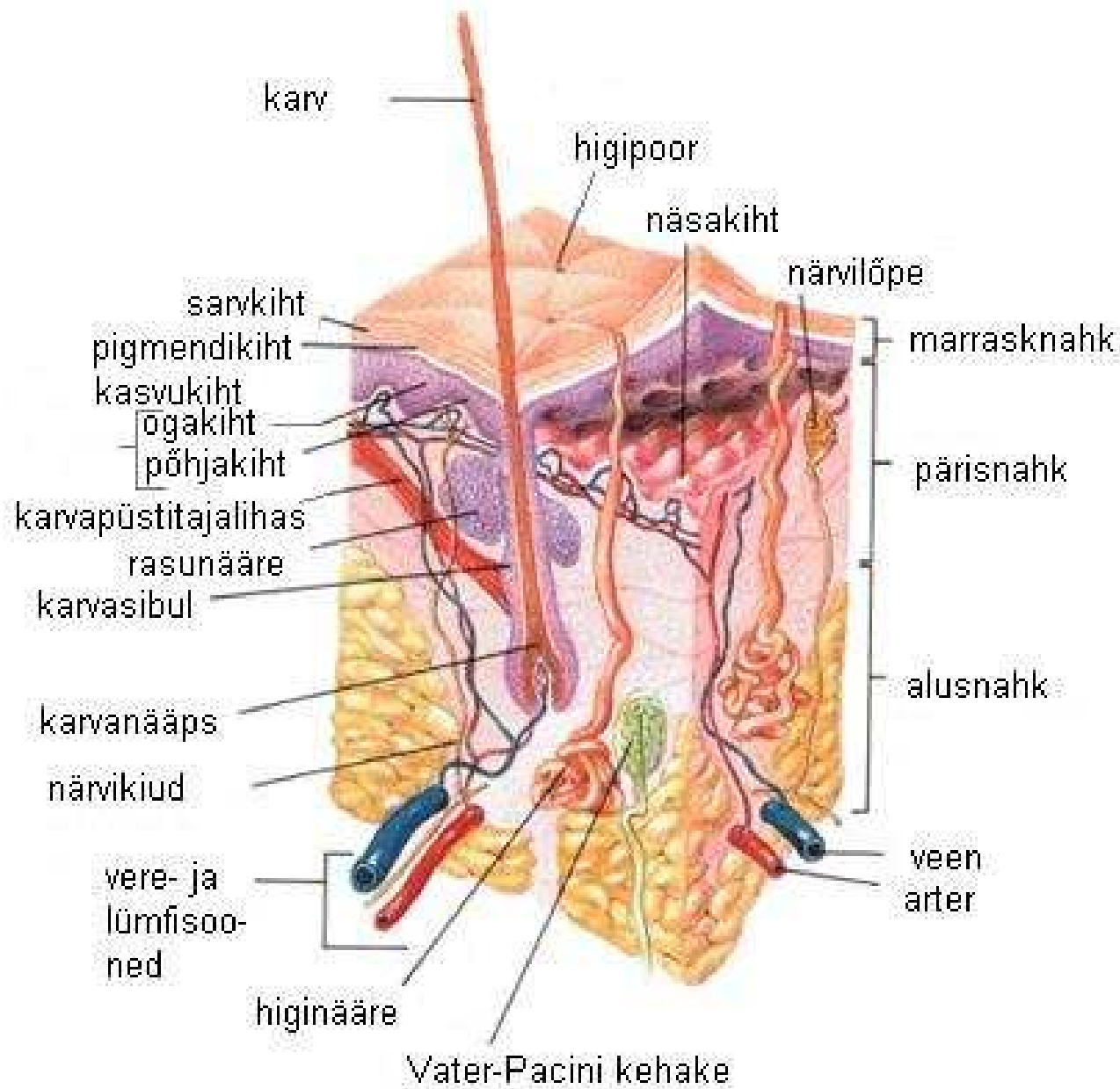
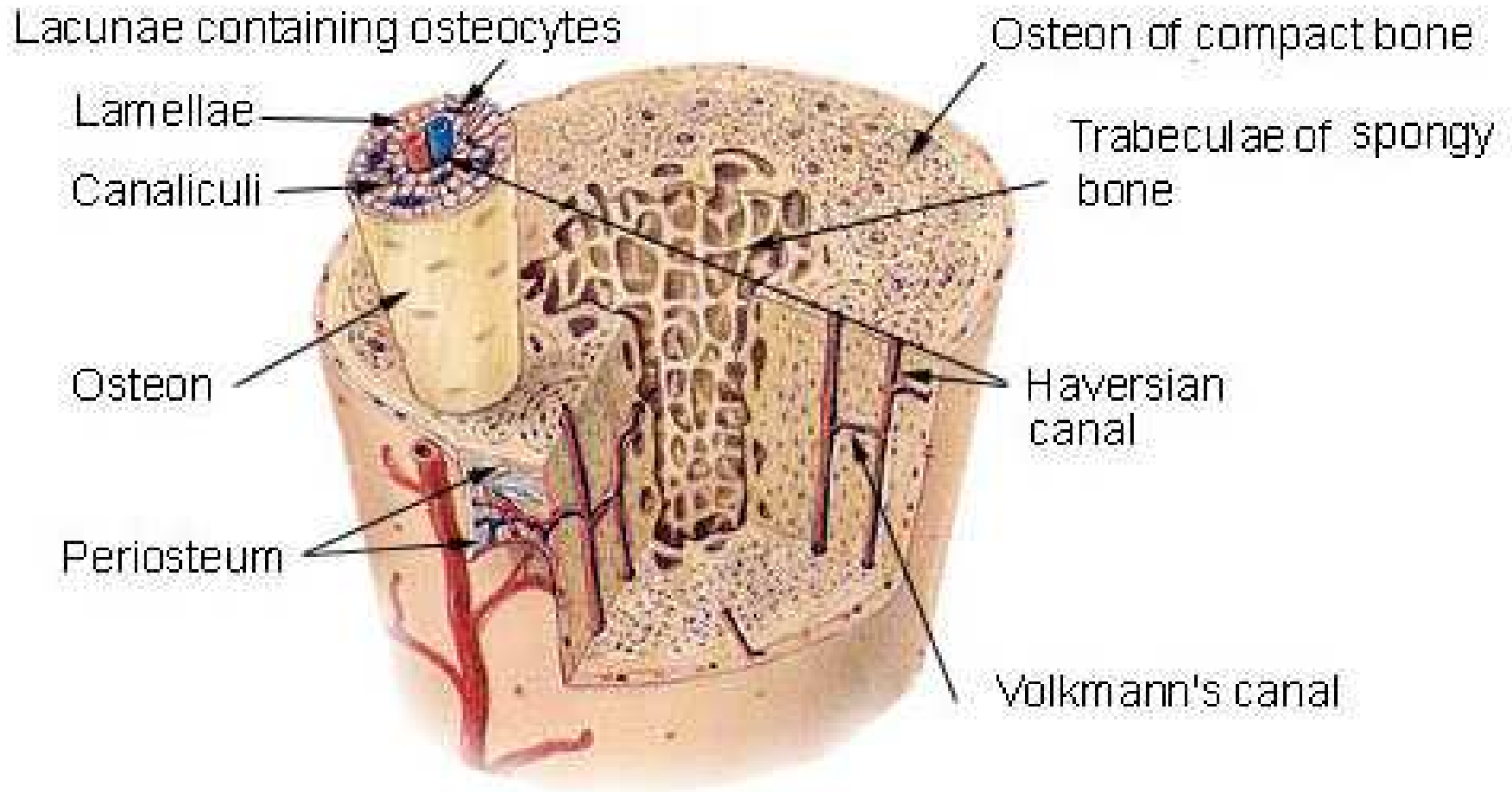


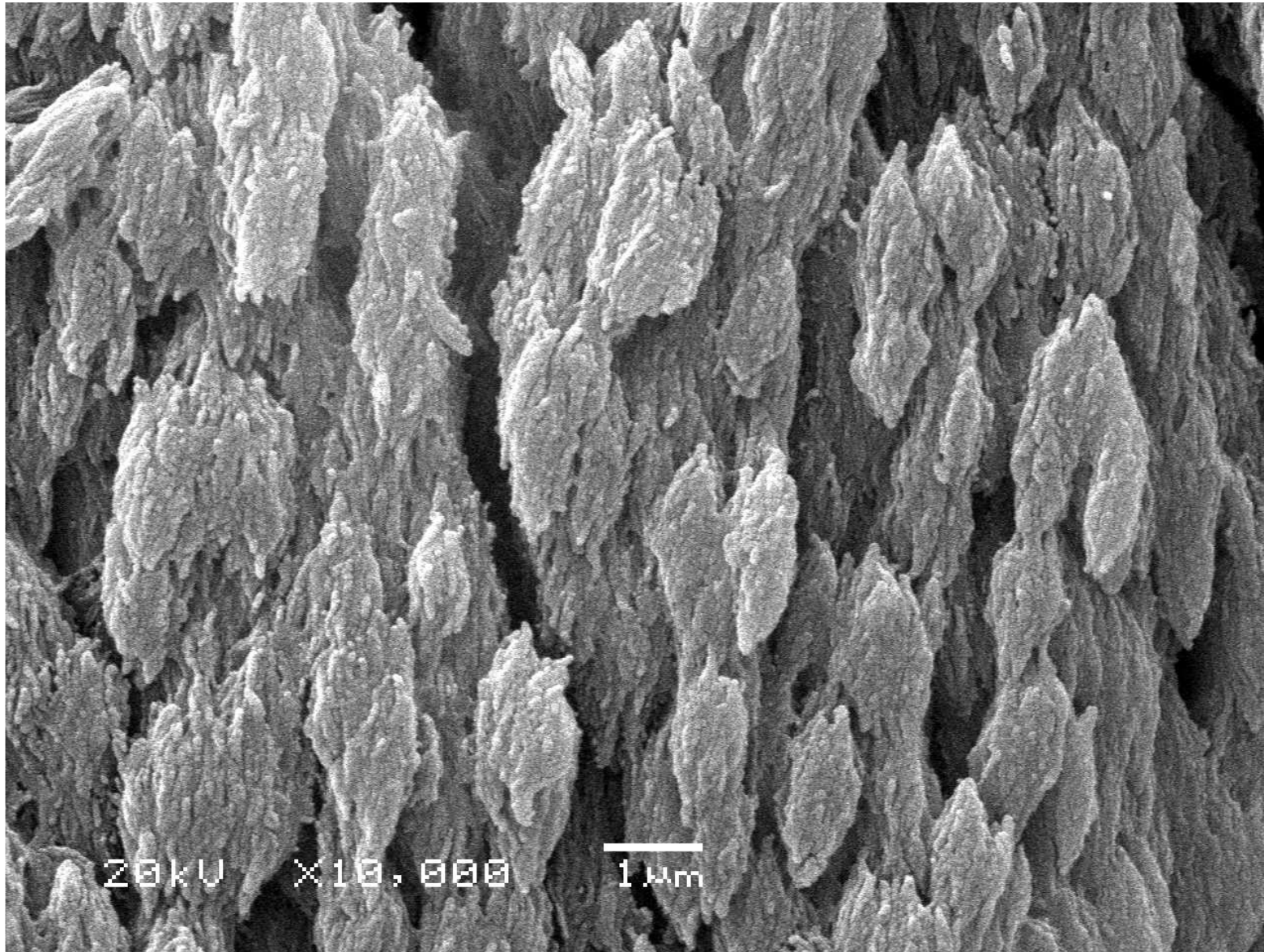
Page of one of the first works of Biomechanics (*De Motu Animalium* of Giovanni Alfonso Borelli).



