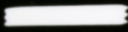


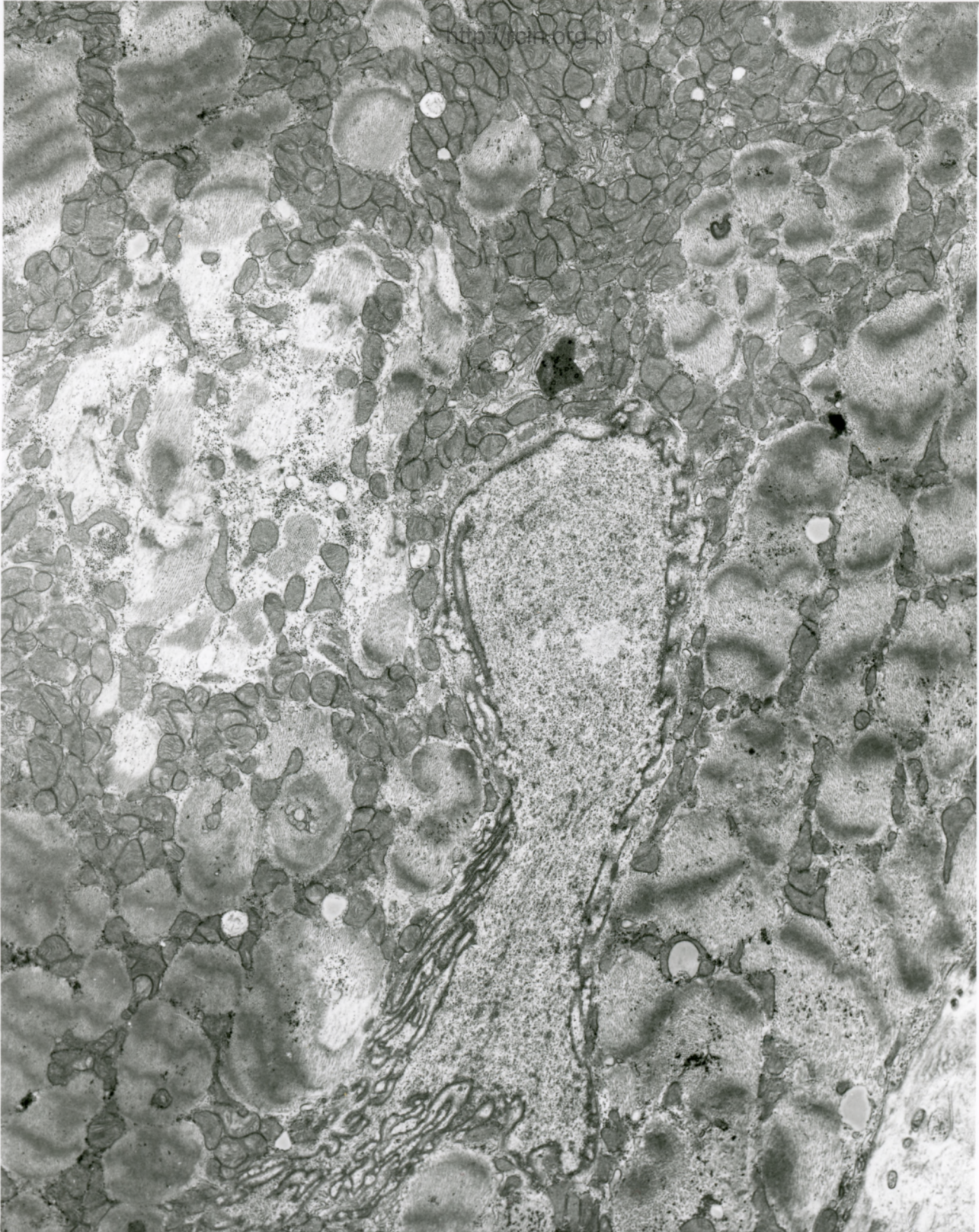
AF /09
090825 80.0KV X2500



24

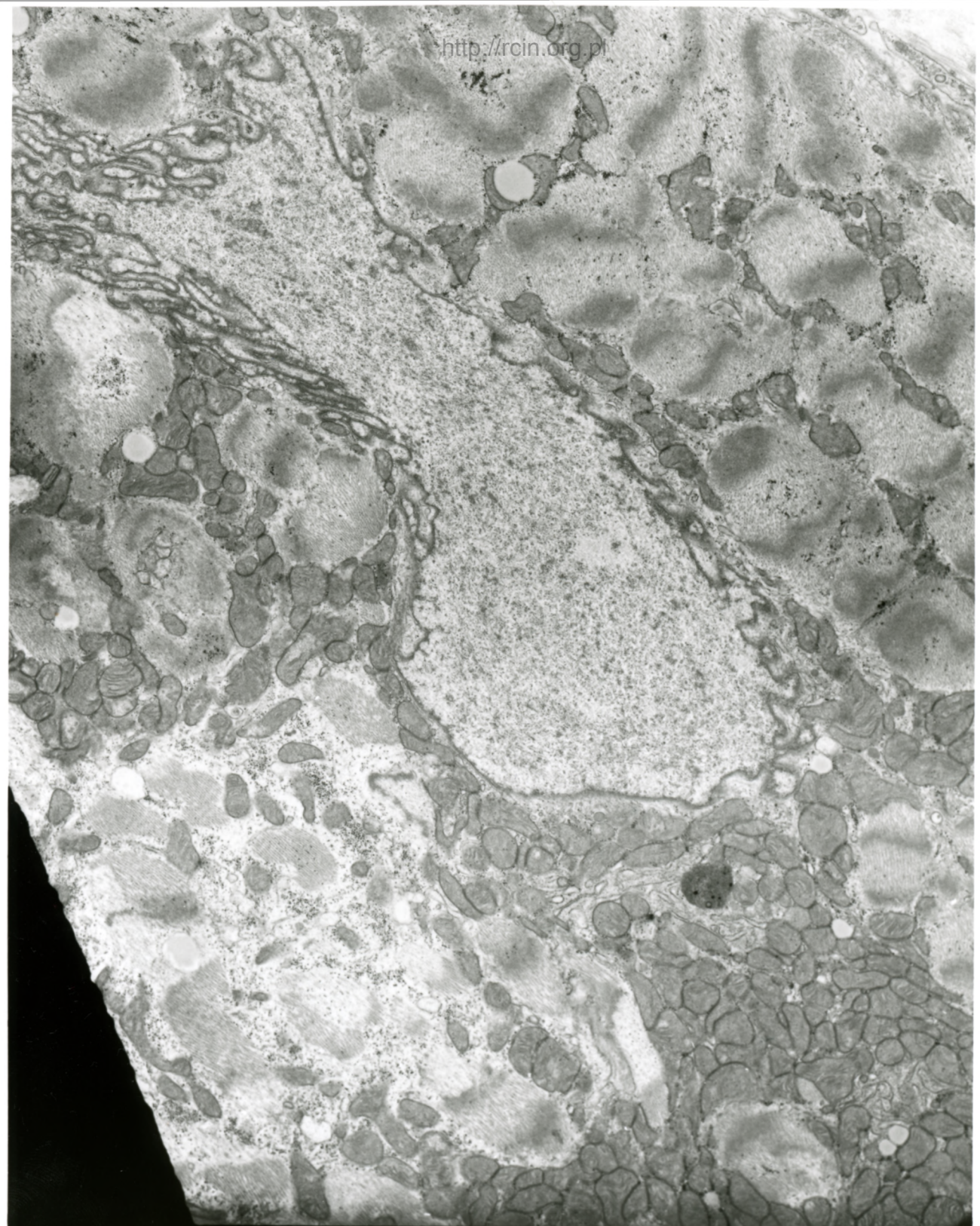
Fig. 1

http://www.oxj.org.pl



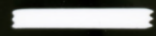
AF 32/09/SERCE
