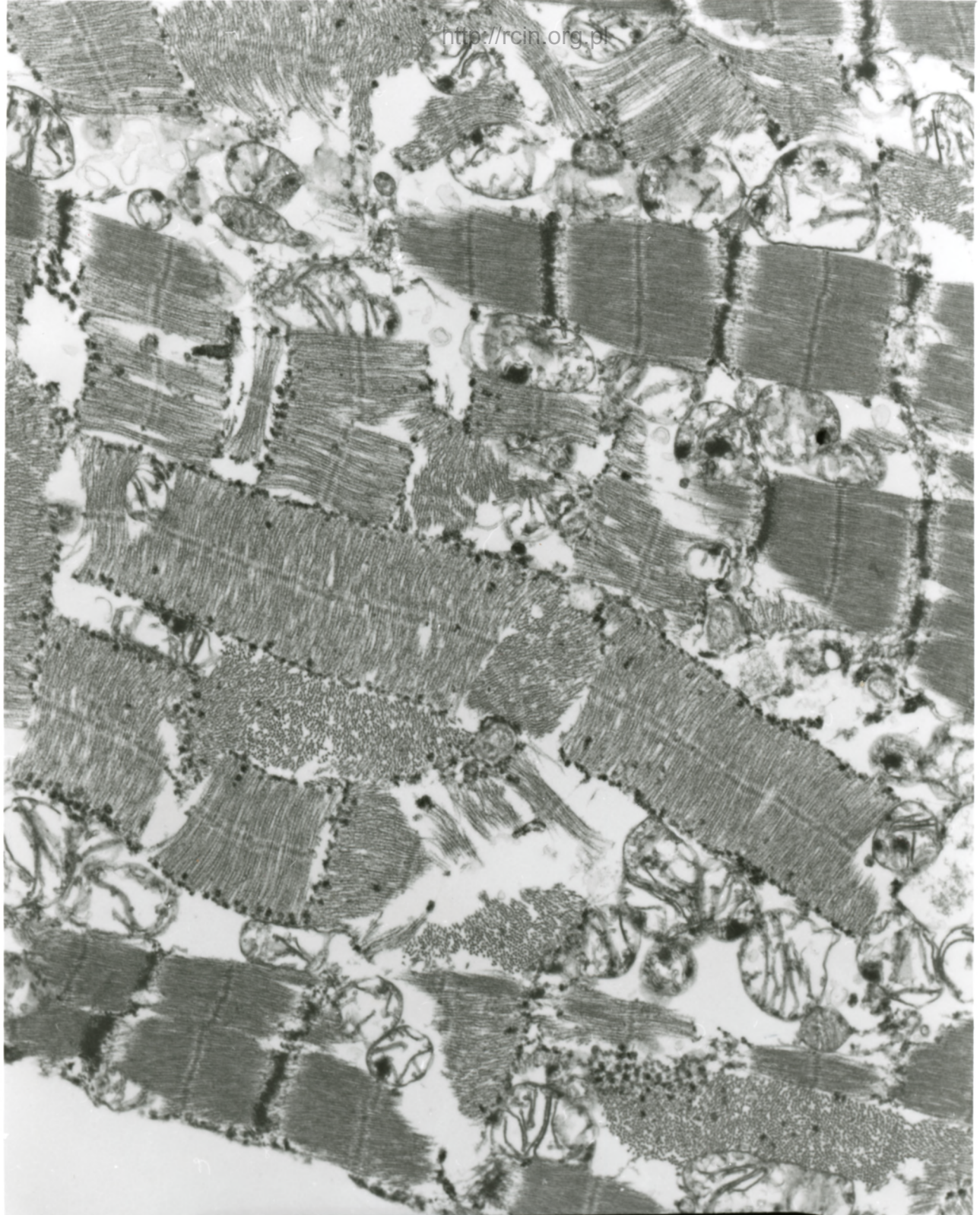


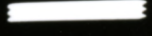
AF 19/05/SERCE  
110245 80.0KV X6000