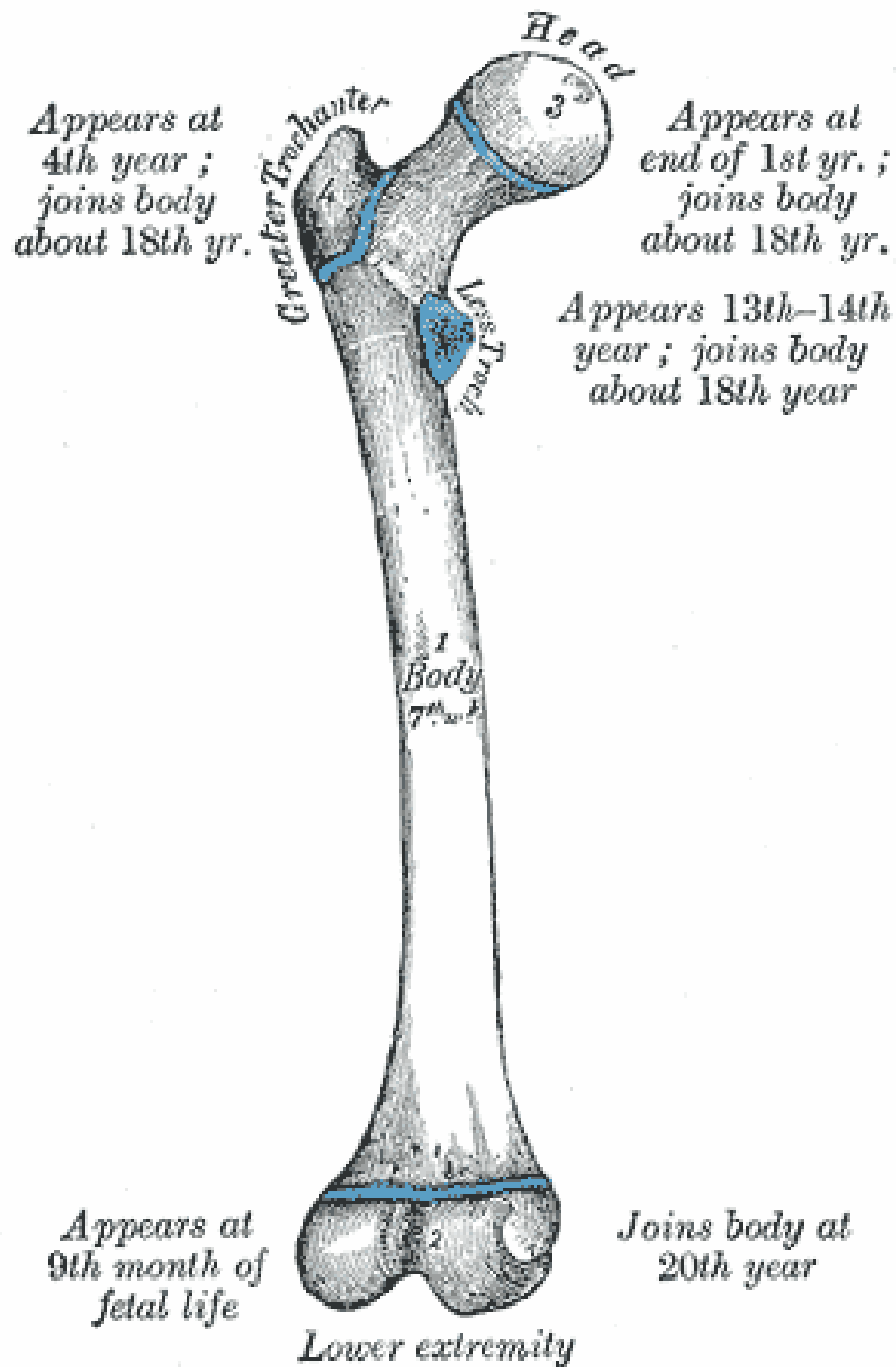
Naha läbilõige

Compact Bone & Spongy (Cancellous Bone)