091187 80.0KV X2500 2µm

Fig. 2



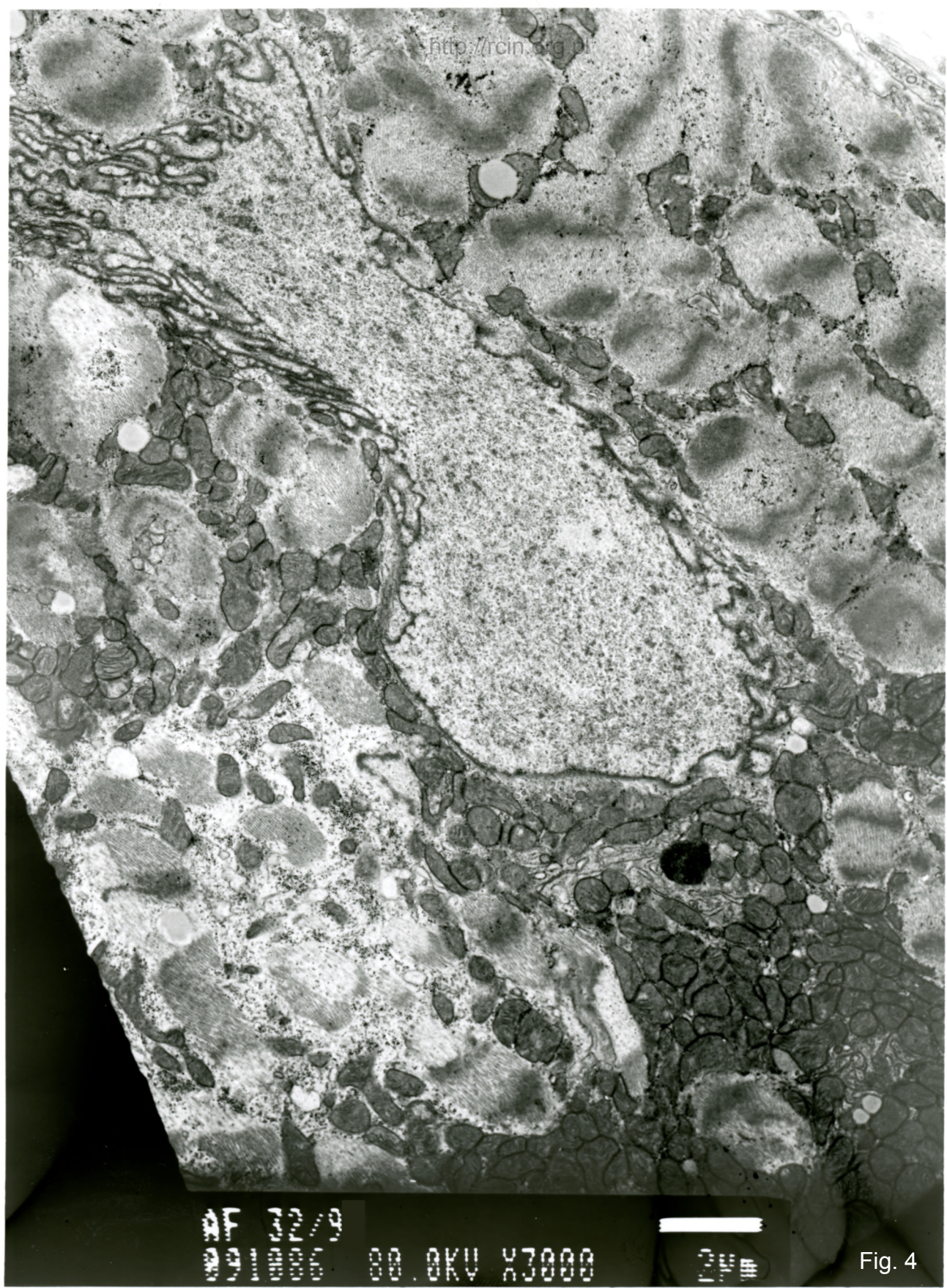
AF 22/98
0910006

00.0KV X3000



2µm

Fig. 3



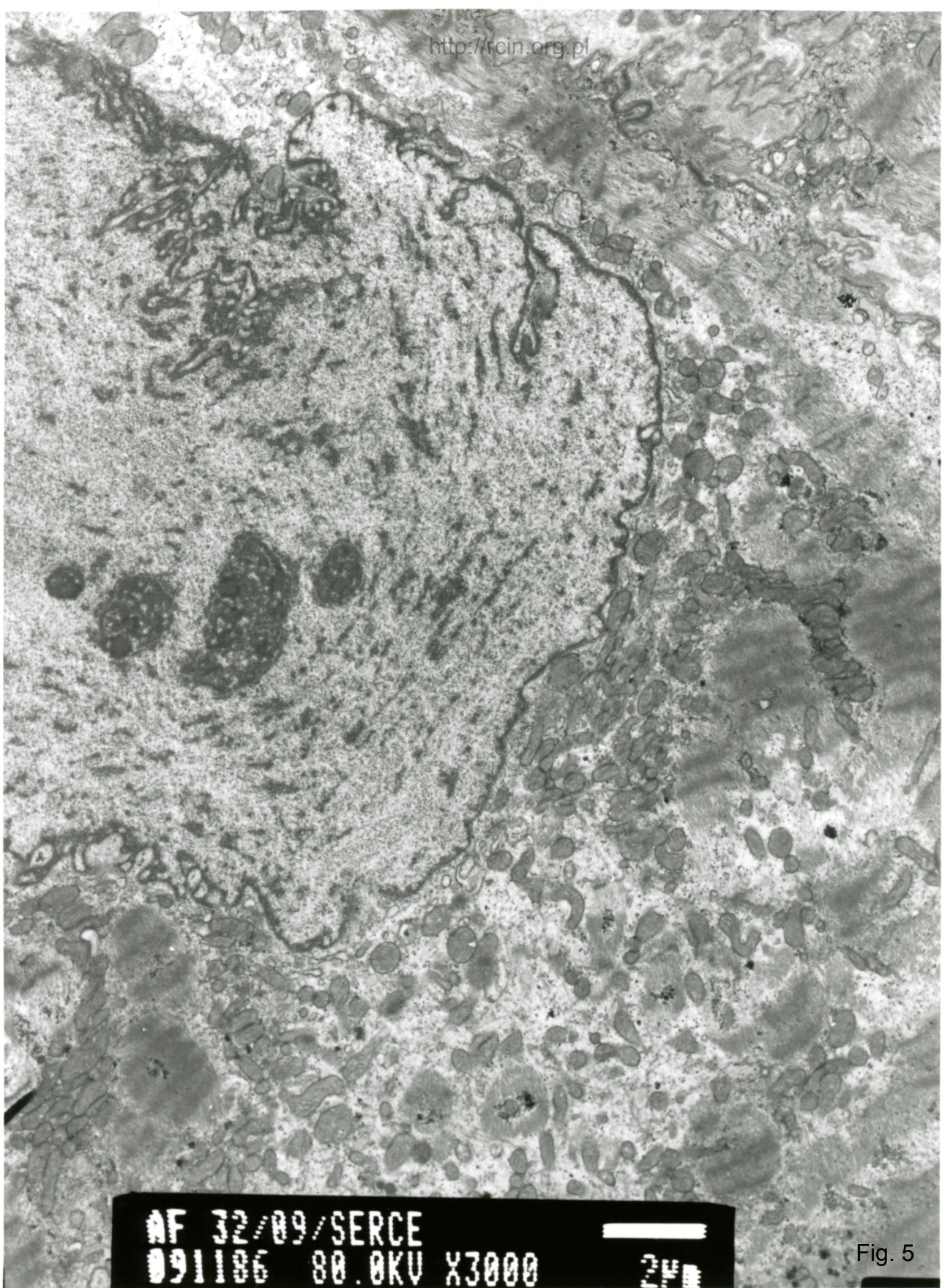
DF 24/09/00

00.0KV X3000



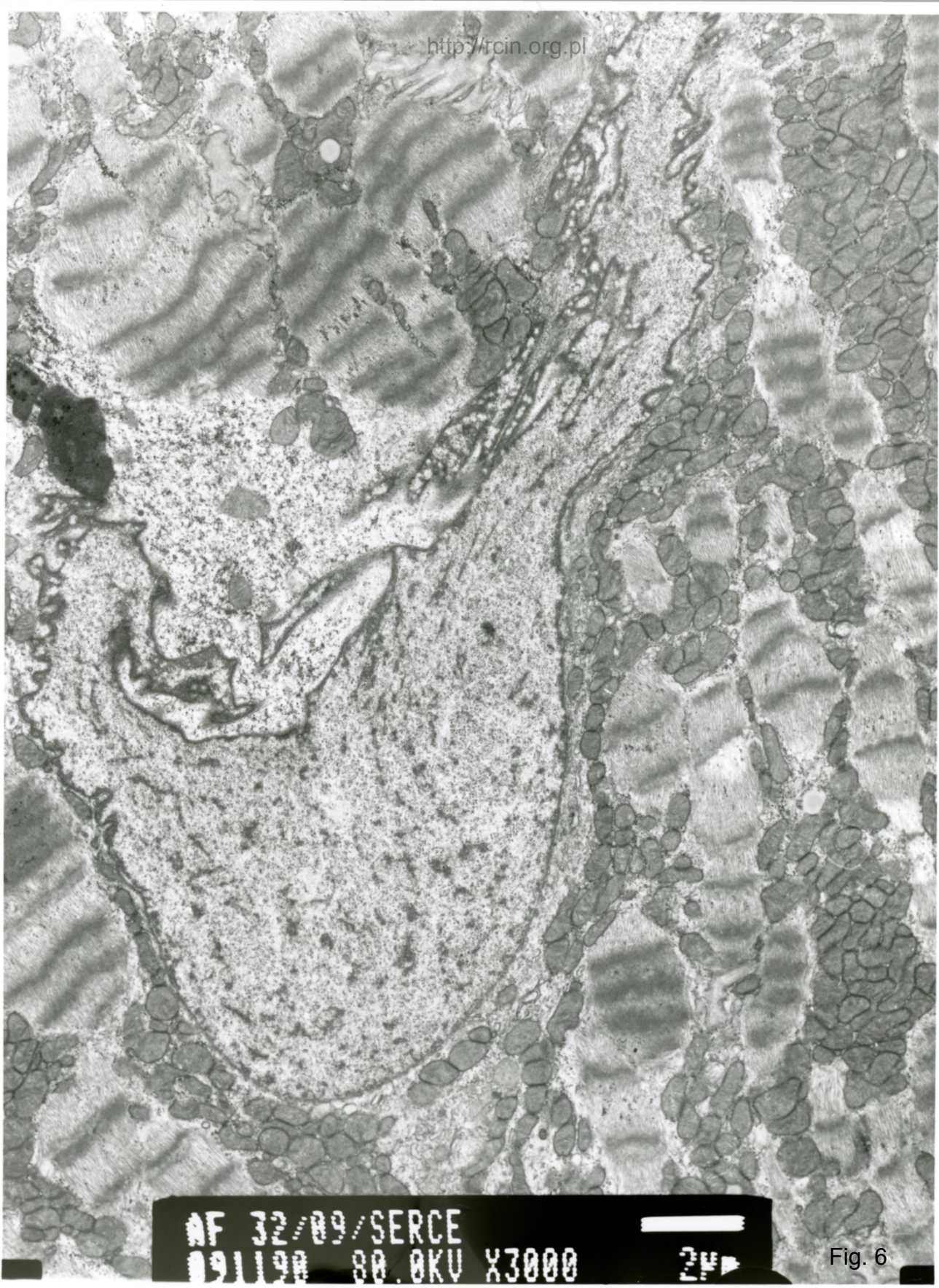