Fig. 1



AF 19/05/SERCE  
110245 80.0KV X6000



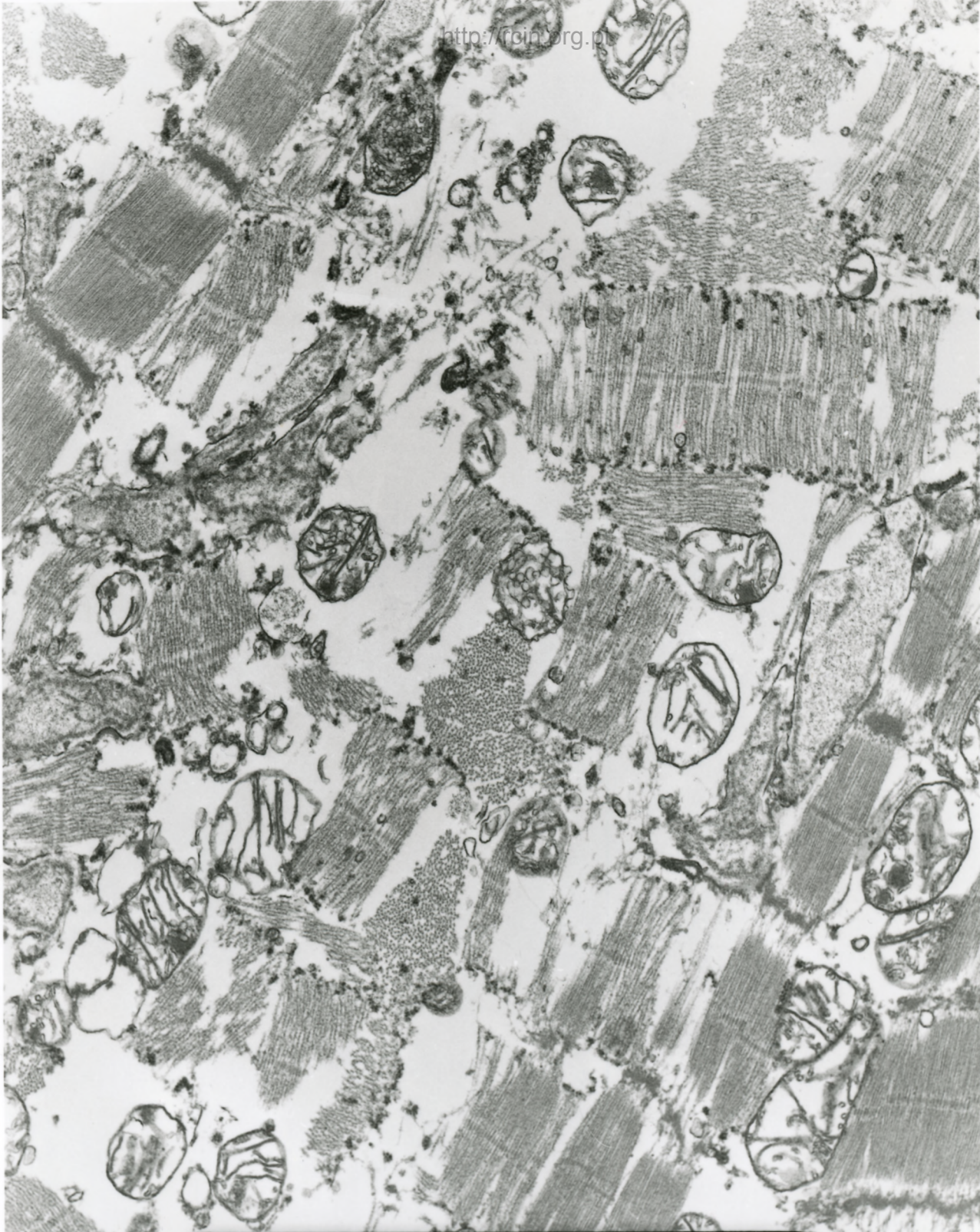
1µm

Fig. 2



