

masseter
Masticator muscle enabling the lower jaw to move.

deltoid
Thick triangular muscle drawing the arm away from the median axis of the body and directing it toward the front and back until it is horizontal.

frontal
Muscle that creases the skin of the forehead, raises the eyebrows and pulls the scalp forward.

trapezius
Large flat triangular muscle enabling many shoulder movements; it also helps to extend the head.

THE HUMAN BEING

brachioradialis
Muscle mainly enabling the forearm to flex on the arm.

long palmar
Muscle enabling various hand movements, including flexing it and drawing it away from the median axis of the body; it also helps to stabilize the wrist.

straight muscle of thigh
Powerful muscle enabling the knee to extend and the thigh to flex on the pelvis.

sartorius
Long narrow ribbon-shaped muscle enabling the thigh to flex and to rotate outwardly (outside the median axis); it also allows the leg to flex.

long peroneal
Muscle attached to the fibula enabling the foot to extend and to draw away from the median axis of the body; it also supports the plantar arch.

anterior tibial
Thick muscle enabling the foot to flex on the leg and to draw near the median axis of the body; the posterior tibial allows the foot to extend.

gastrocnemius
Large thick muscle forming the curve of the calf and allowing the foot to extend; it also helps the knee to extend.

THE HUMAN BEING

Jean-Claude **Corbeil**

Ariane **Archambault**

QA INTERNATIONAL

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INTRODUCTION

EDITORIAL POLICY

The Visual Dictionary takes an inventory of the physical environment of a person who is part of today's technological age and who knows and uses a large number of specialized terms in a wide variety of fields.

Designed for the general public, it responds to the needs of anyone seeking the precise, correct terms for a wide range of personal or professional reasons: finding an unknown term, checking the meaning of a word, translation, advertising, teaching material, etc.

The target user has guided the choice of contents for *The Visual Dictionary*, which aims to bring together in 12 thematic books the technical terms required to express the contemporary world, in the specialized fields that shape our daily experience.

STRUCTURE

Each tome has three sections: the preliminary pages, including the table of contents; the body of the text (i.e. the detailed treatment of the theme); the index.

Information is presented moving from the most abstract to the most concrete: sub-theme, title, subtitle, illustration, terminology.

TERMINOLOGY

Each word in *The Visual Dictionary* has been carefully selected following examination of high-quality documentation, at the required level of specialization.

There may be cases where different terms are used to name the same item. In such instances, the word most frequently used by the most highly regarded authors has been chosen.

Words are usually referred to in the singular, even if the illustration shows a number of individual examples. The word designates the concept, not the actual illustration.

DEFINITIONS

Within the hierarchical format of *The Visual Dictionary's* presentation, the definitions fit together like a Russian doll. For example, the information within the definition for the term *insect* at the top of the page does not have to be repeated for each of the insects illustrated. Instead, the text concentrates on defining the distinguishing characteristics of each insect (the *louse* is a parasite, the female *yellow jacket* stings, and so forth).

Since the definition leaves out what is obvious from the illustration, the illustrations and definitions complement one another.

The vast majority of the terms in the *Visual Dictionary* are defined. Terms are not defined when the illustration makes the meaning absolutely clear, or when the illustration suggests the usual meaning of the word (for example, the numerous *handles*).

METHODS OF CONSULTATION

Users may gain access to the contents of *The Visual Dictionary* in a variety of ways:

- From the TABLE OF CONTENTS at the end of the preliminary pages, the user can locate by title the section that is of interest.
- With the INDEX, the user can consult *The Visual Dictionary* from a word, so as to see what it corresponds to, or to verify accuracy by examining the illustration that depicts it.
- The most original aspect of *The Visual Dictionary* is the fact that the illustrations enable the user to find a word even if he or she only has a vague idea of what it is. The dictionary is unique in this feature, as consultation of any other dictionary requires the user first to know the word.

TITLE

Its definition is found below. If the title refers to information that continues over several pages, after the first page it is shown in a shaded tone with no definition.

