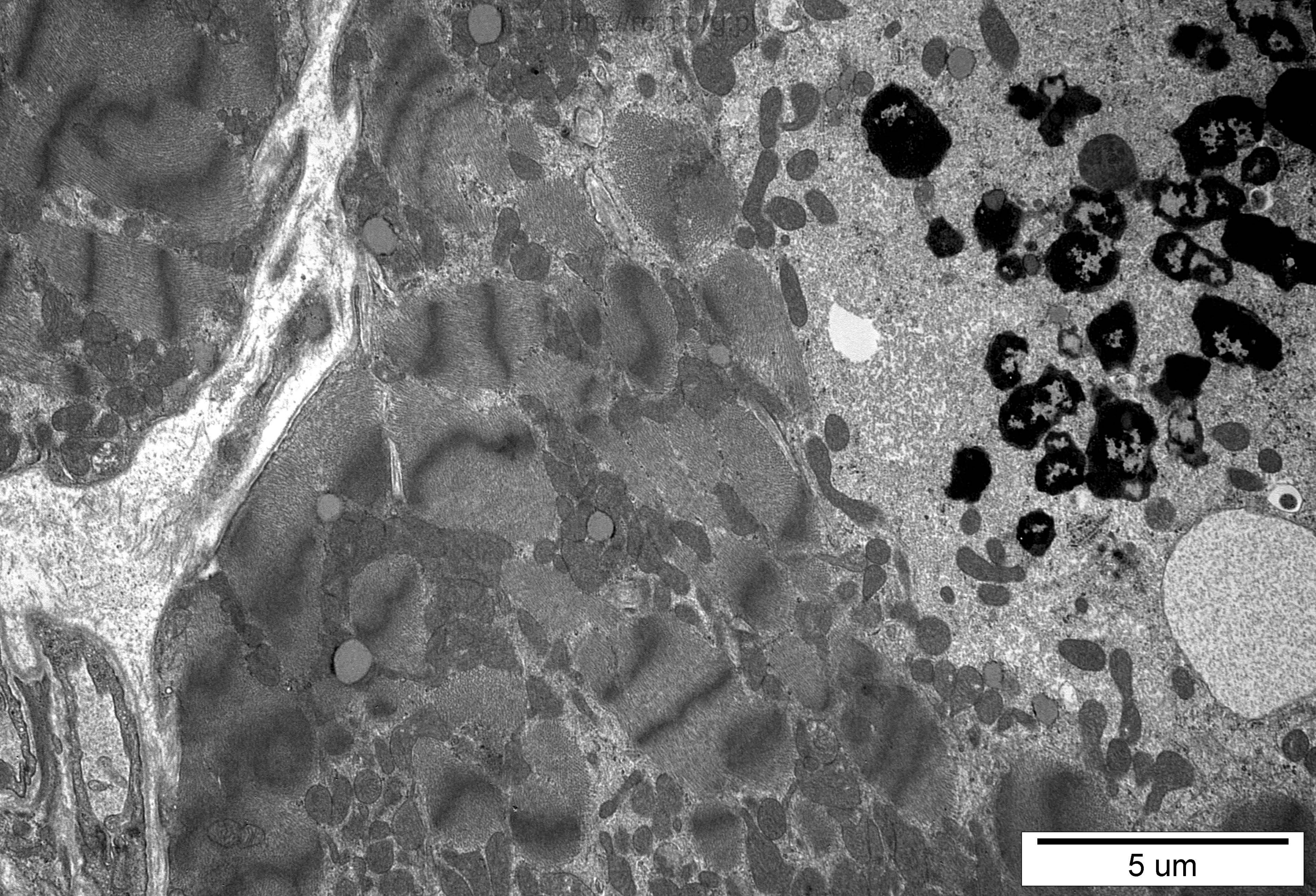


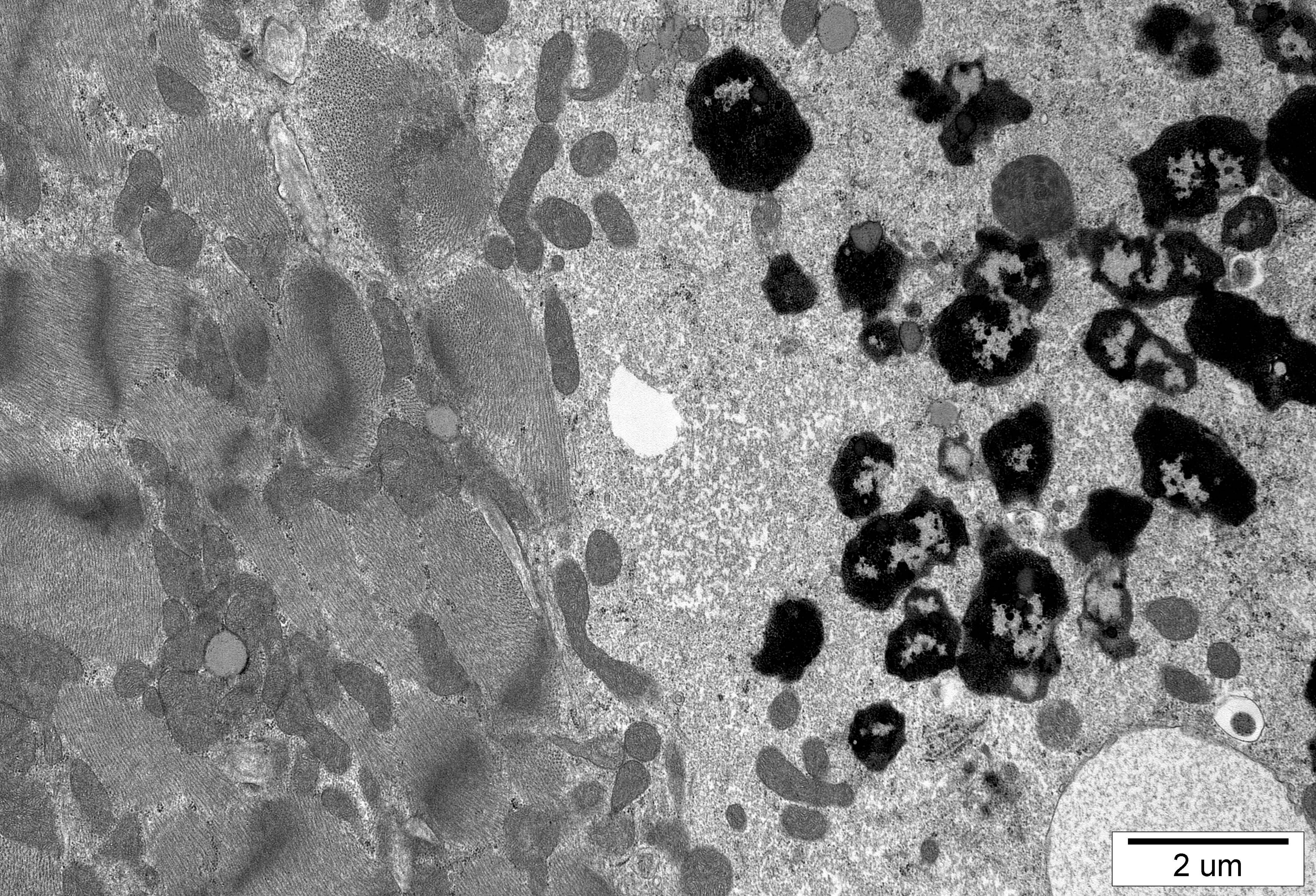
5  $\mu\text{m}$





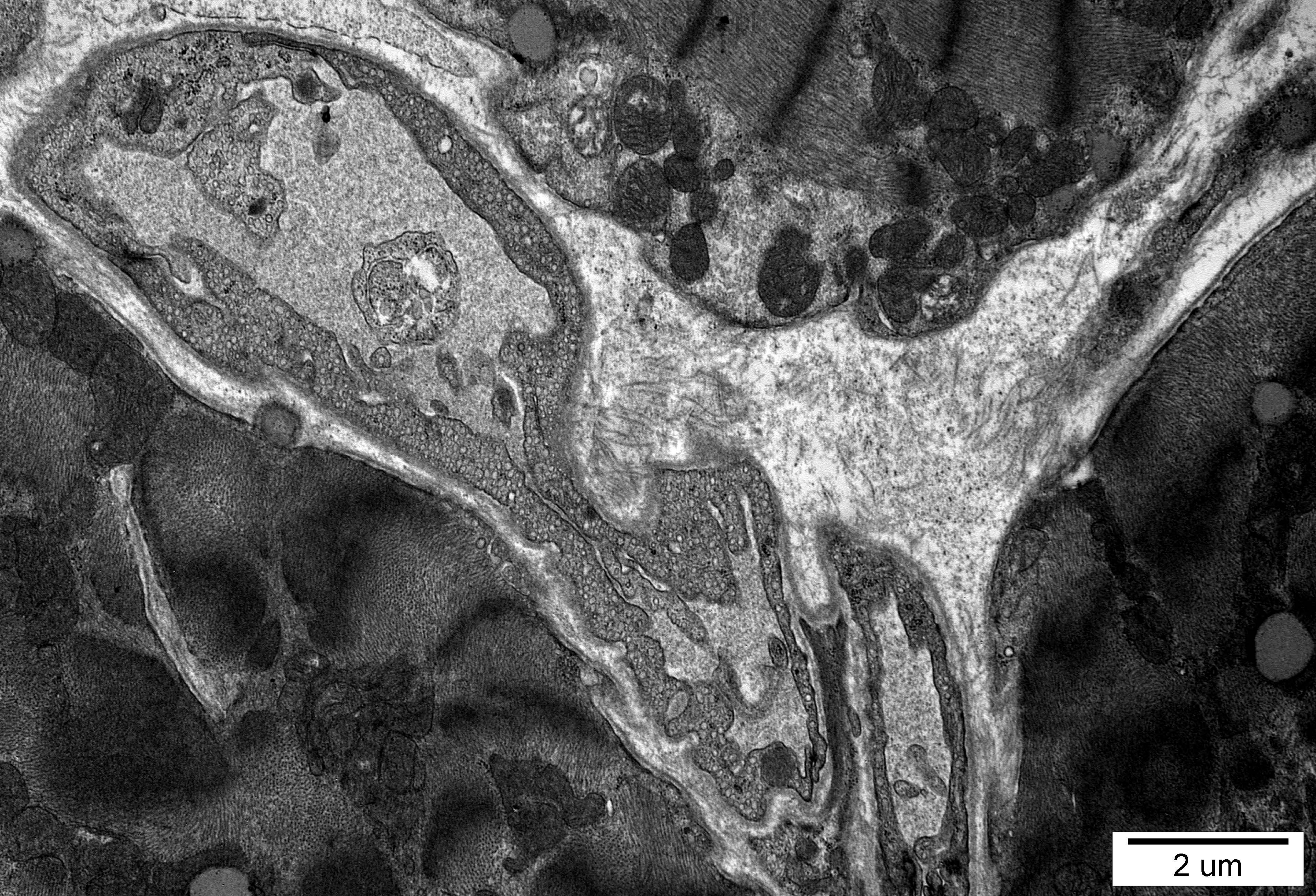
5  $\mu\text{m}$





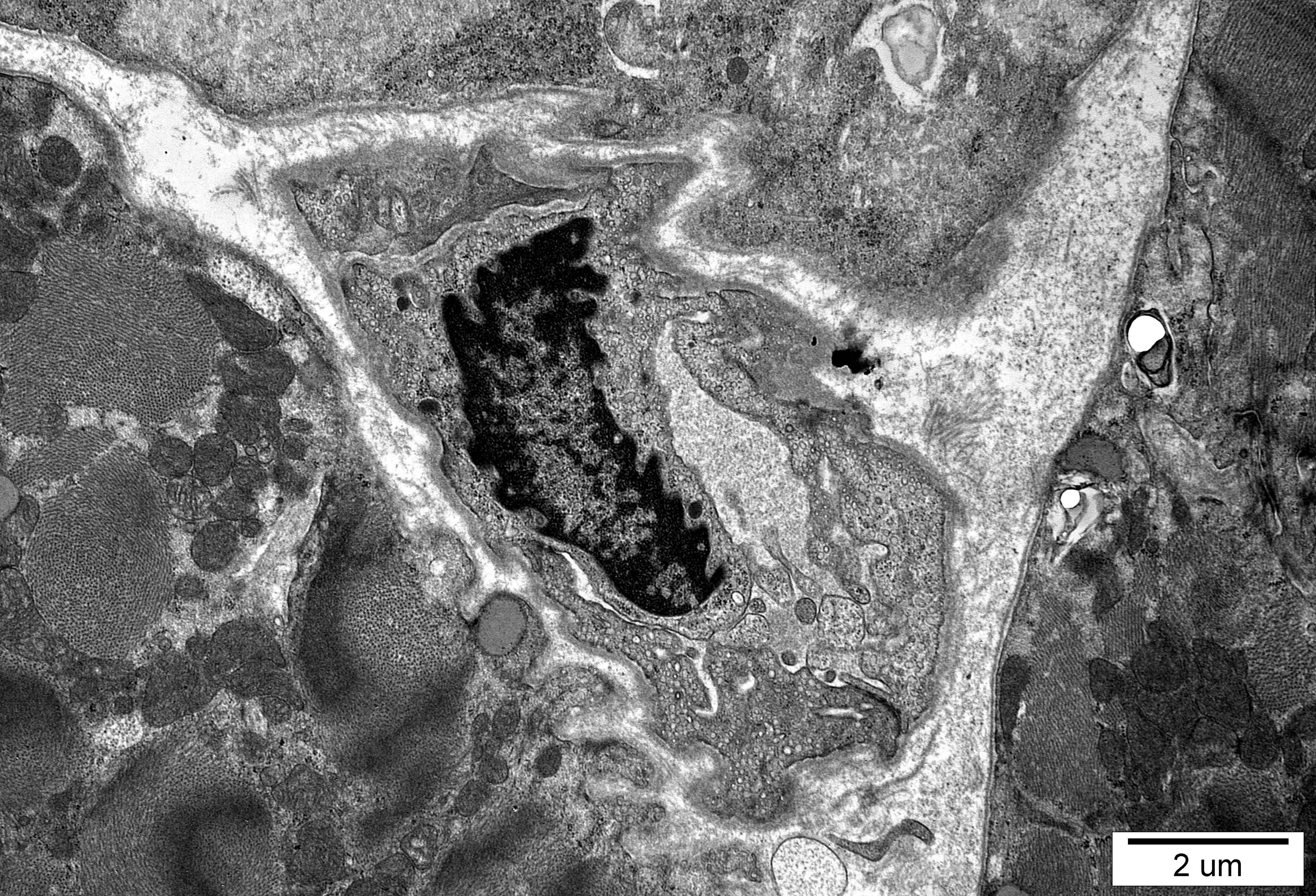
2  $\mu\text{m}$





2 um



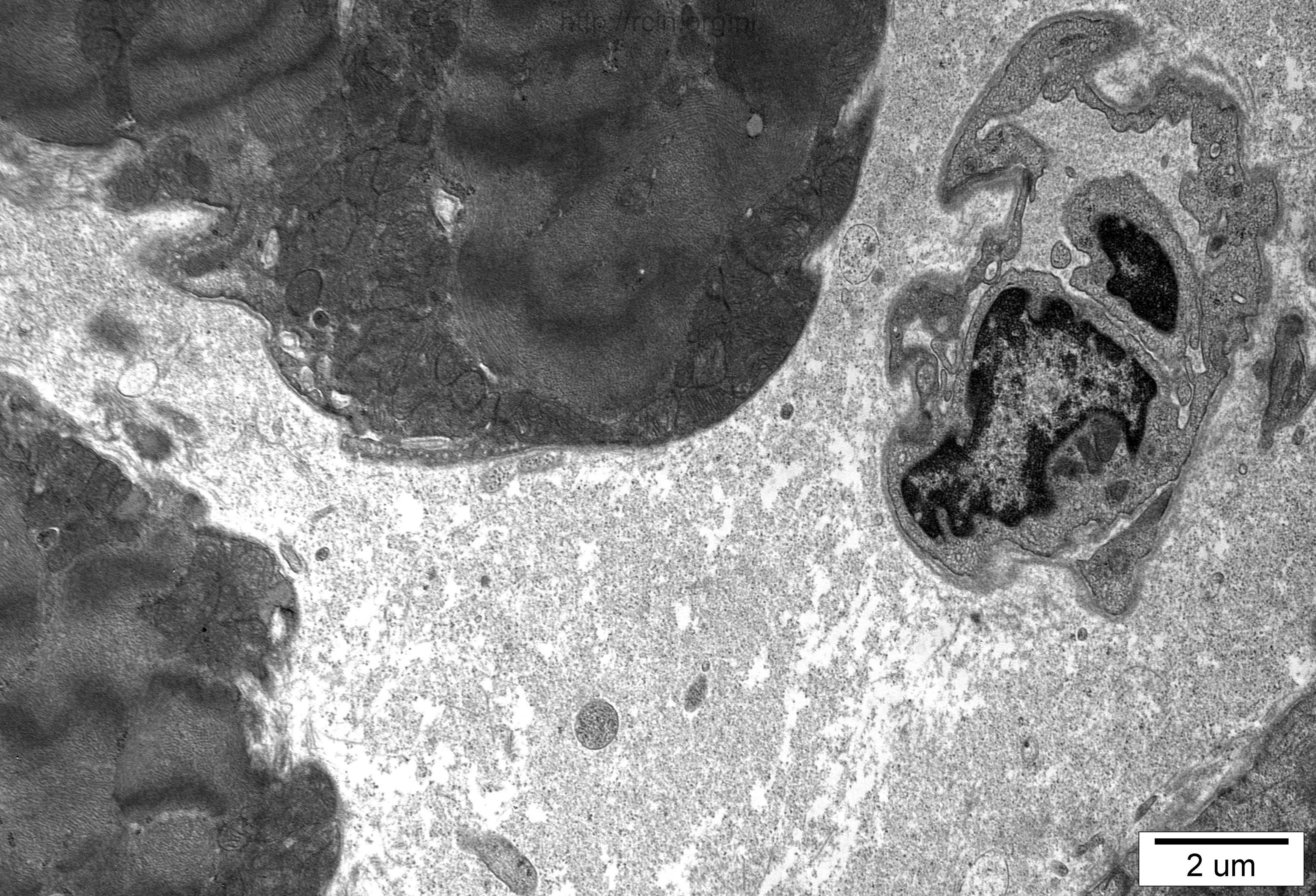


2 um



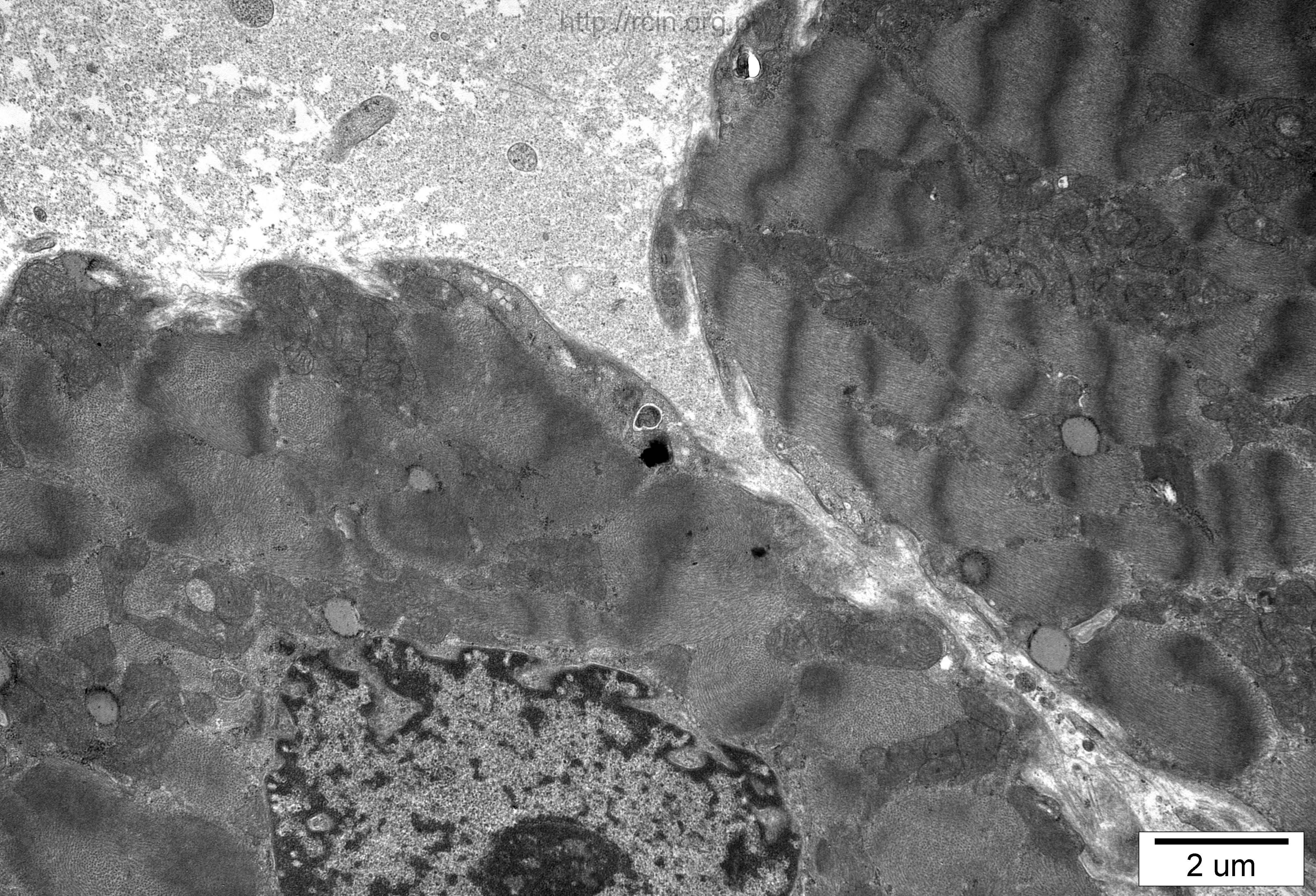






2 μm





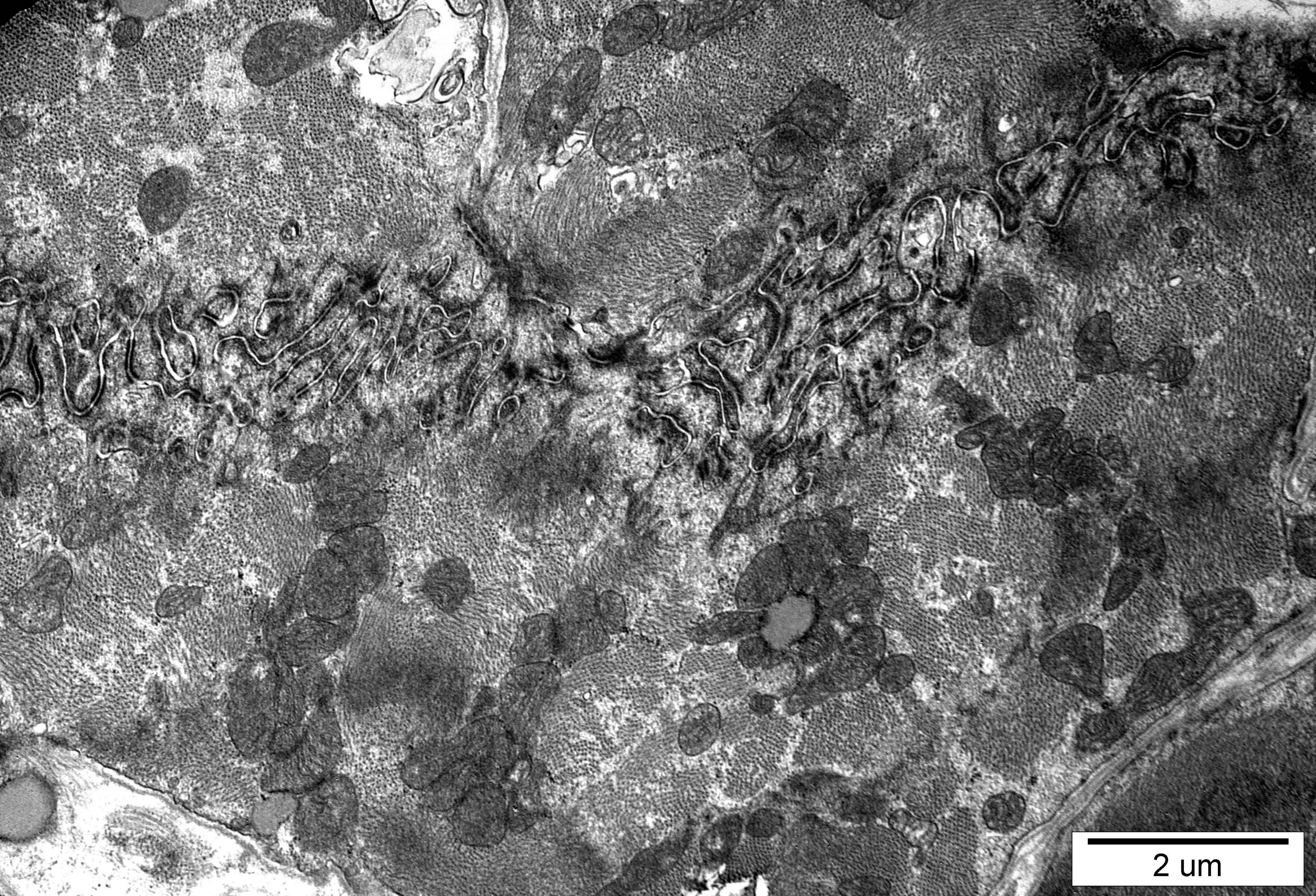
2 um