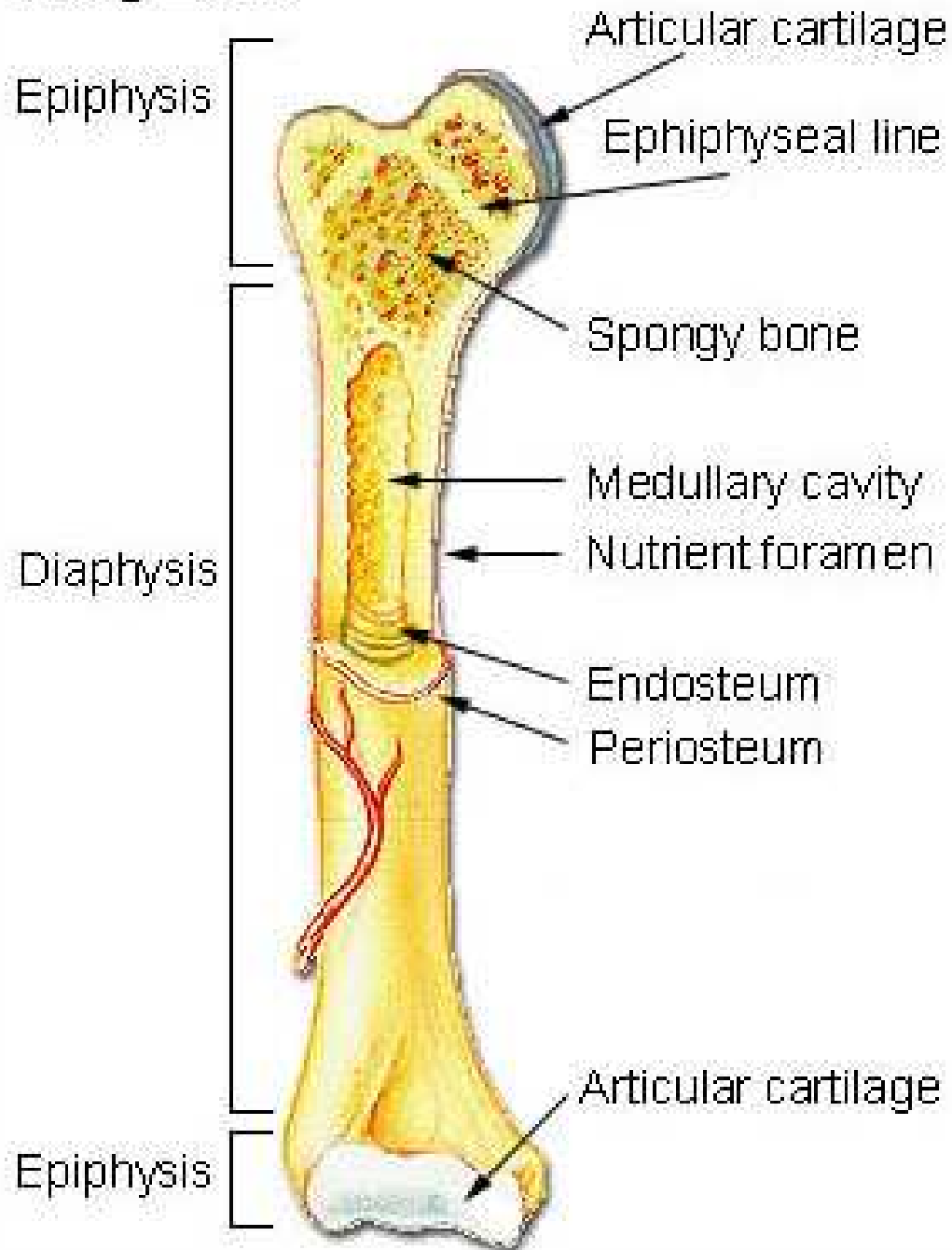


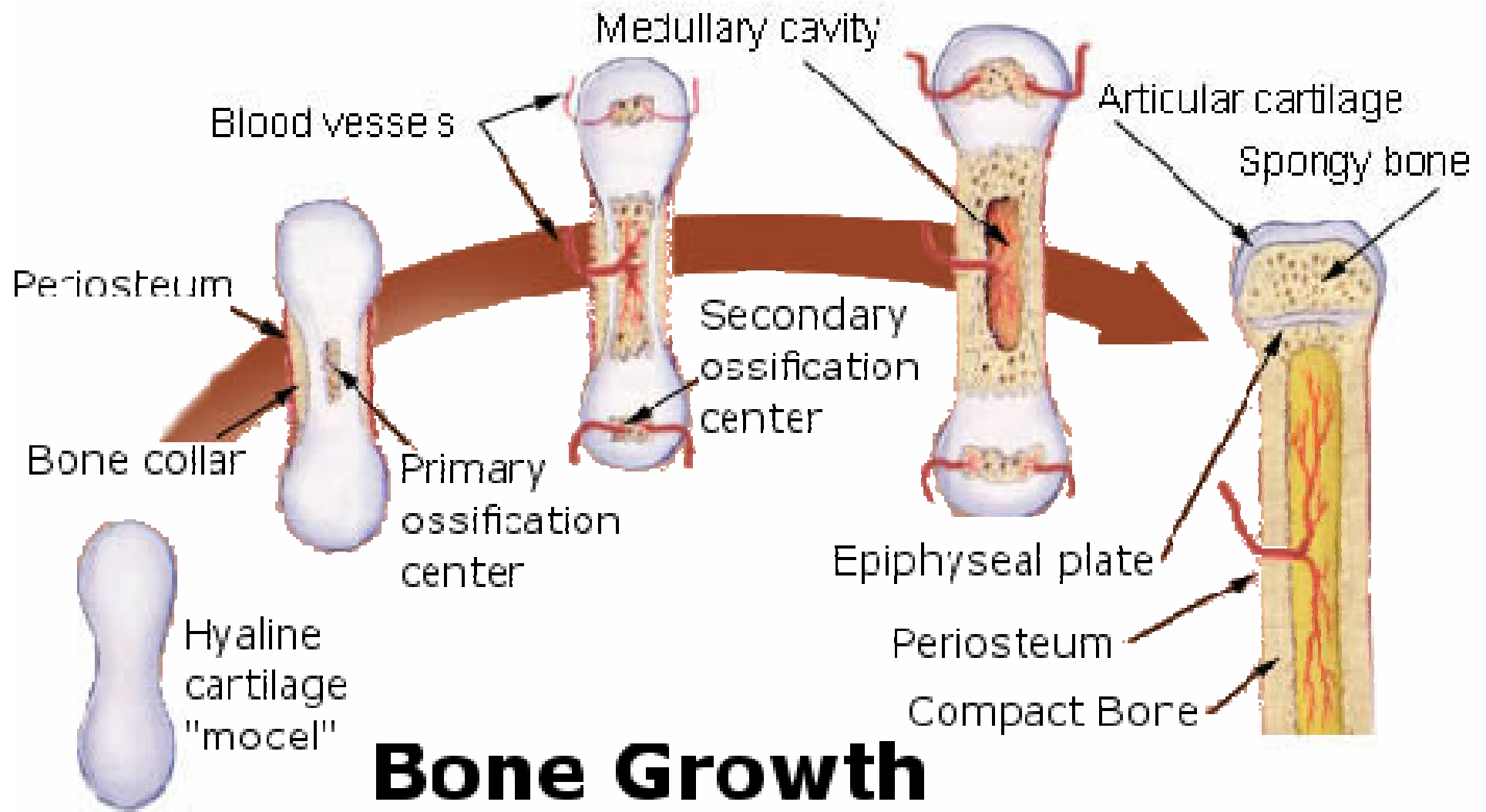
Electronic micrography 10000 magnification of Bone mineral.

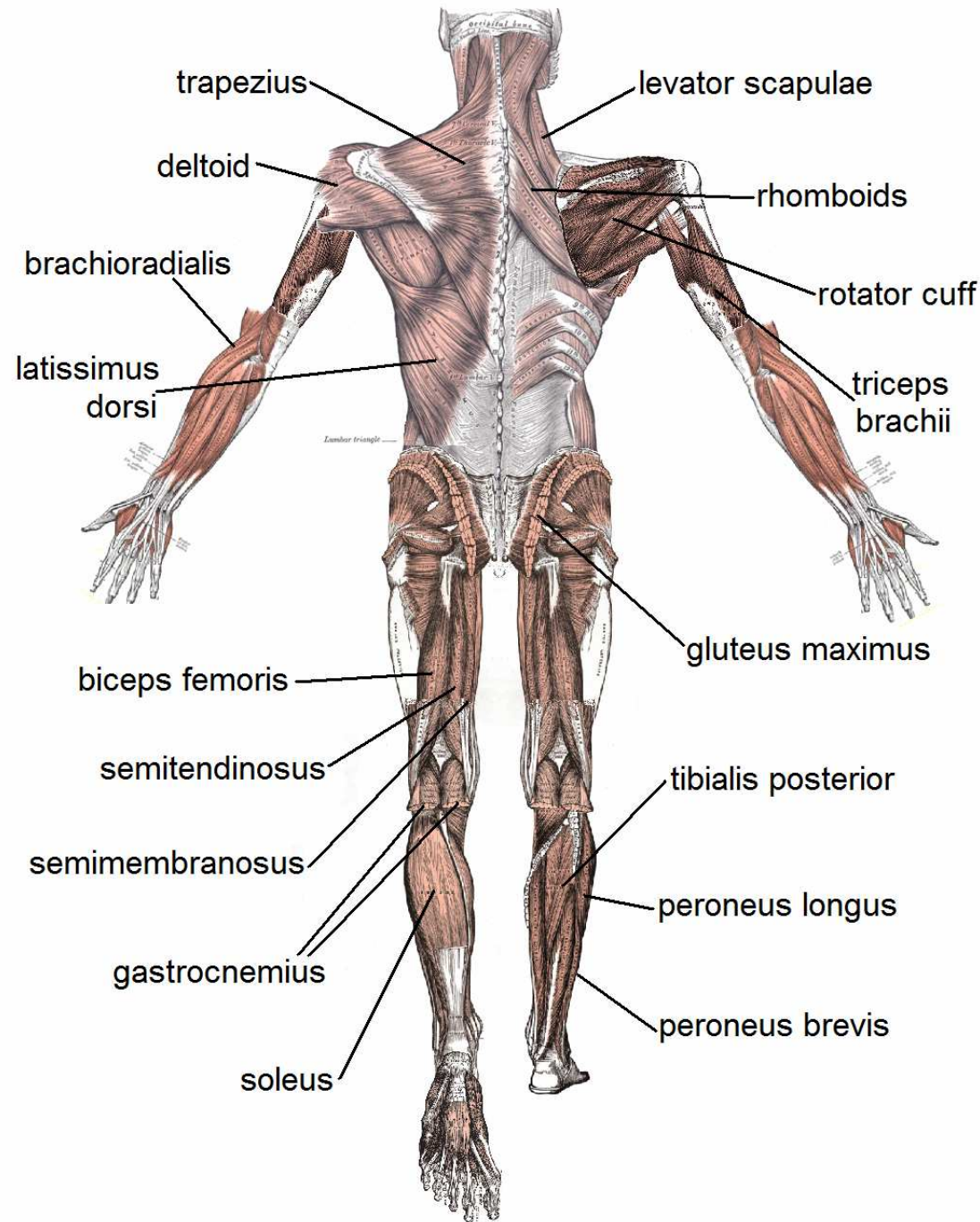


Drawing of a human femur.

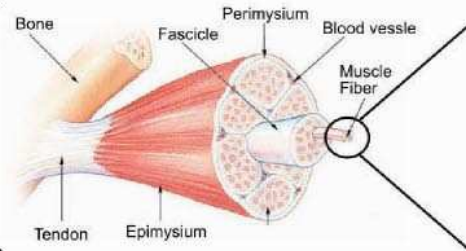
Long Bone



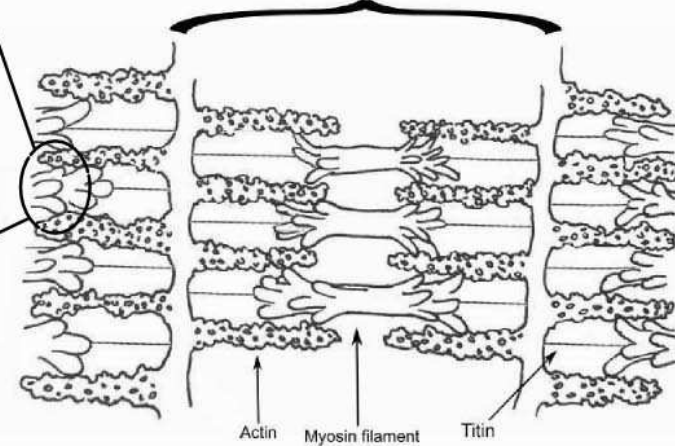
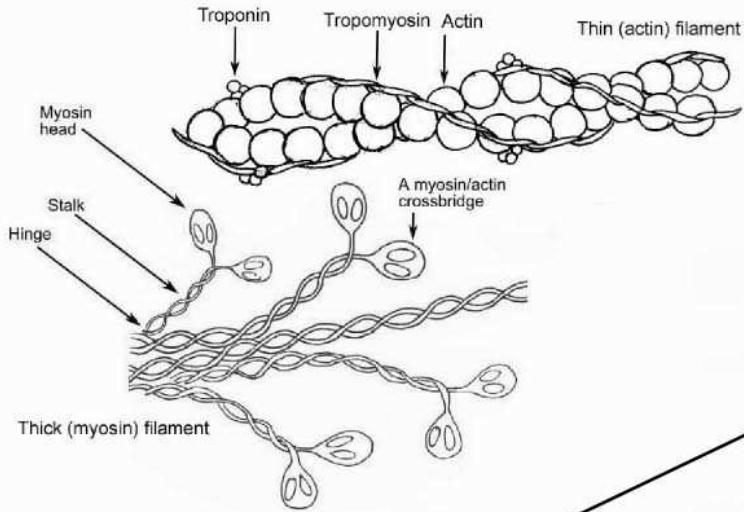
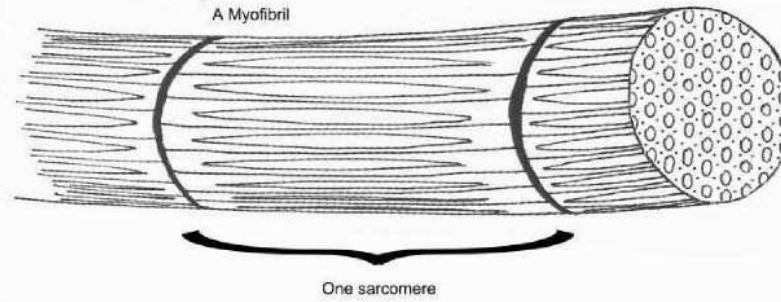
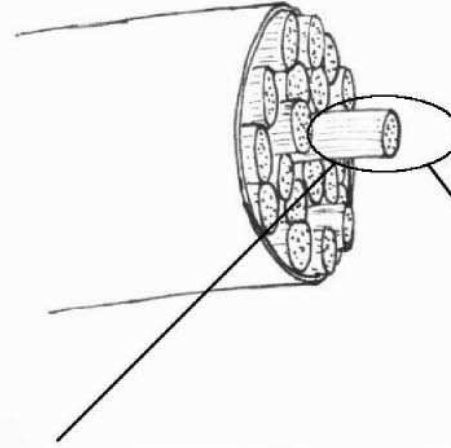