TERM

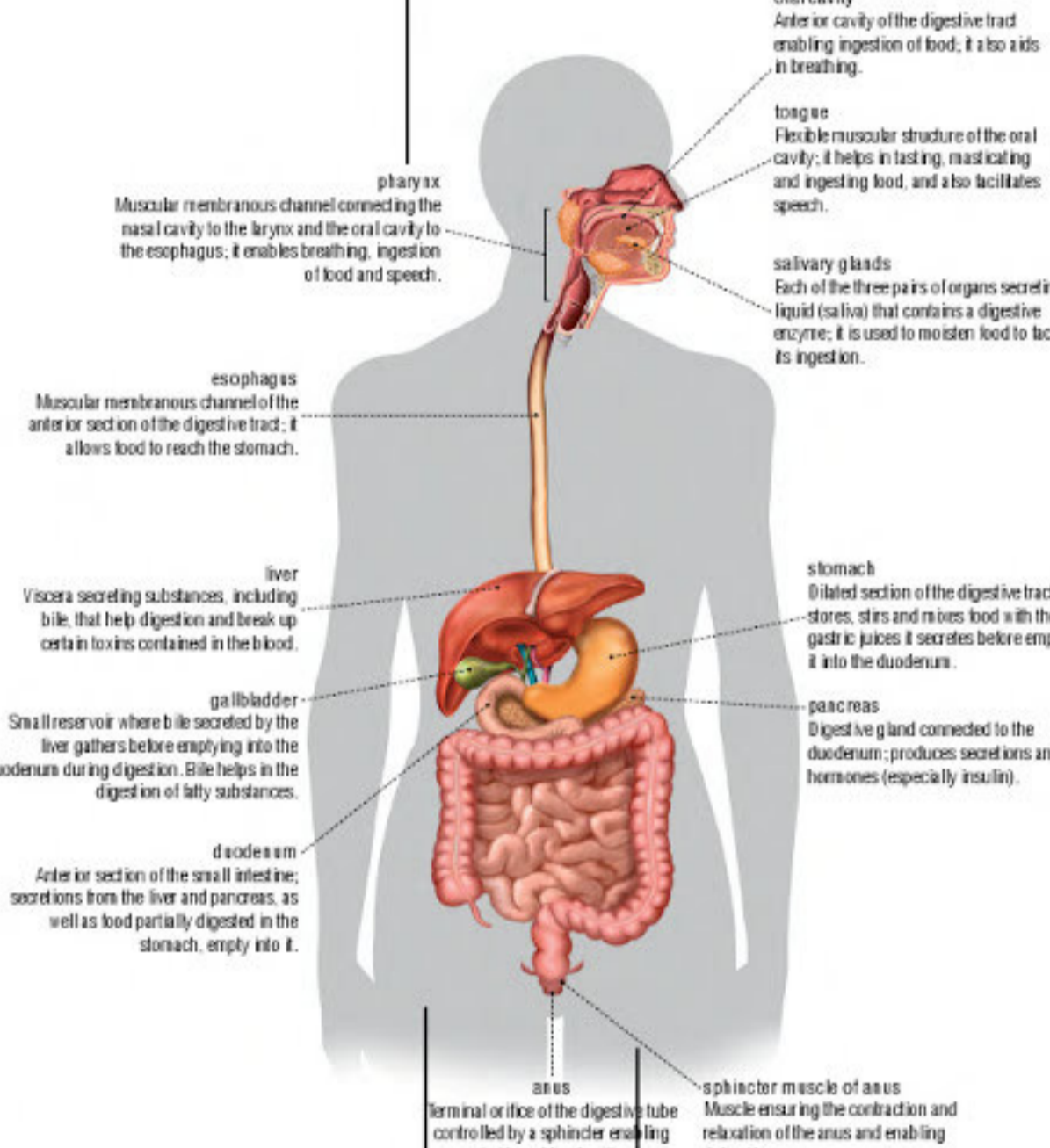
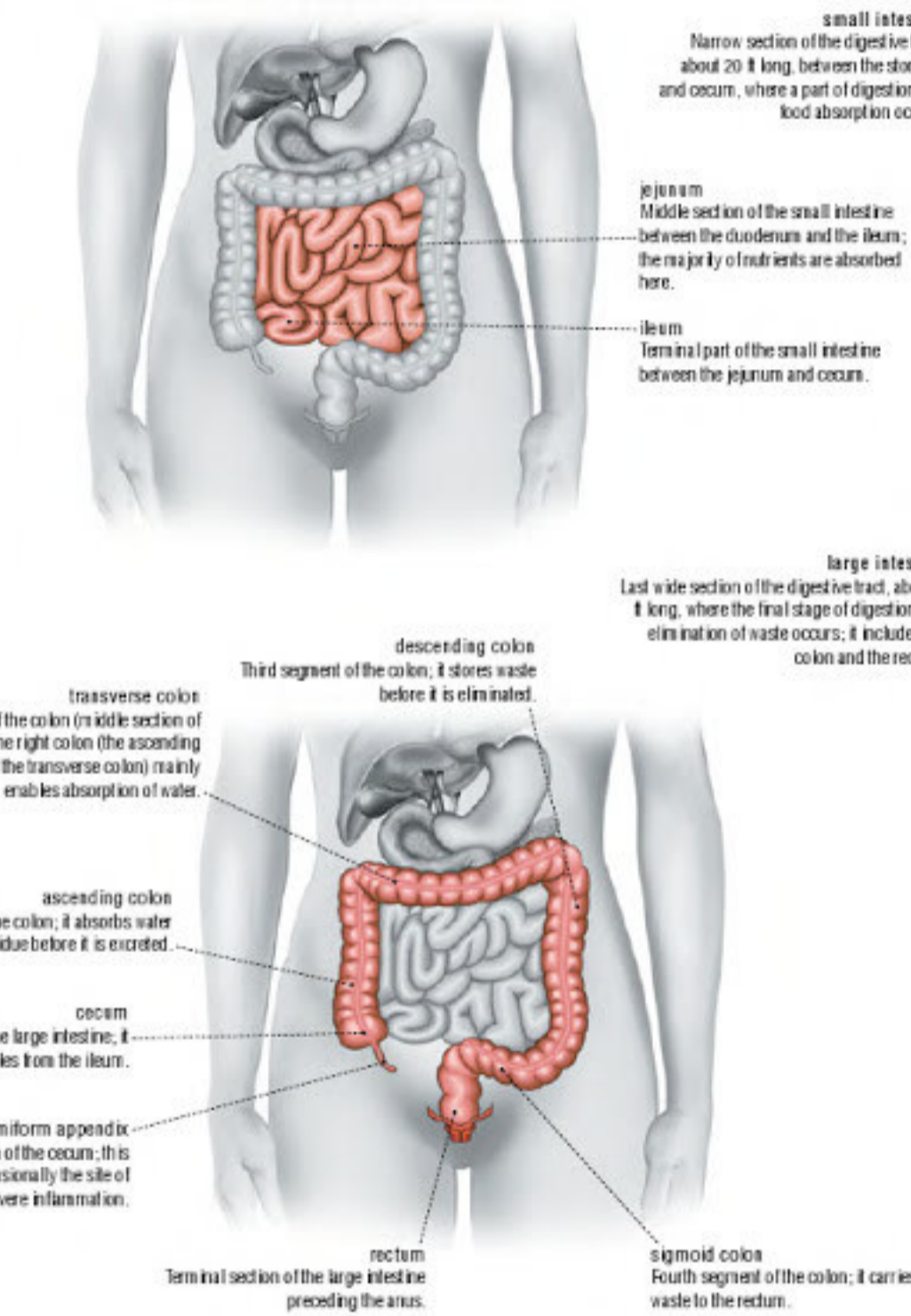
Each term appears in the index with a reference to the pages on which it appears.

DEFINITION

It explains the inherent qualities, function, or characteristics of the element depicted in the illustration.

SUB-THEME

These are shown at the end of the preliminary pages along with their definitions. They are then repeated on each page of a section, but without the definition.

<p>digestive system</p> <p>Formed of the mouth, digestive tract and appended glands, it converts ingested food so that it can be assimilated by the organism.</p>  <p>oral cavity Anterior cavity of the digestive tract enabling ingestion of food; it also aids in breathing.</p> <p>tongue Flexible muscular structure of the oral cavity; it helps in tasting, masticating and ingesting food, and also facilitates speech.</p> <p>salivary glands Each of the three pairs of organs secreting a liquid (saliva) that contains a digestive enzyme; it is used to moisten food to facilitate its ingestion.</p> <p>pharynx Muscular membranous channel connecting the nasal cavity to the larynx and the oral cavity to the esophagus; it enables breathing, ingestion of food and speech.</p> <p>esophagus Muscular membranous channel of the anterior section of the digestive tract; it allows food to reach the stomach.</p> <p>liver Visceral secreting substances, including bile, that help digestion and break up certain toxins contained in the blood.</p> <p>gallbladder Small reservoir where bile secreted by the liver gathers before emptying into the duodenum during digestion. Bile helps in the digestion of fatty substances.</p> <p>duodenum Anterior section of the small intestine; secretions from the liver and pancreas, as well as food partially digested in the stomach, empty into it.</p> <p>stomach Dilated section of the digestive tract; it stores, stirs and mixes food with the gastric juices; it secretes before emptying it into the duodenum.</p> <p>pancreas Digestive gland connected to the duodenum; produces secretions and hormones (especially insulin).</p> <p>anus Terminal orifice of the digestive tube controlled by a sphincter enabling ejection of fecal matter.</p> <p>sphincter muscle of anus Muscle ensuring the contraction and relaxation of the anus and enabling defecation.</p> <p>80</p>	<p>digestive system</p>  <p>small intestine Narrow section of the digestive tract, about 20 ft long, between the stomach and caecum, where a part of digestion and food absorption occurs.</p> <p>jejunum Middle section of the small intestine between the duodenum and the ileum; the majority of nutrients are absorbed here.</p> <p>ileum Terminal part of the small intestine between the jejunum and caecum.</p> <p>large intestine Last wide section of the digestive tract, about 5 ft long, where the final stage of digestion and elimination of waste occurs; it includes the colon and the rectum.</p> <p>transverse colon Second segment of the colon (middle section of the large intestine). The right colon (the ascending colon plus half the transverse colon) mainly enables absorption of water.</p> <p>ascending colon First segment of the colon; it absorbs water from food residue before it is excreted.</p> <p>cecum Anterior part of the large intestine; it receives food particles from the ileum.</p> <p>vermiform appendix Tubular extension of the caecum; this appendage is occasionally the site of appendicitis, a severe inflammation.</p> <p>rectum Terminal section of the large intestine preceding the anus.</p> <p>sigmoid colon Fourth segment of the colon; it carries waste to the rectum.</p> <p>81</p>
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ILLUSTRATION

It is an integral part of the visual definition for each of the terms that refer to it.

