

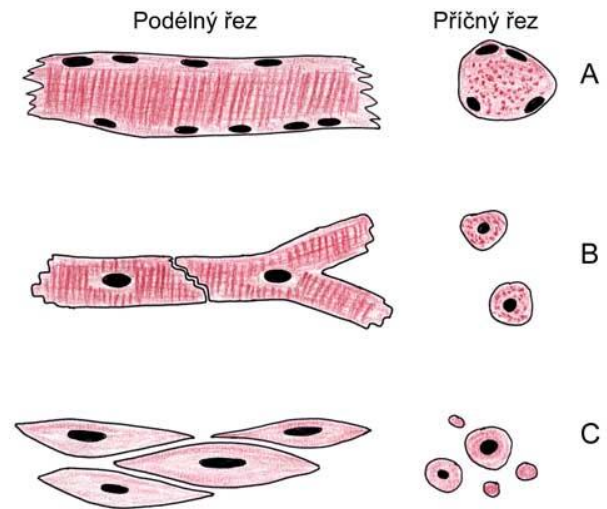
Muscle tissue

Skeletal muscle – rhabdomyocytes

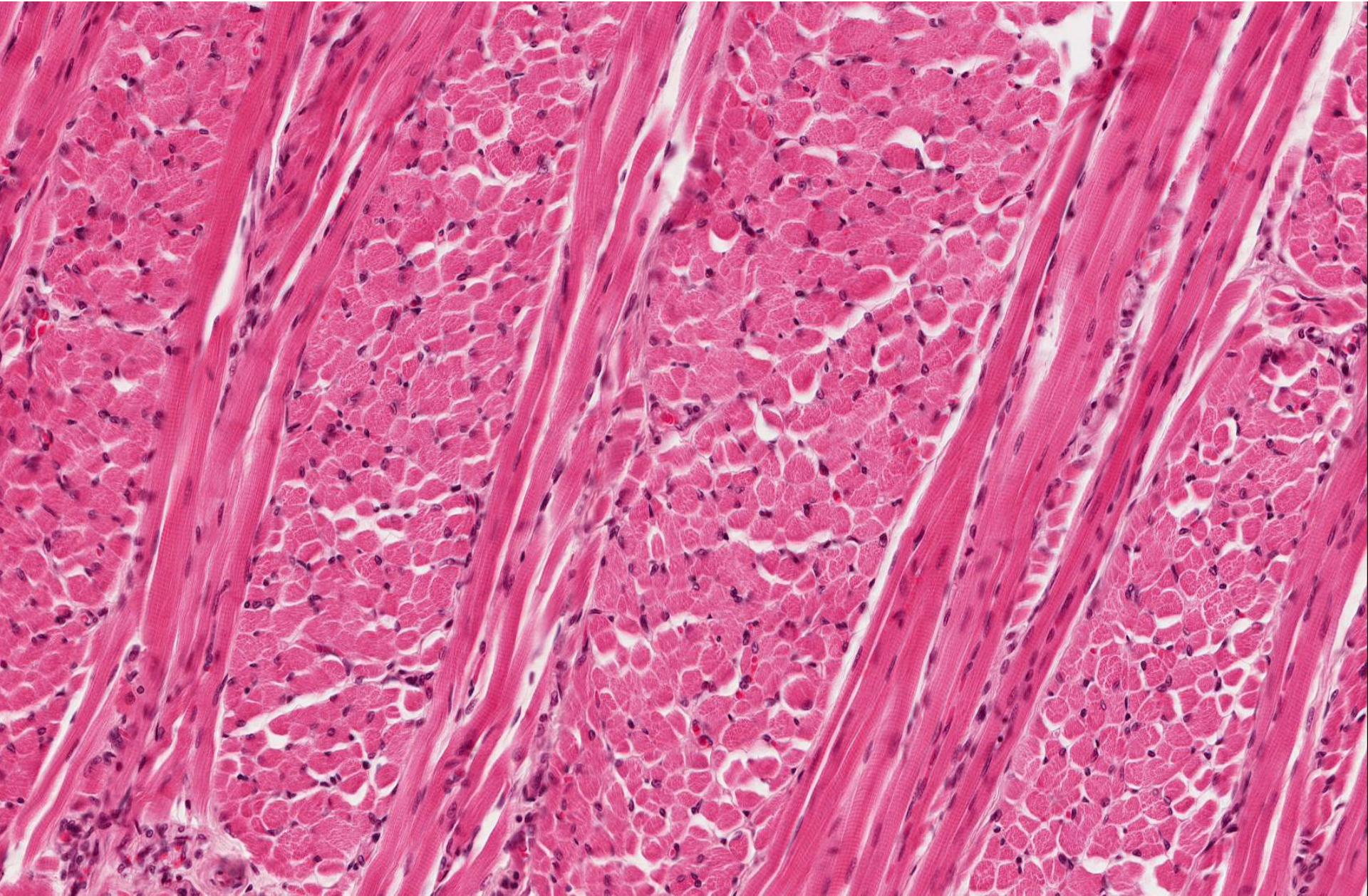
Smooth muscle – leiomyocytes

Cardiac muscle – cardiomyocytes