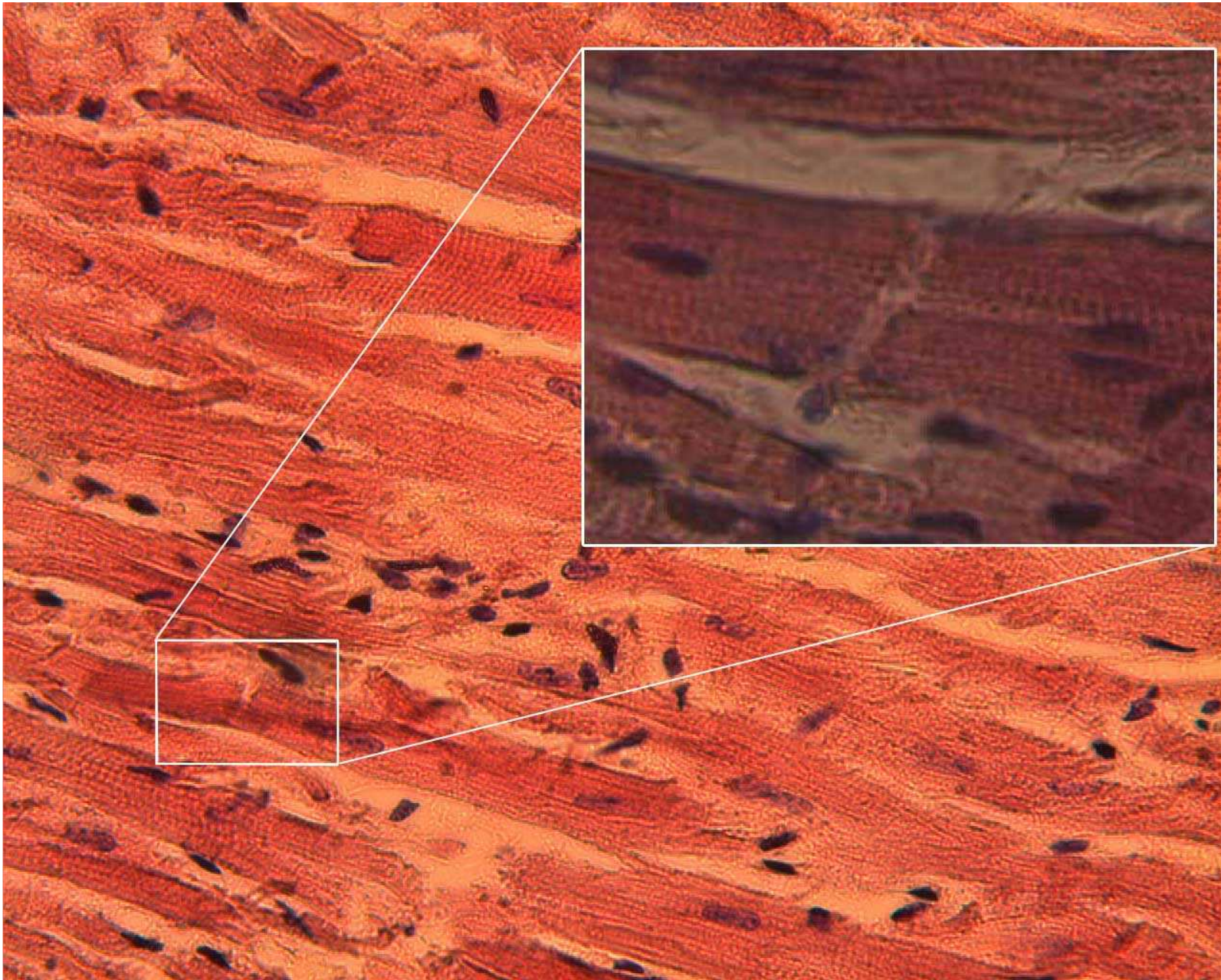
Human muscleskeletal system



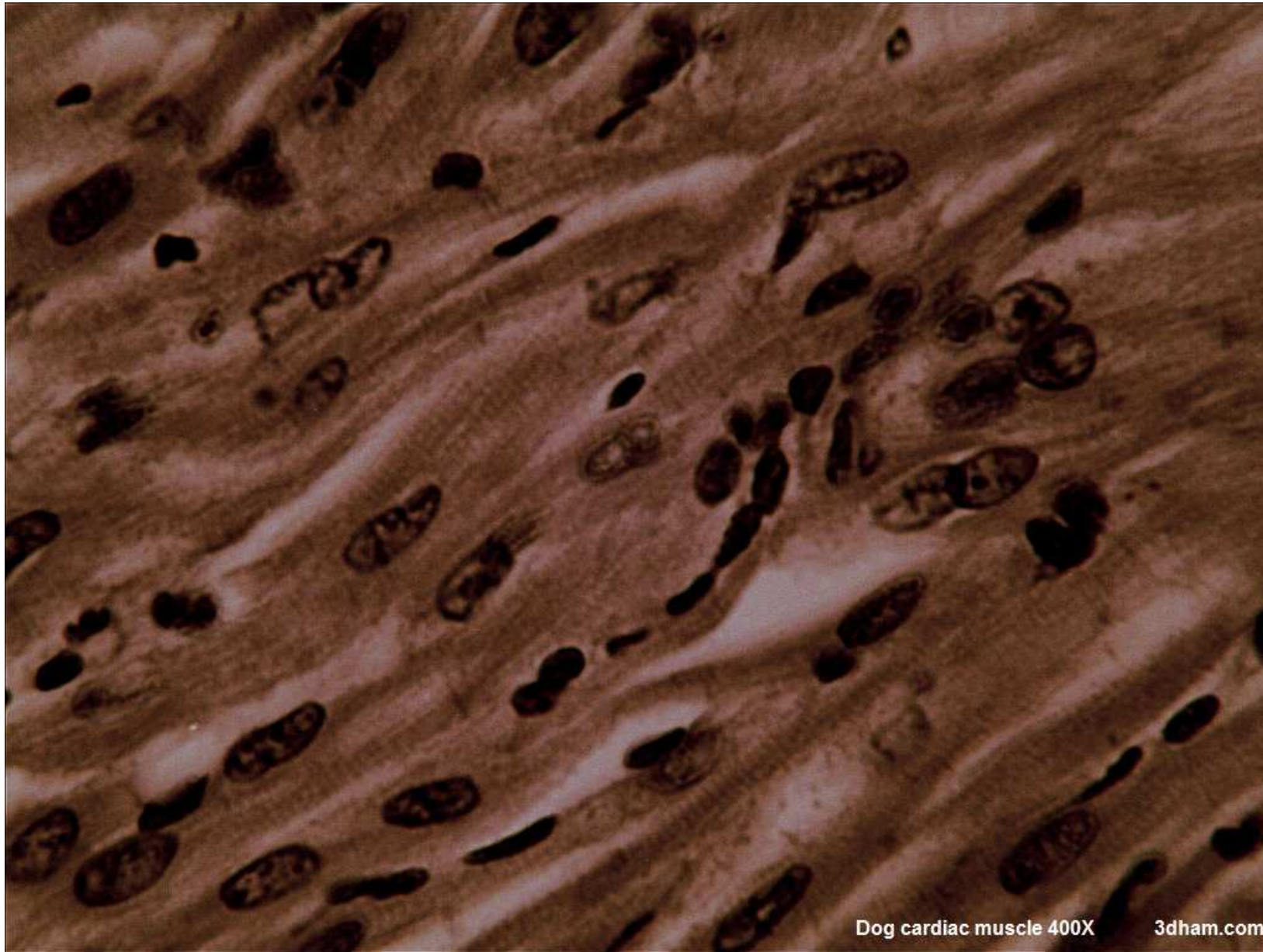
Muscle Fiber (single cell, multi-nuclear)