AF 19/05/SERCE  
110247 80.0KV X6000

Fig. 3

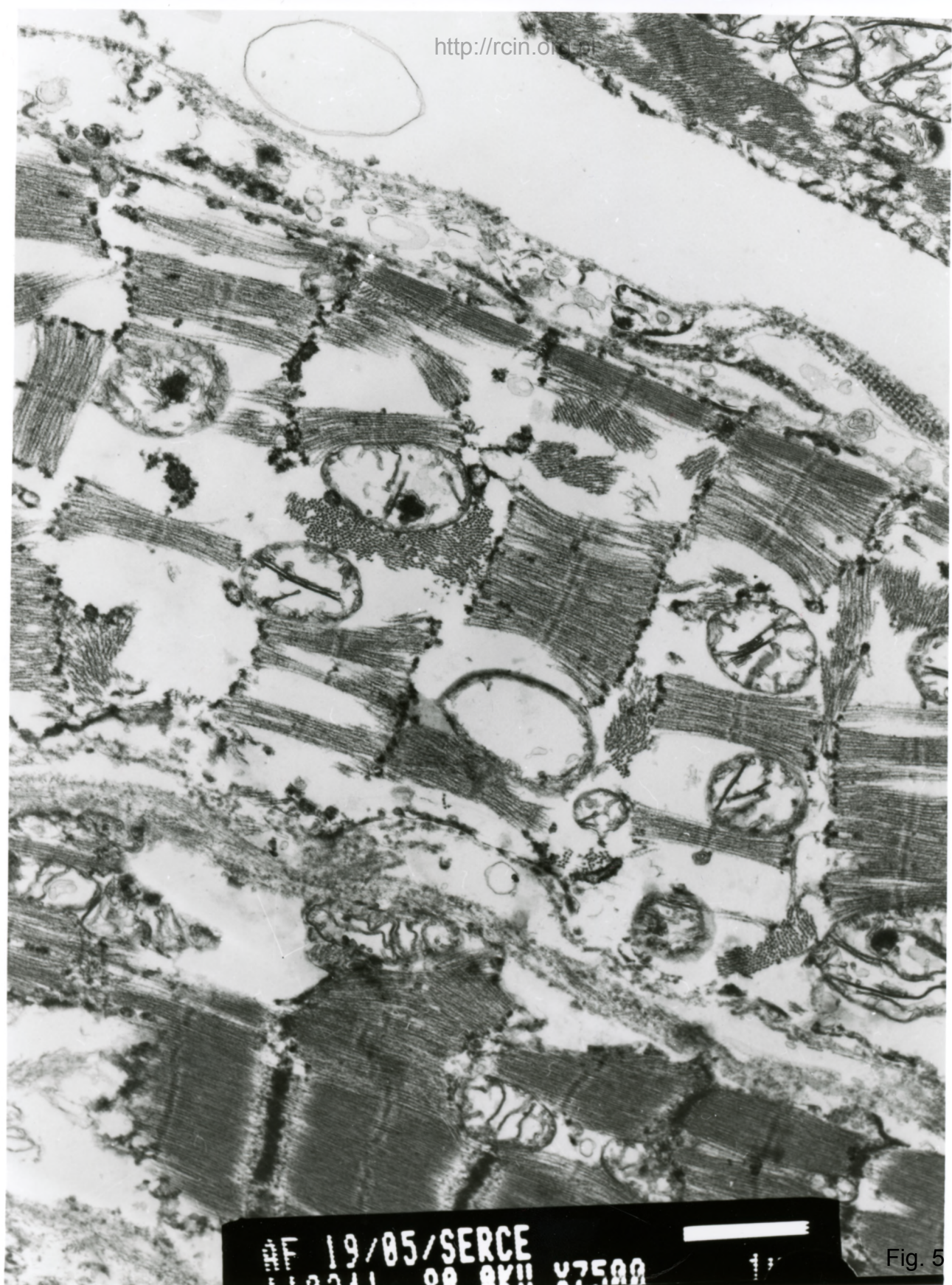


19/05/SERCE  
003525 80.0KV X7500