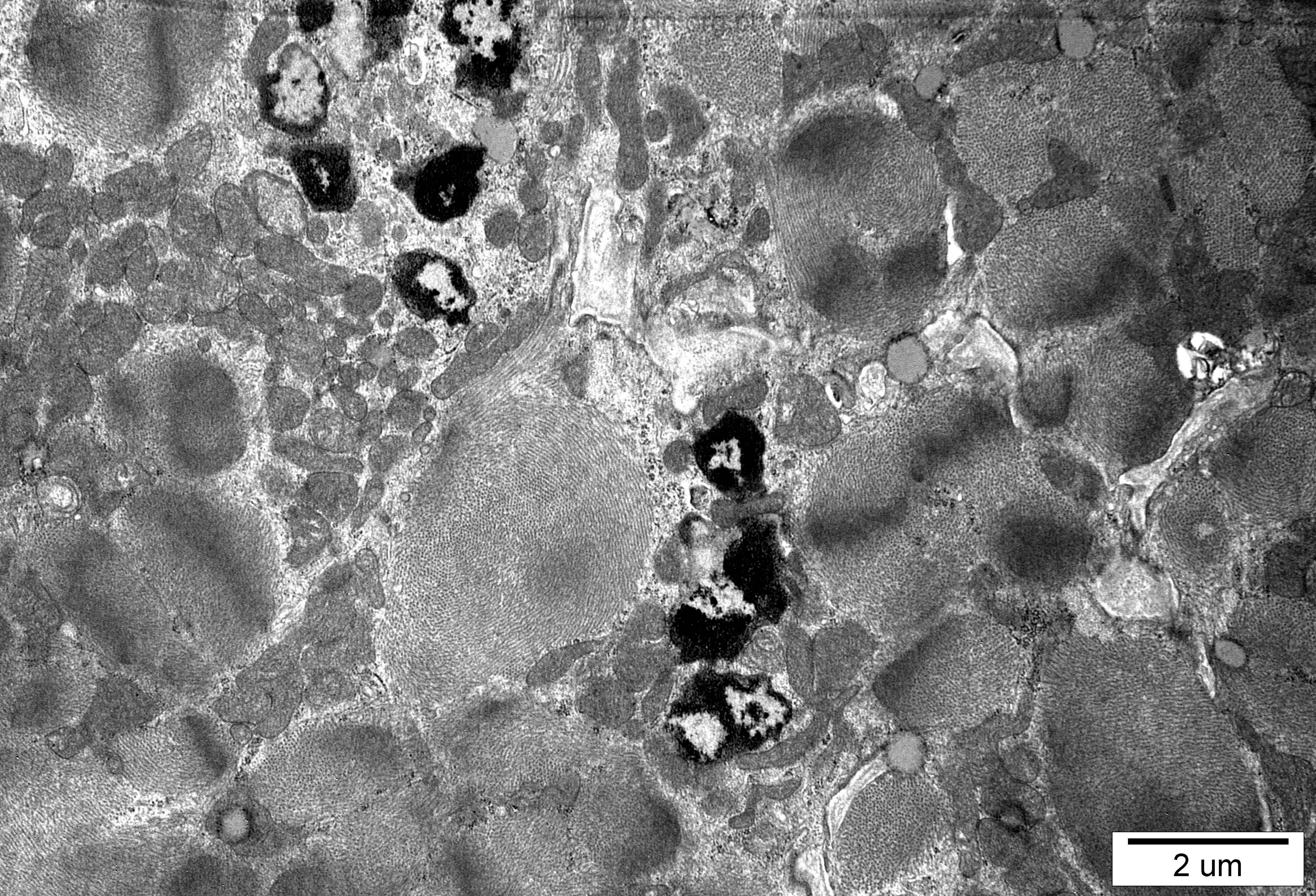
2 um





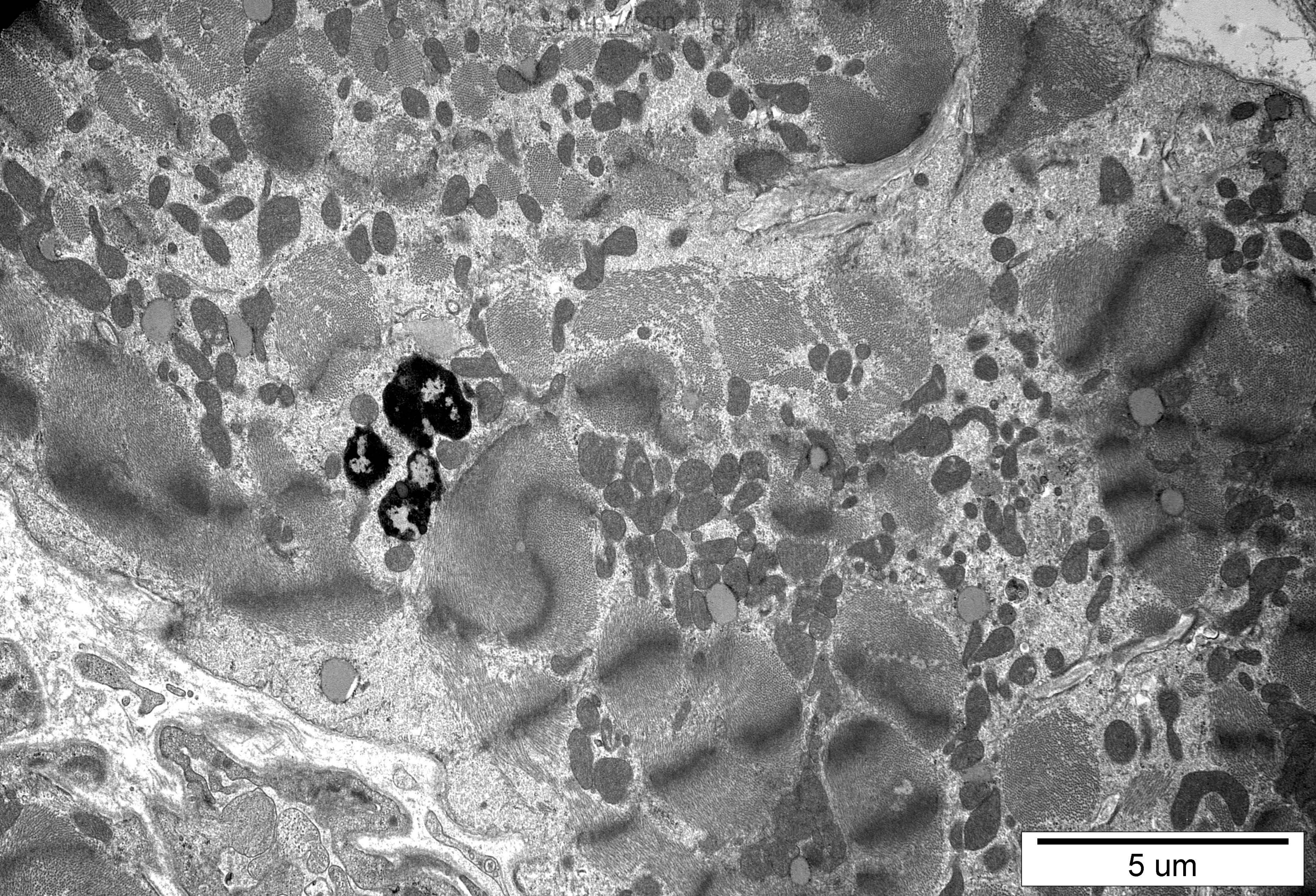
2 μm





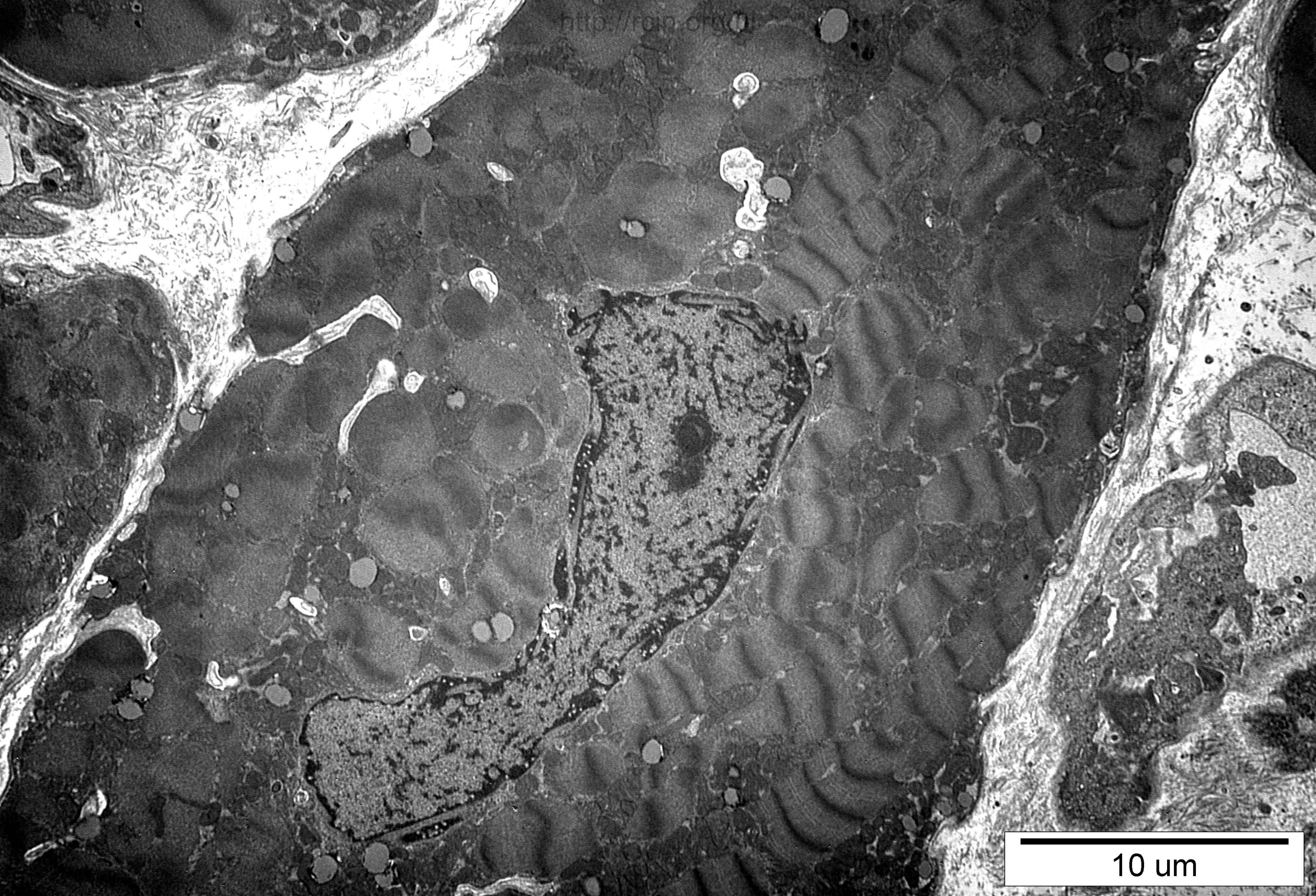
2 um





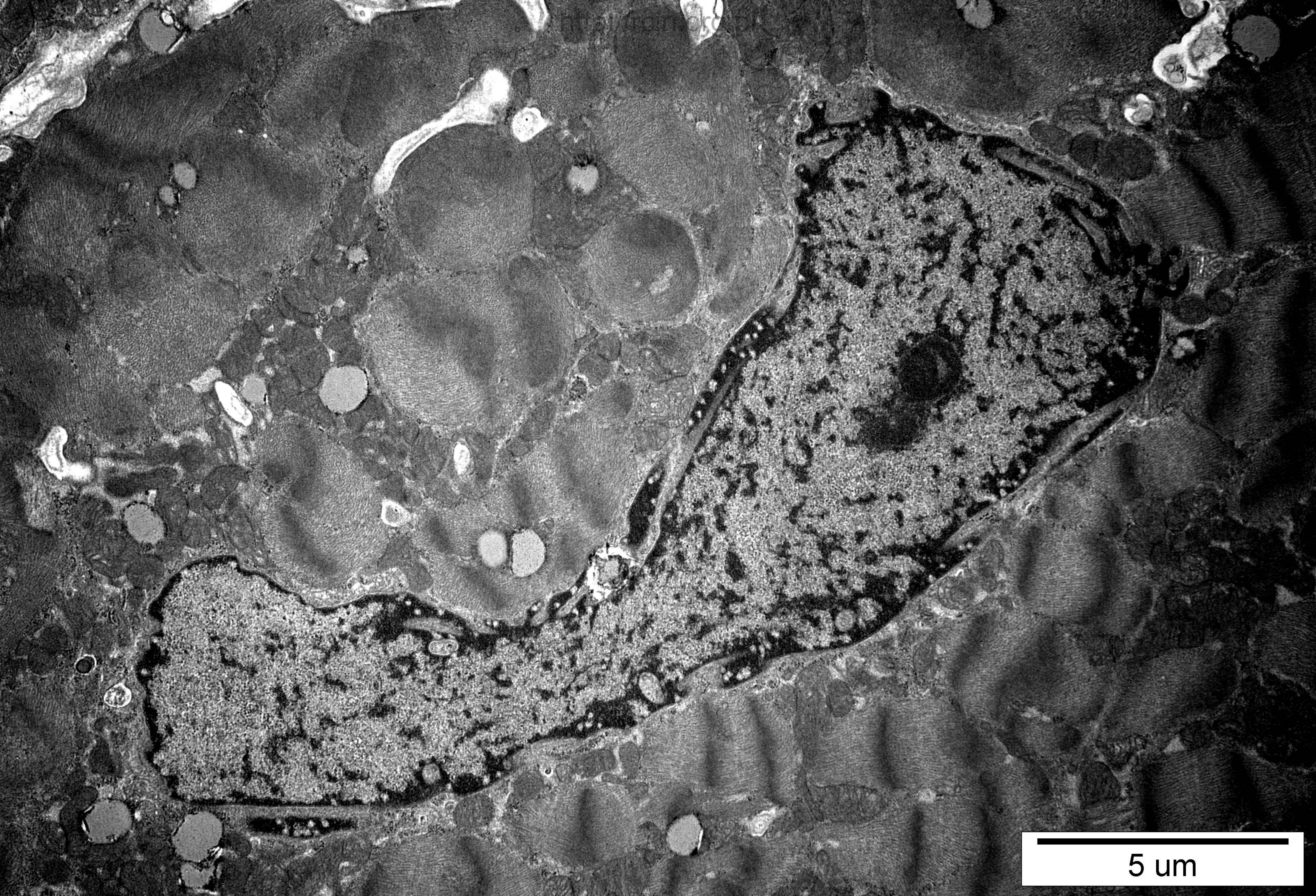
5  $\mu$ m





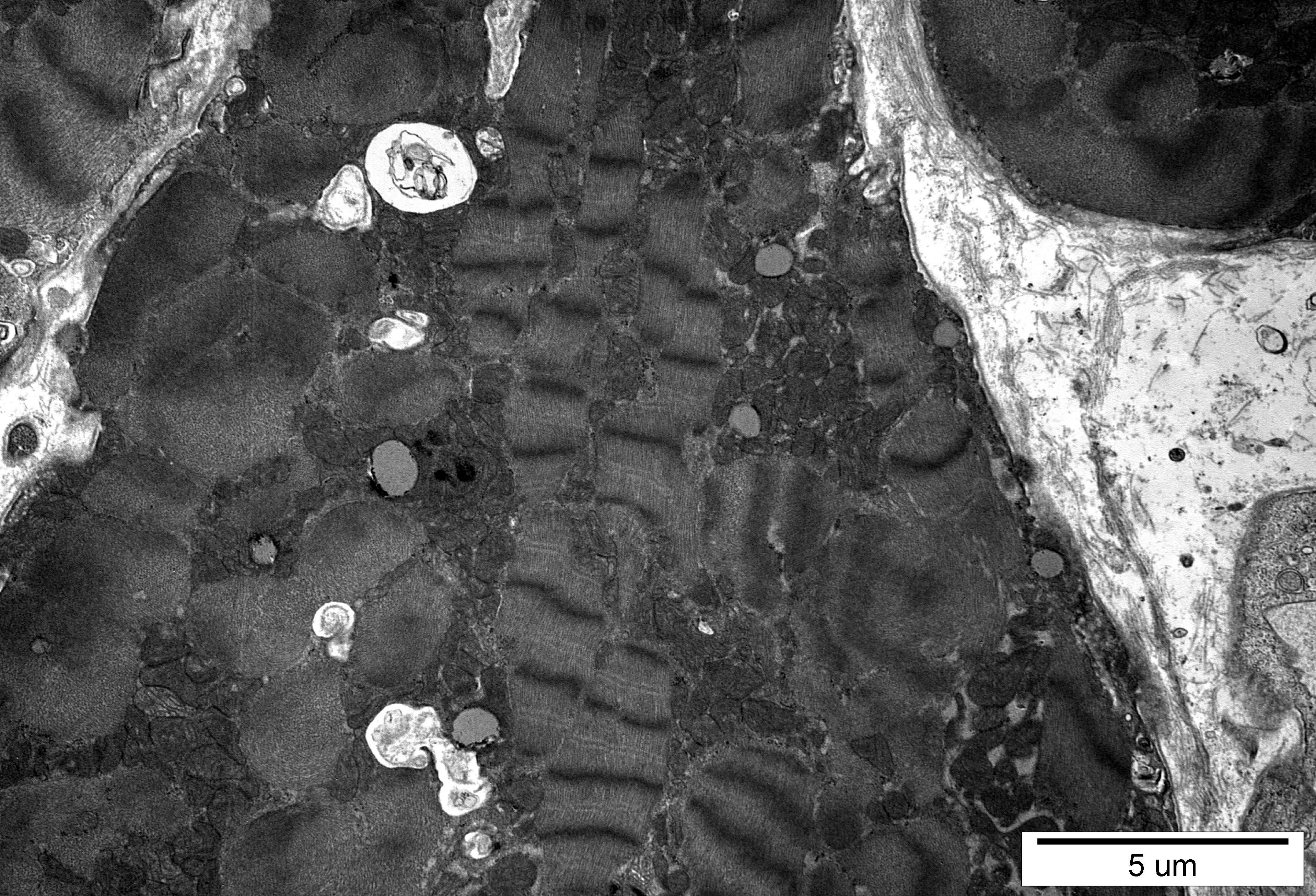
10 um





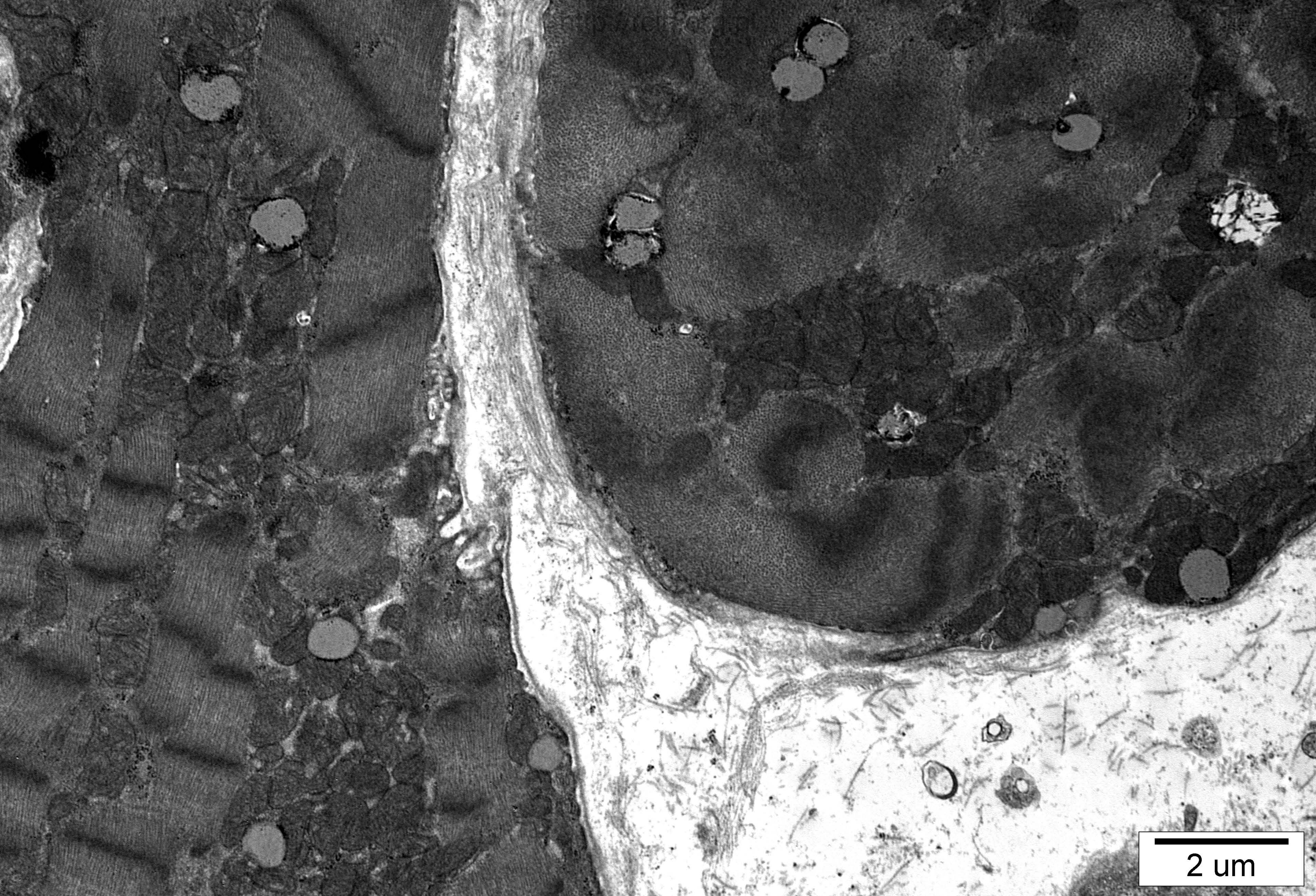
5 μm





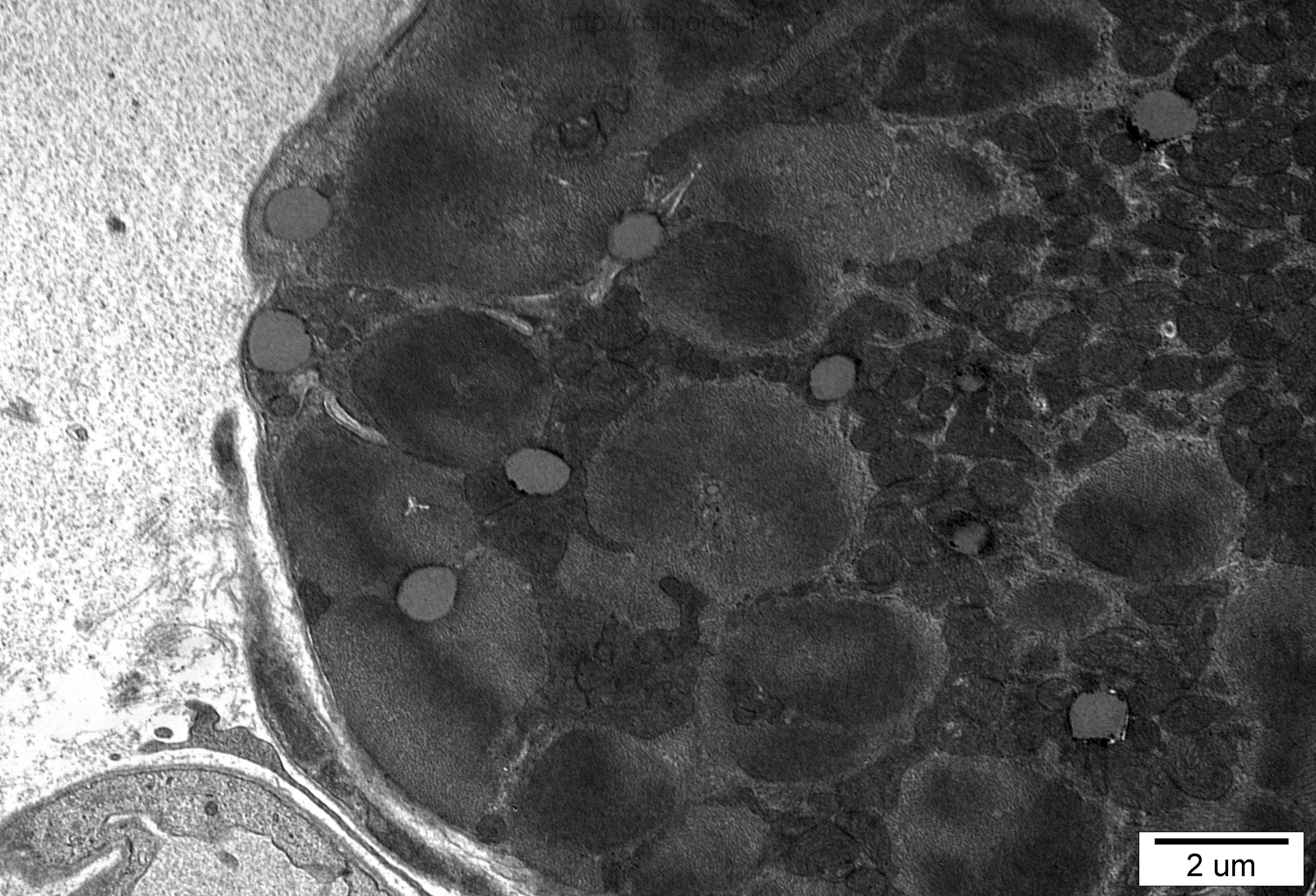
5  $\mu$ m





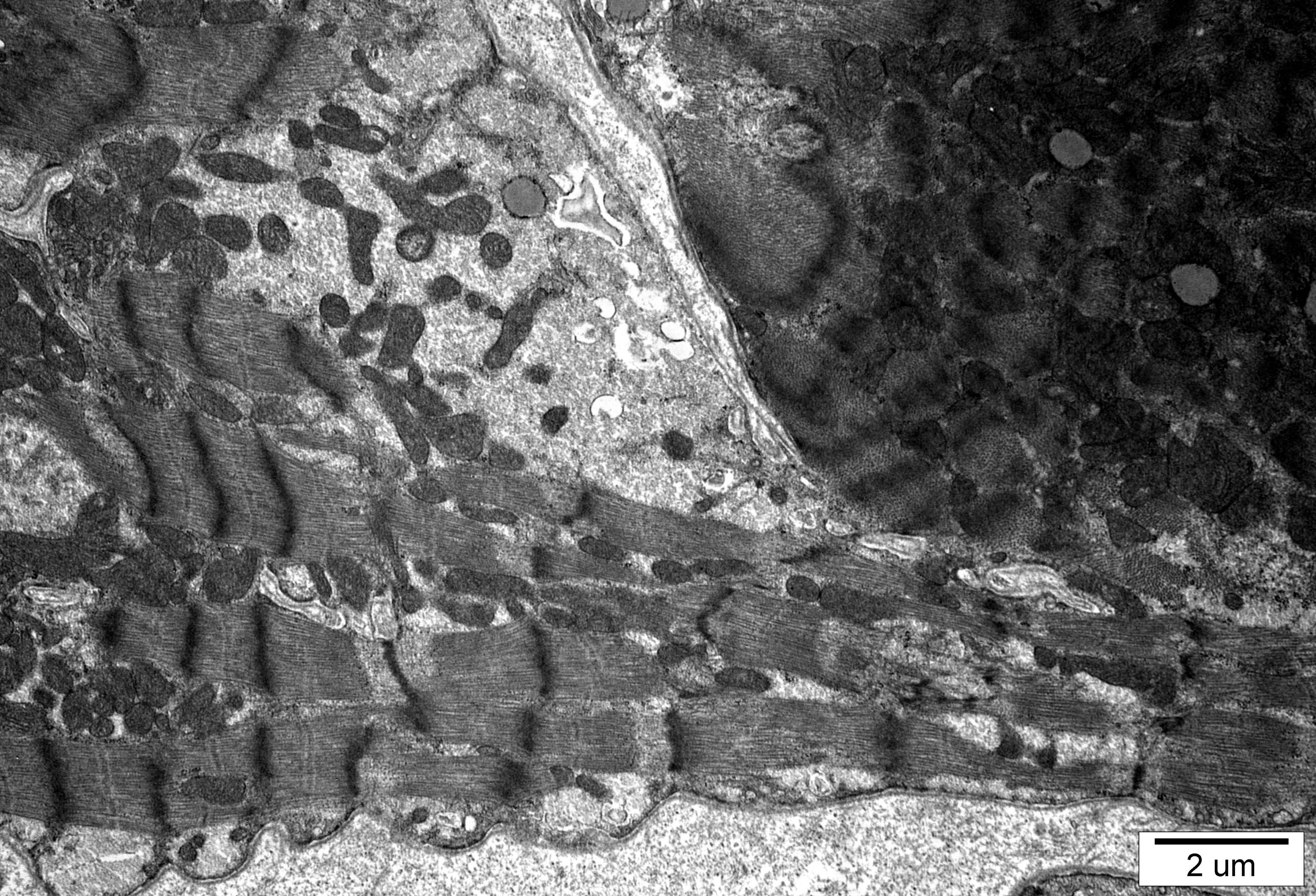