1000 nm

Fig. 4

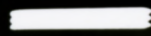


NF 32/09/SERCE
091186 80.0KV X3000 24

Fig. 5



AF 32/09/SERCE
09/198 80.0KV X3000



2µ

Fig. 6

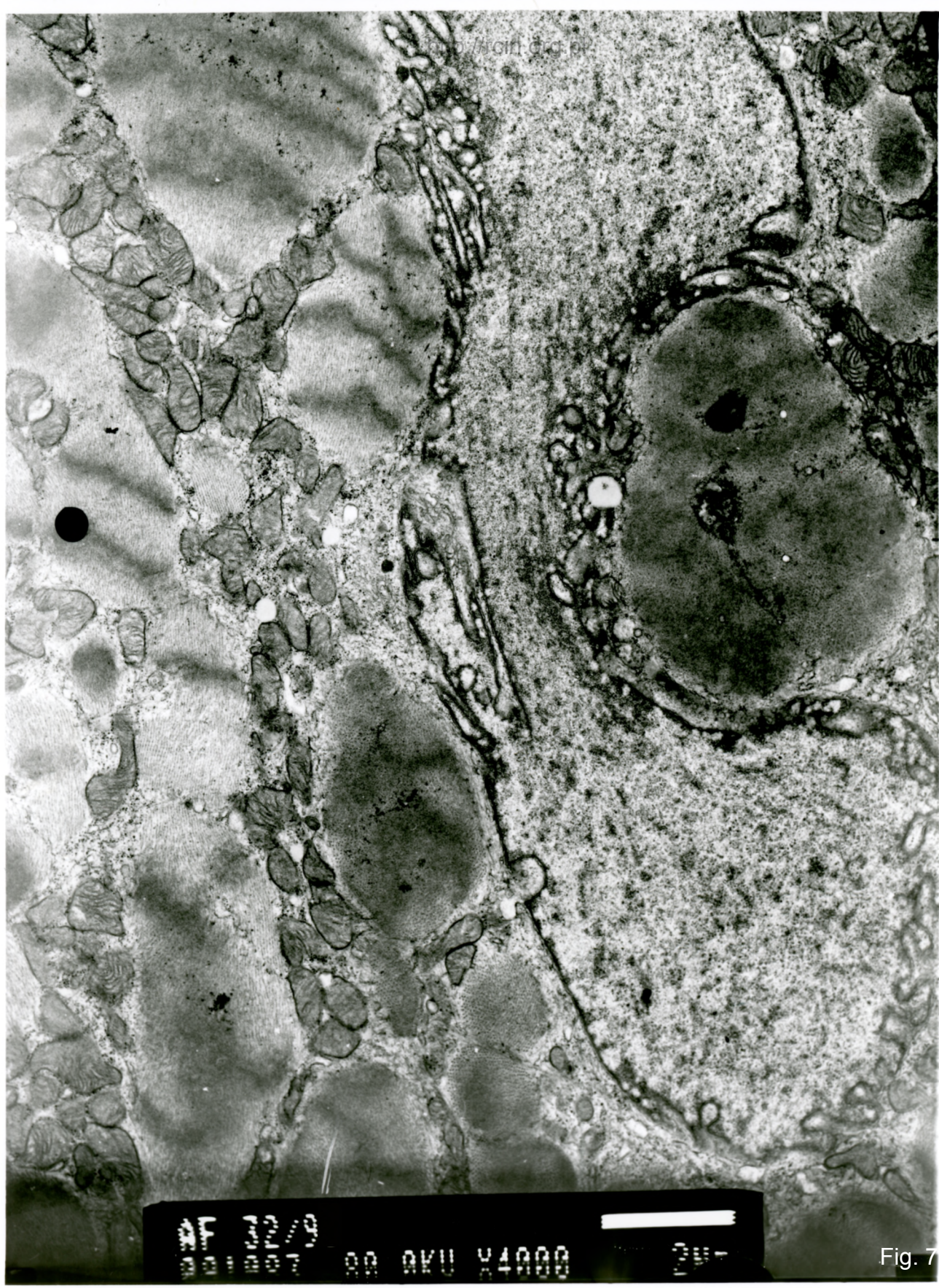
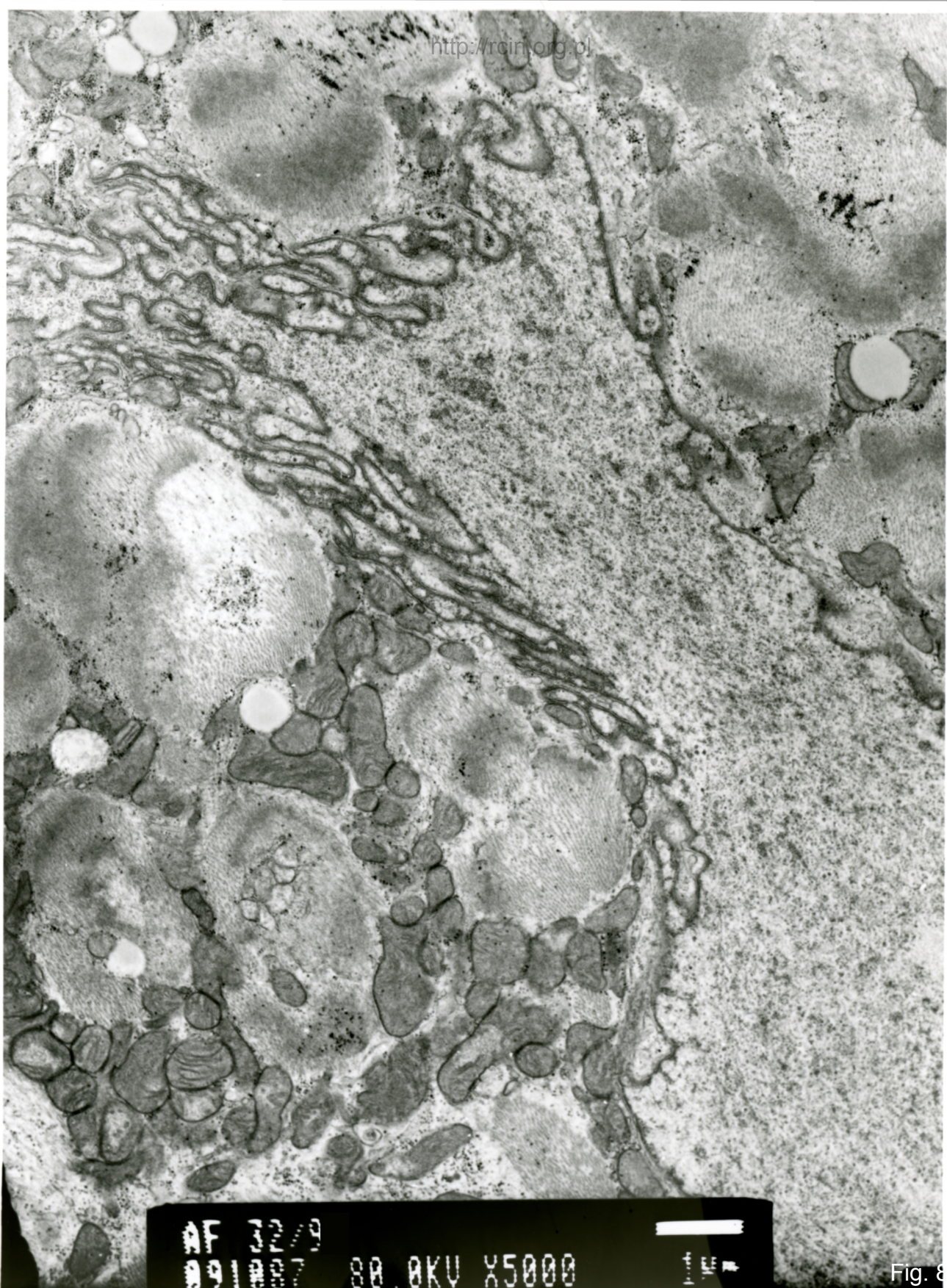