NARROW LINES

These link the word to the item indicated. Where too many lines would make reading difficult, they have been replaced by color codes with captions or, in rare cases, by numbers.

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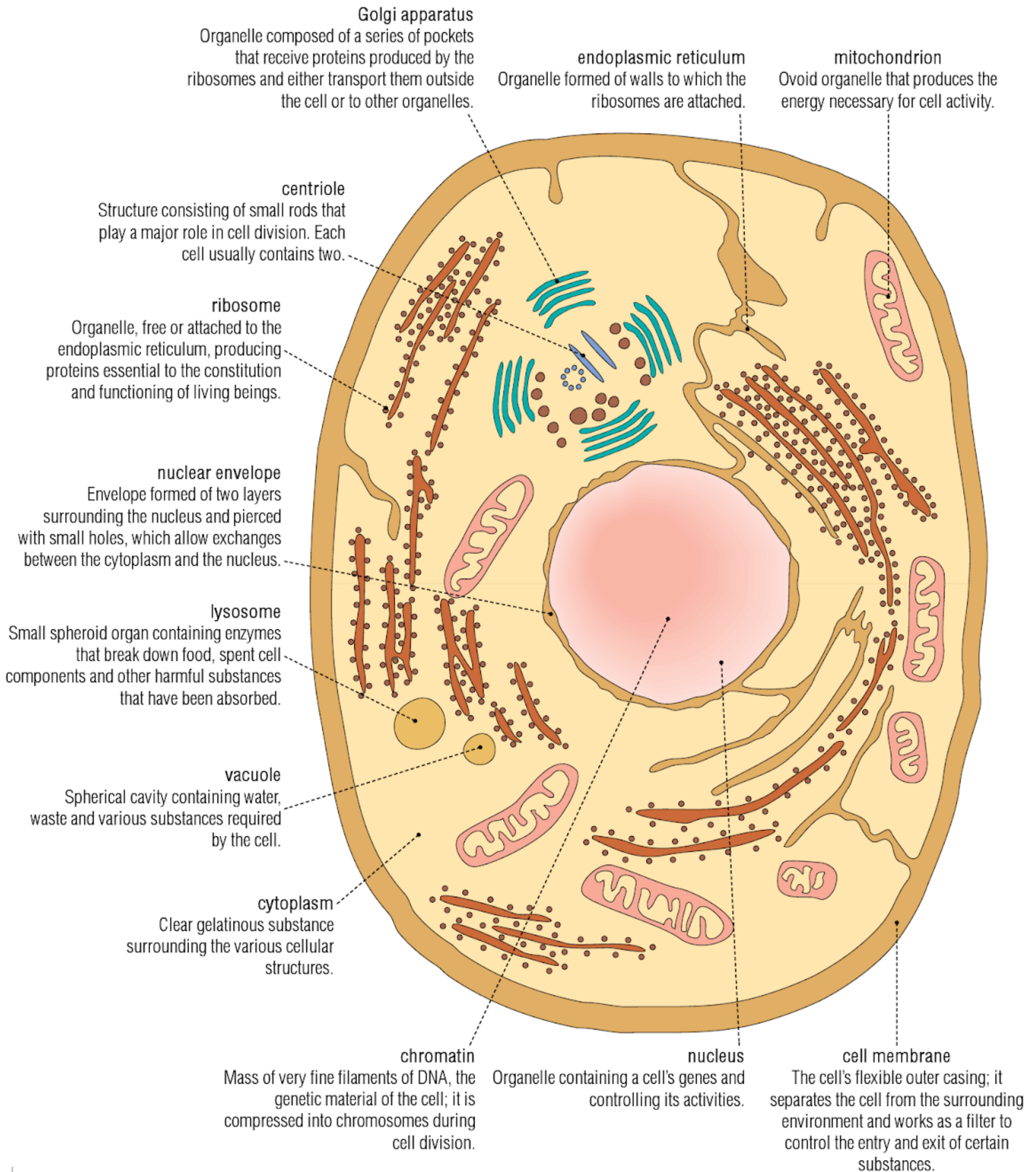
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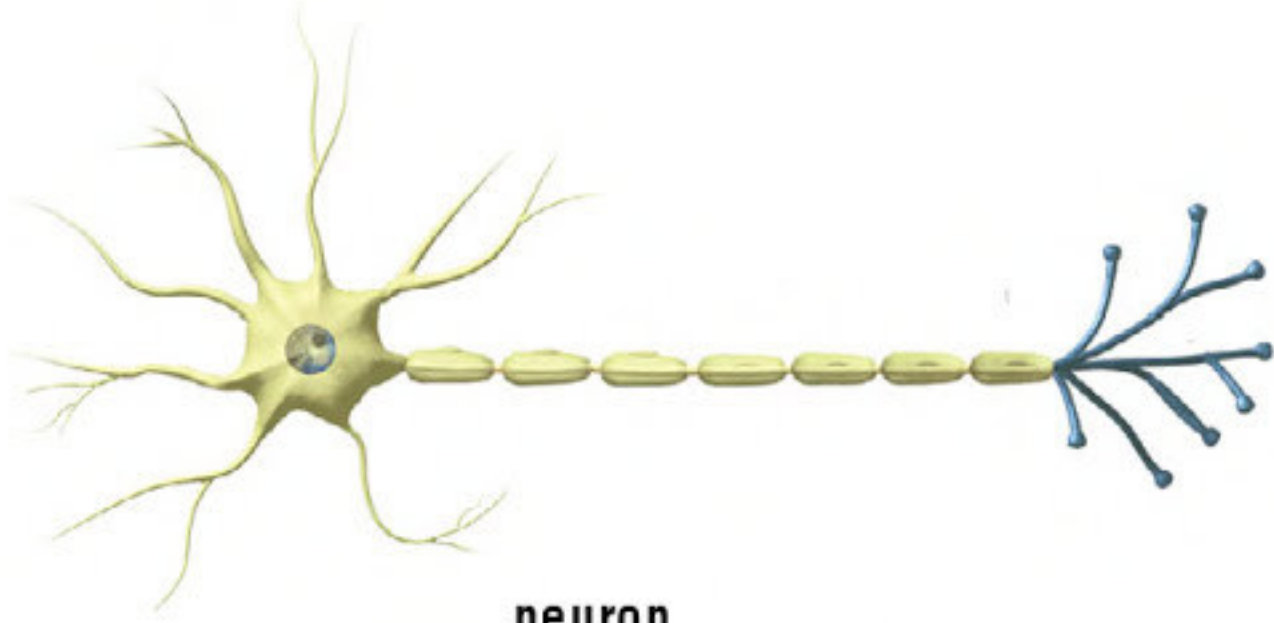
human cell