2 μm





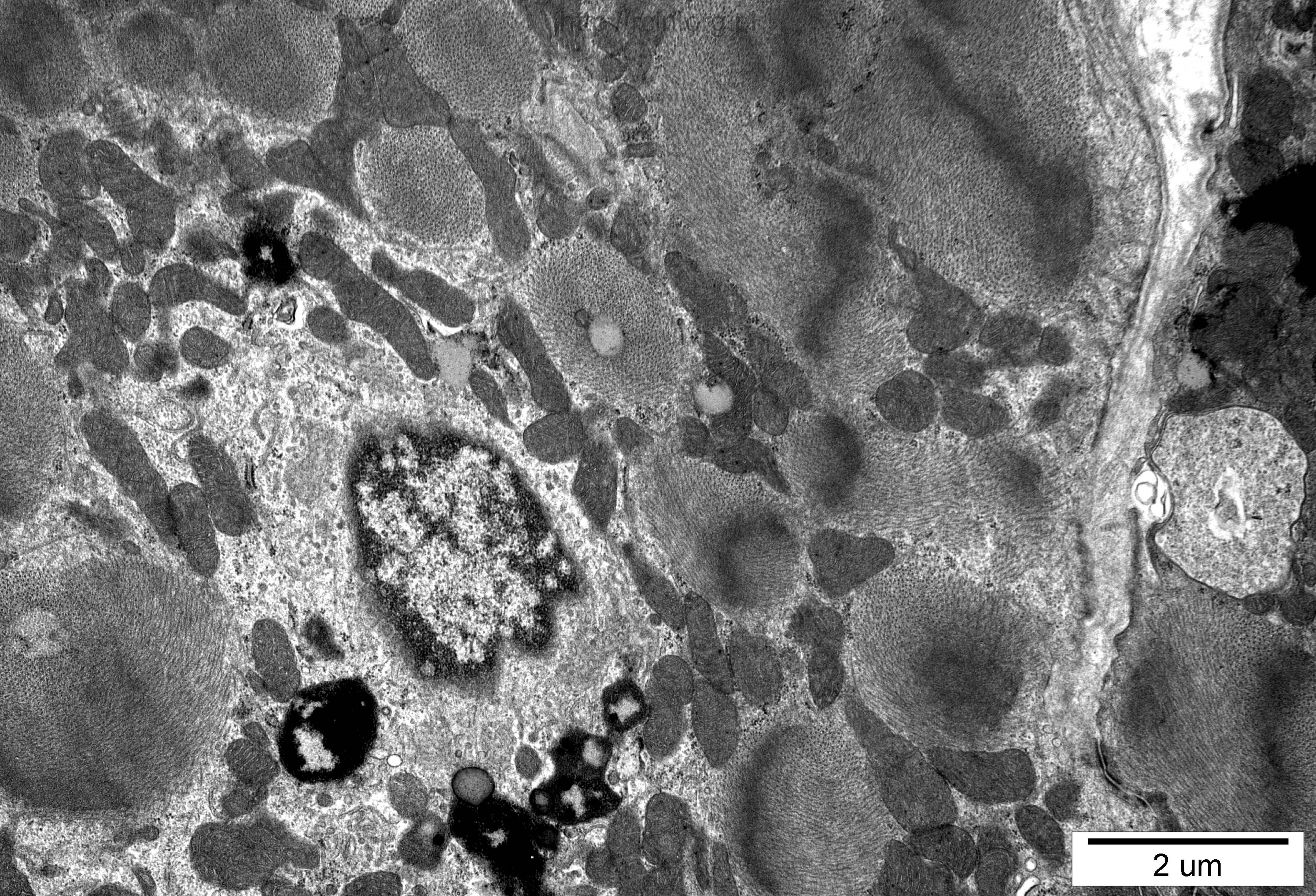
2 um





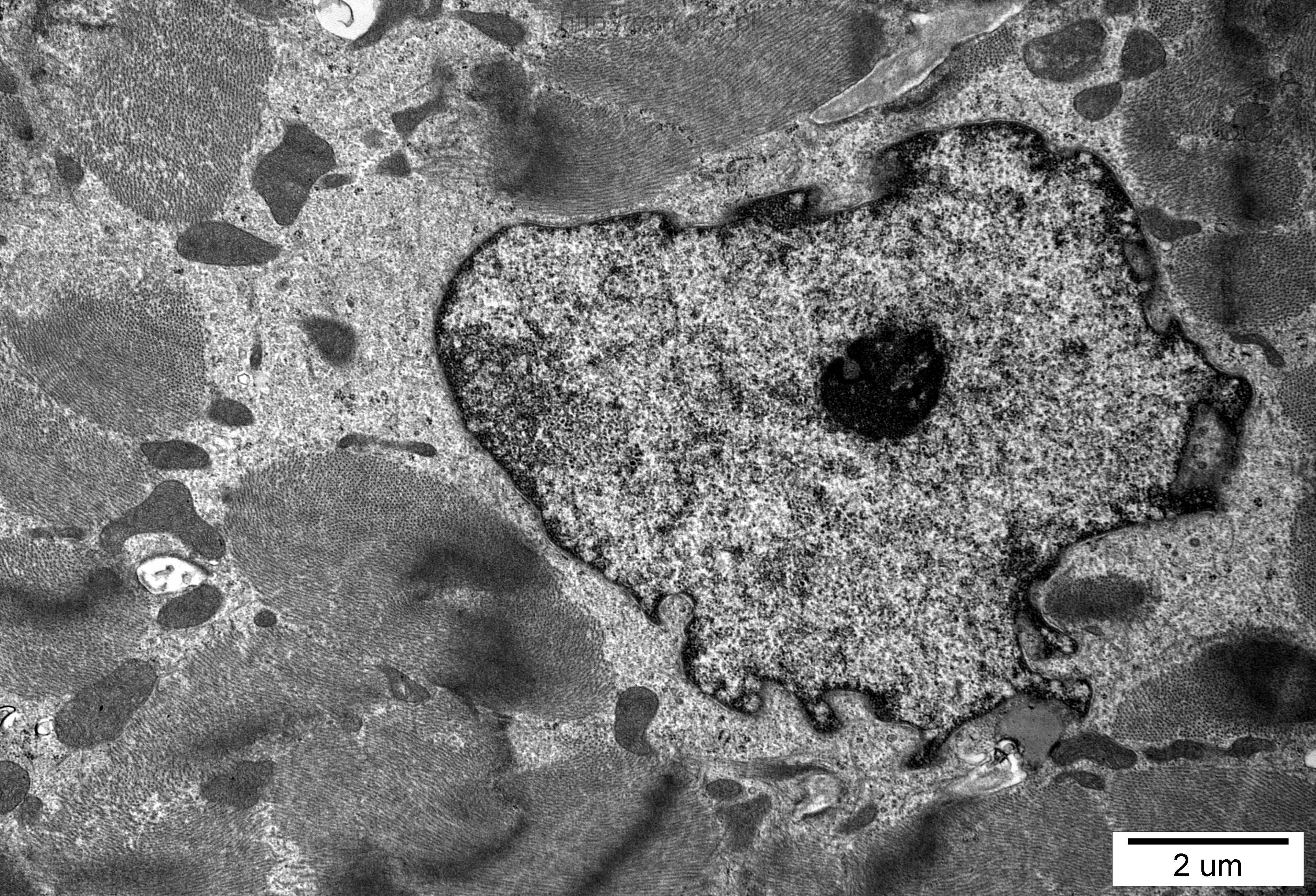
2 um





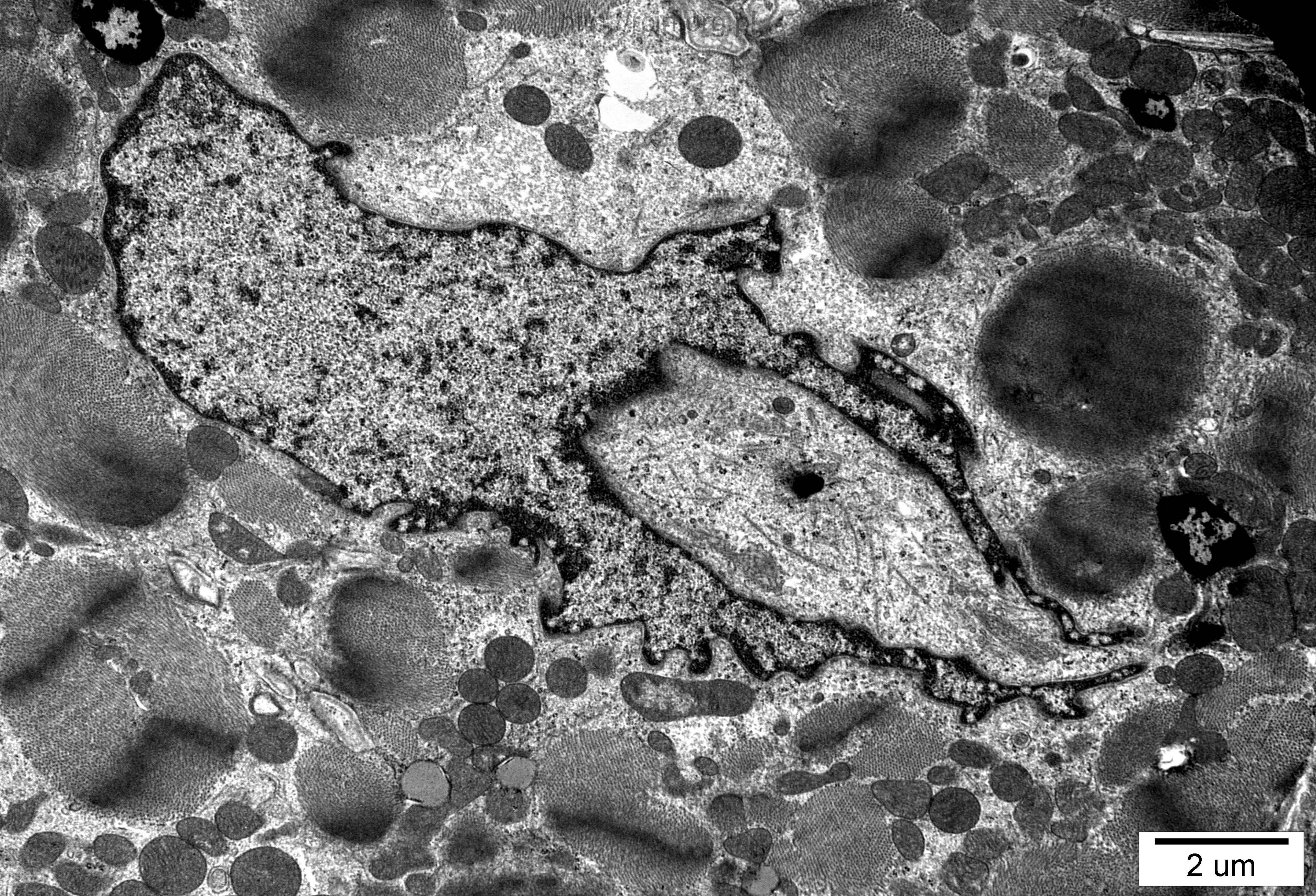
2 μm





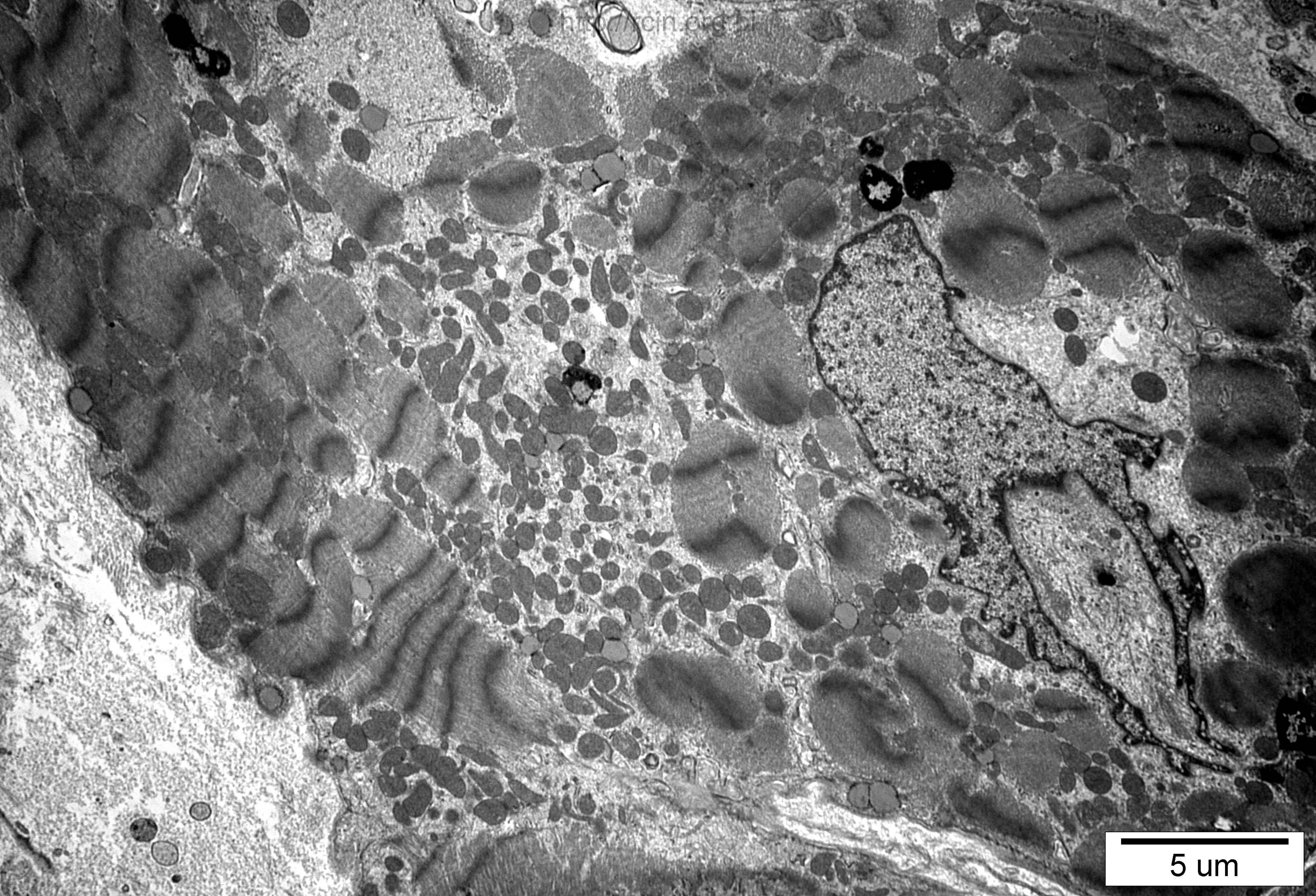
2 μm





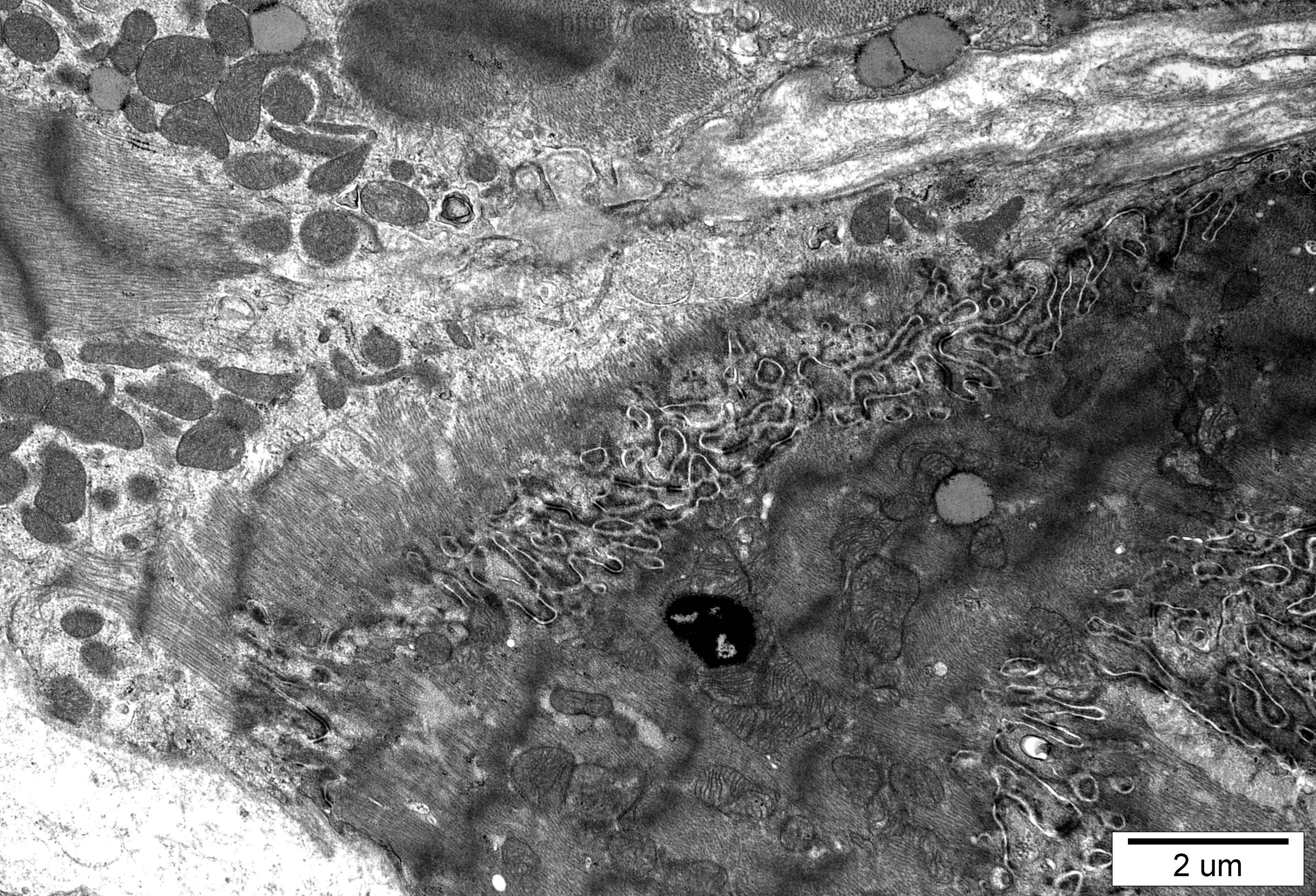
2 um





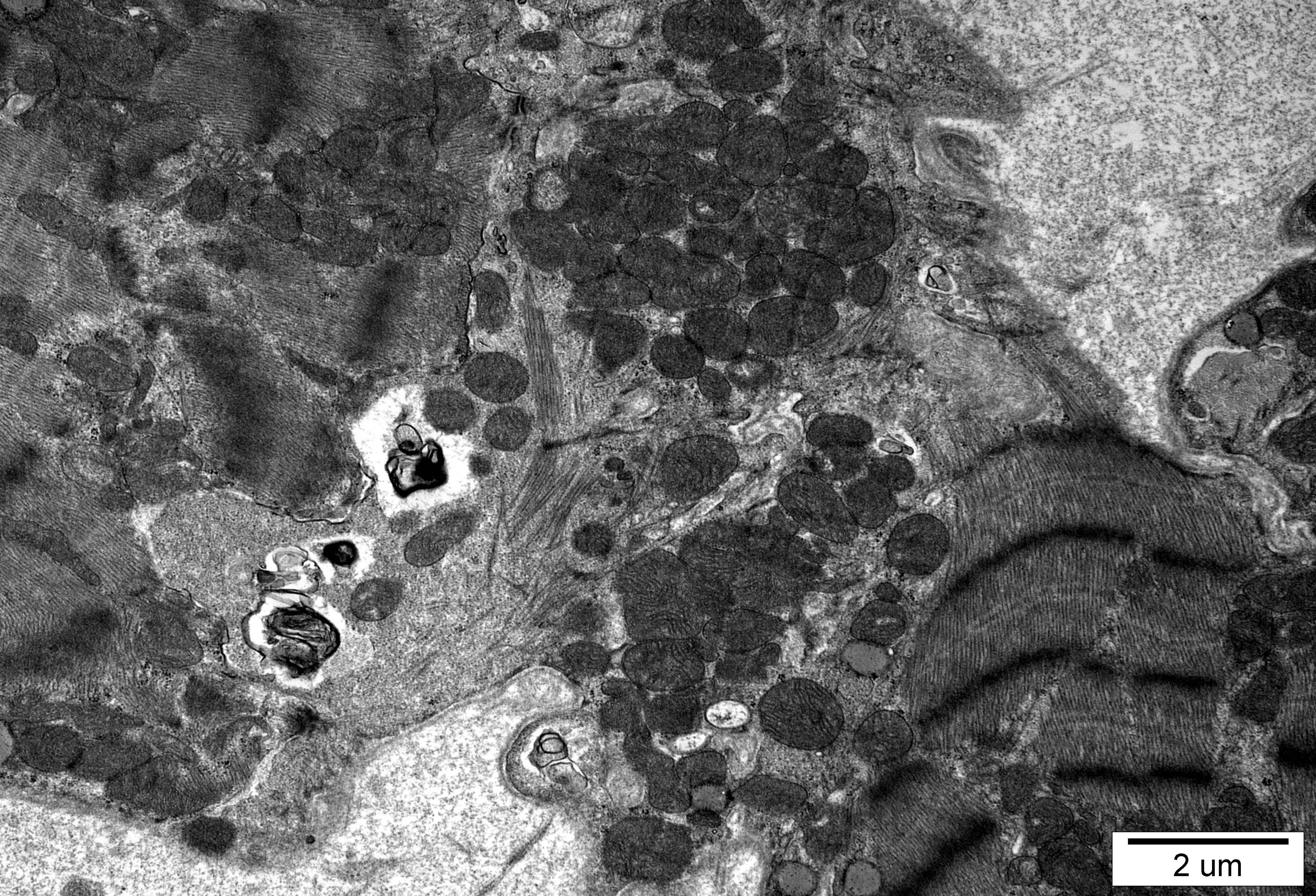
5 um





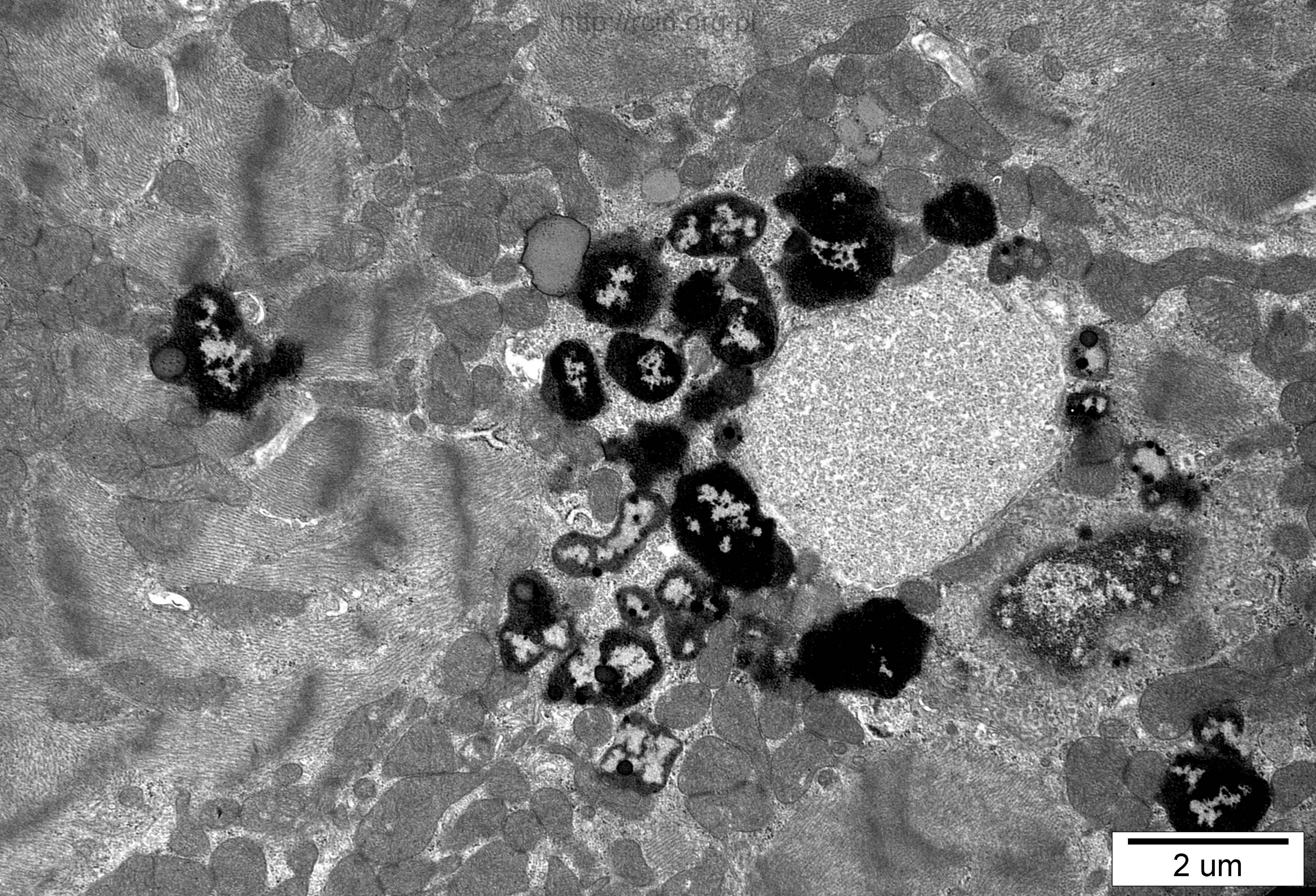
2 um





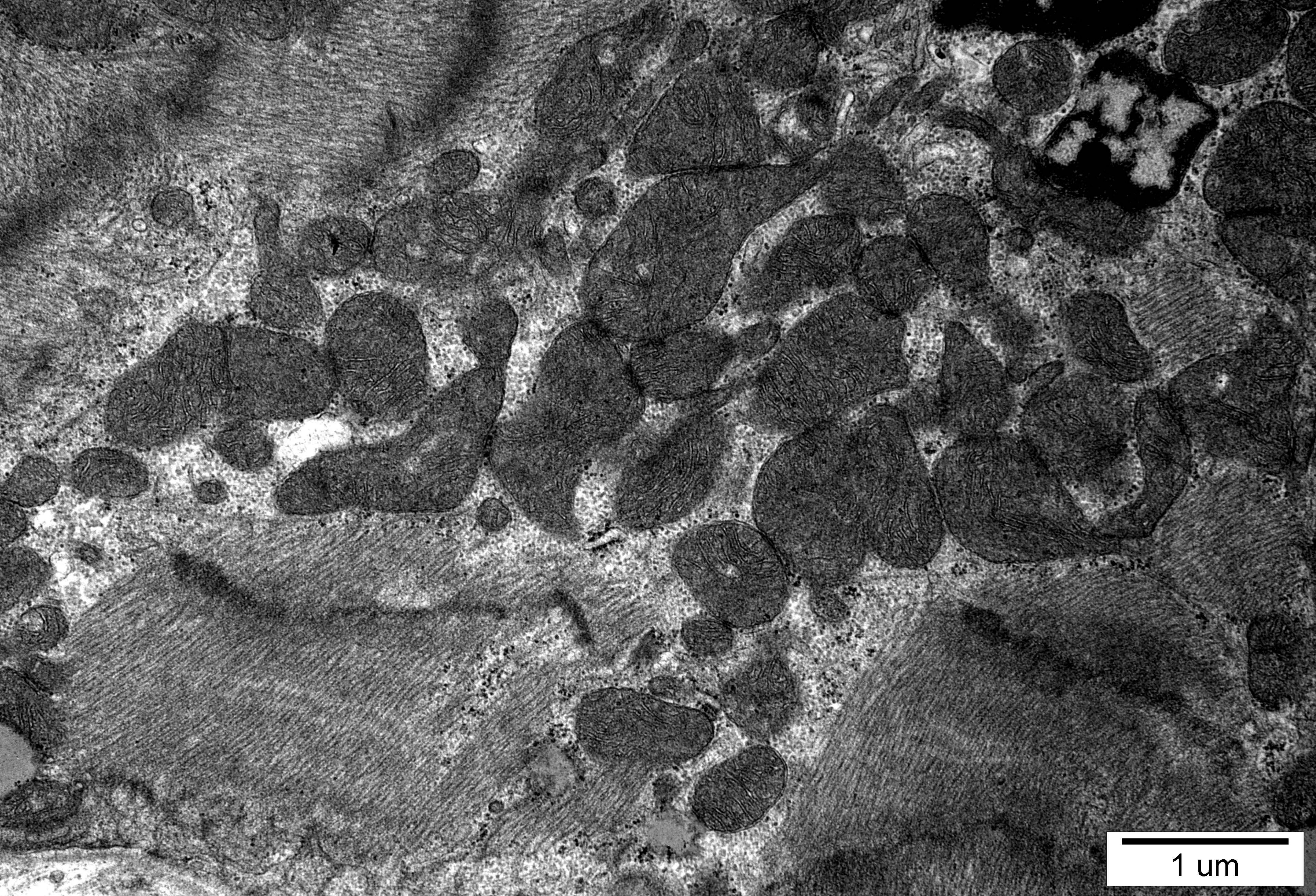