Fig. 7



AF 32/9

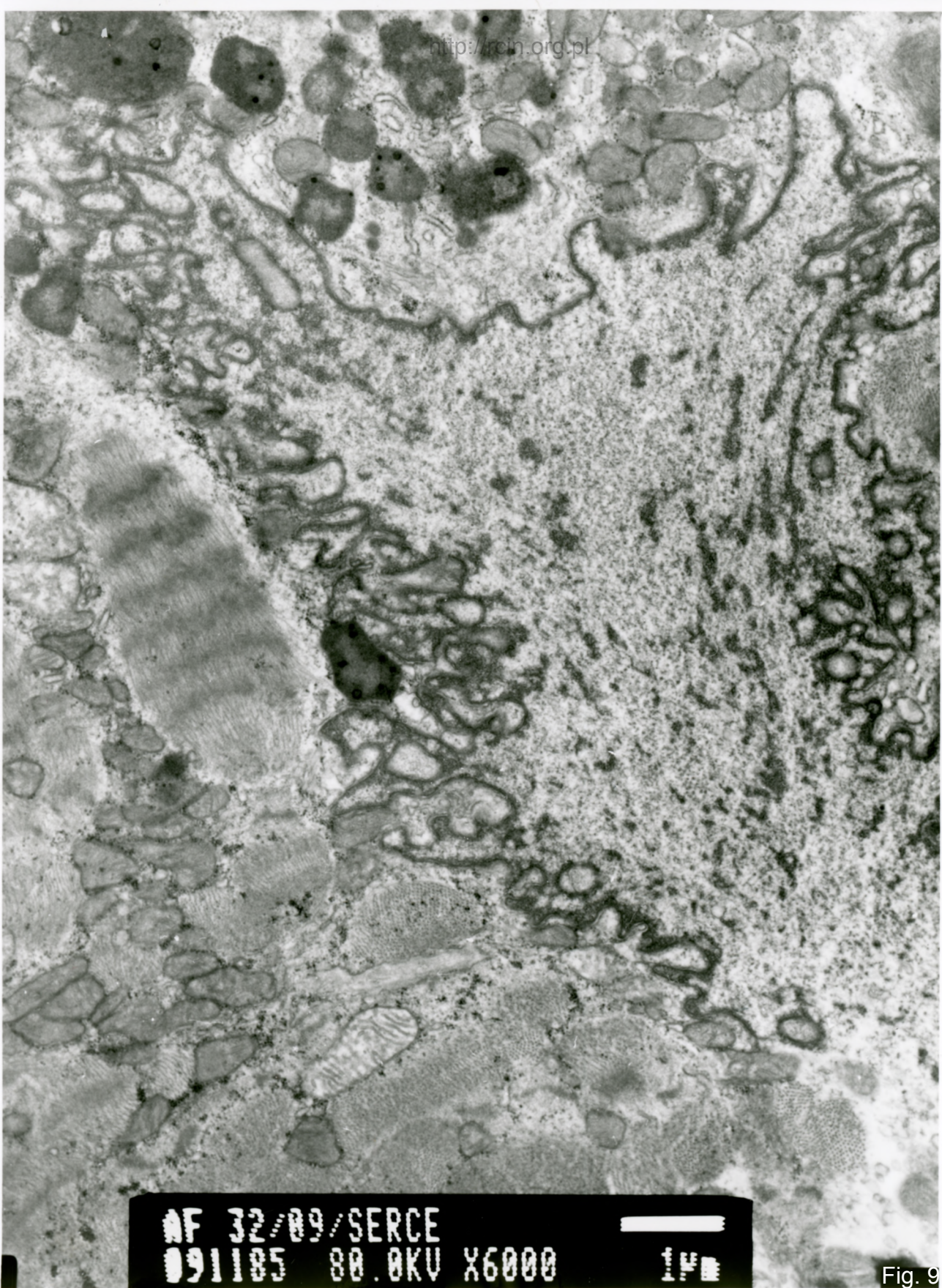
091807

80.0KV X5000

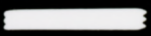


1 μm

Fig. 8

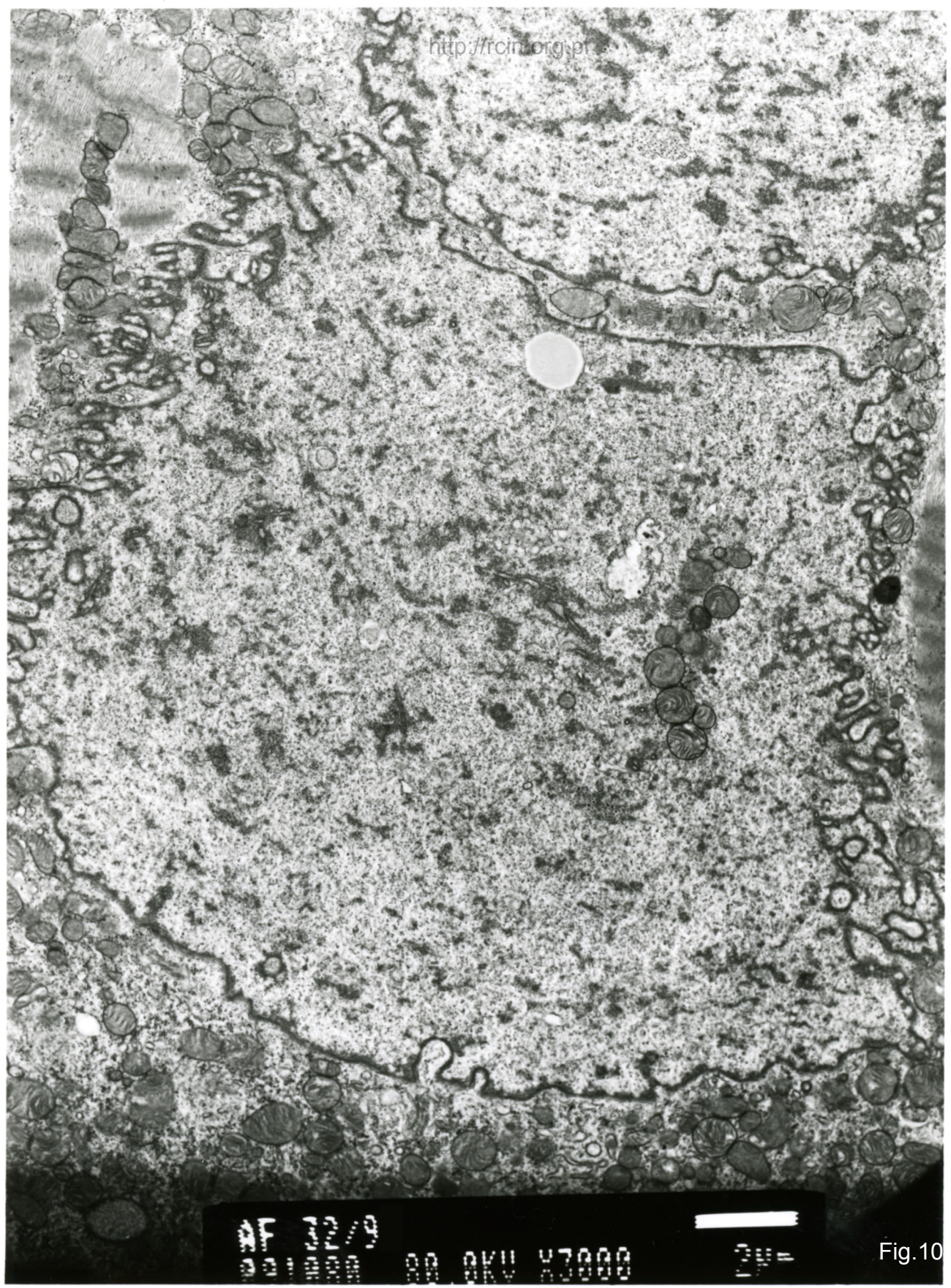