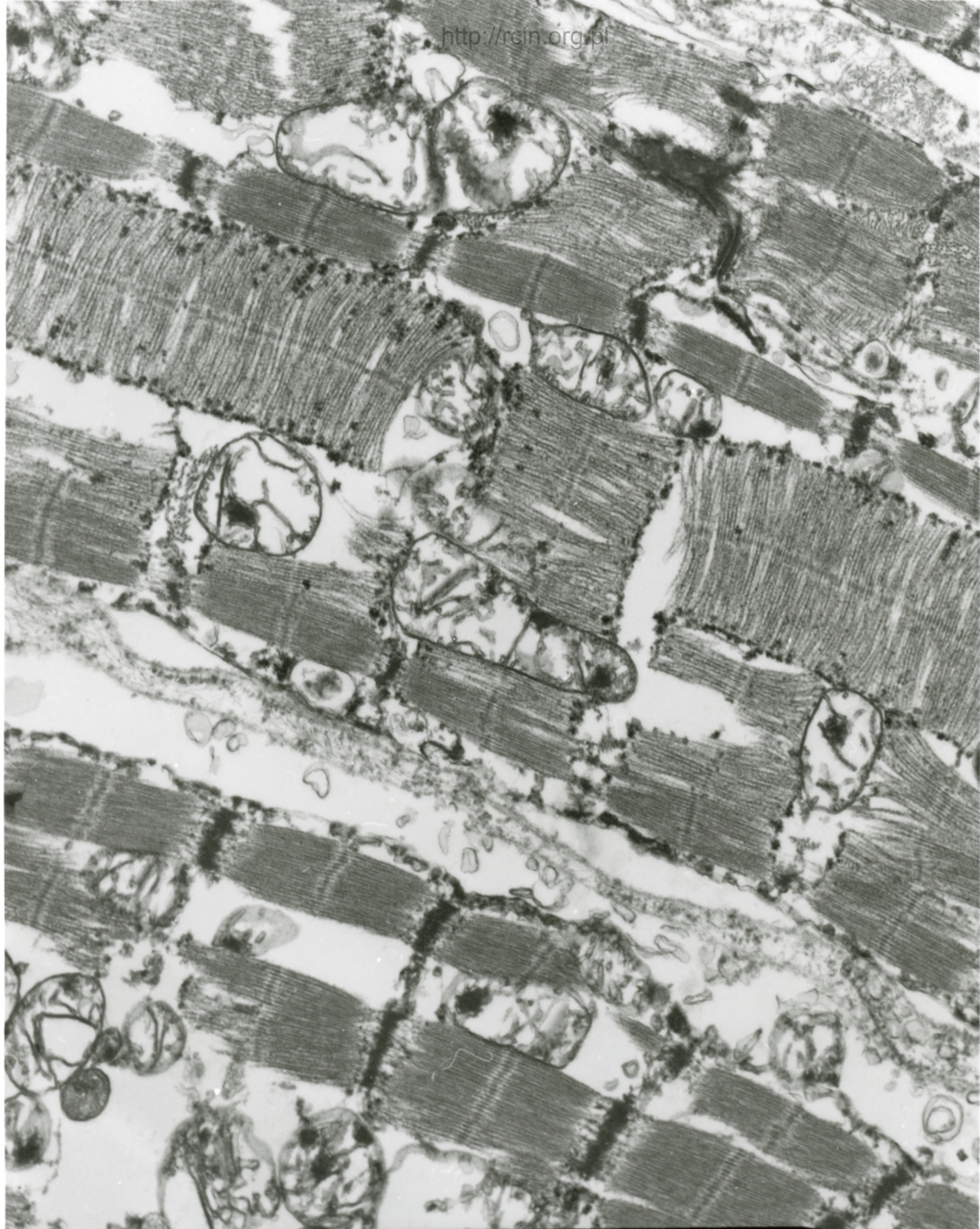
1 μm

Fig. 4



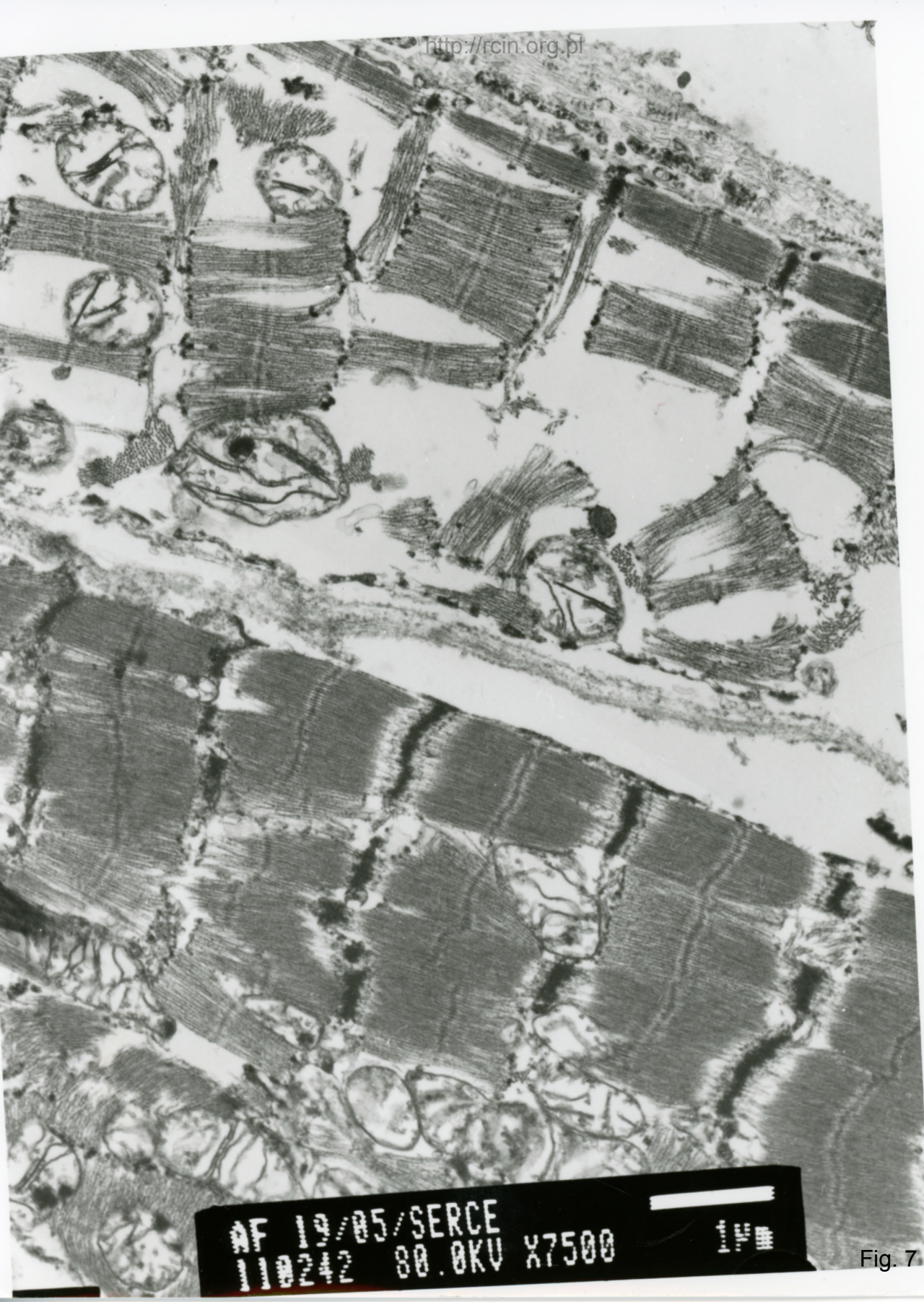
WF 19/05/SERCE  