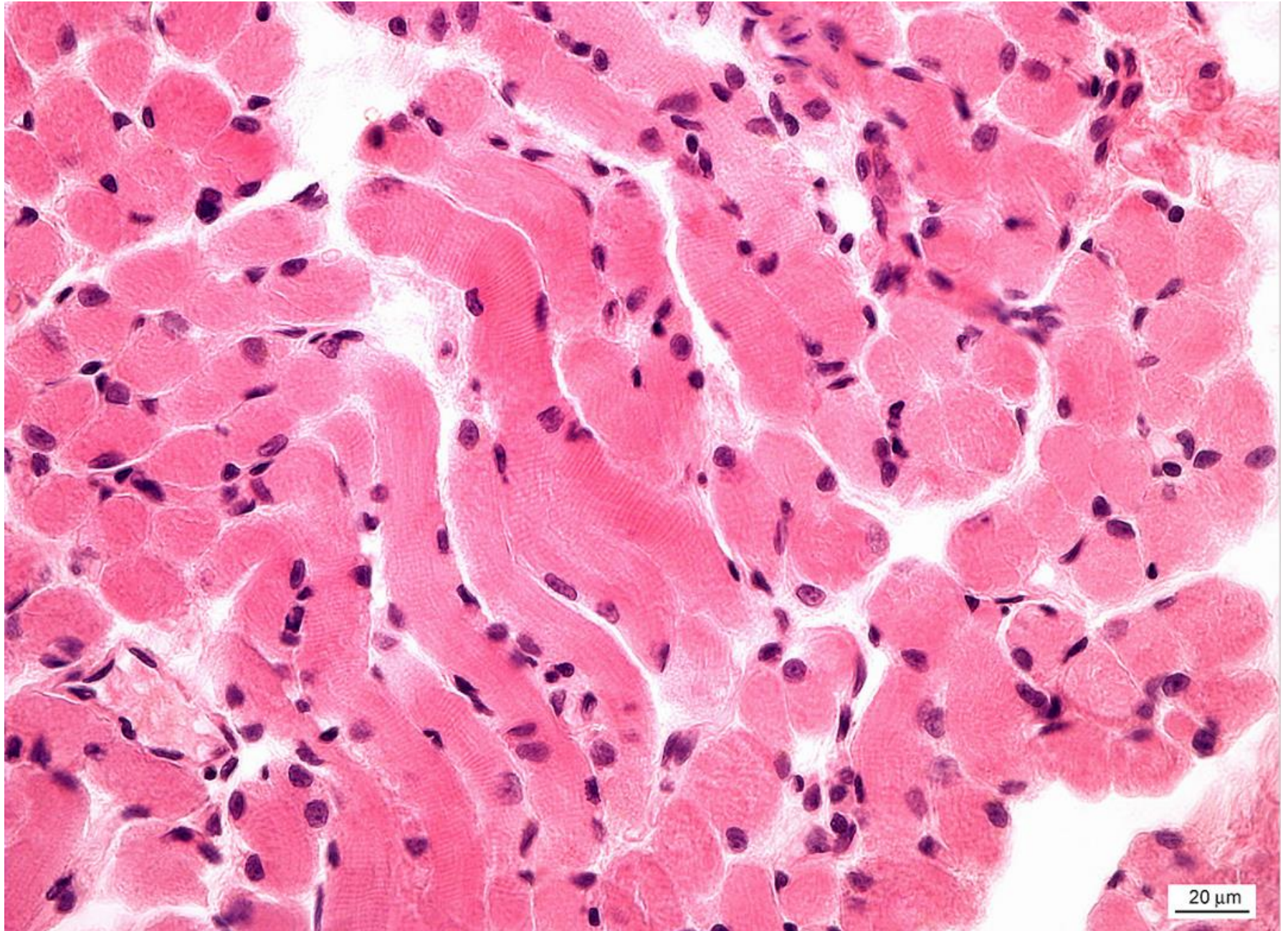
Repetition of the tissues



Skeletal muscle tissue – *Apex linguae*

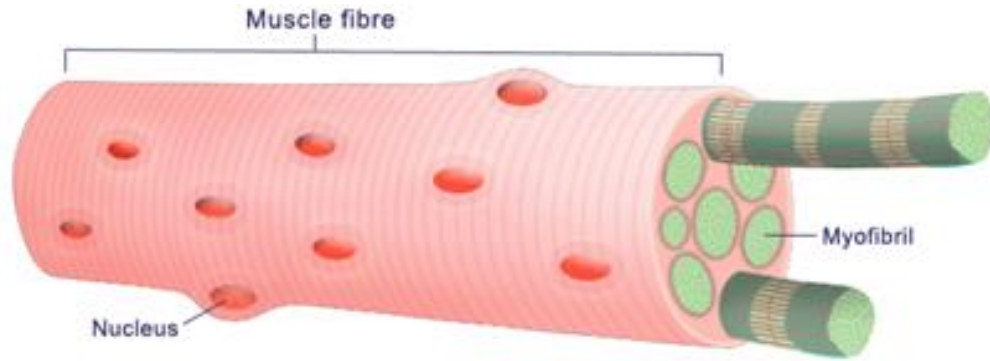


Skeletal muscle tissue (striated)