Smallest living structure and constituent unit of human beings; the sizes and shapes of cells vary according to their function.



examples of cells

The human body contains some 200 types of cells. All cells have the same general structure but are adapted according to their function in the body.



neuron

Cell that receives, carries, and transmits messages in the form of nerve impulses.



photoreceptor

Nerve cell in the retina that converts light into nerve impulses; these are transmitted to the cerebrum, which decodes them and forms an image.



spermatozoon

Mature and mobile reproductive male cell produced by the testicle; the main constituent of the sperm used to fertilize an egg.



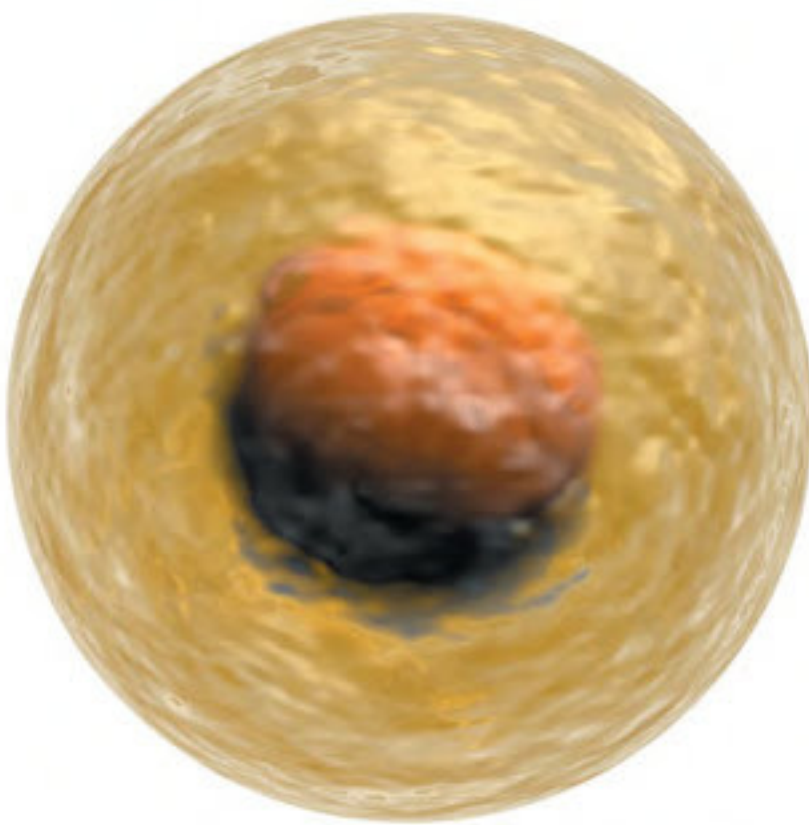
osteocyte

Irregularly shaped cell making up bony tissue.



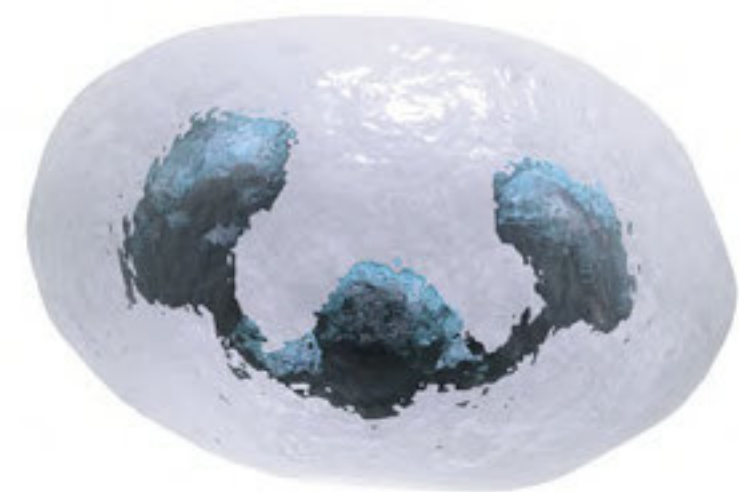
red blood cell

Blood cell that transports oxygen and contains a pigment (hemoglobin); red blood cells are the most numerous.



egg

Mature female reproductive cell produced by the ovary, which, after fertilization by a spermatozoon, enables the embryo to develop.



neutrophil

Blood cell that plays an essential role the body's defense, characterized by a nucleus with several lobes and a granular cytoplasm.

muscle fiber

Component tissue of the muscle; it includes several nuclei and numerous parallel filaments that can contract themselves.