AF 32/09/SERCE
091185 80.0KV X6000



1 μm

Fig. 9



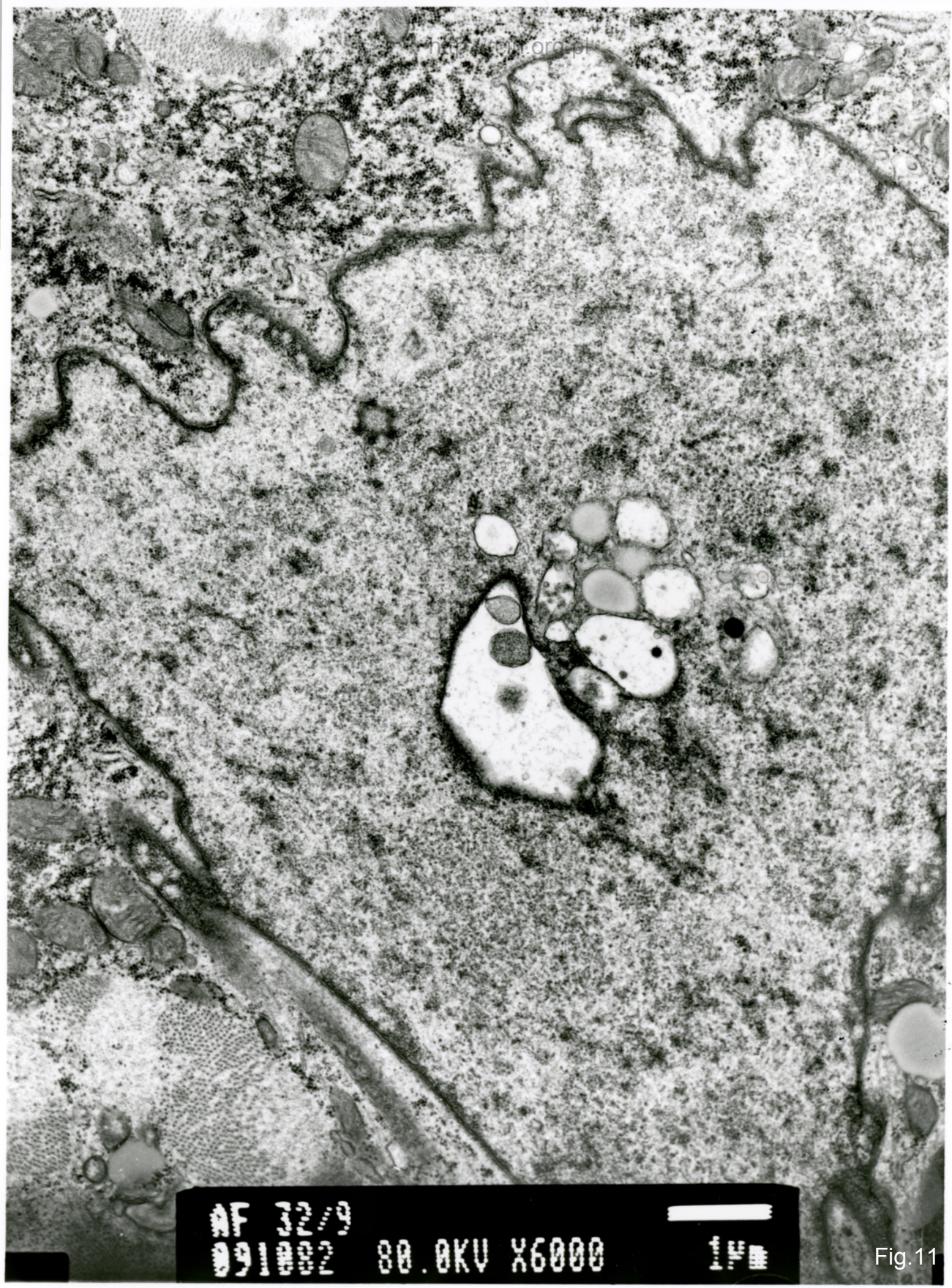
227
100000
100000

80.0KV X3000



2µm

Fig. 10



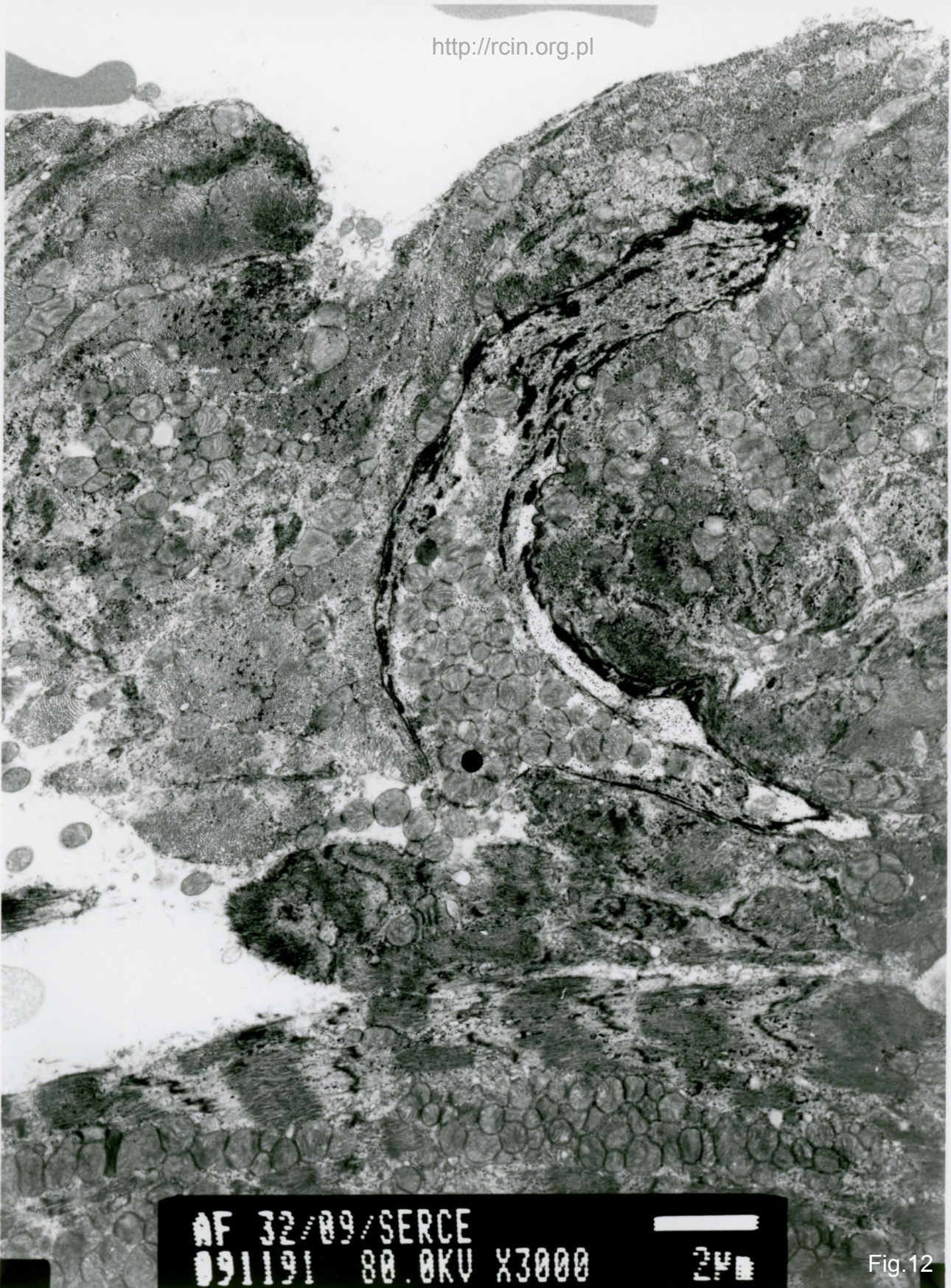