Rhabdomyocyte

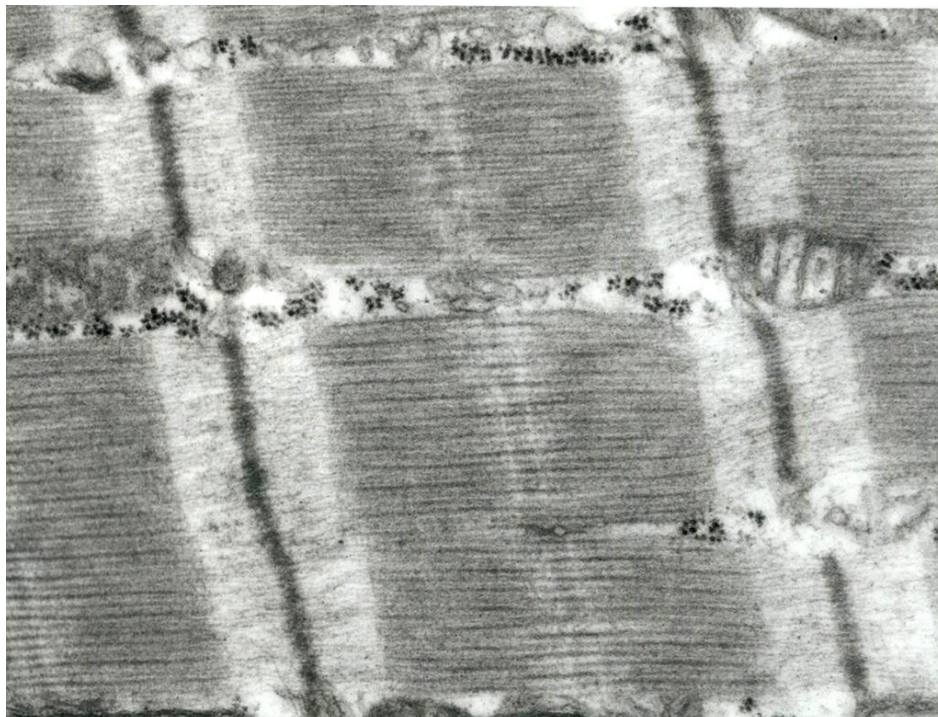
Muscle fiber
Myofibril
Myofilament



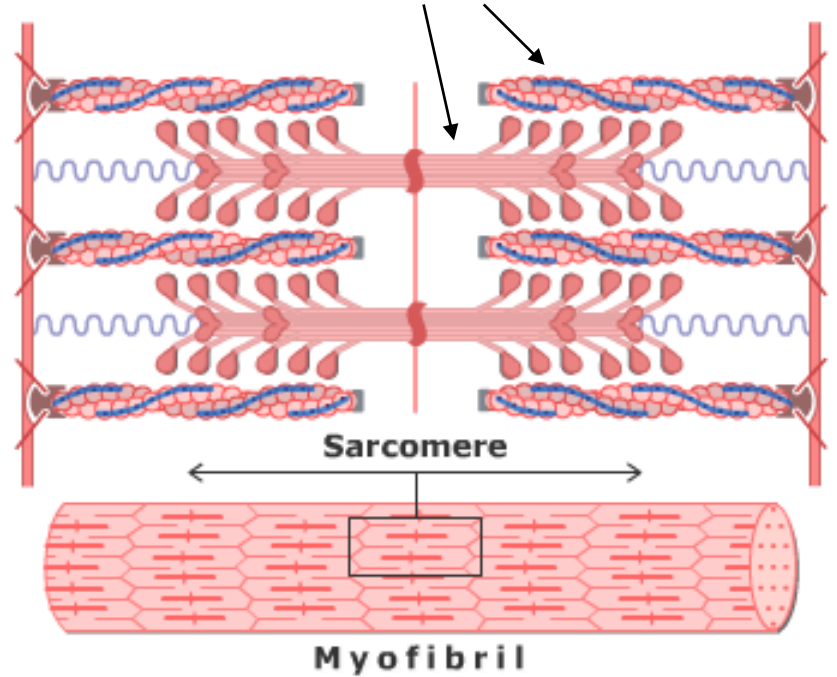
I-band
Z

A-band
H-M-H

I-band
Z



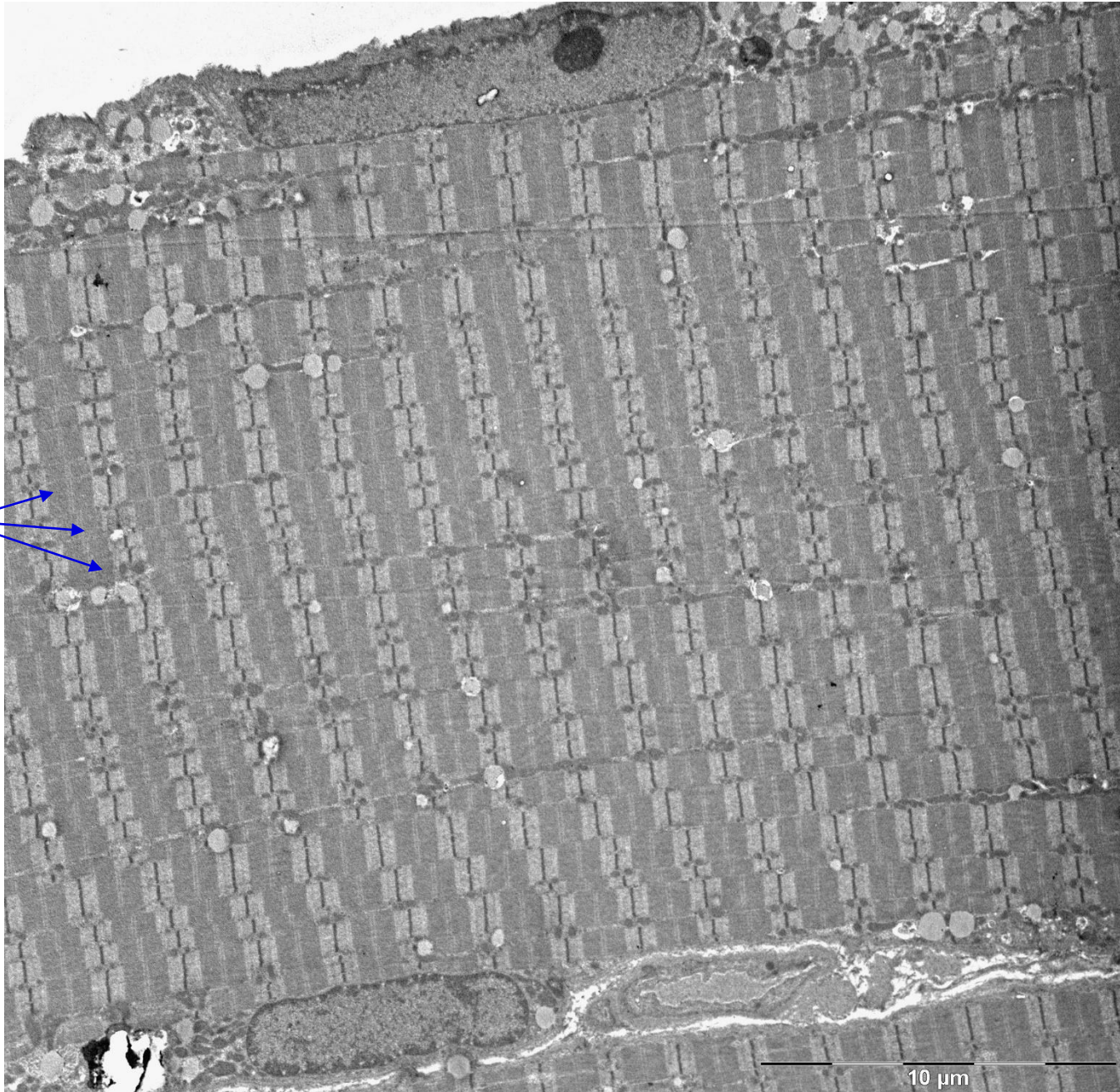
myofilaments



Rhabdomyocyte – human (TEM)

relaxed

myofibrils



10 μ m

Rhabdomyocytes – oculomotor muscle of rat (TEM)