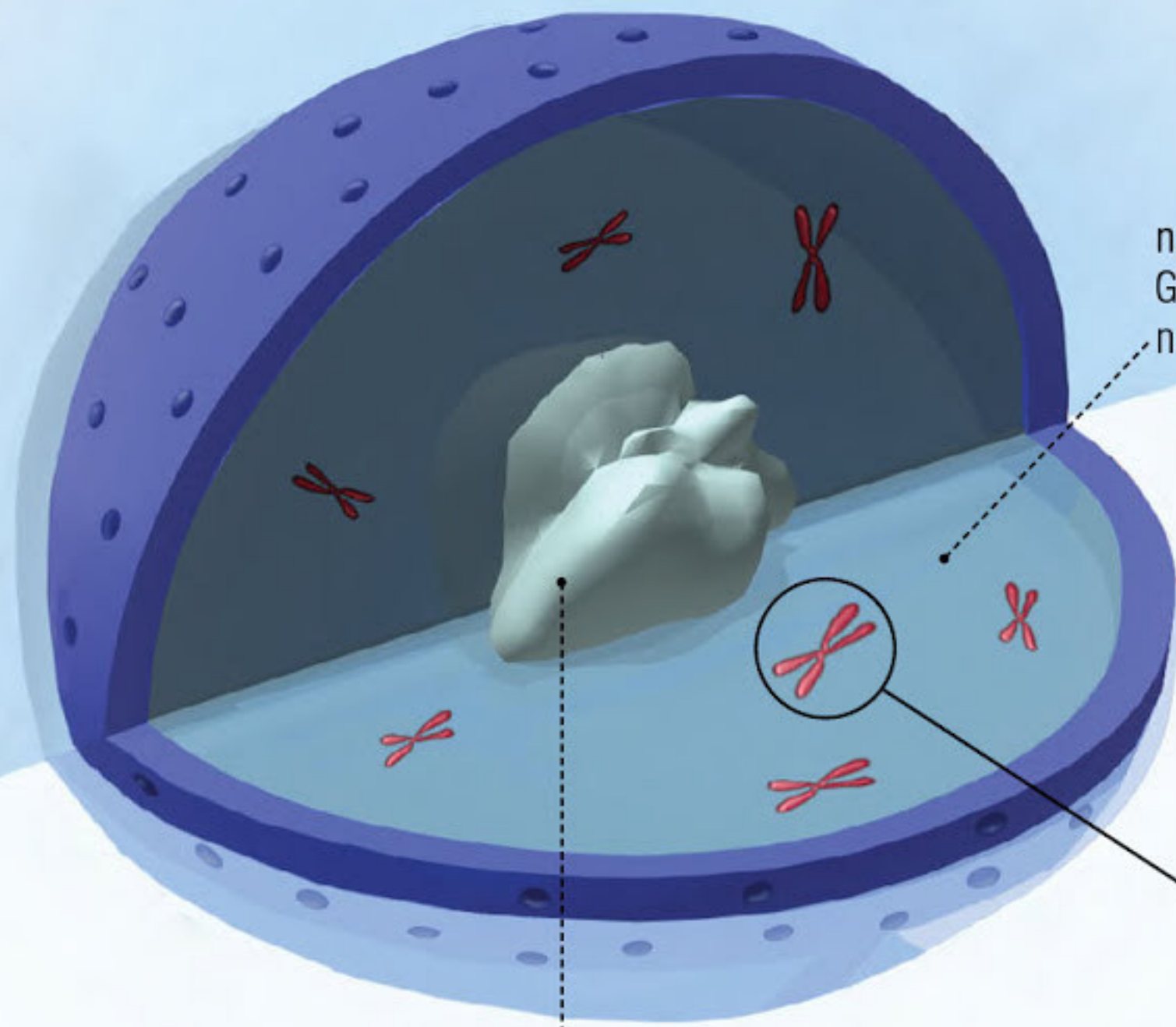


DNA

Complex molecule containing genes, contained in cell nuclei and formed of strands of nucleotides arranged in a double helix.

nucleus

Organelle containing a cell's genes and controlling its activities.



nucleoplasm
Gelatinous substance in which the nucleolus and chromatin float.

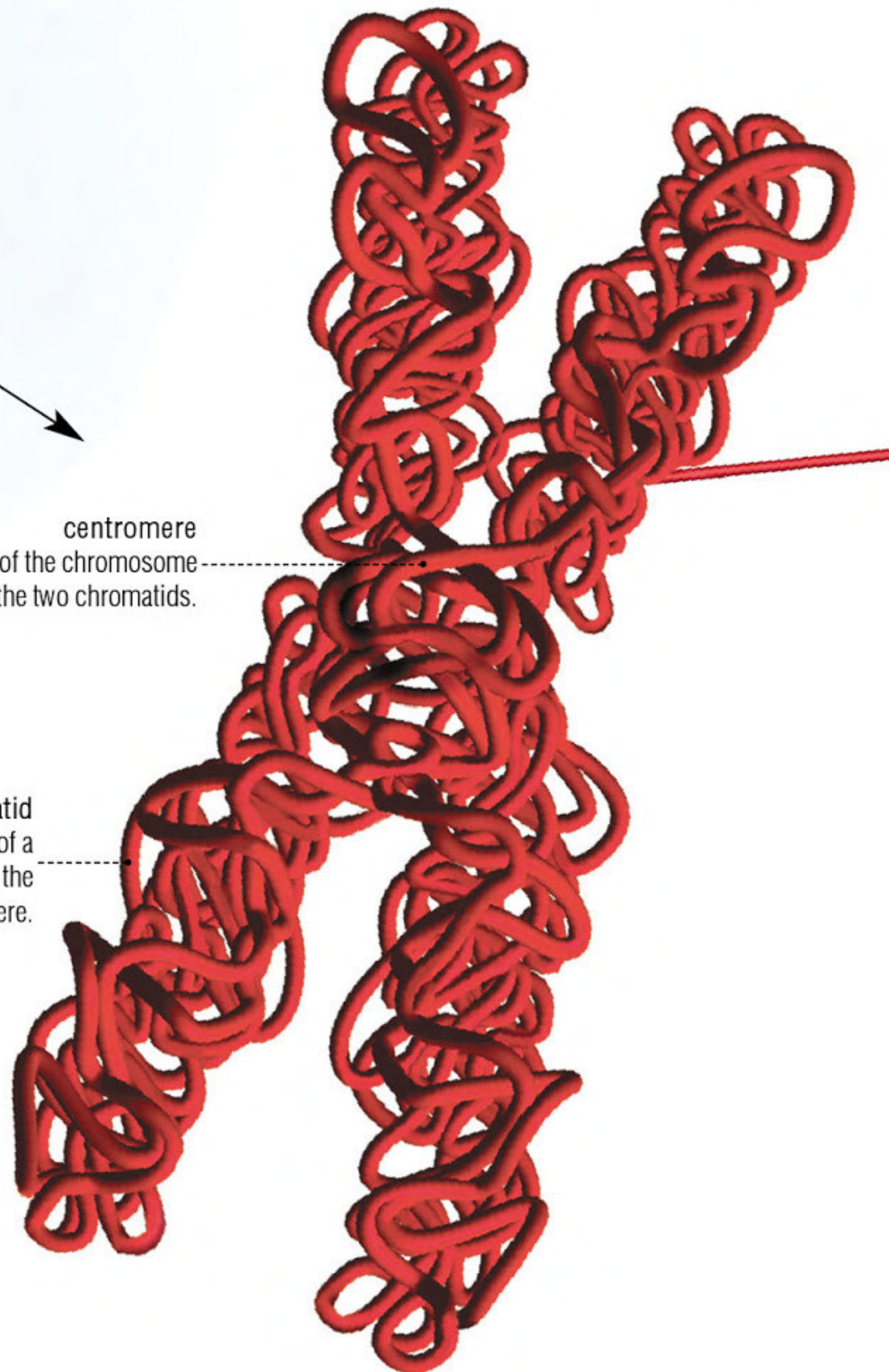
nucleolus
Small spherical body located inside the nucleus, within which the ribosomes, or protein-synthesizing structures, are produced.

chromosome

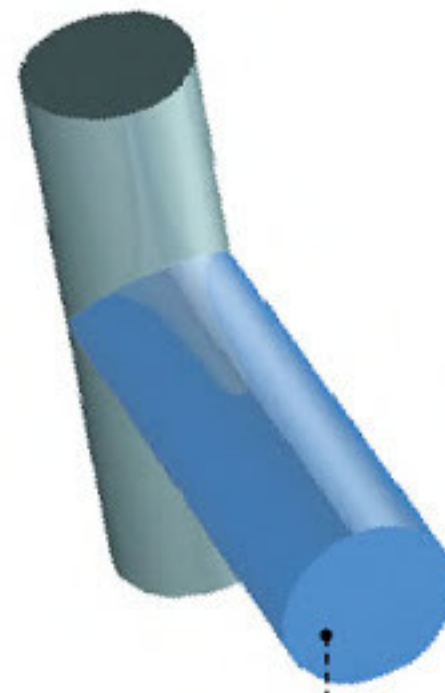
Element, composed of DNA and proteins, that carries genetic information. Human cells have 46, which can be observed only during cell division.

centromere
Short section of the chromosome joining the two chromatids.

chromatid
Each of the two strands of a chromosome. During cell division, the two strands separate at the centromere.