2 um





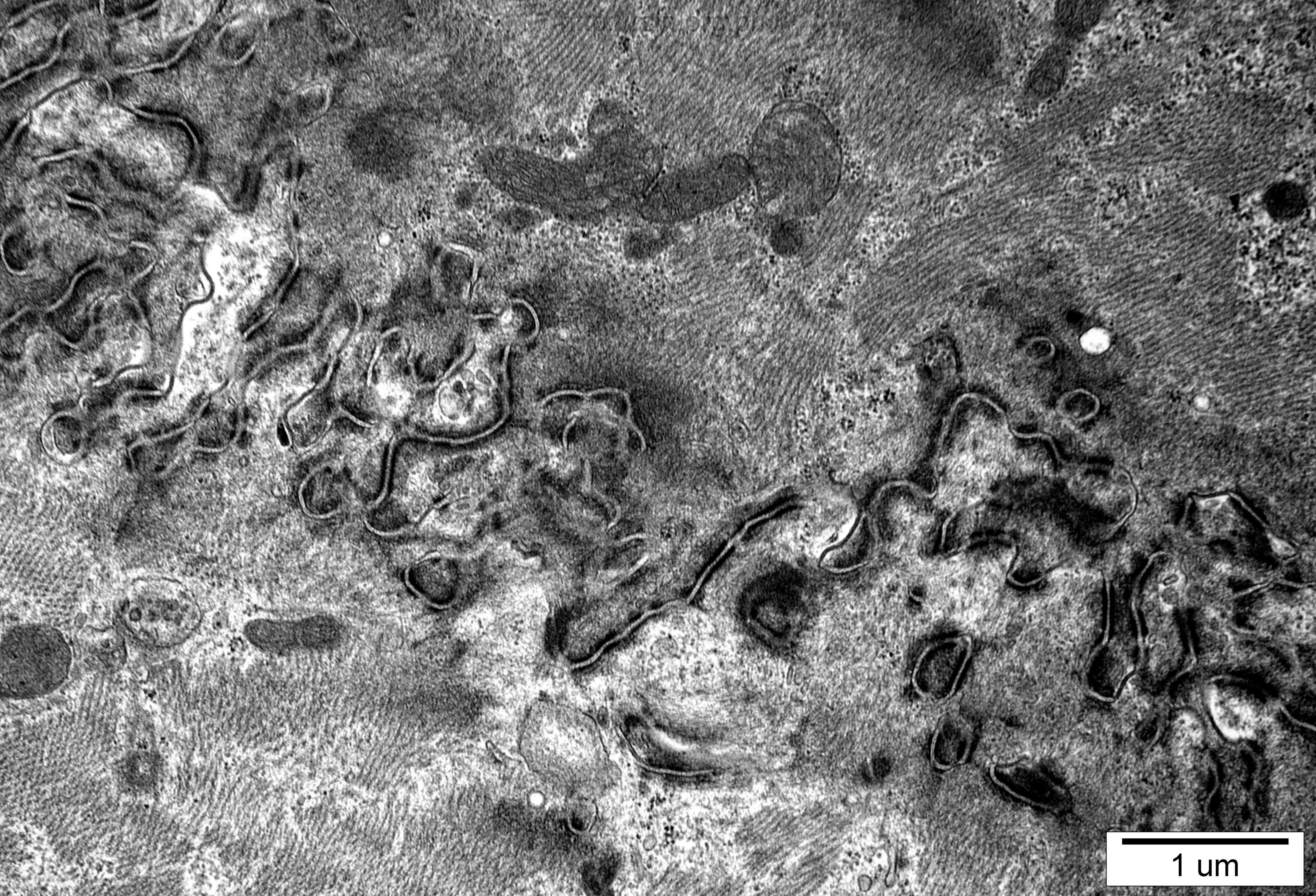
2 um





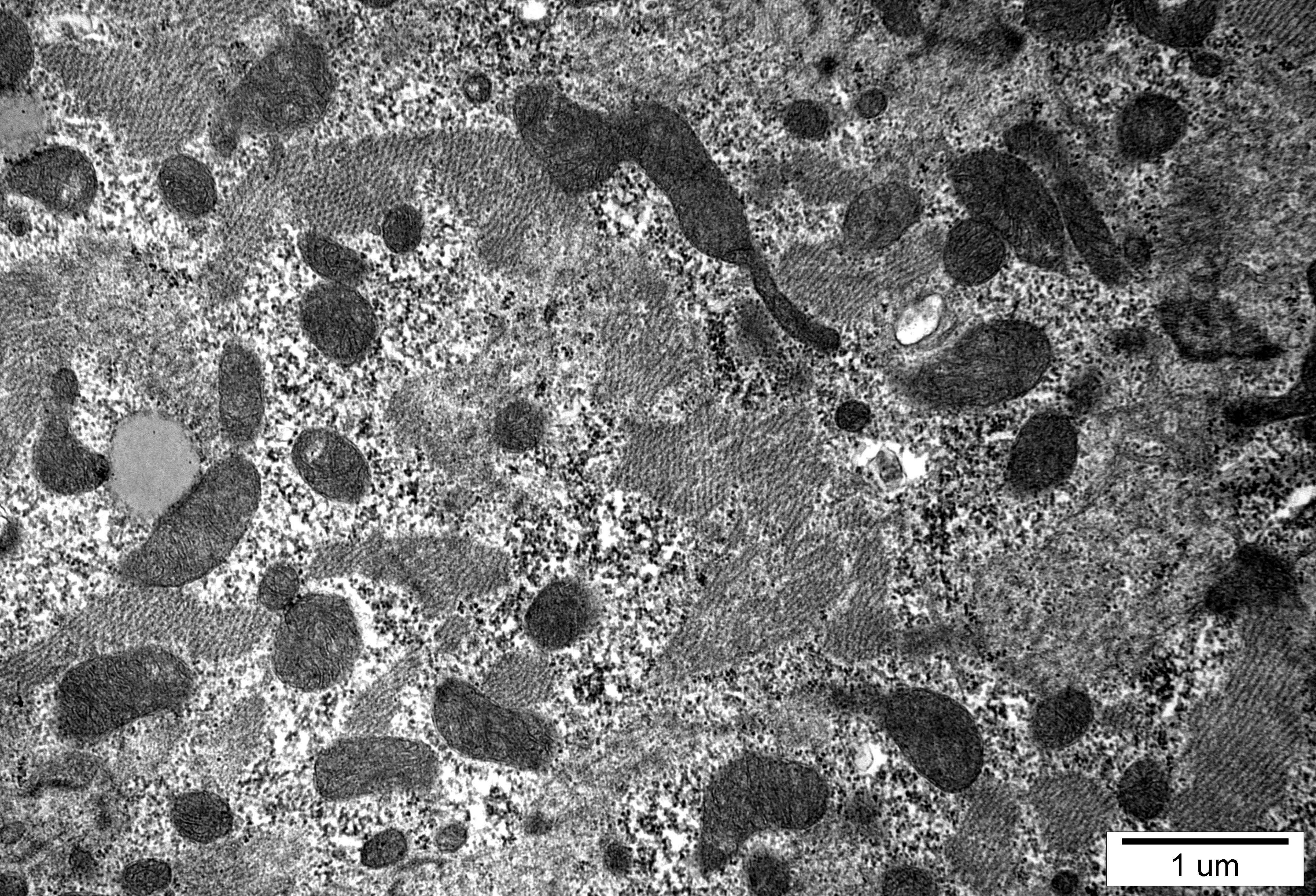
1 um





1 μm





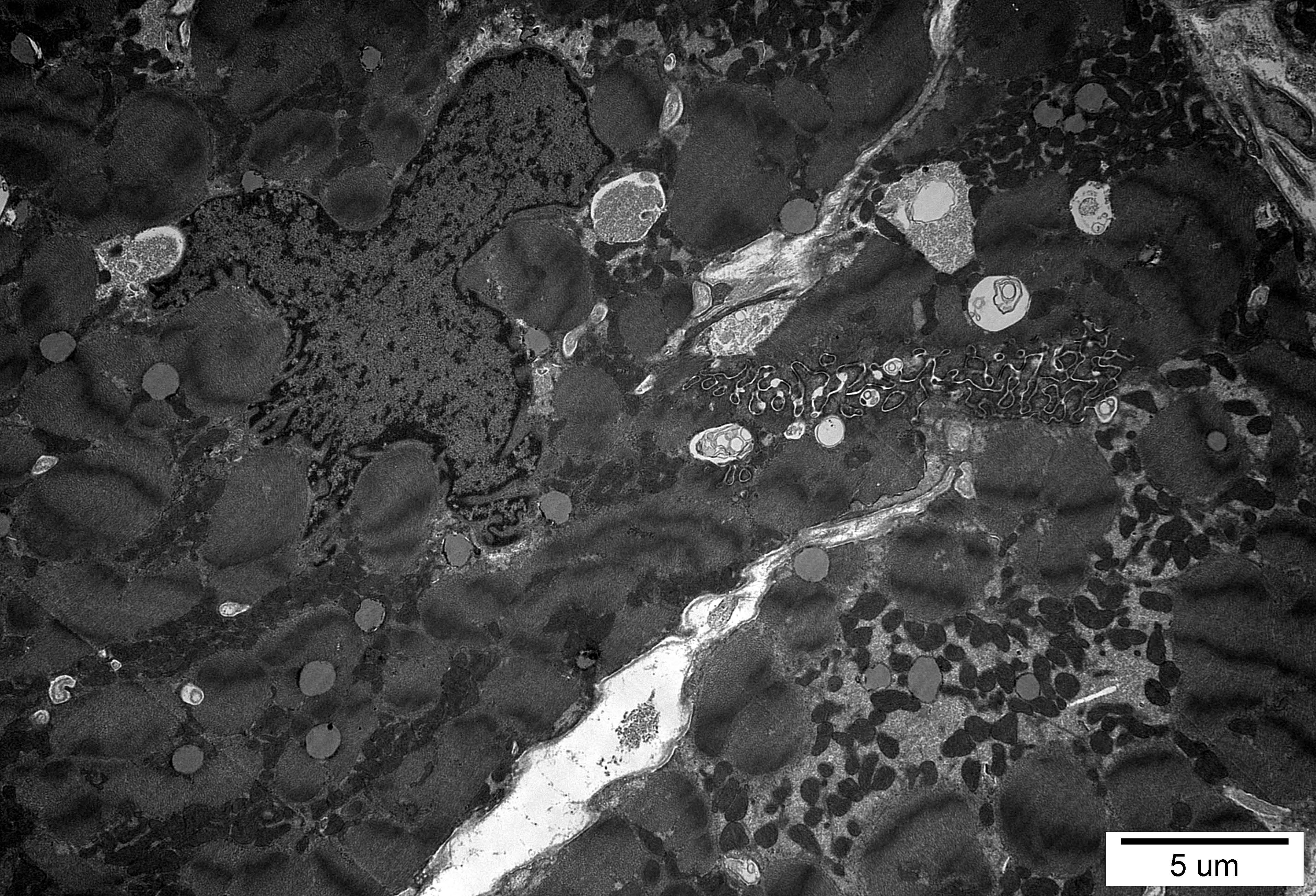
1 um





2 um





5 μm



9542-8

Ocena ultrastrukturalna wykazała zaburzenia w układzie sarkomerów i ich zatartą strukturę jednak nie stwierdzono znacznego ubytku miofibryli (Fig. 9542-8-7, 14, 13, 12). Jądra