contracted

mitochondria

myofibrils

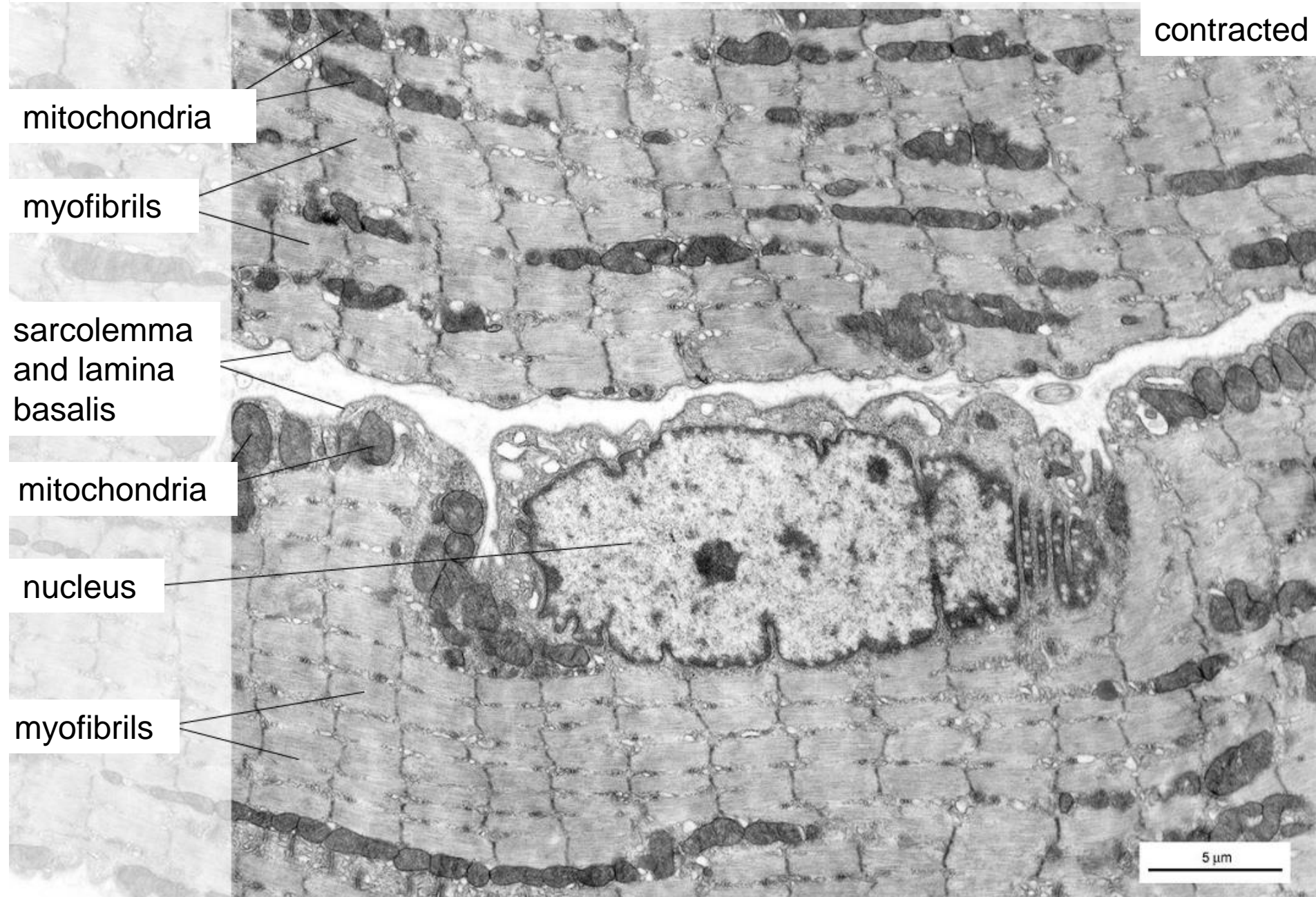
sarcolemma
and lamina
basalis

mitochondria

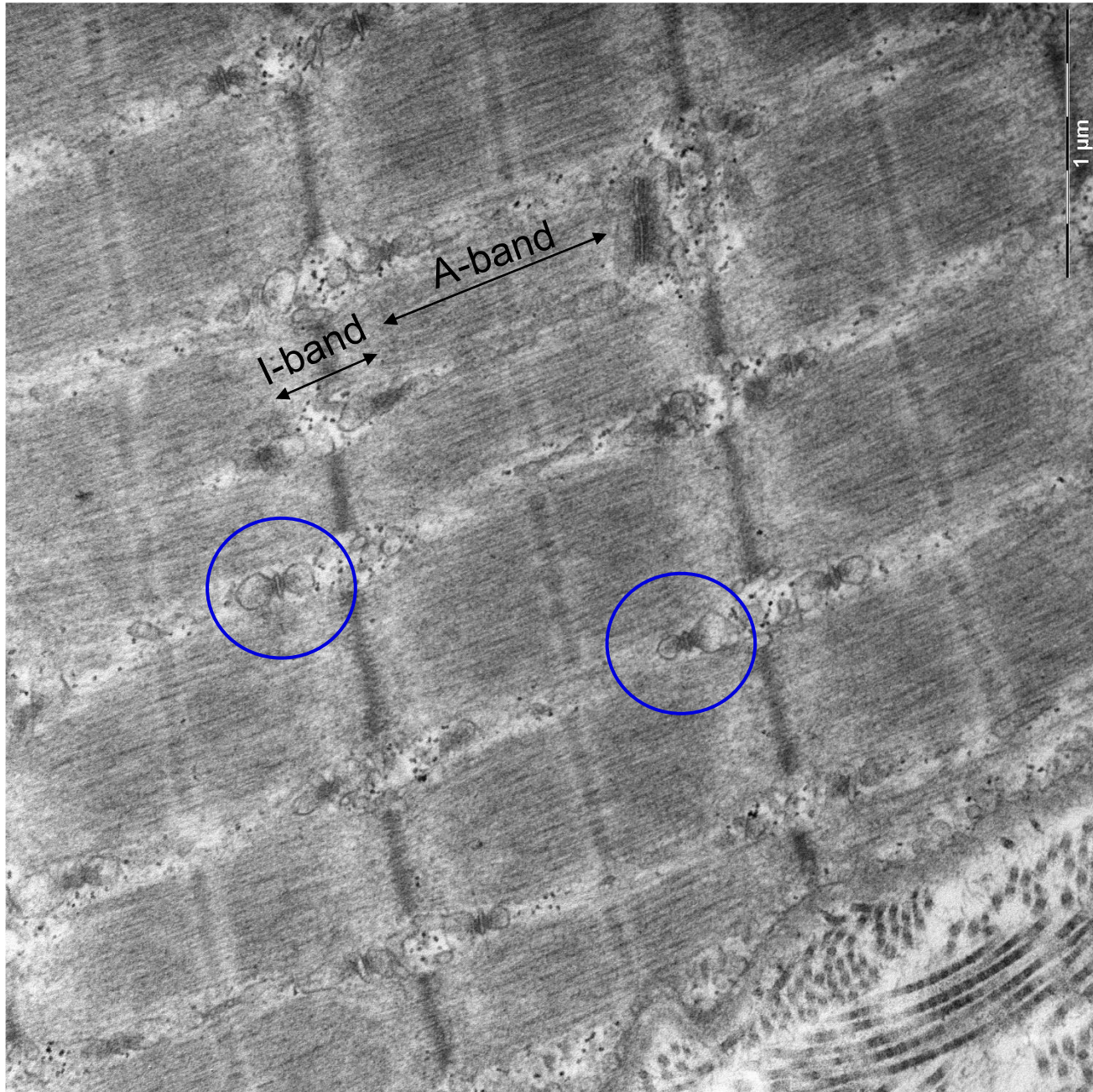