110211 88 8K11 47500

Fig. 5



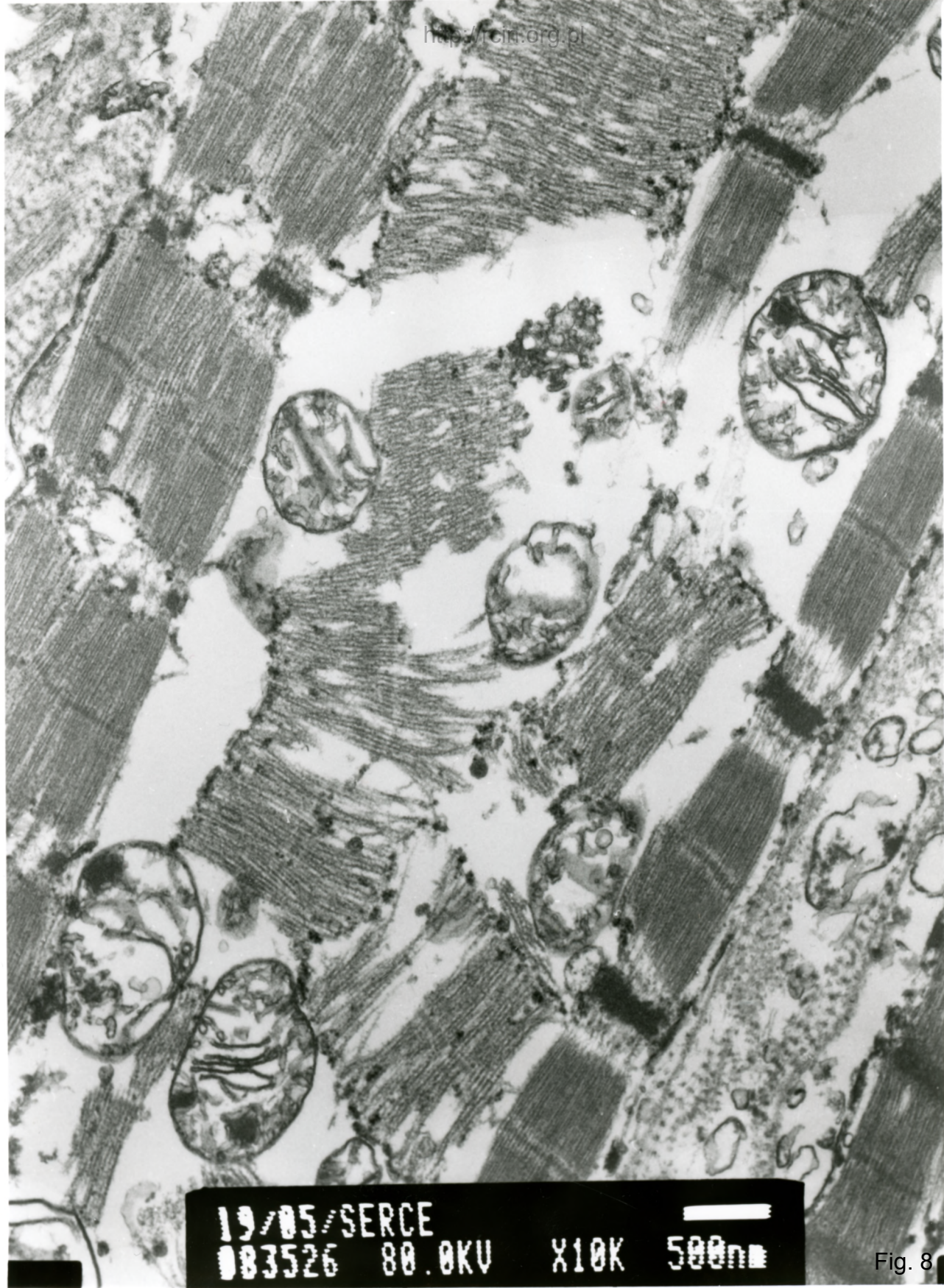
AF 19/05/SERCE  
110249 80.0KV X7500 1µm