AF 32/9

091002

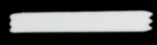
80.0KV X6000

14

Fig.11

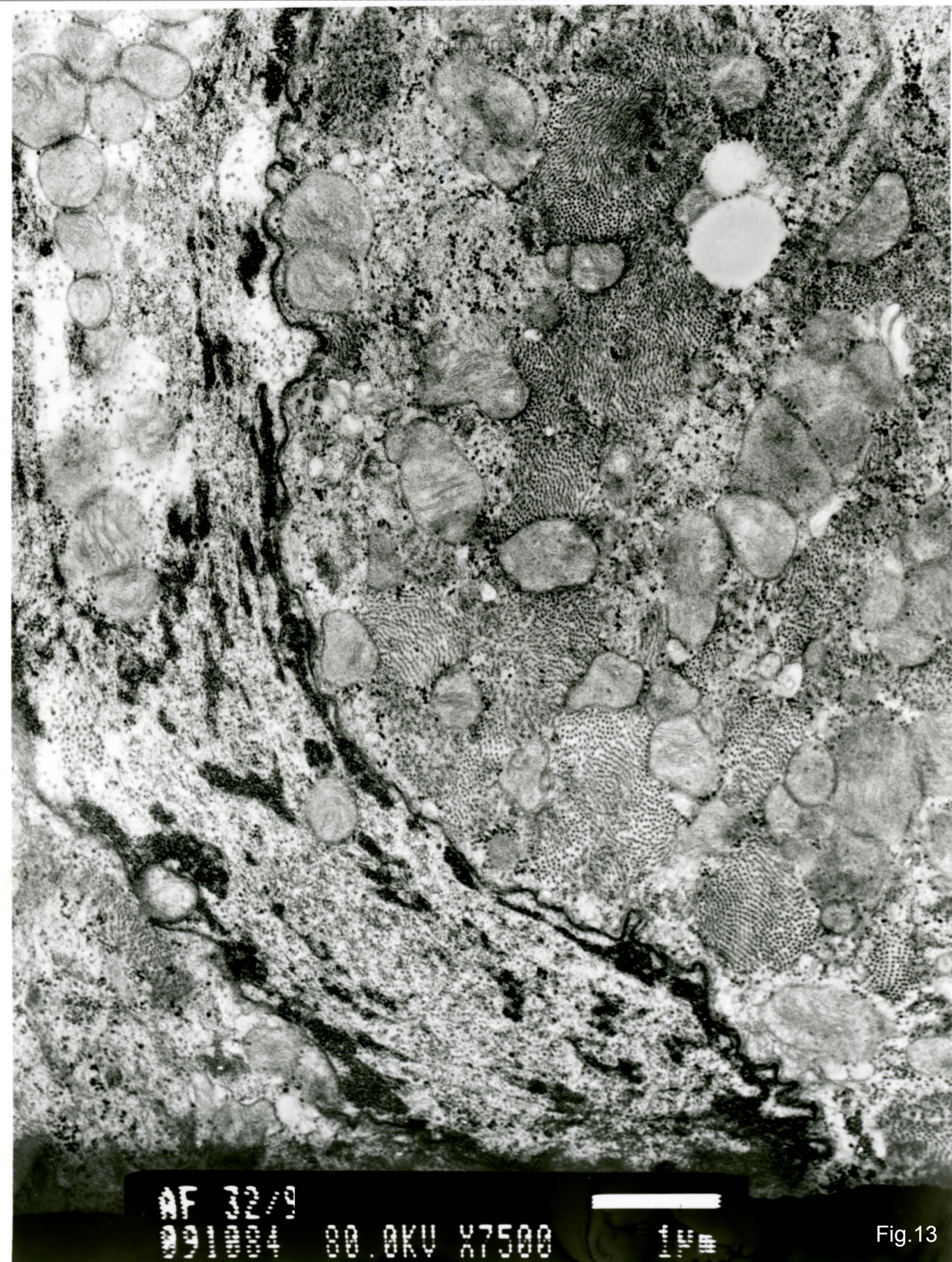


AF 32/09/SERCE
091191 80.0KV X3000



2µm