nucleus

myofibrils

5 μ m

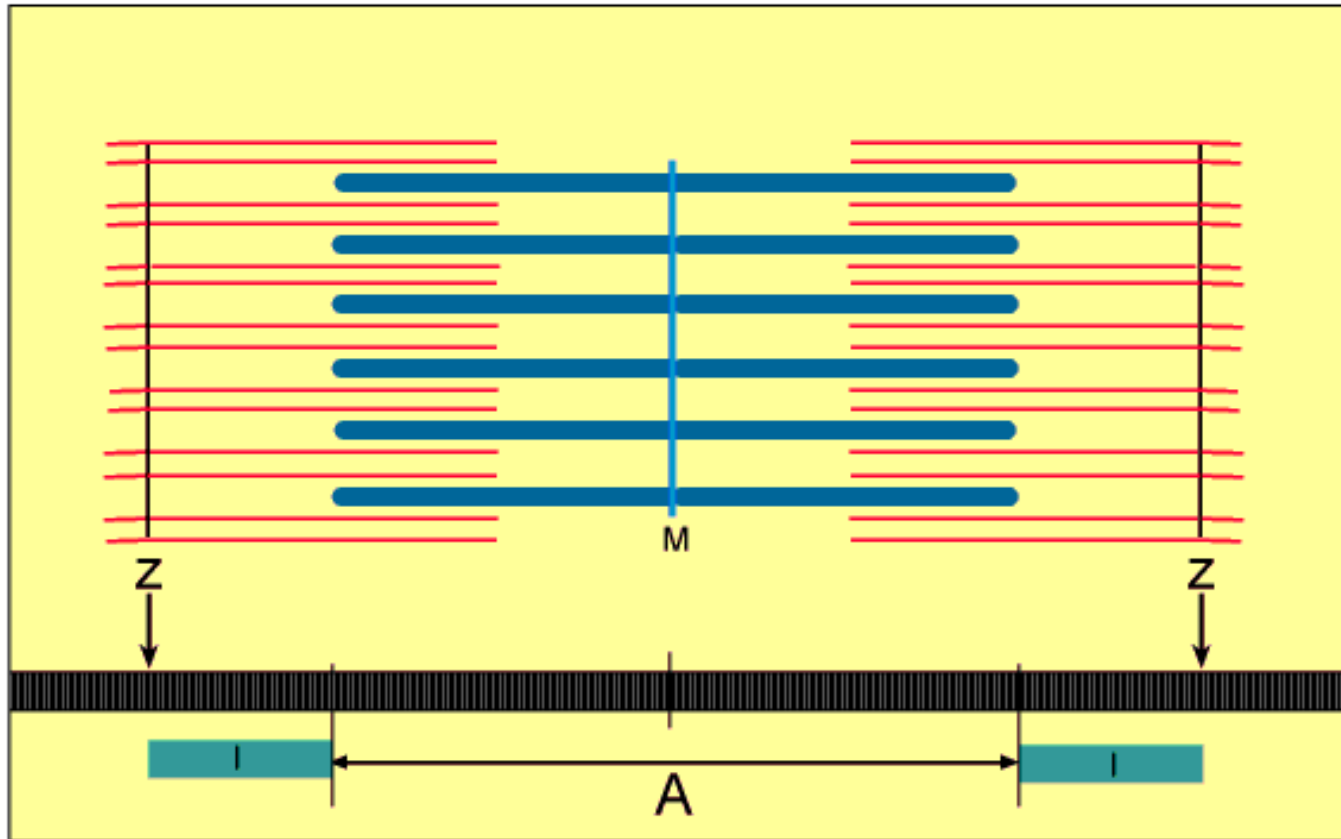


Rhabdomyocyte

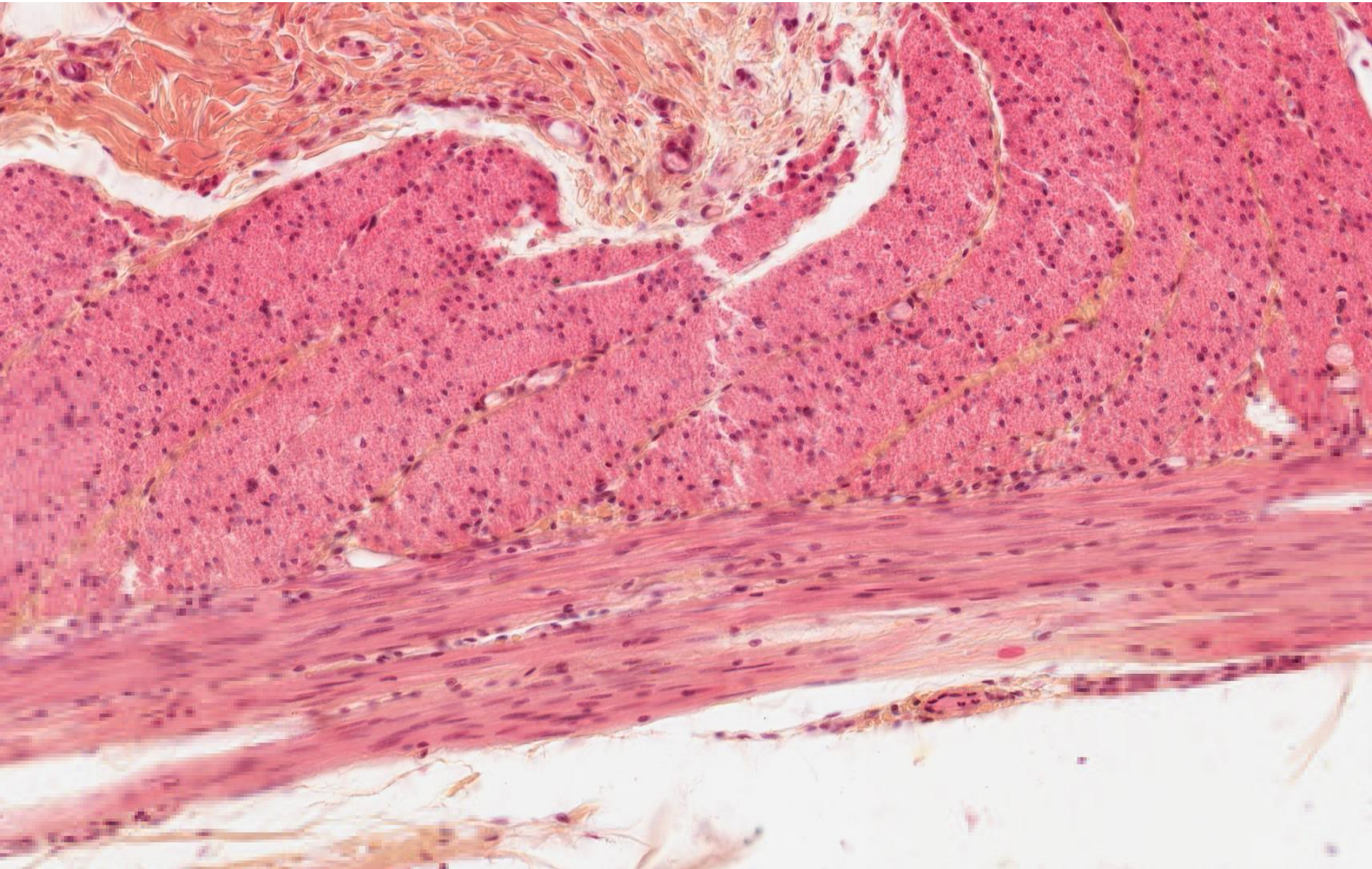


triad

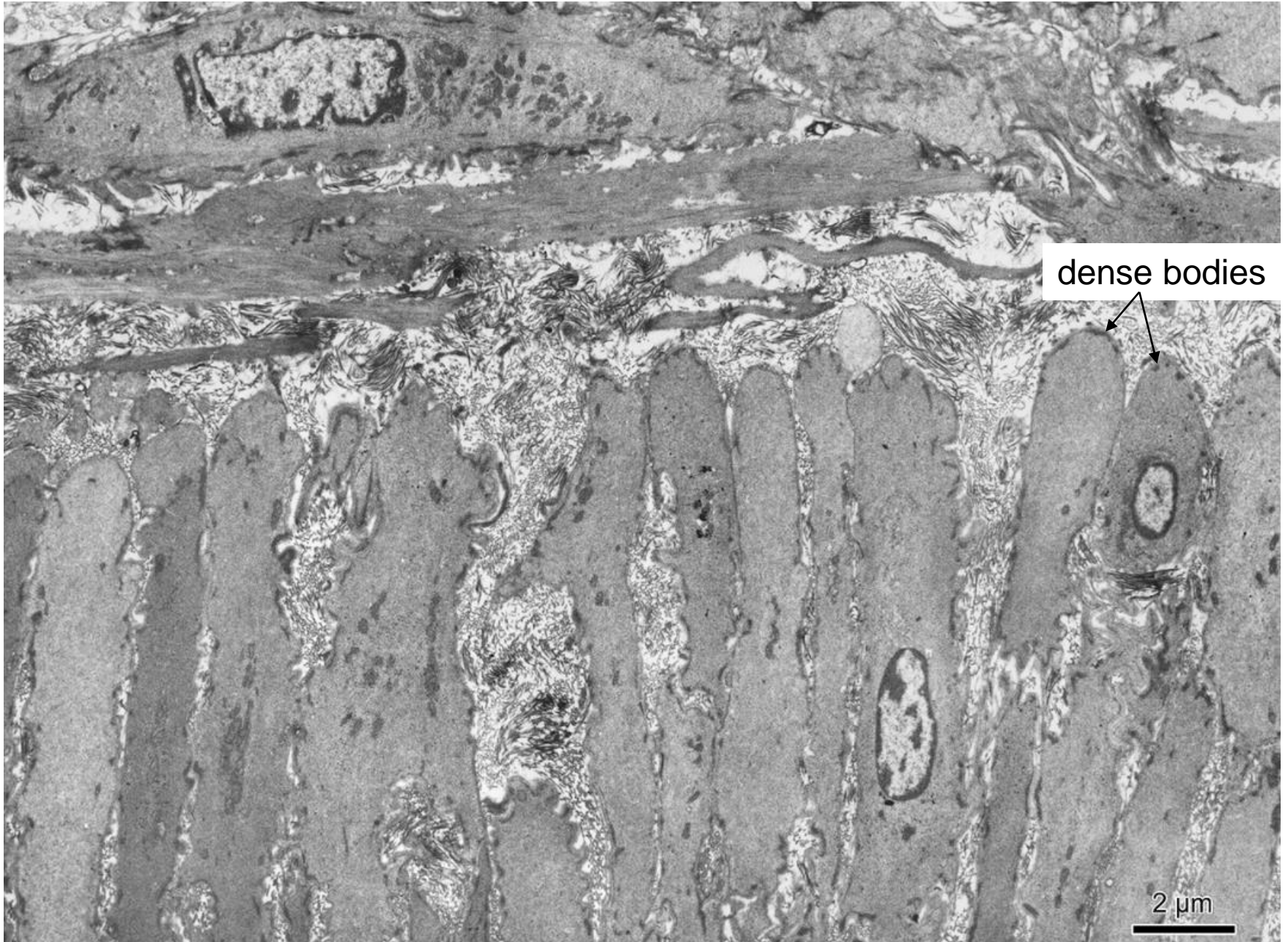