Fig. 6



AF 19/05/SERCE  
110242 80.0KV X7500

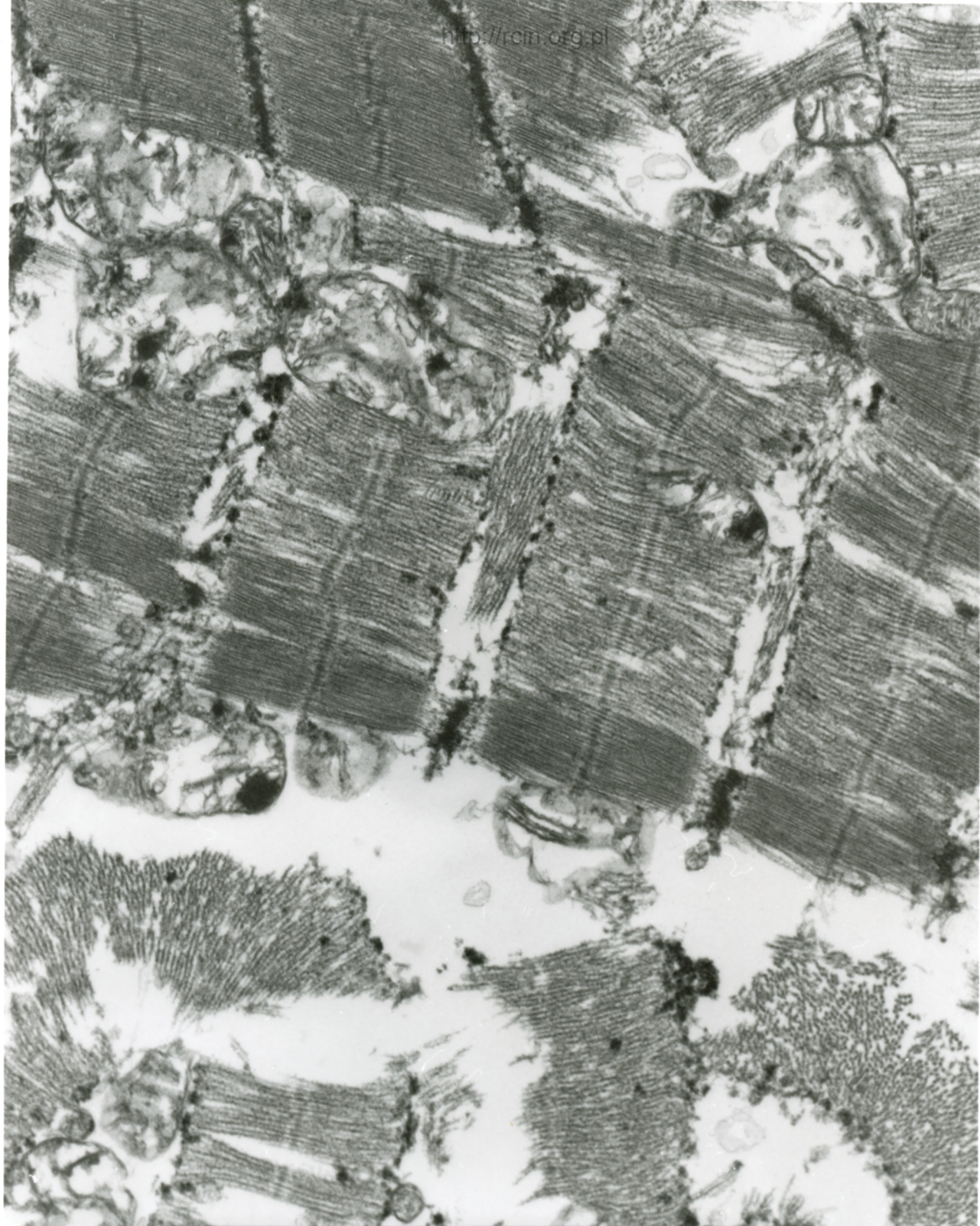
Fig. 7



19/05/SERCE  
083526 80.0KV X10K 500nm