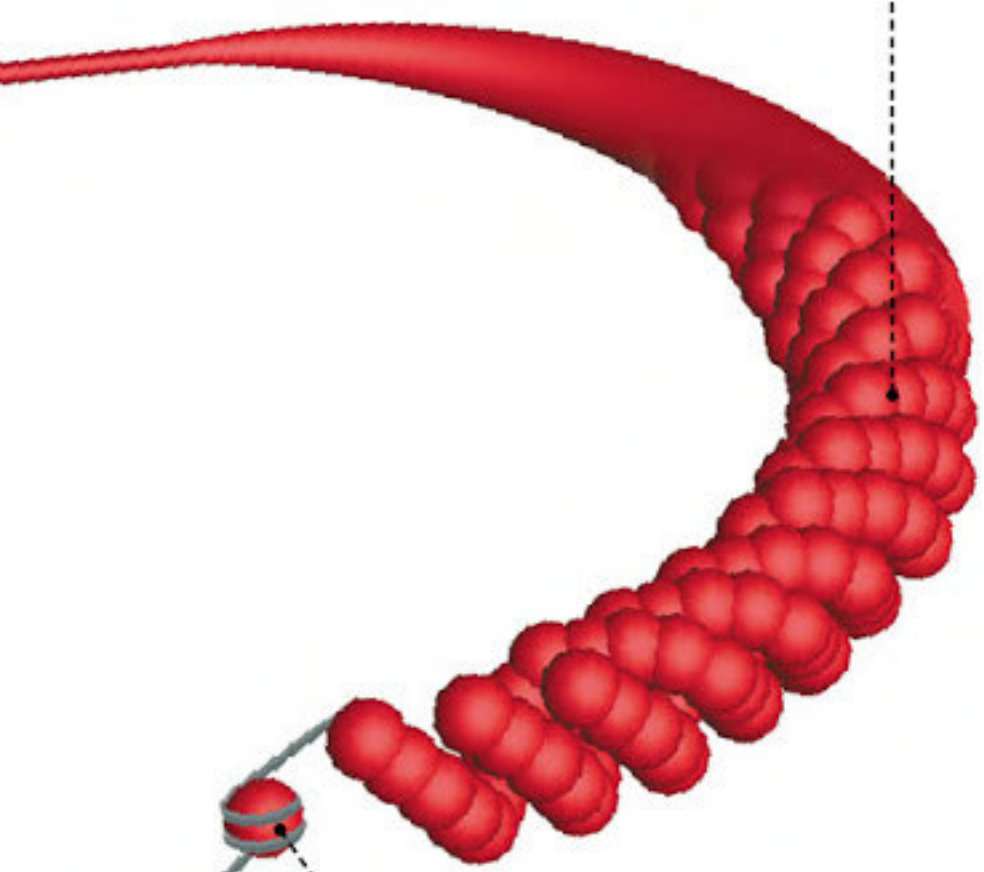


nucleotide
The basic unit of DNA molecules, composed of a phosphate group and a sugar, linked to a nitrogenous base.



nitrogenous base
Molecule forming a nucleotide. The four nitrogenous bases assemble in the DNA molecule to form a sequence that is specific to each individual.

chromatin
Mass of very fine filaments of DNA, the genetic material of the cell; it is compressed into chromosomes during cell division.



nucleosome
Mass formed of part of a DNA molecule coiled around a core of eight histone molecules.