Muscle contraction



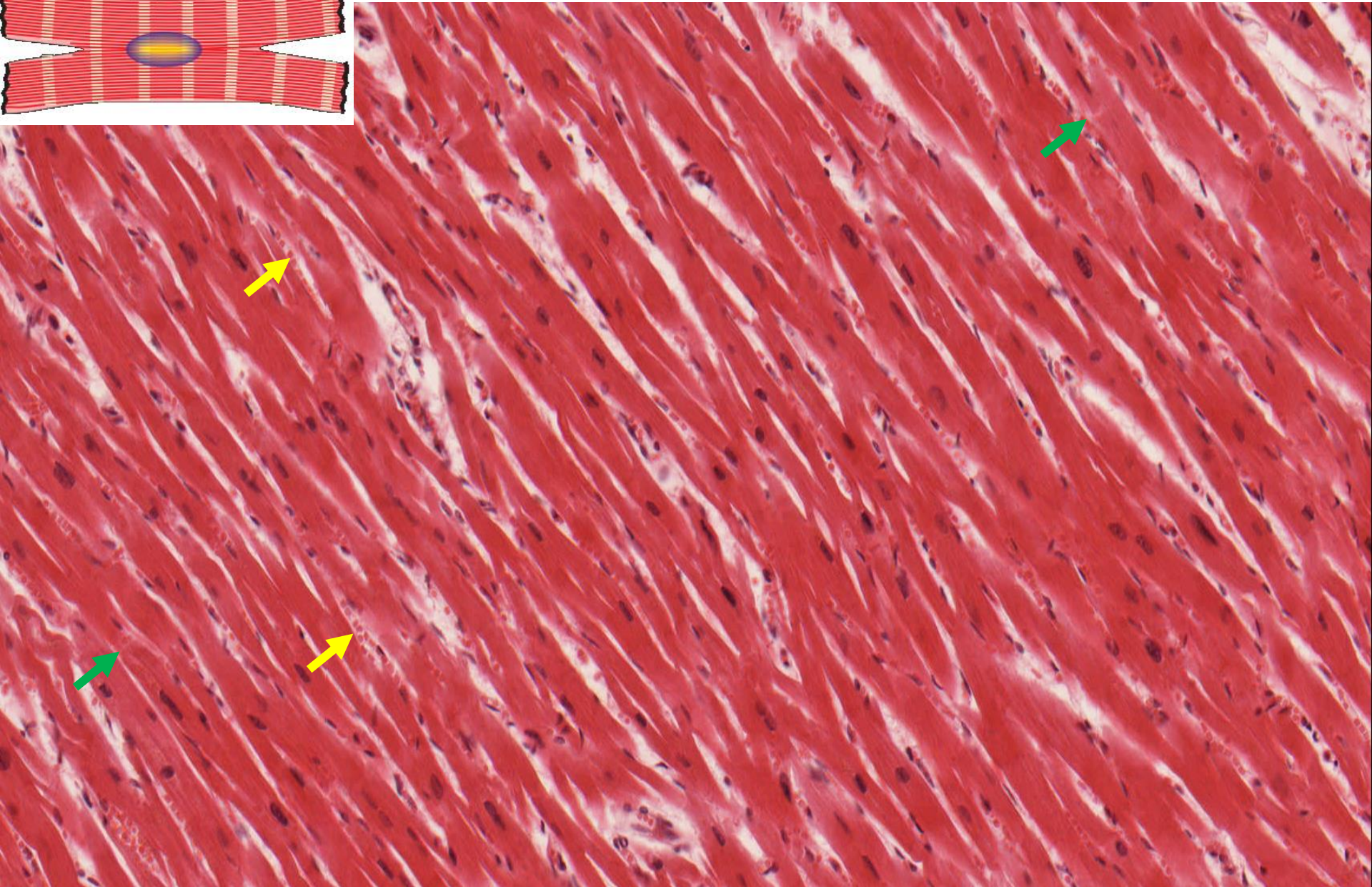
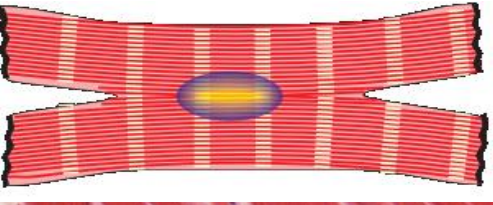
Smooth muscle tissue – *Intestinum tenue*