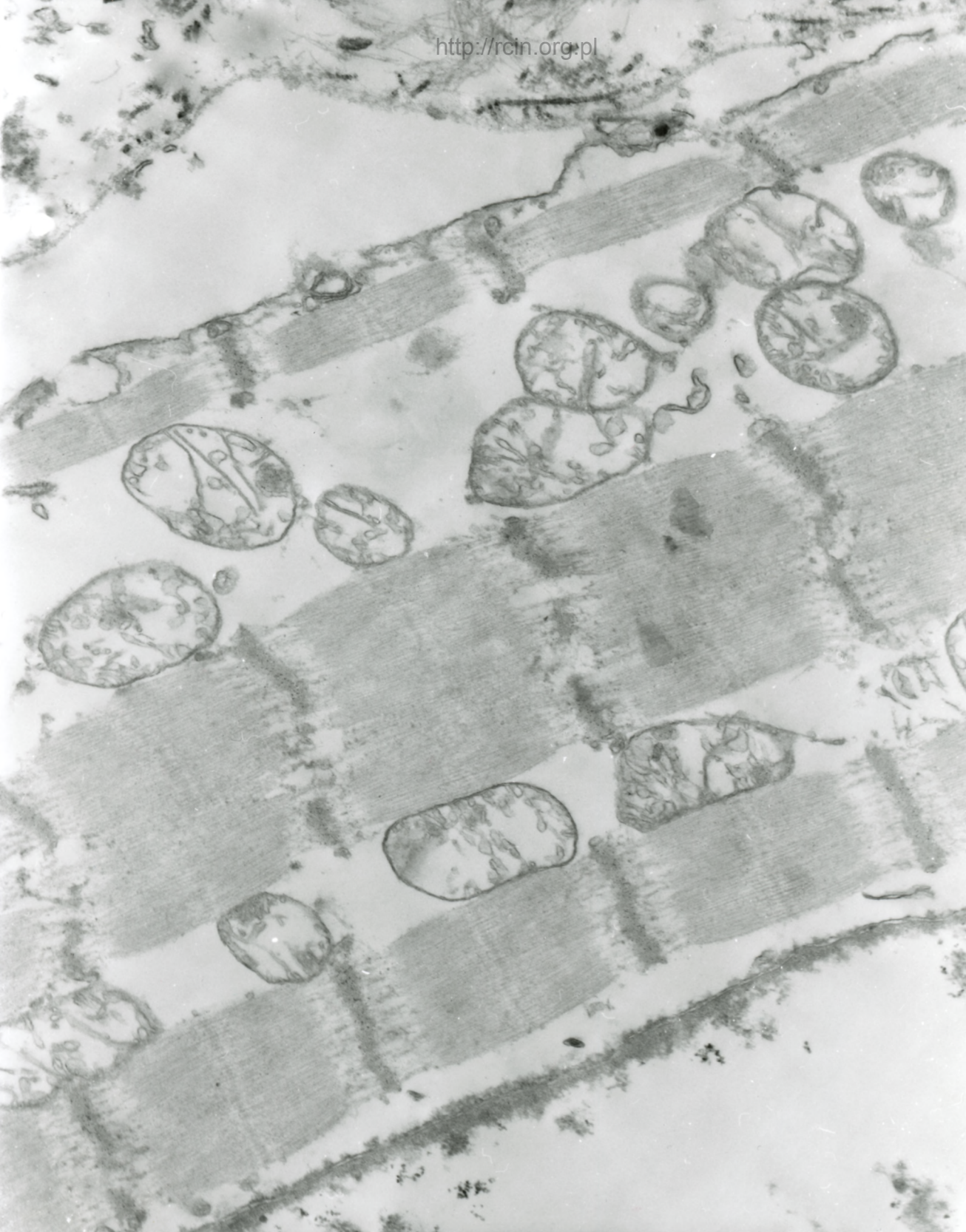
Fig. 8





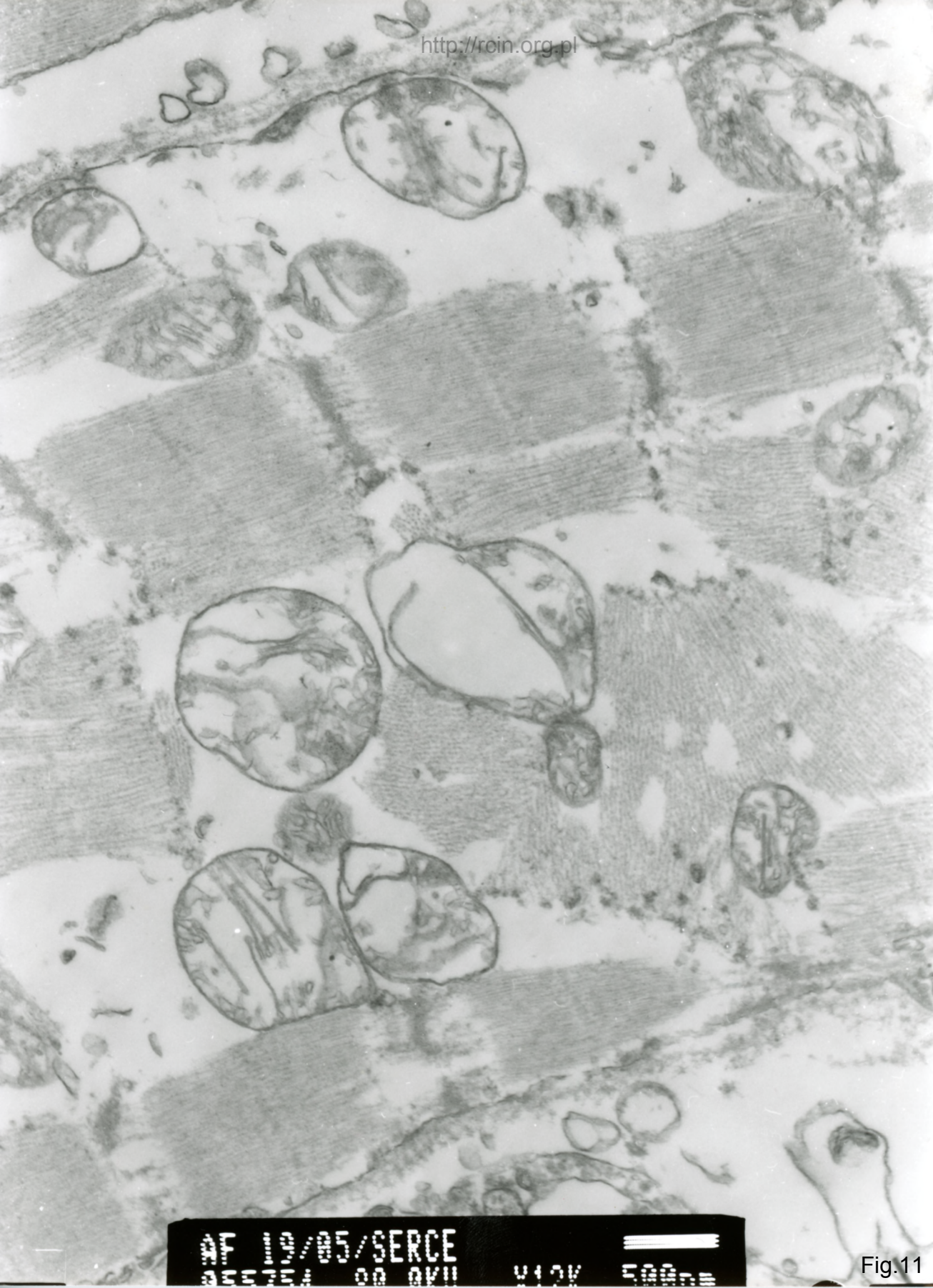
AF 19/05/SERCE  
110244 80.0KV X10K 500nm