Fig.12



001 1000 1000 1000

80.0KV X7500

1µm

Fig.13

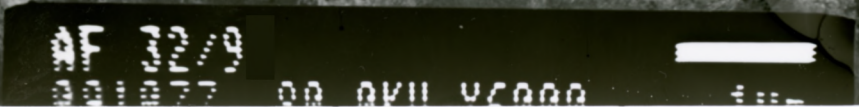
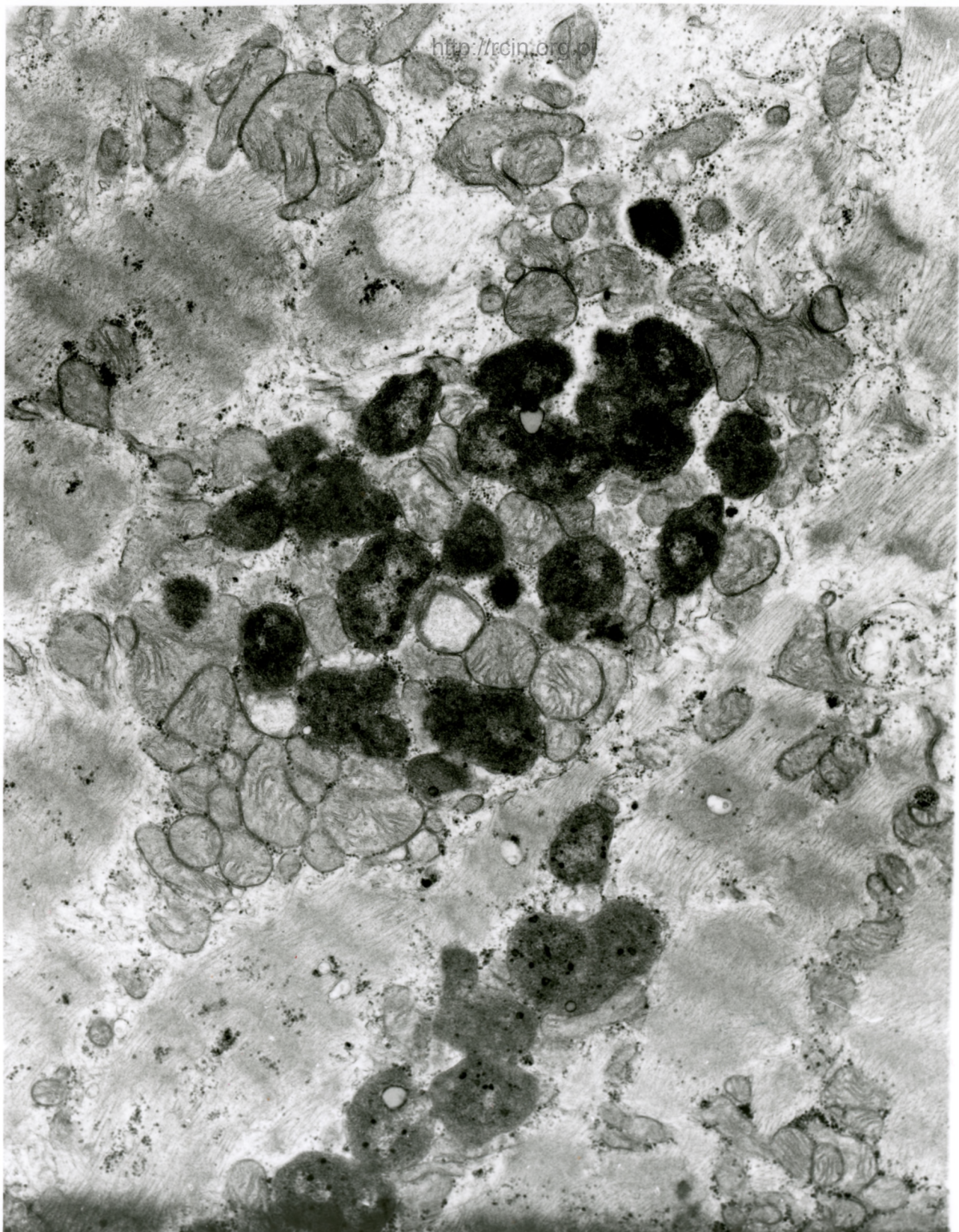
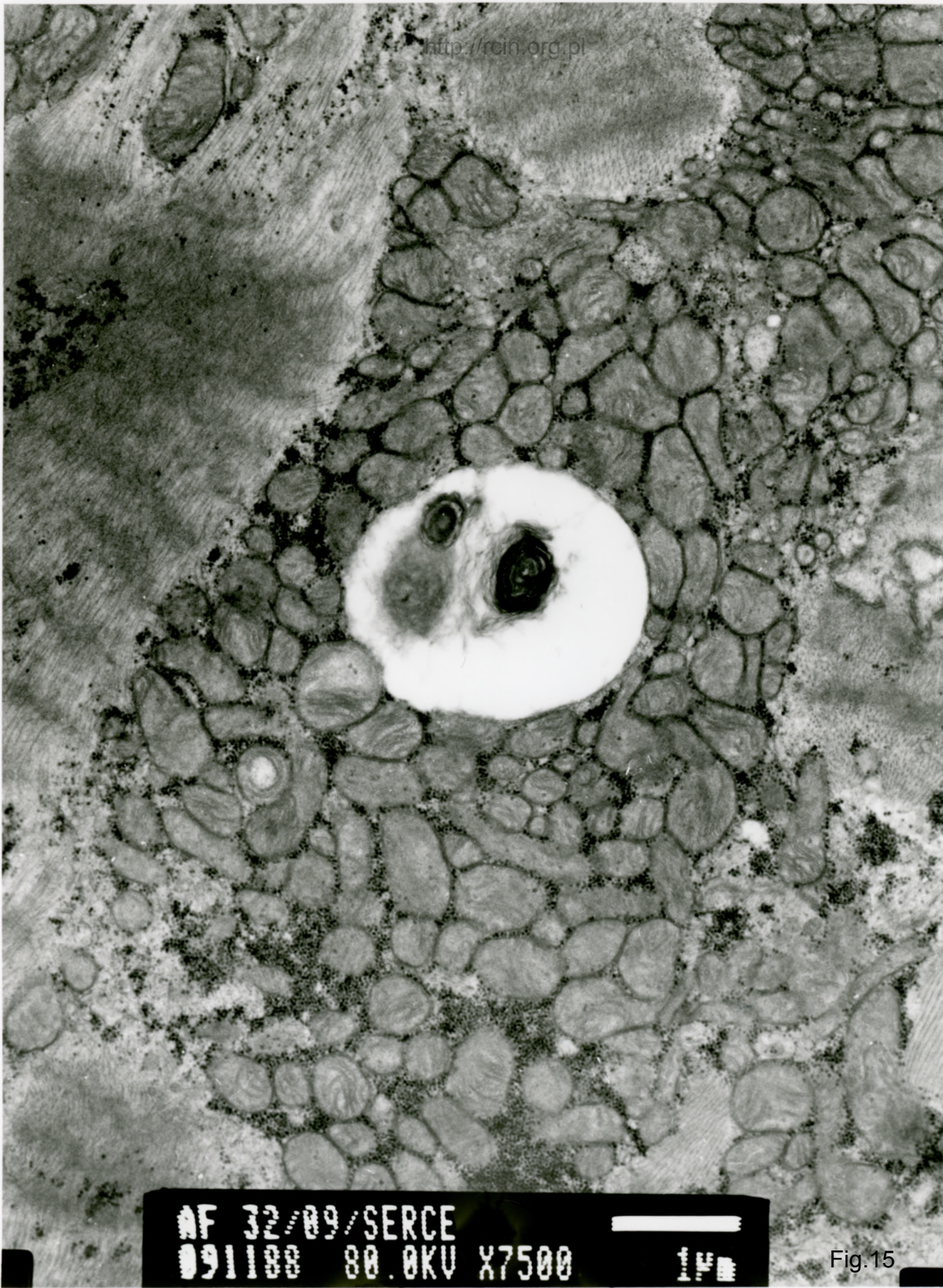