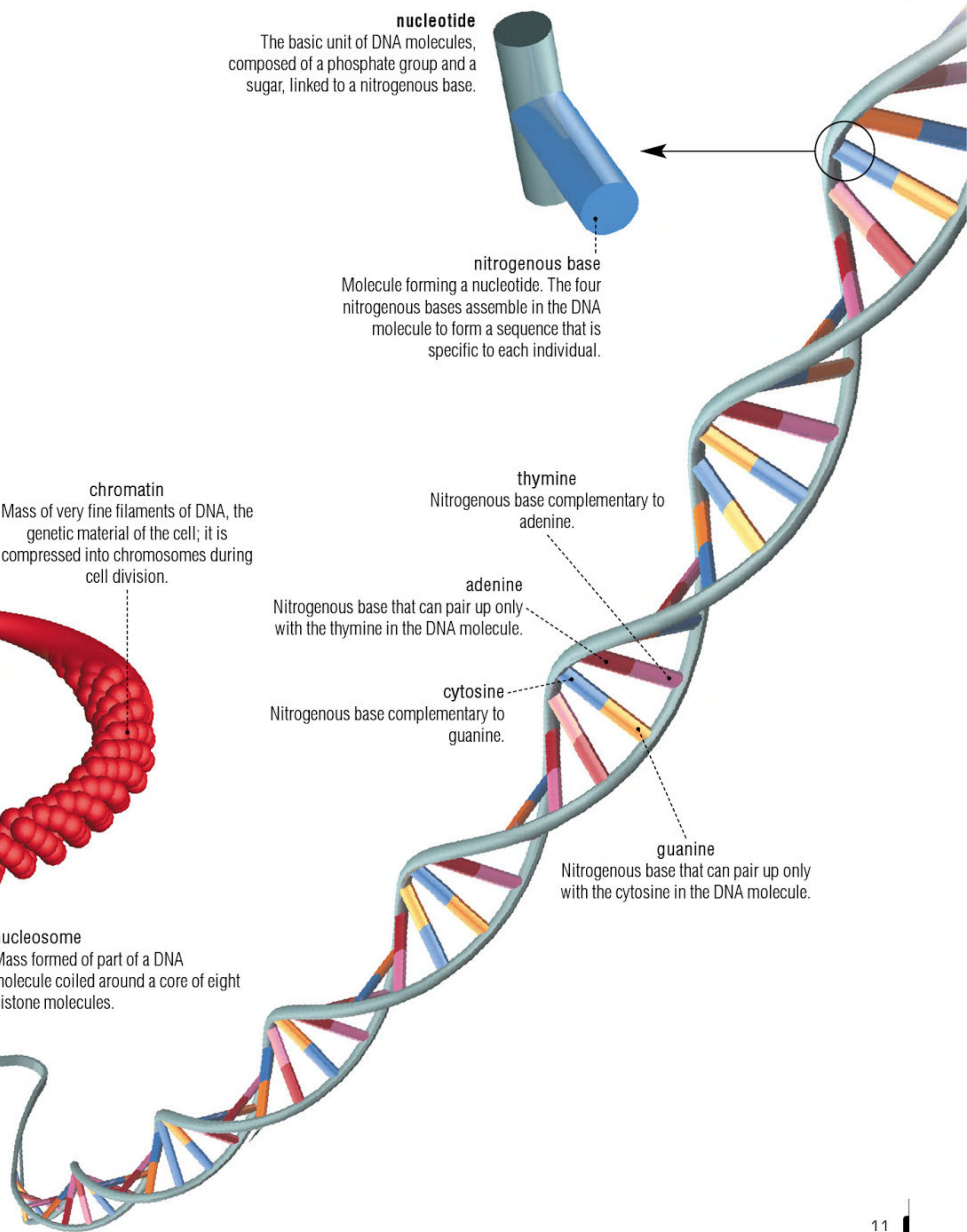


thymine
Nitrogenous base complementary to adenine.

adenine
Nitrogenous base that can pair up only with the thymine in the DNA molecule.

cytosine
Nitrogenous base complementary to guanine.

guanine
Nitrogenous base that can pair up only with the cytosine in the DNA molecule.

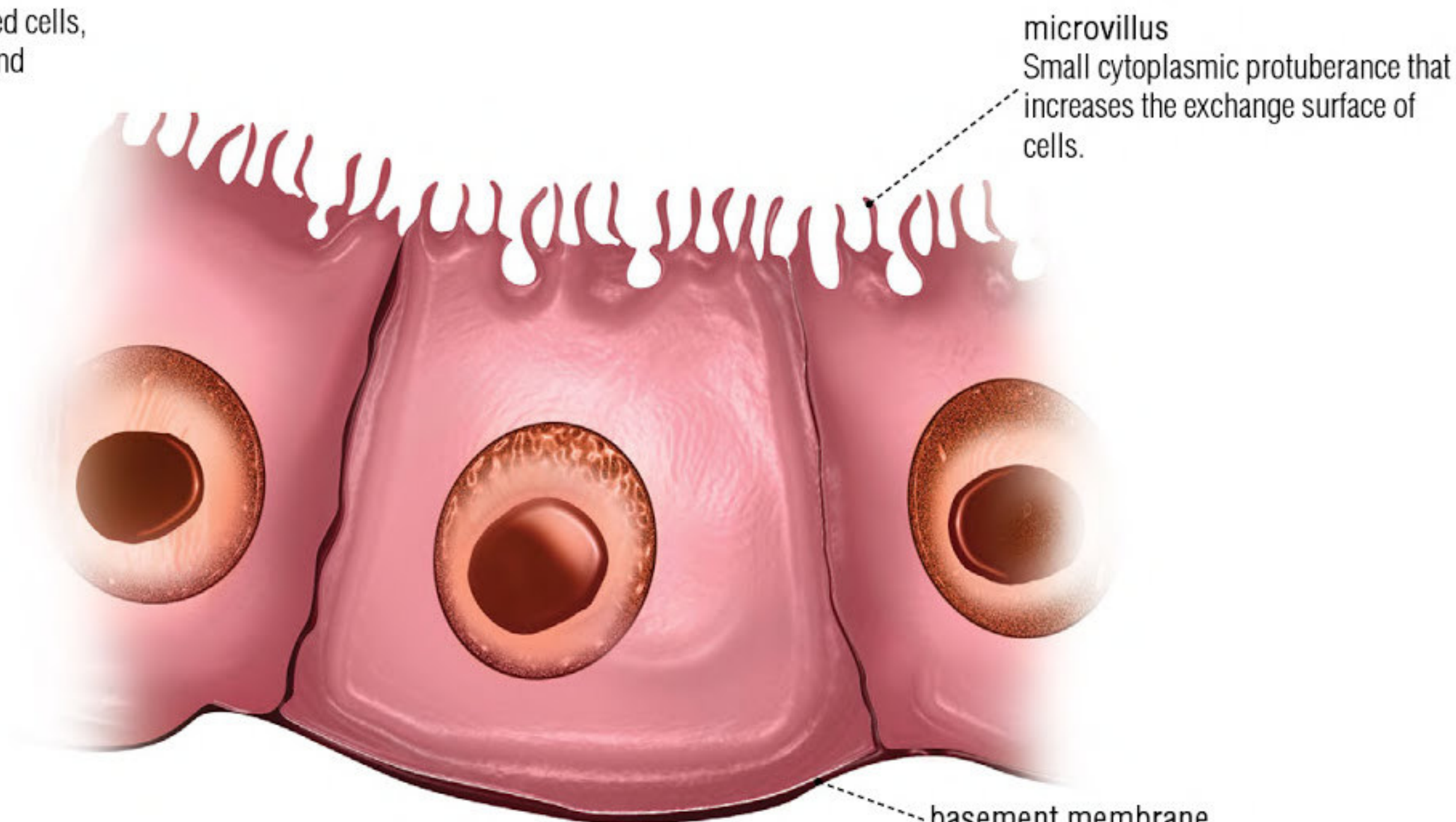


tissues

Combinations of cells and molecules making up the organs of the human body.

epithelial tissue

Tissue, formed of closely packed cells, that lines most of the internal and external surfaces of the body.