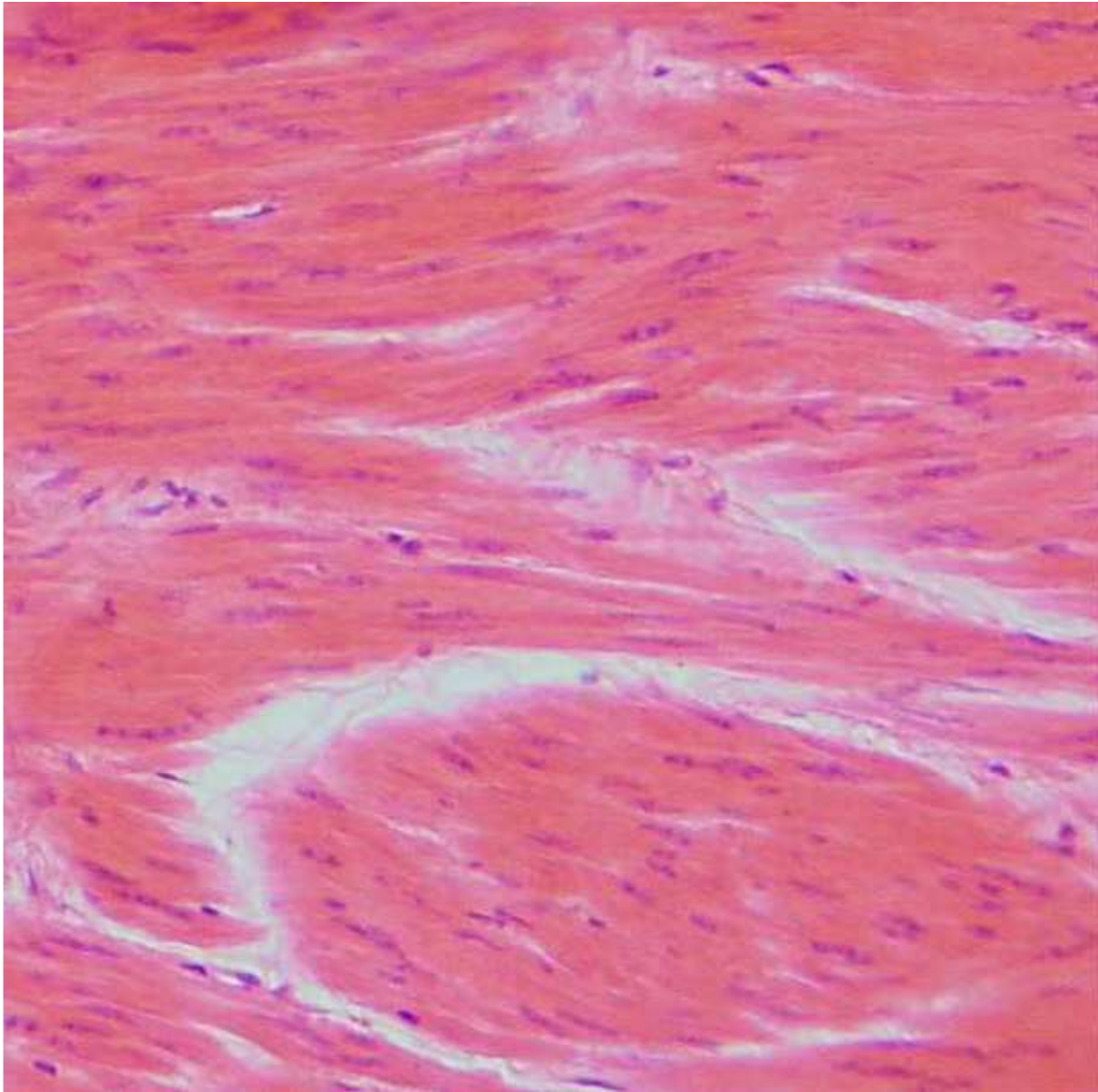
skeletilihased



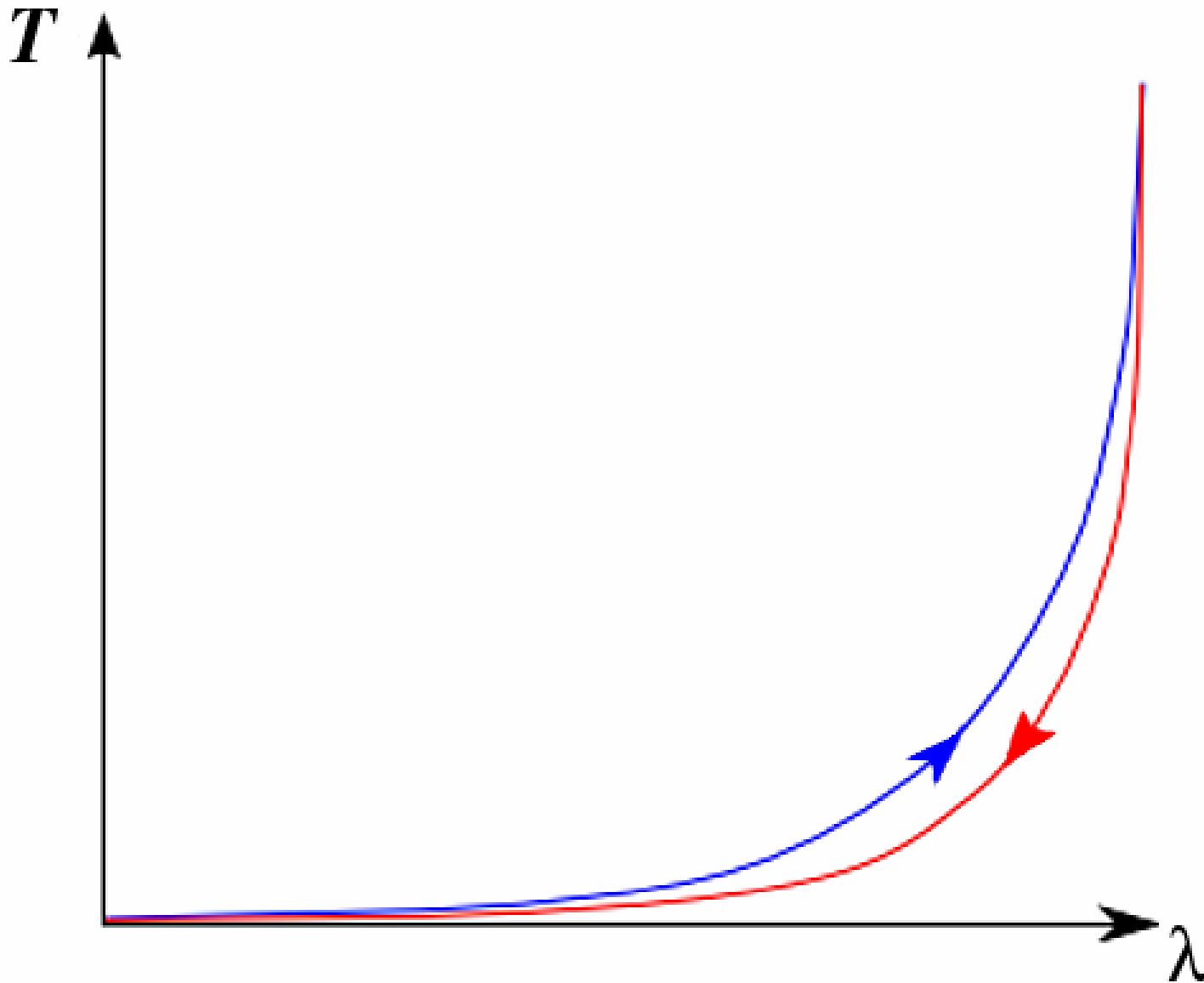
Südamelihas



Koera süda



Smooth muscle

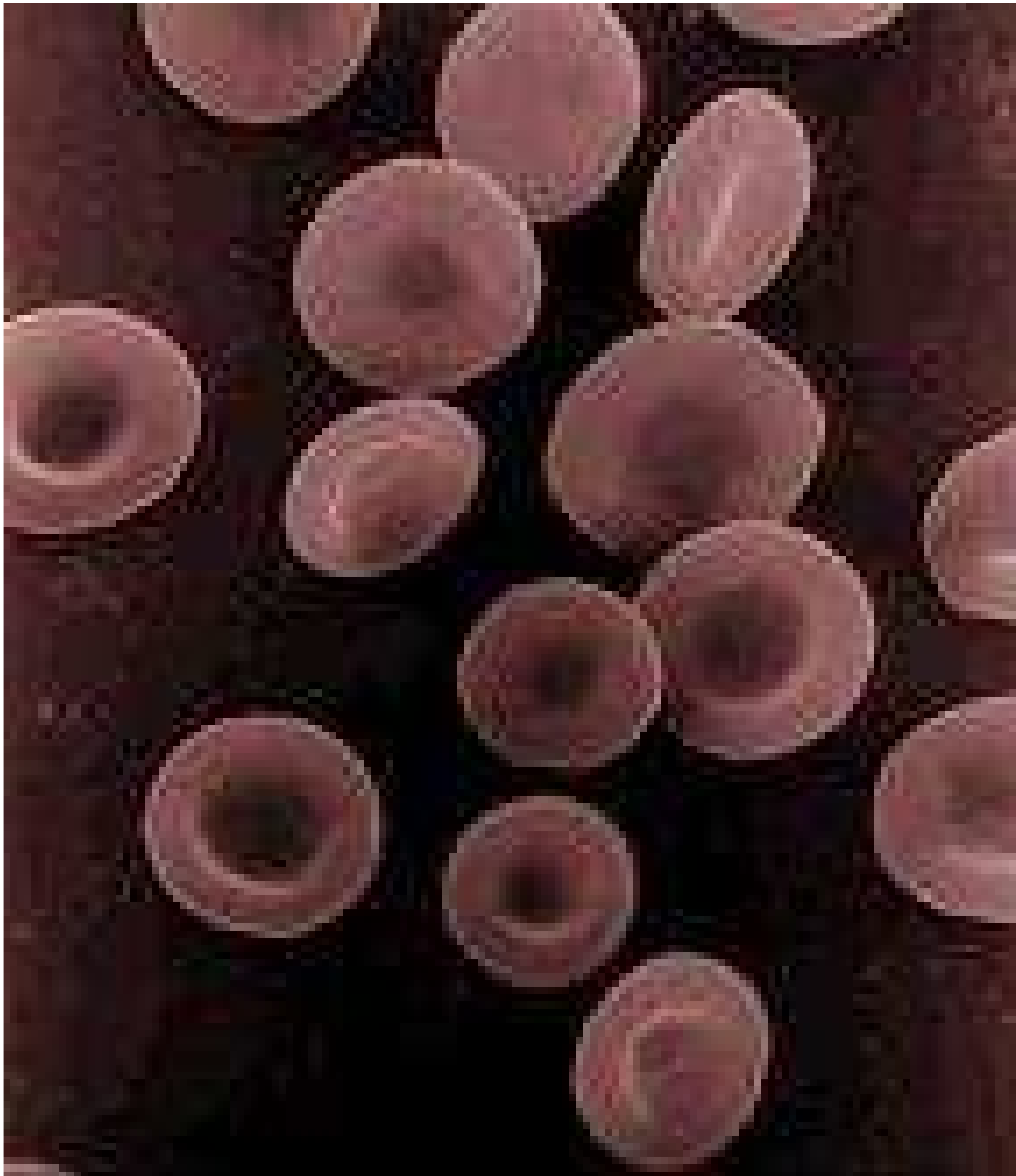


Stress (T) versus stretch ratio (λ) of a soft tissue.



Comparative Biomechanics

Chinstrap Penguin leaping over water.



