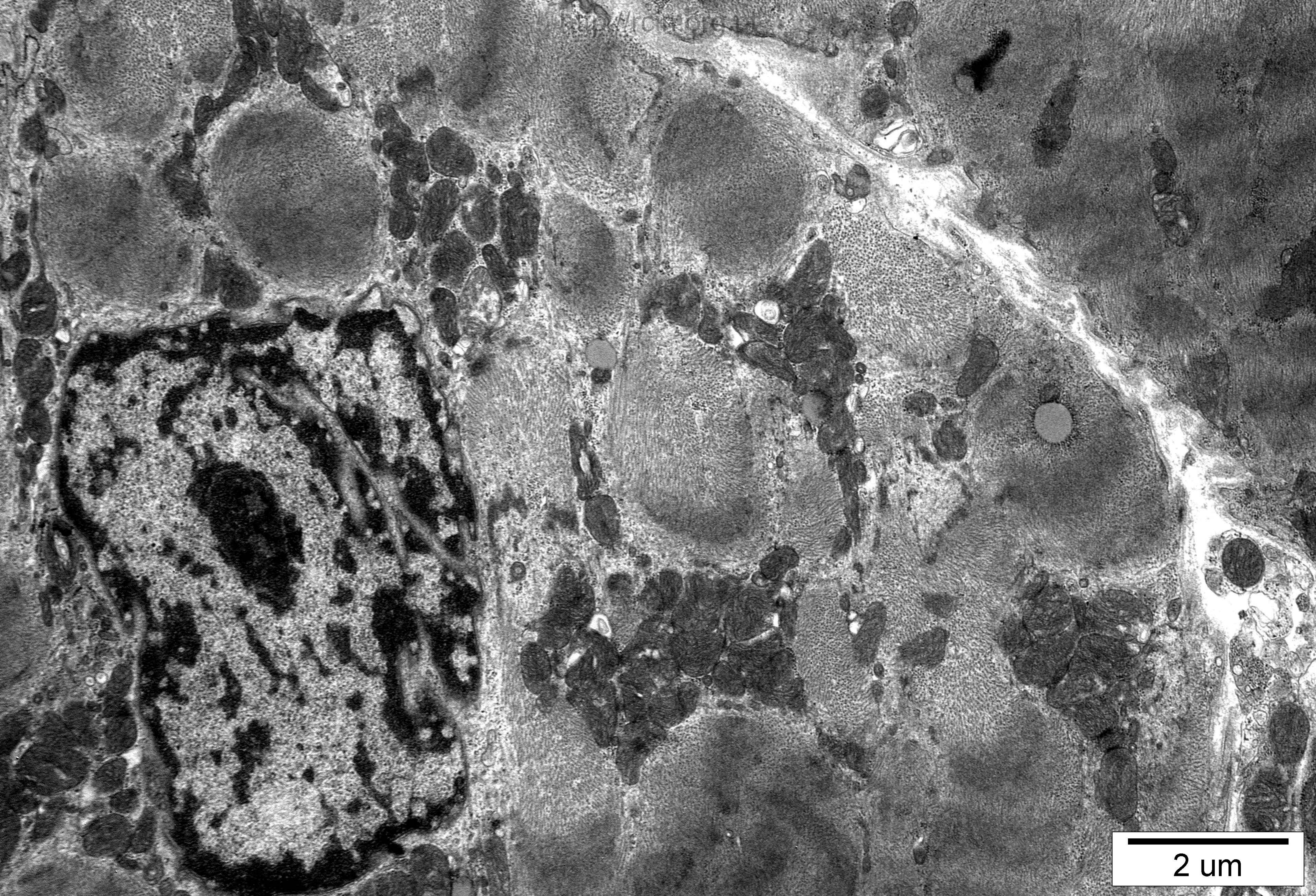
2 um





2 μm





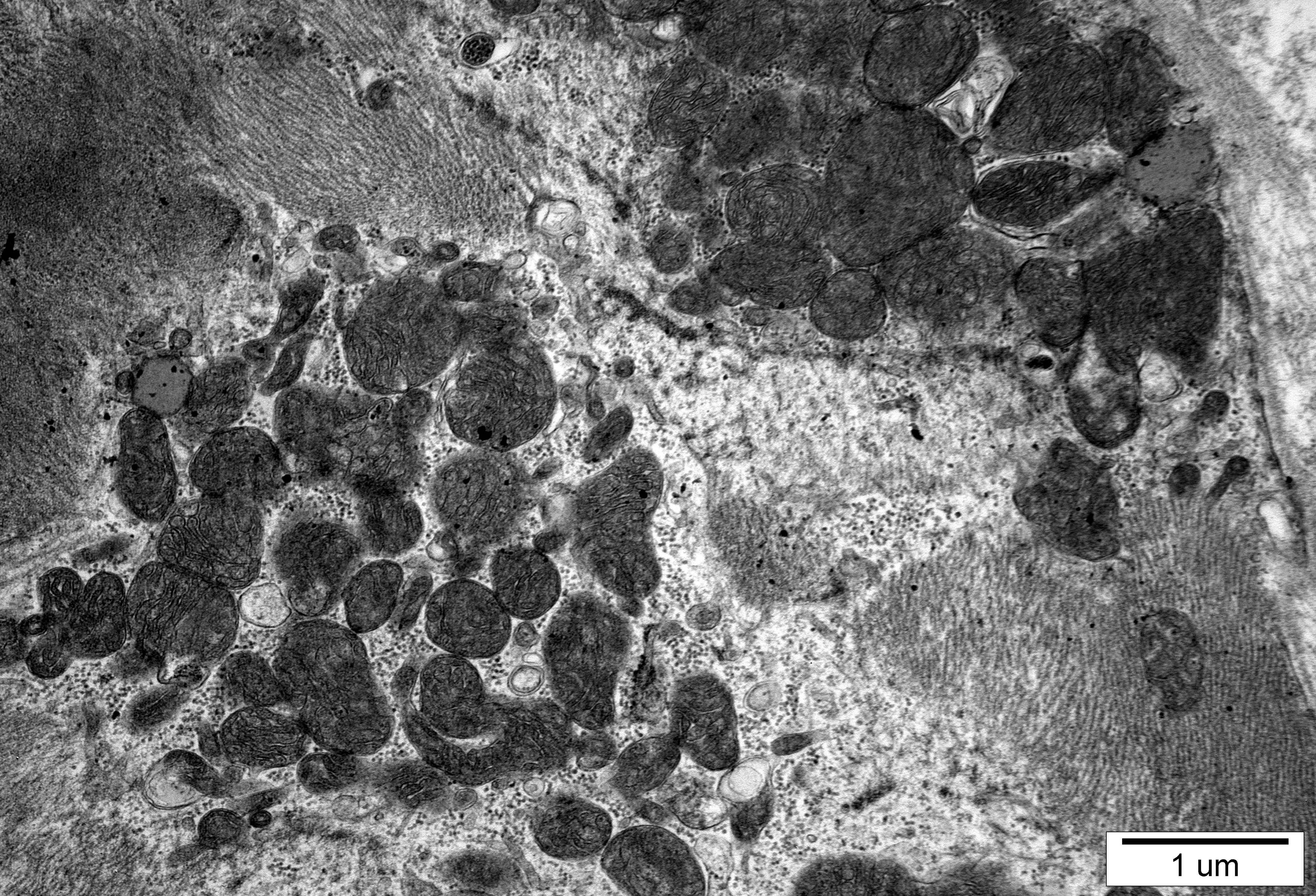
2 um





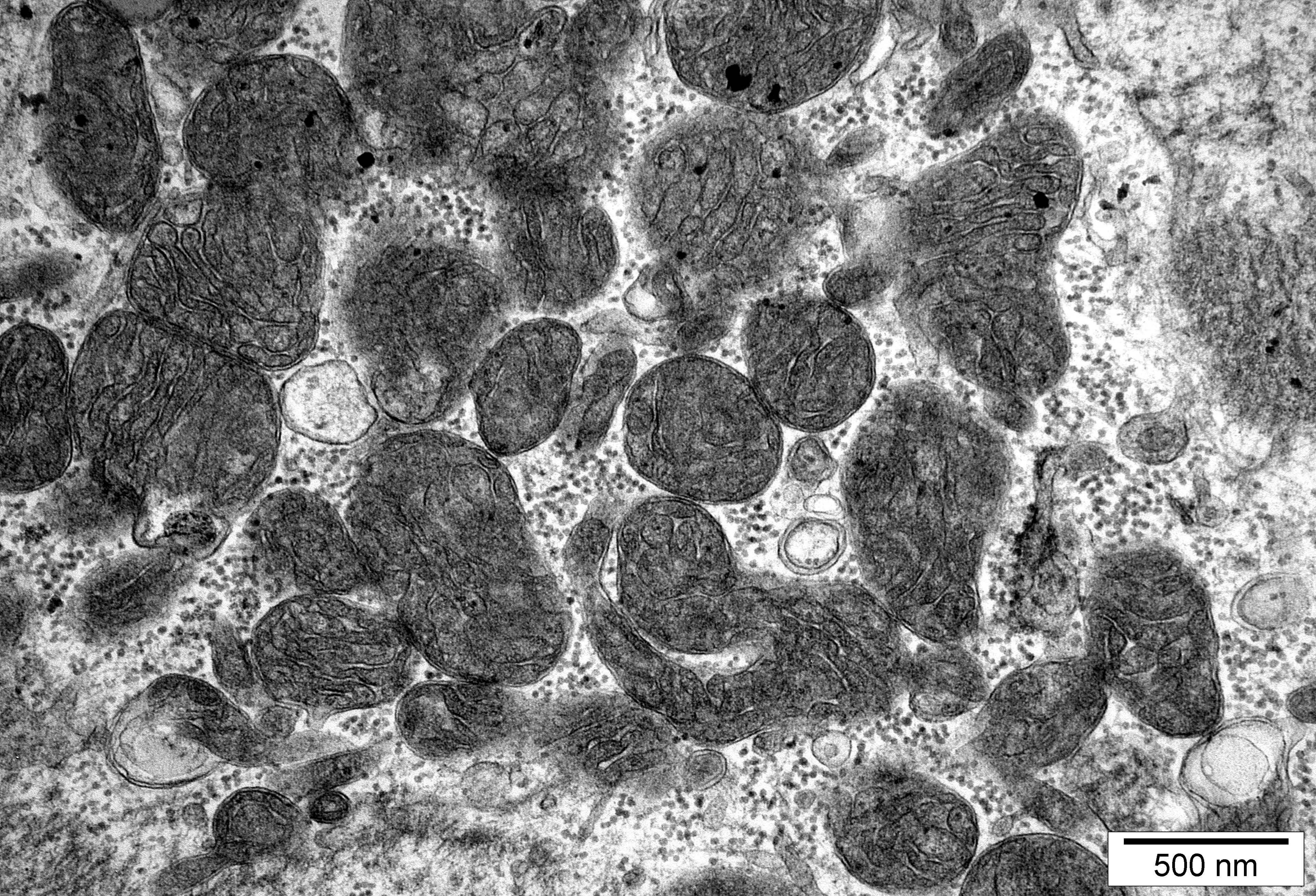
1 μm





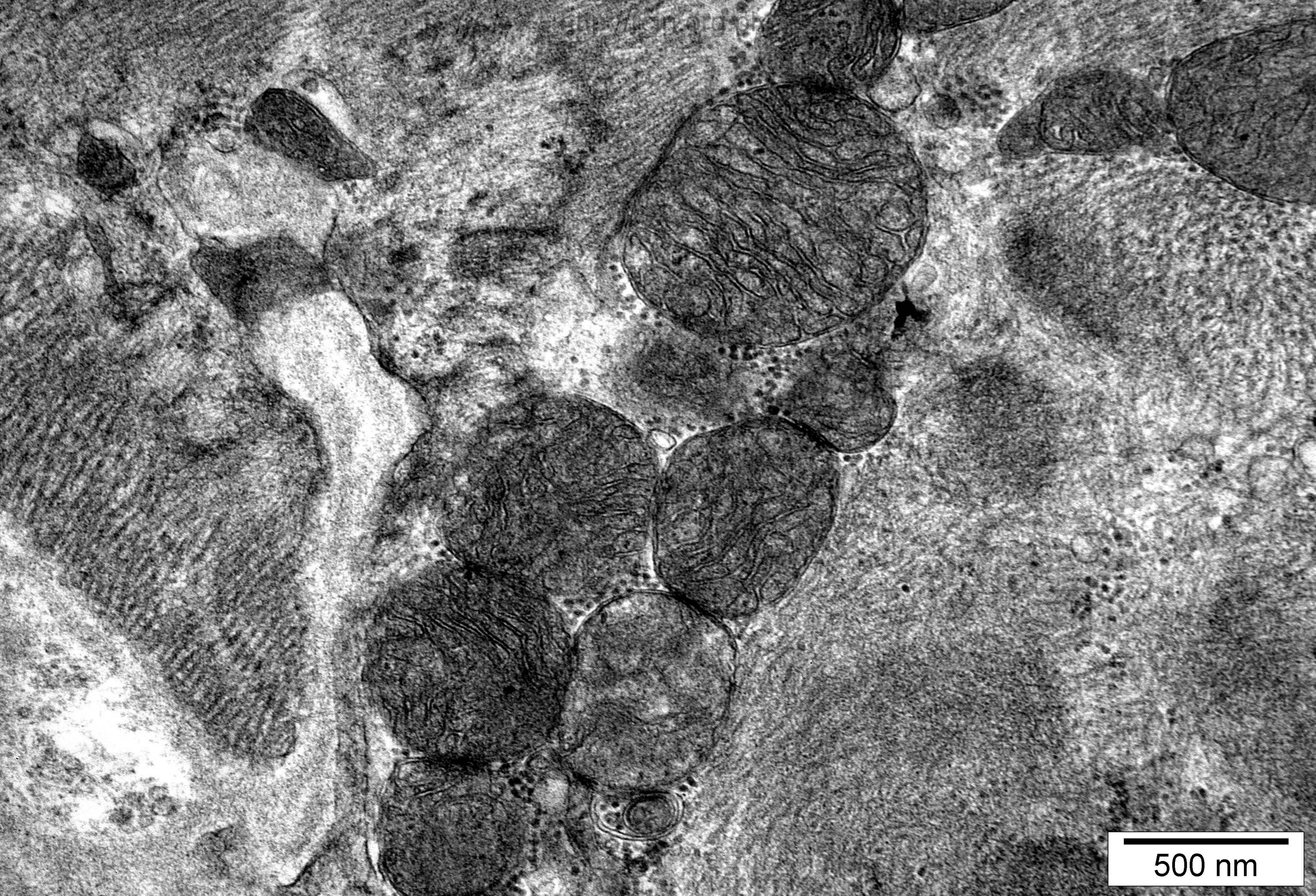
1 um





500 nm





500 nm



14s

Ocena ultrastrukturalna ujawniła zatartą strukturę sarkomerów, zaś miofibryle miejscami były rozproszone, a w nielicznych miejscach obserwowano ich zanik (Fig. 14s-1, 2, 9, 16, 17, 18). W bioptacie obserwowano