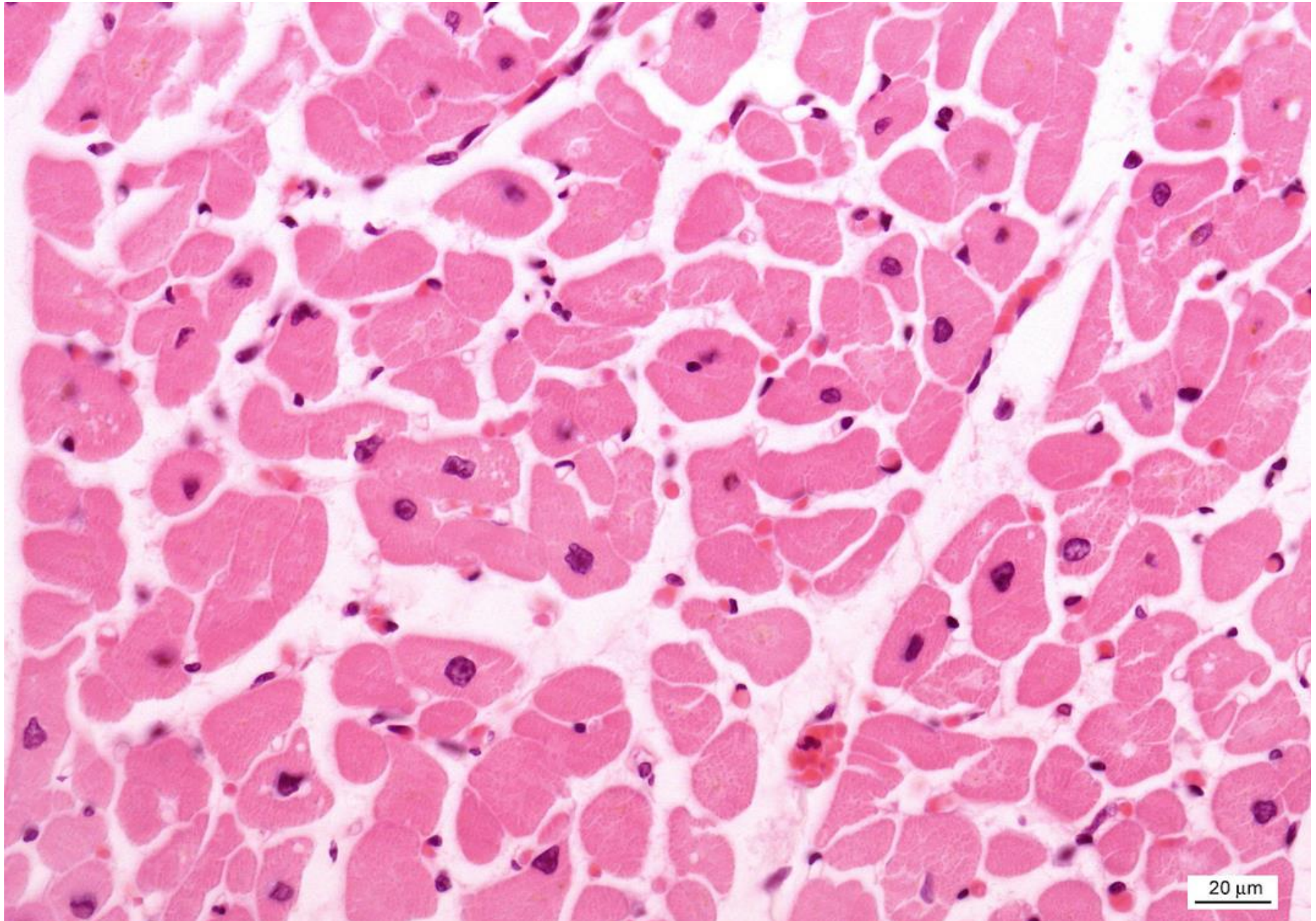
Leiomyocyte



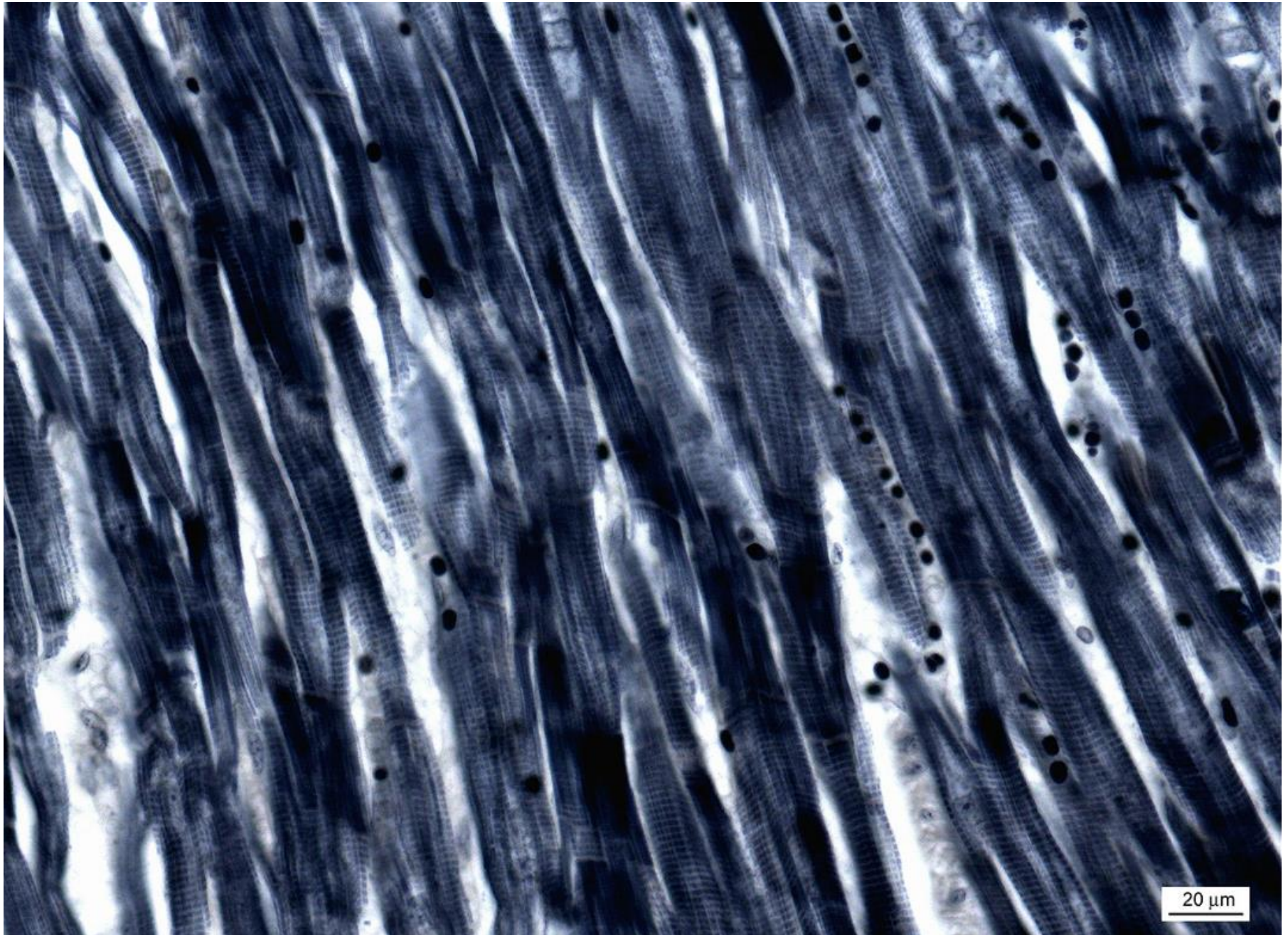
Cardiac muscle tissue (HE) – longitudinal section