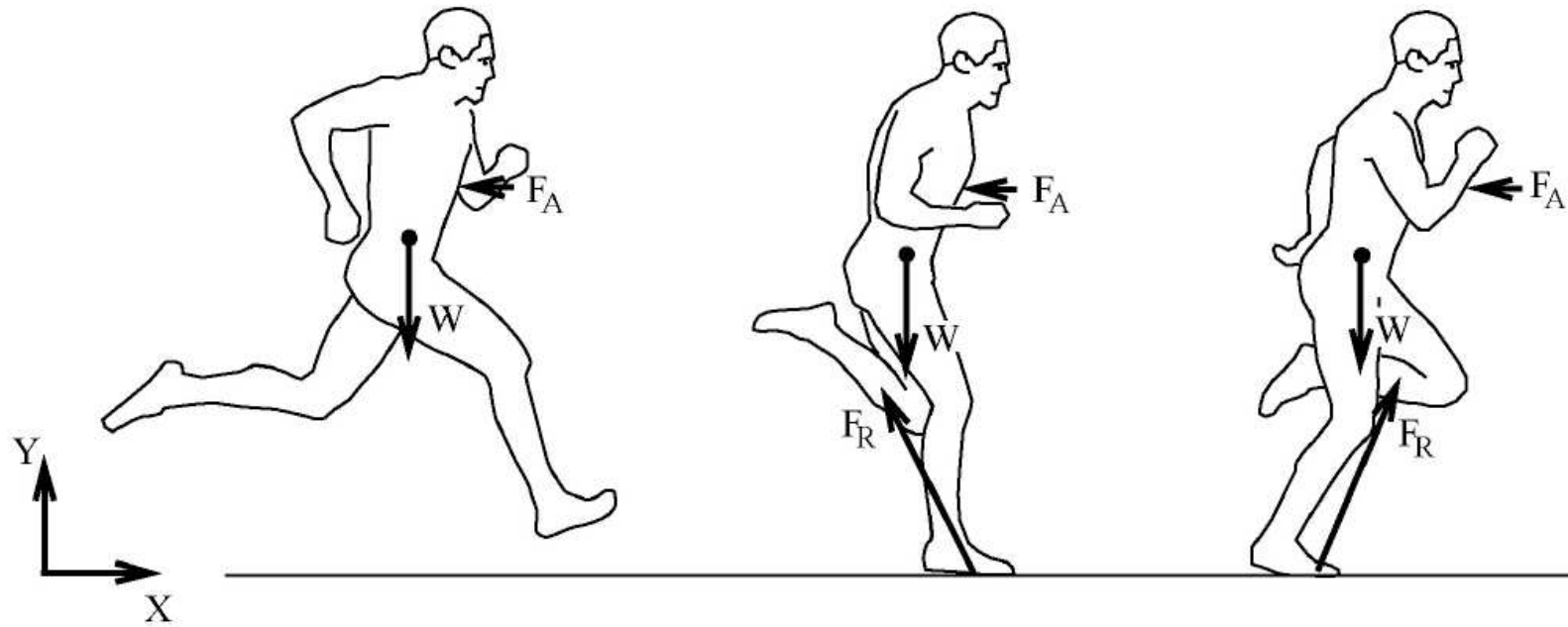
Biofluid mechanics

Red blood cells

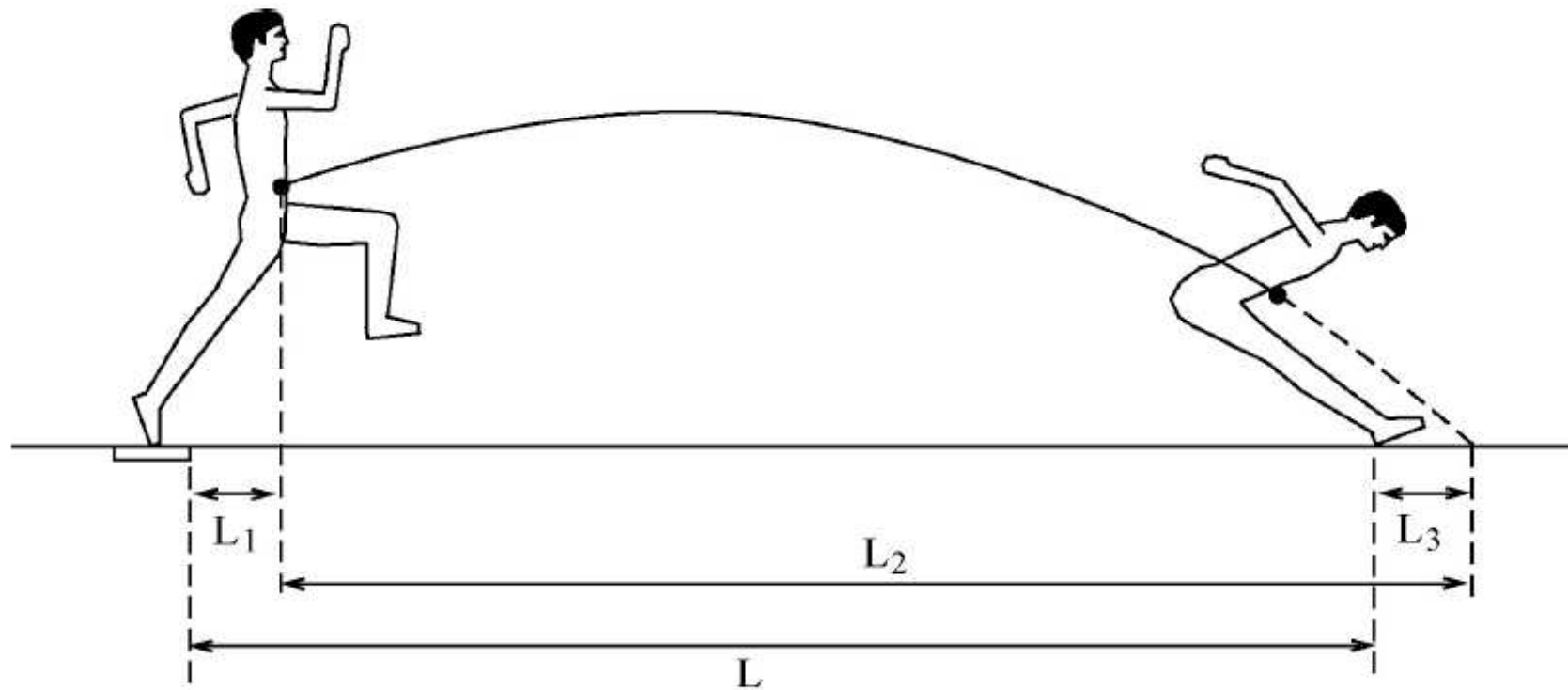
airborne

early ground-support

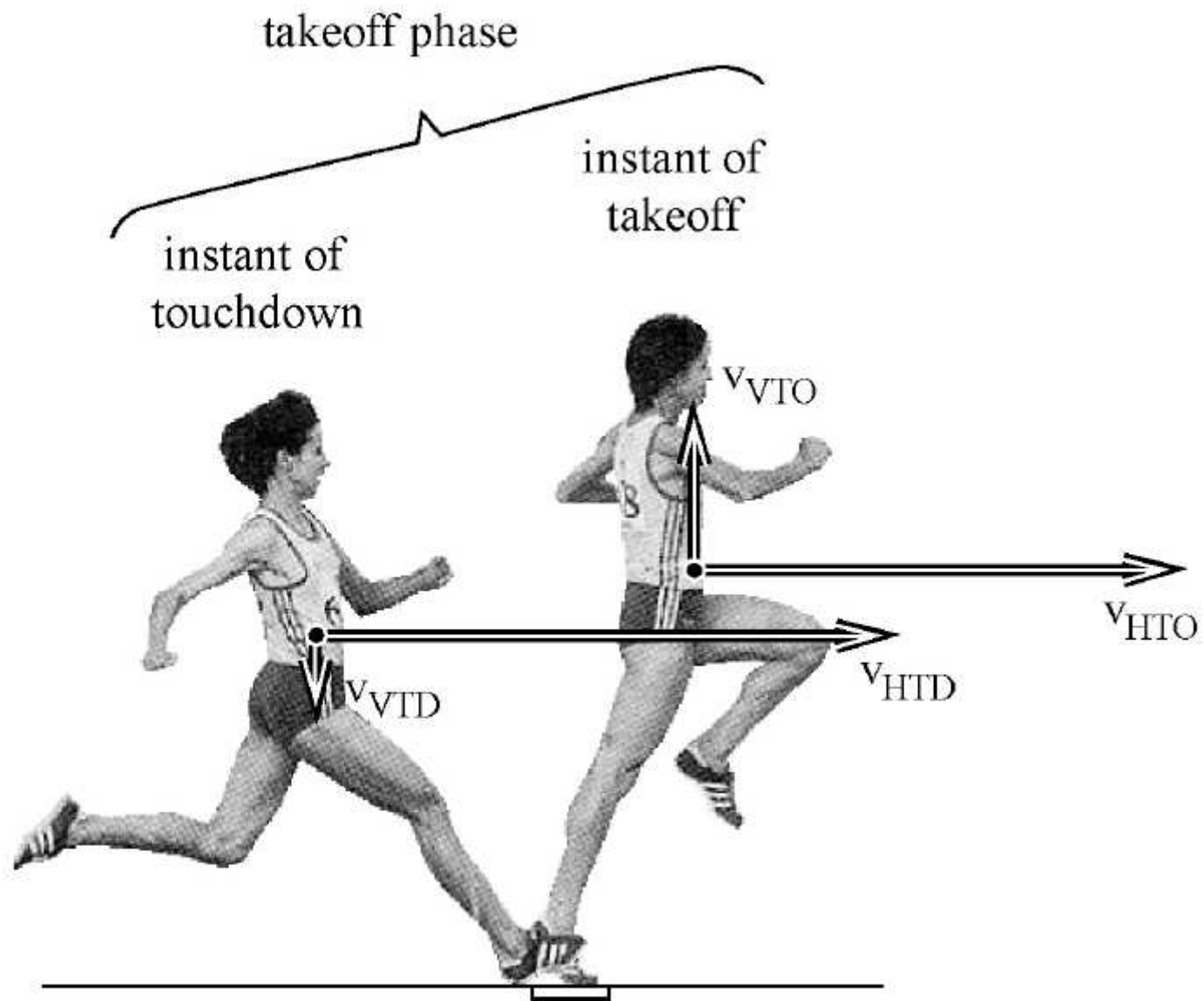