zarówno prawidłowe, położone ośrodkowo jądra kardiomiocytów (Fig. 14s-5, 13), jak jądra o zmienionym kształcie, licznych wpukleniach w błonie jądrowej, zwykle położone podbłonowo (Fig. 14s-6, 12). Mitochondria charakteryzowały się ciemną macierzą i zachowaną strukturą grzebieni (Fig. 14s-3, 23, 25). Obecne były nieliczne lipofuscyny (Fig. 14s-10, 11). Wstawki (intercalated discs) w większości wykazywały nieregularny przebieg (Fig. 14s-7, 22). W przestrzeni zewnątrzkomórkowej widoczna była obfita tkanka łączna (Fig. 14s-15, 3, 8) oraz średnio liczne naczynia (Fig. 14s-14).

Ultrastructural evaluation revealed blurred sarcomeres pattern; myofibrils were locally scattered and in some areas their atrophy were observed (Figs. 14s-1,2,9,16,17,18). In the analyzed biopsy both structurally unchanged, centrally located cardiomyocytes' nuclei (Figs. 14s-5,13) and nuclei with altered shape, numerous indentations in the nuclear membrane, usually located sub-membranously (Figs. 14s-6,12) were observed. Mitochondria were characterized by dark matrix and preserved structure of cristae (Figs.14s-3,23,25). Few lipofuscins were present (Figs.14s-10,11). The intercalated discs mostly revealed irregular course (Figs.14s-7,22). In the extracellular space abundant connective tissue (Figs. 14s-15,3,8) and few vessels (Fig. 14s-14) were seen.