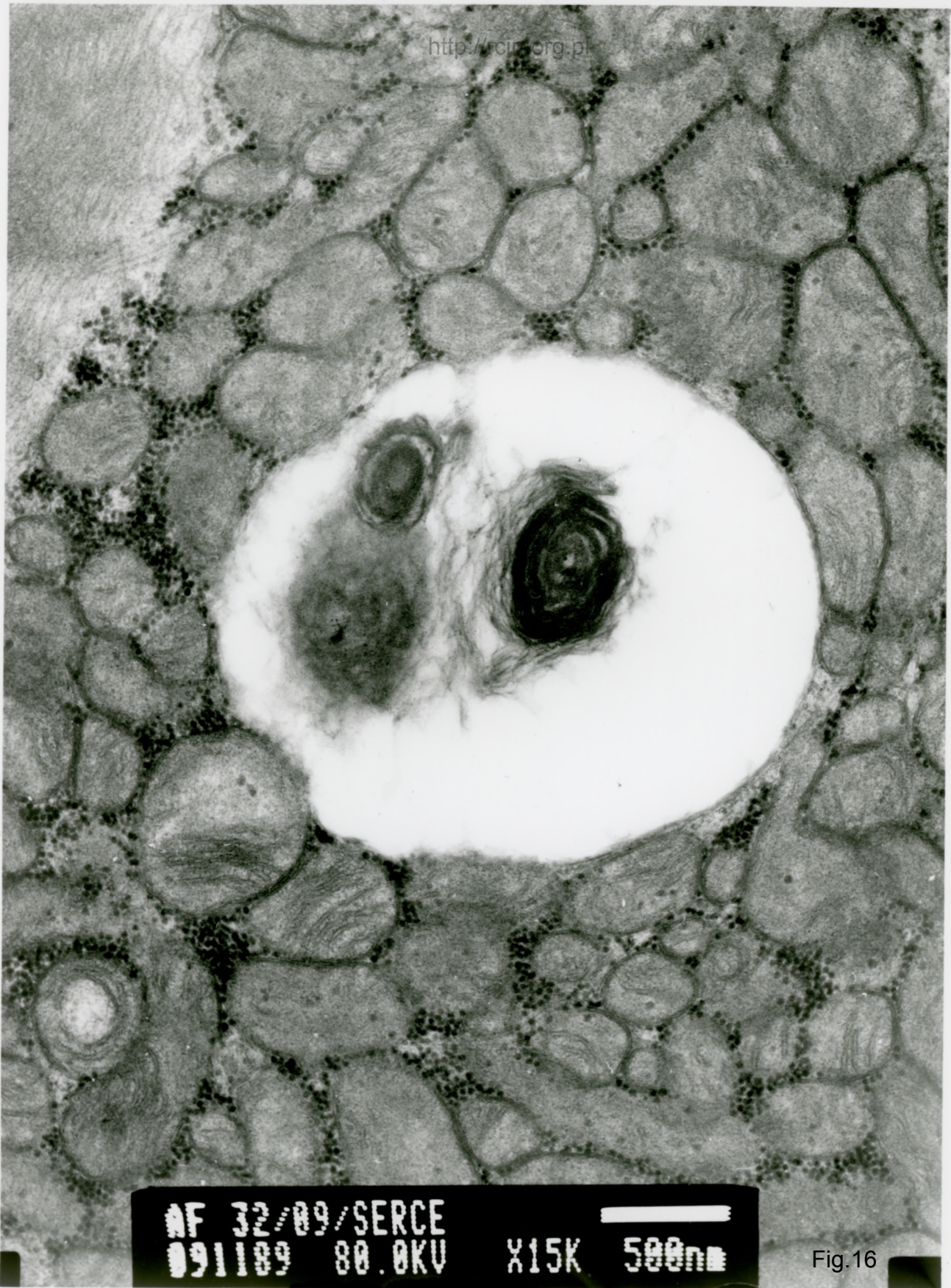
Fig.14



AF 32/09/SERCE
091188 80.0KV X7500

14

Fig.15



AF 32/09/SERCE
091189 80.0KV X15K 500nm

Fig.16

32/09

1. 35

Kardiomiopatia rozstrzeniowa

Analiza ultrastrukturalna wykazała nieprawidłowy układ sarkomerów, zaburzenia w przebiegu miofibrili oraz ich dezorganizację (Fig. 1,2,3). Obserwowano cechy charakterystyczne dla laminopatii. Jądra kardiomiocytów miały nieprawidłowy kształt, otoczka jądrowa była pofałdowana, z licznymi wgłobieniami, a miejscami przzerwana (Fig. 4-9). Wiele jąder zawierało w swym wnętrzu organelle komórkowe lub obłonione struktury (Fig. 10-13). Miejscami obserwowano złogi lipofuscyny (Fig. 14) i ciała mielinopodobne (Fig. 15,16).

Dilated cardiomyopathy

Ultrastructural analysis revealed changes in sarcomere pattern, myofibrils disruption and disorganization (Figs. 1,2,3). Features characteristic for laminopathy were observed. The nuclei of cardiomyocytes were abnormally shaped, the nuclear envelope was corrugated, with numerous indentations. Focally breaks in the nuclear membrane were seen (Figs. 4-9). Many nuclei contained cellular organelles or membrane-surrounded structures inside (Figs. 10-13). Lipofuscin deposits (Fig. 14) and myelin-like bodies (Figs. 15,16) were observed in some areas.