late ground-support

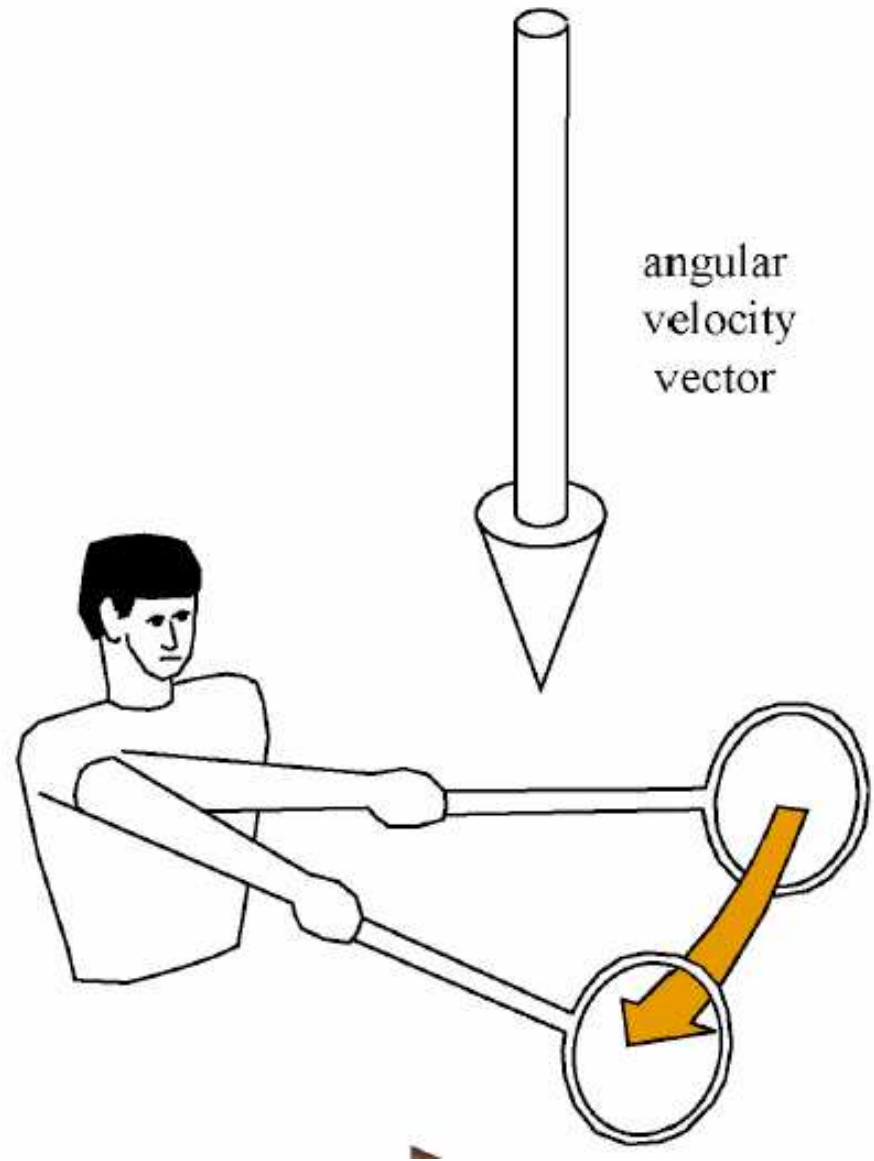
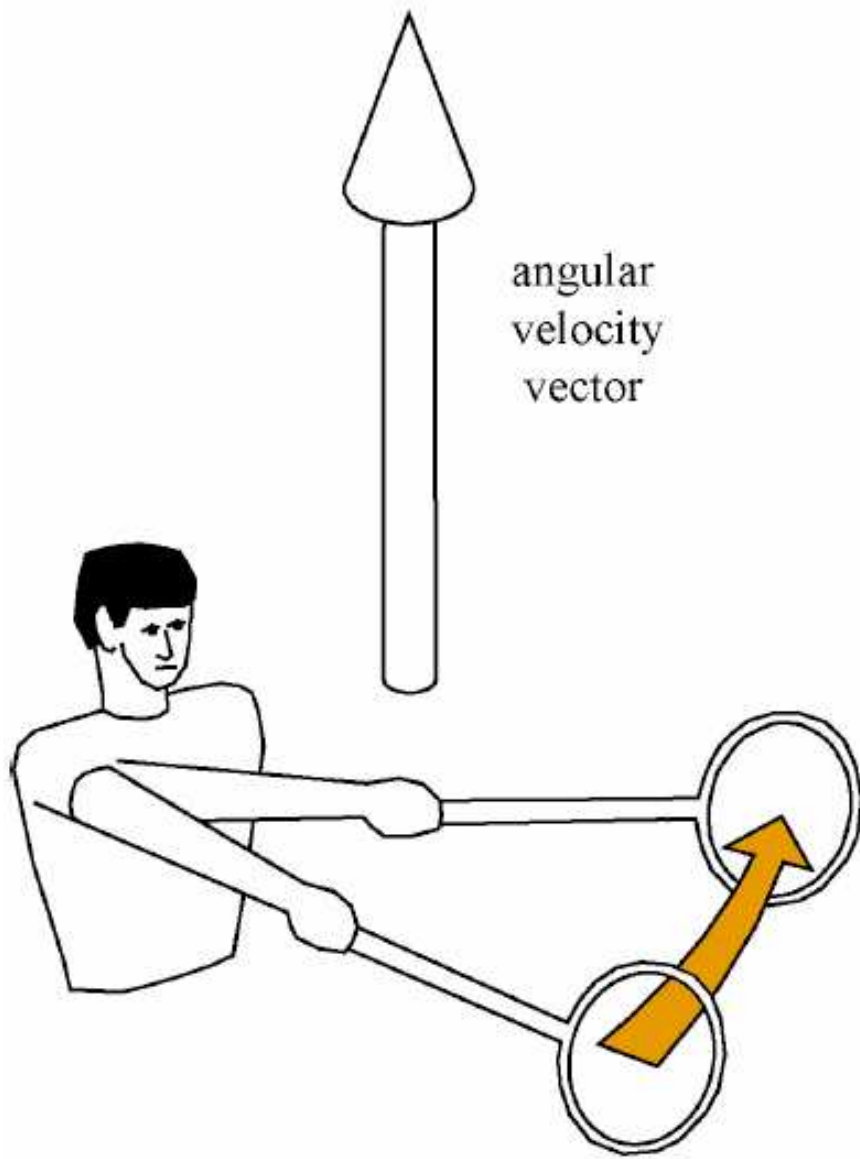


The result of a long jump is composed of three lengths:

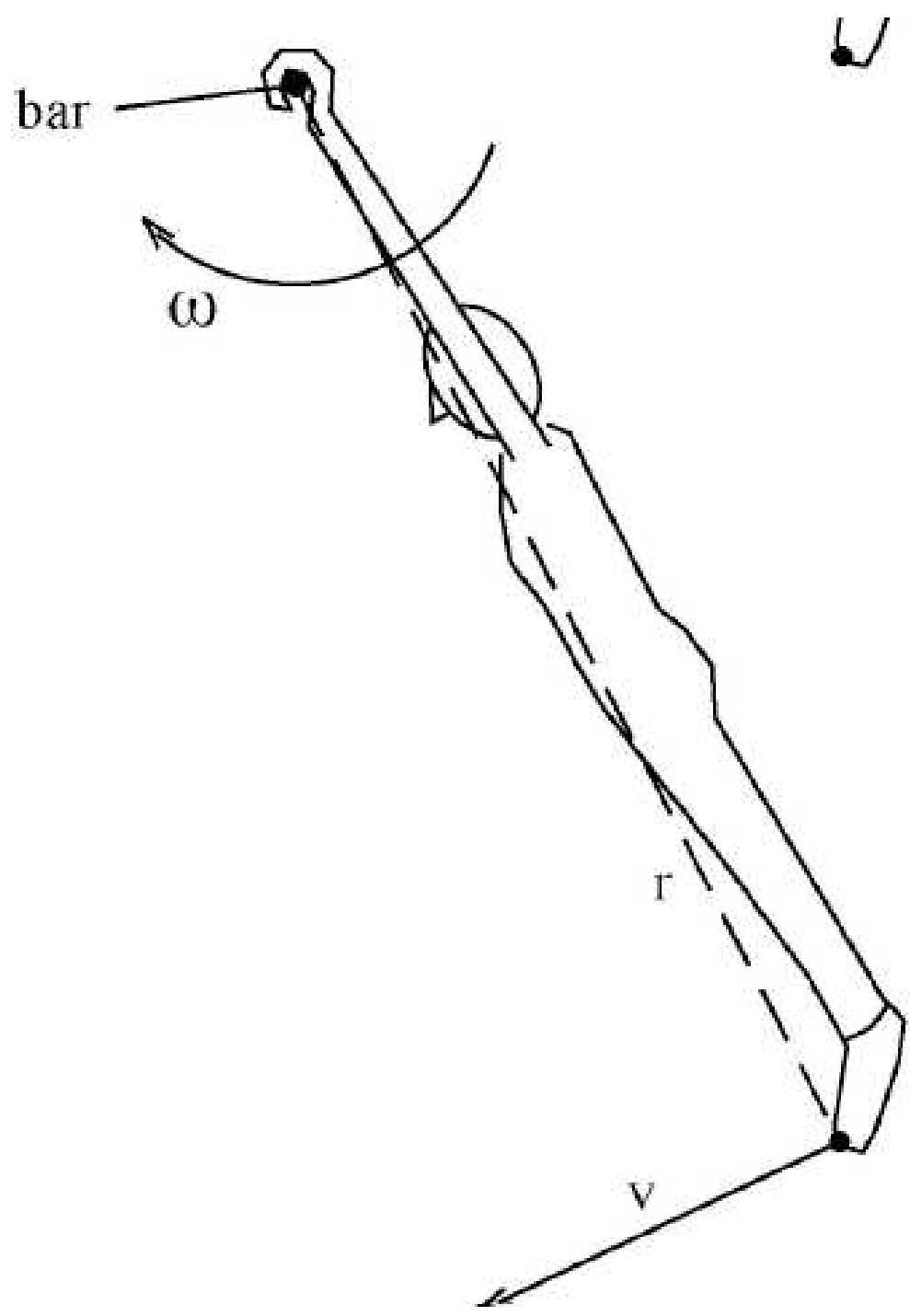


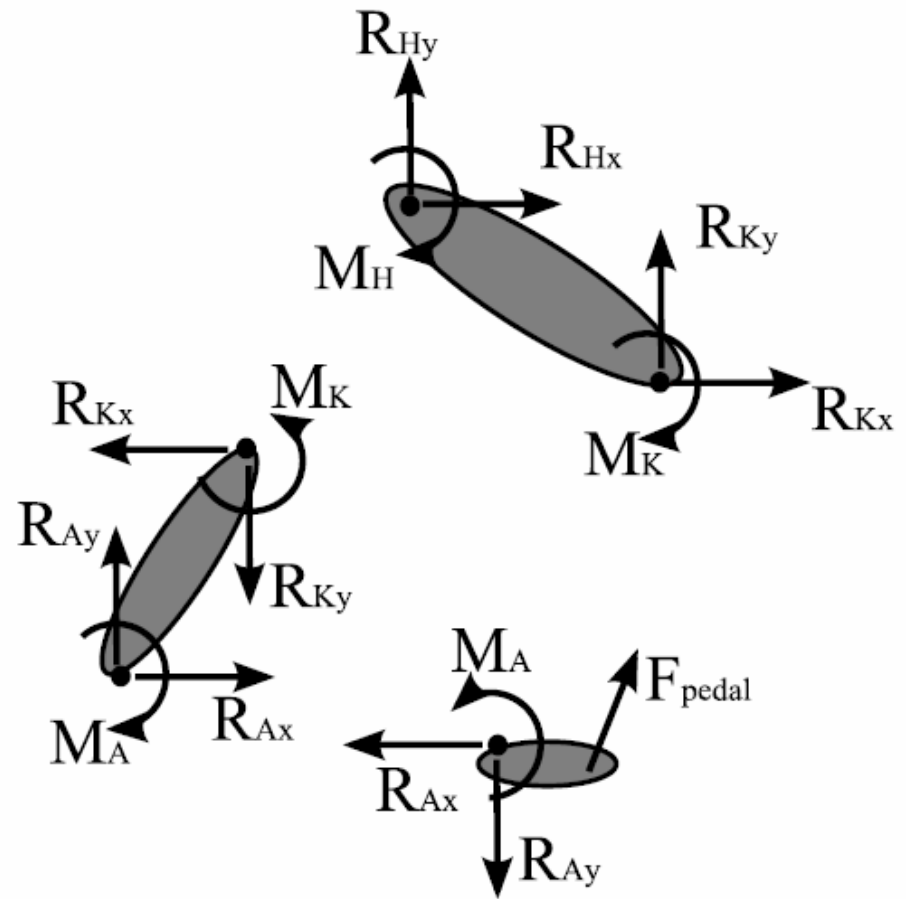
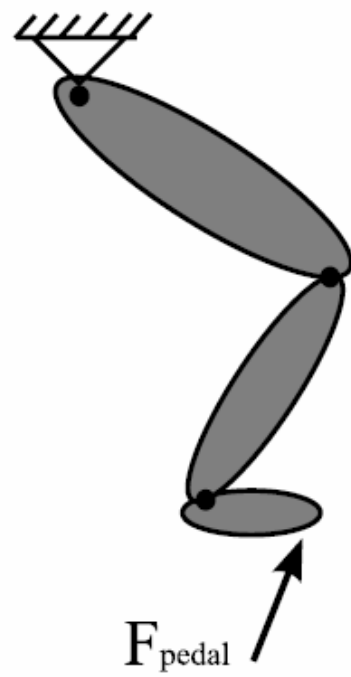
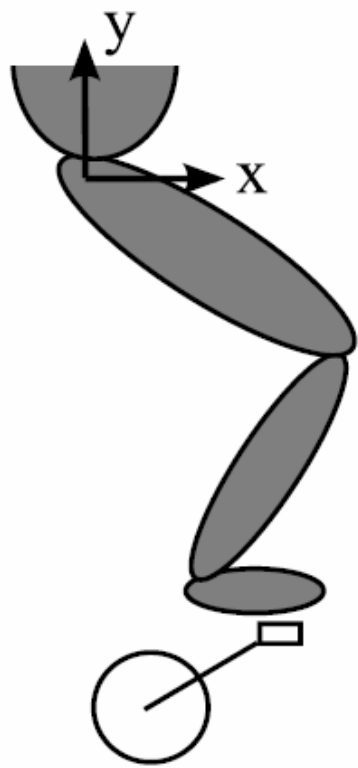
$$L = L_1 + L_2 + L_3 \quad (\text{where } L_3 \text{ is a negative value})$$

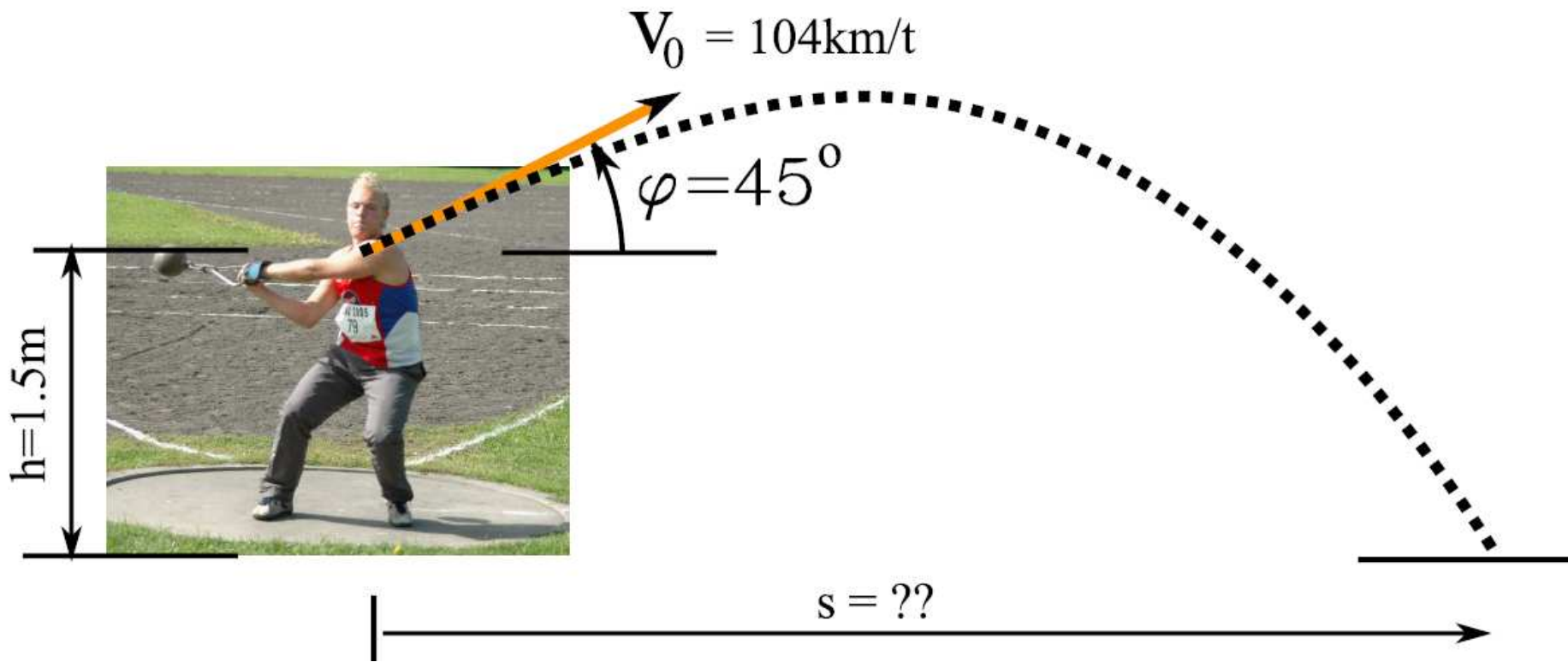


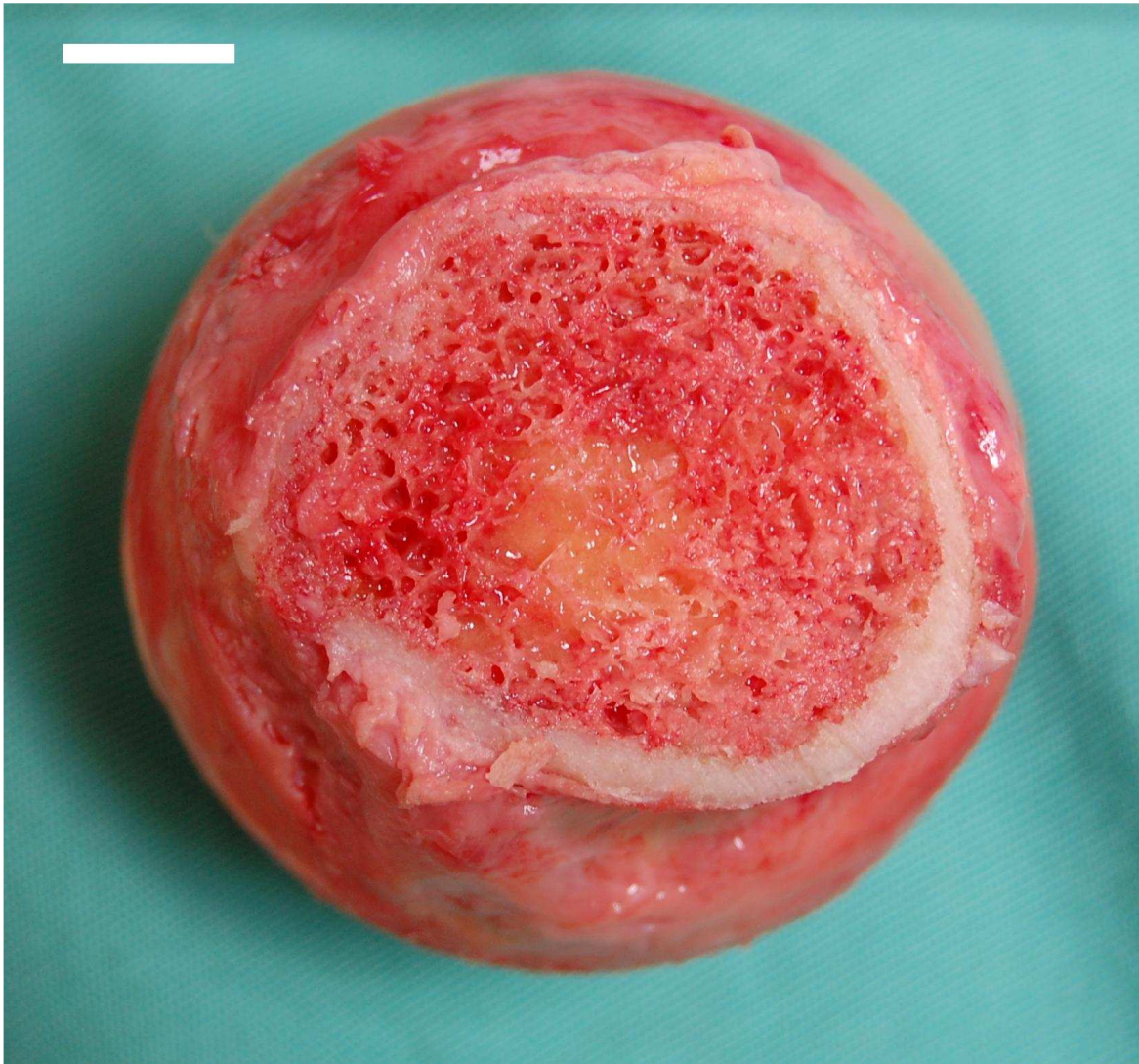


Pöörlemine









A femur head with a cortex of compact bone and medulla of trabecular bone.