Fig. 9



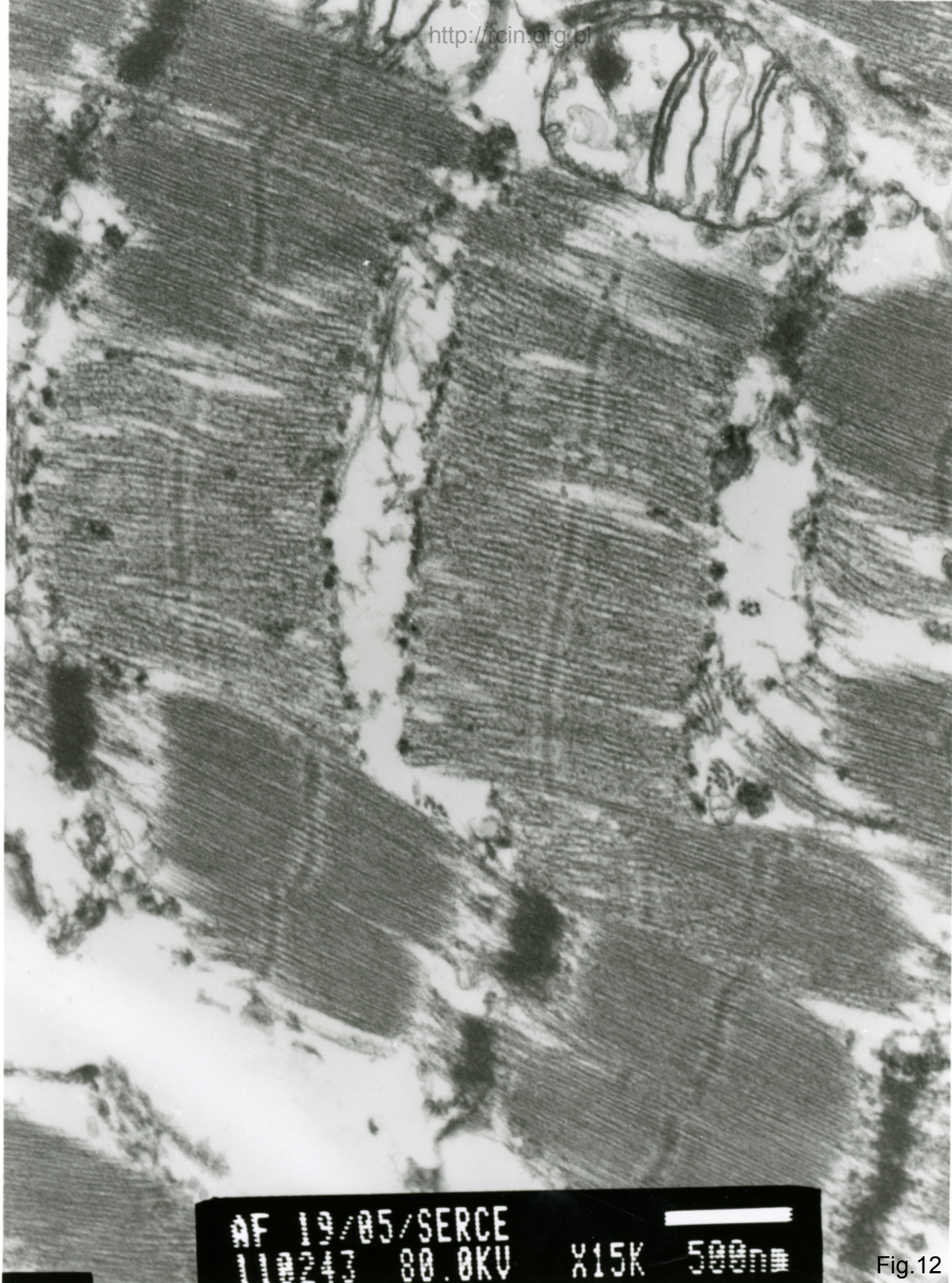
AF 19/05/SERCE  
05552 00.0KV X10K 500nm

Fig.10



AF 19/05/SERCE  
85000 20 0KV 412V 500nm

Fig.11



AF 19/05/SERCE  
110243 80.0KV X15K 500nm

Fig.12

## Biopsja serca (ściana gruba)

19/05 (patrz też 20/05 – biopsja serca ściana cienka, oraz 46/03 – biopsja mięśnia)

1. 6

### Kardiomiopatia

Analiza ultrastrukturalna wykazała znaczne zmiany w kardiomiocytach. Obserwowano znaczne nieprawidłowości w budowie i układzie sarkomerów. Poszczególne miofibryle przebiegały w różnych kierunkach, widoczna była ich dezorganizacja, a wielu obszarach całkowity zanik. Mitochondria wykazywały cechy obrzęku, charakteryzowały się jasną macierzą i utratą grzebieni mitochondrialnych, niektóre cechowały się zupełnie pustym wnętrzem (Fig. 1-12).

### Cardiomyopathy

Ultrastructural analysis revealed significant changes in cardiomyocytes. Severe sarcomeric aberrations were observed as well as substantial changes in the myofibrils' arrangement. Focally complete atrophy of myofibrils was noticed. Mitochondria showed features of swelling, bright matrix and loss of mitochondrial cristae, some were characterized by a completely empty interior (Fig. 1-12)