kardiomiocytów były w większości prawidłowe i położone ośrodkowo (Fig. 9542-8-9, 21), niektóre charakteryzowały się wydłużonym kształtem i licznymi wgłobieniami błony jądrowej (Fig. 9542-8-15, 22, 32). Obserwowano liczne lipofuscyny (Fig. 9542-8-27, 3, 4, 20) oraz krople lipidów (Fig. 9542-8-17, 18). Nie stwierdzono uszkodzeń w obrębie mitochondriów, struktura grzebieni mitochondrialnych była zachowana (Fig. 9542-8-28). Wstawki (intercalated discs) charakteryzowały się natomiast bardzo nieregularnym przebiegiem (Fig. 9542-8-10, 11, 25, 29). W przestrzeni zewnątrzkomórkowej widoczna była dość obfita tkanka łączna i naczynia z licznymi pęcherzykami pinocytarnymi w endotelium (Fig. 9542-8-8, 6, 5).

Ultrastructural evaluation revealed changes in sarcomeres arrangement and their blurred structure however no significant loss of myofibrils was observed (Figs. 9542-8-7,14,13,12). Most of the cardiomyocytes' nuclei showed normal ultrastructure and were centrally located (Figs. 9542-8-9,21), some were characterized by an elongated shape and numerous indentations of the nuclear membrane (Figs. 9542-8-15,22,32). Abundant lipofuscin deposits (Fig. 9542-8-27,3,4,20) and numerous lipid droplets (Fig. 9542-8-17,18) were observed. No mitochondrial damage was noticed, and structure of mitochondrial cristae was preserved (Fig. 9542-8-28). However, the intercalated discs were characterized by a very irregular course (Figs. 9542-8-10,11,25,29). Quite abundant connective tissue and vessels with numerous pinocytic vesicles in the endothelium were visible in the extracellular space (Figs. 9542-8-8,6,5).