Cardiac muscle tissue (HE) – cross section

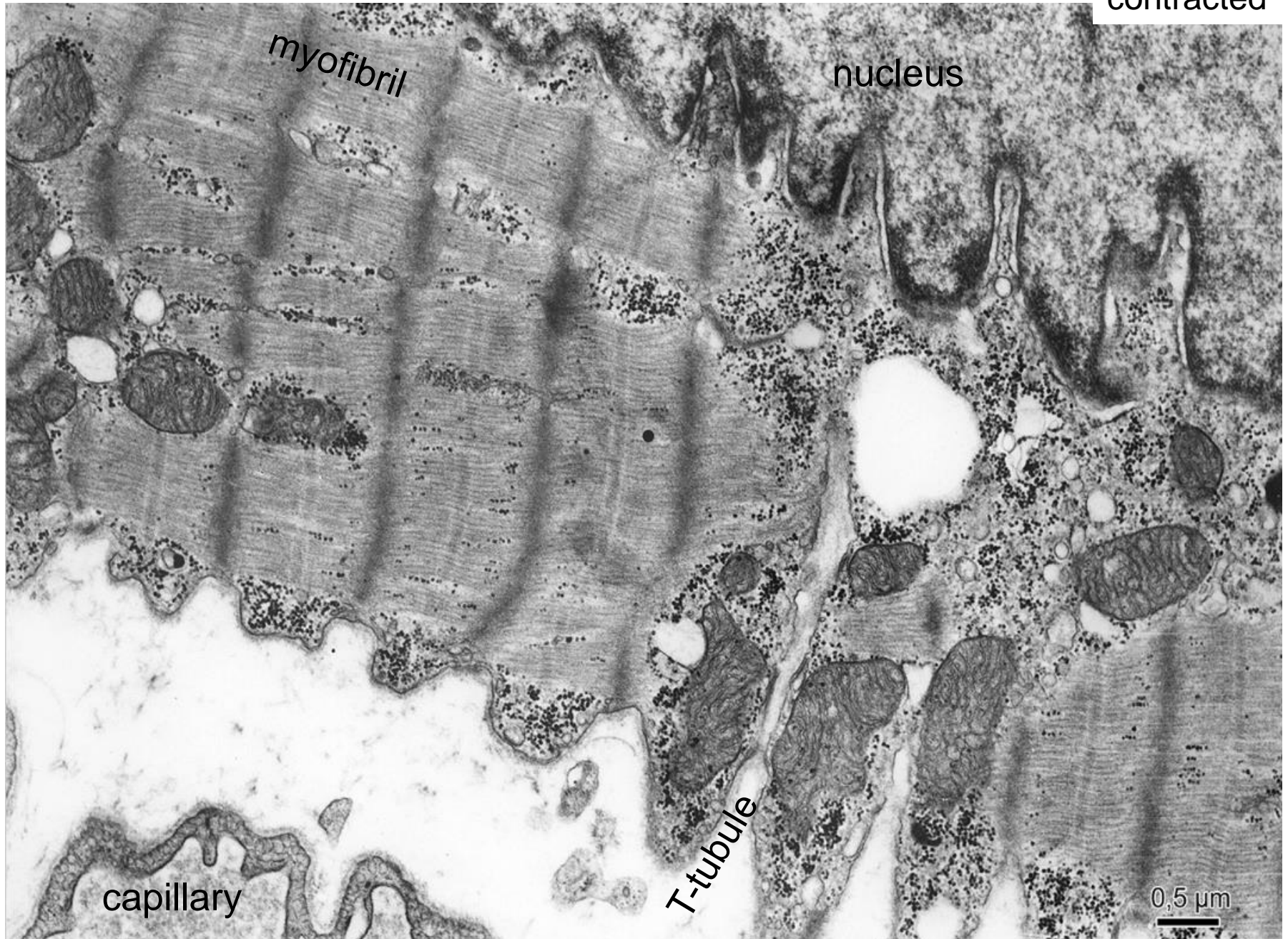


Cardiac muscle tissue (Heidenhein)

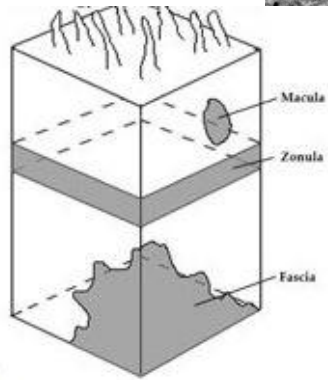
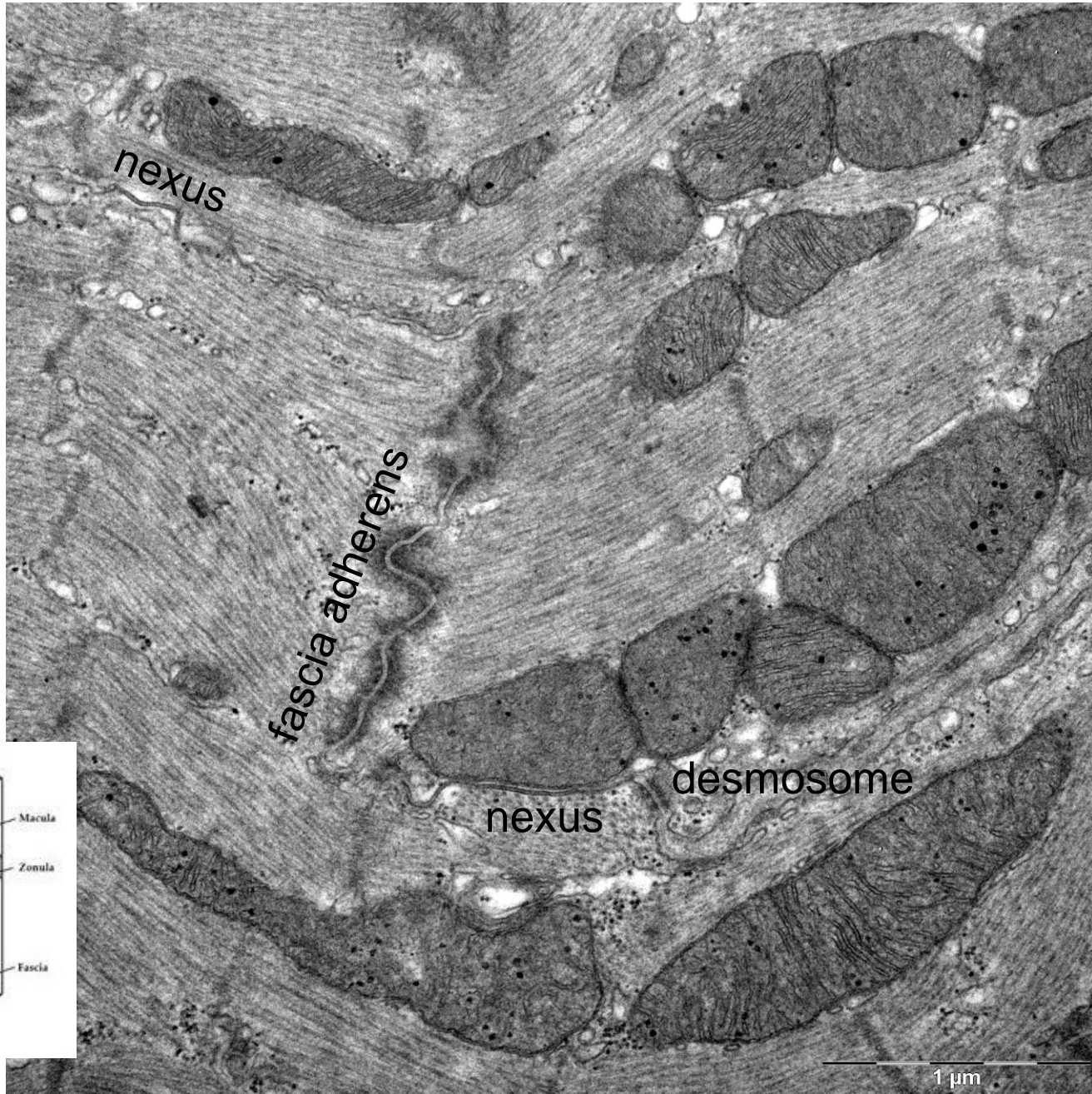


Cardiomyocyte

contracted



Cardiomyocyte – intercalated disc



1 μ m

MUNI MED

Muscle tissue

Slides:

Skeletal muscle tissue (2. Apex linguae)

Smooth muscle tissue (16. Intestinum tenue)

Cardiac muscle tissue (64, 65. Myocardium)

Scheme of sarcomere

Atlas EM:

Rhabdomyocyte (42-43)

Leiomyocyte (47)

Cardiomyocyte (44-46)