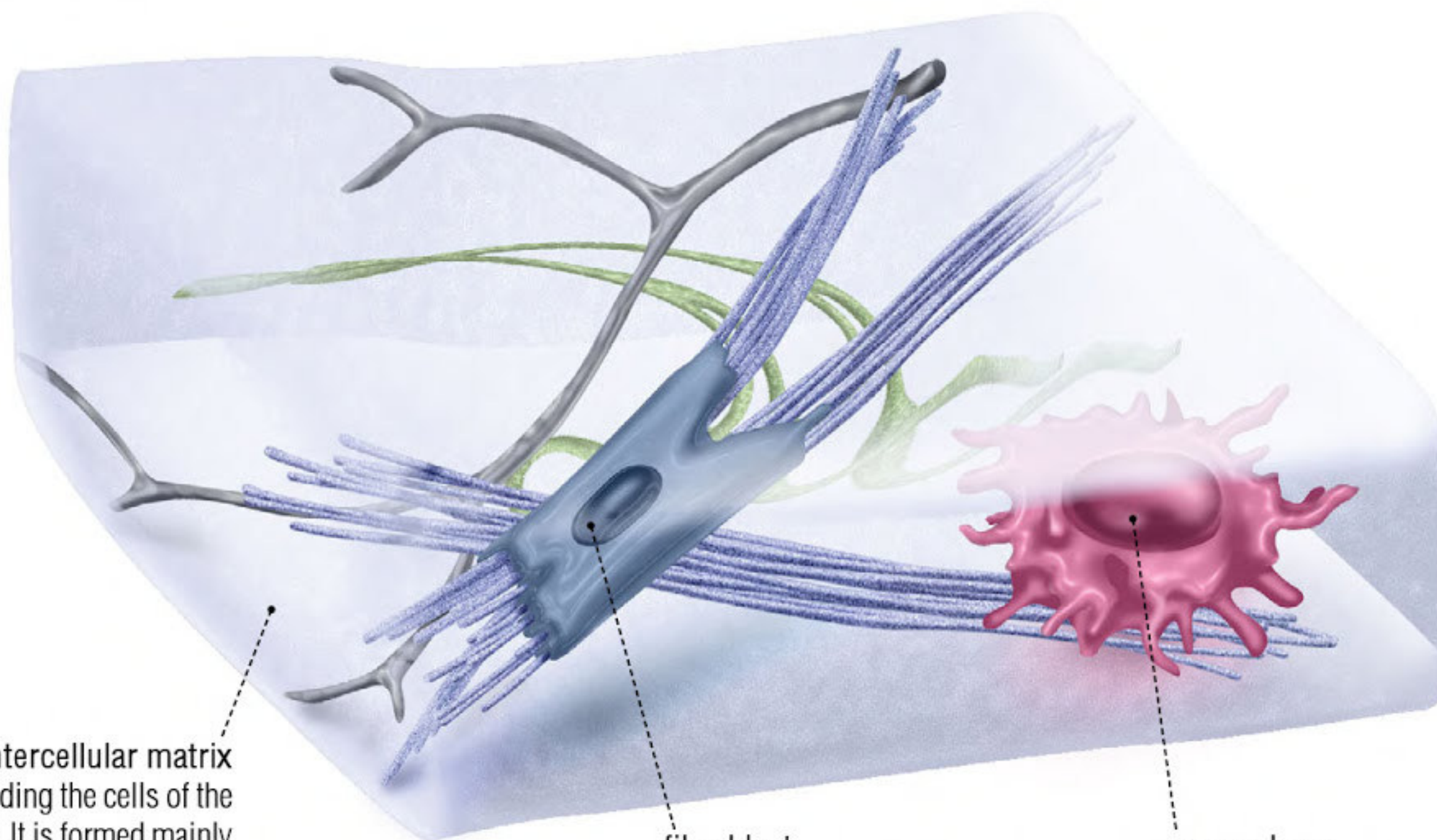


microvillus
Small cytoplasmic protuberance that increases the exchange surface of cells.

basement membrane
Membrane on which epithelial cells sit and that connects them with the underlying vascular tissues.

connective tissue

Tissue formed of cells floating in an abundant matrix. Cartilage, bone tissue, and most of the tissues that make up the organs are connective tissues.



intercellular matrix
Substance surrounding the cells of the connective tissue. It is formed mainly of liquid and fibers.

fibroblast
Cell that manufactures the fibers in connective tissue.

macrophage
Cell whose main function is to destroy undesirable elements (foreign bodies, debris, dead cells).

muscle tissue

Tissue forming muscles, which contracts in response to a nerve impulse sent by the central nervous system.

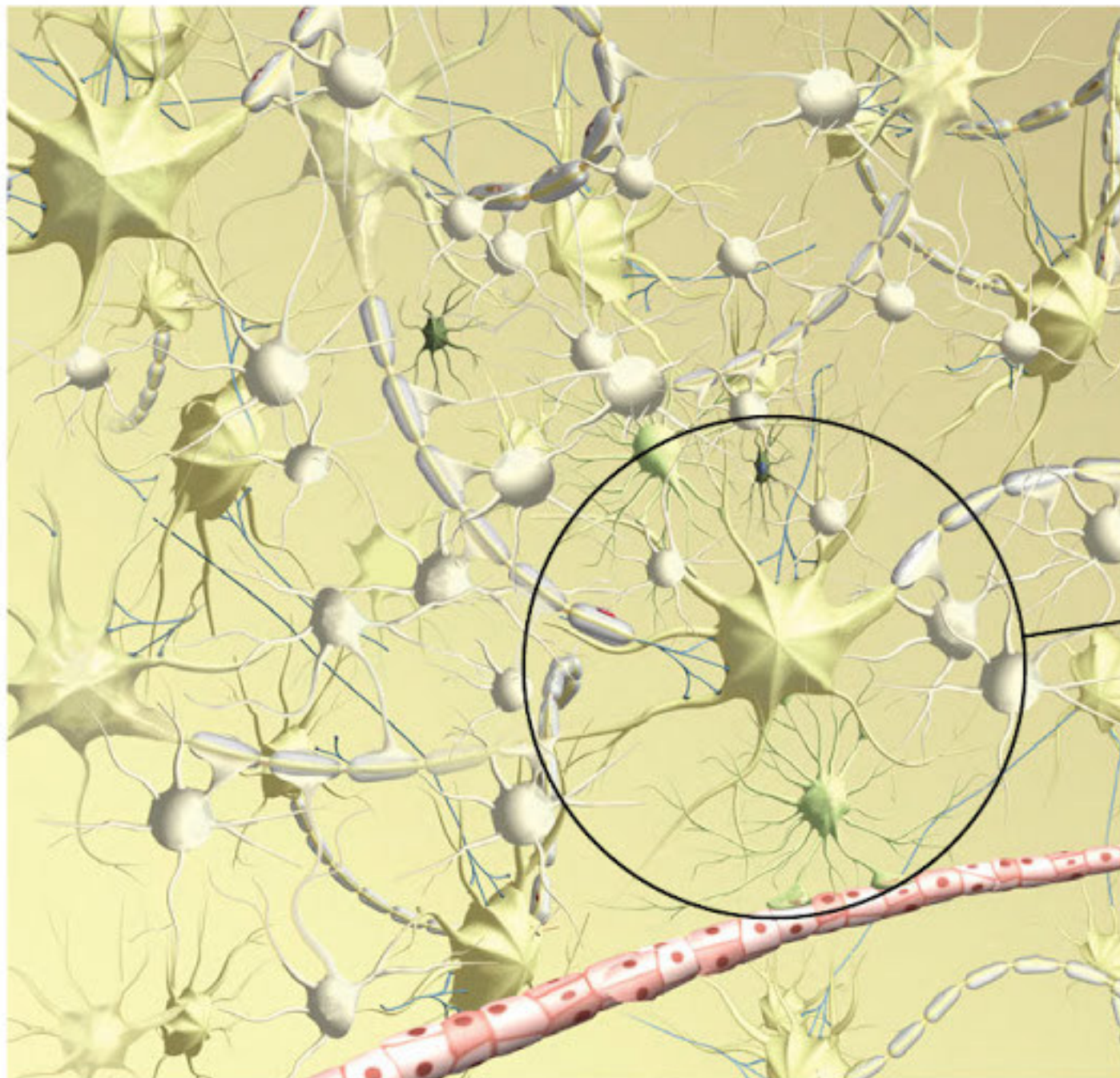


nerve tissue

Tissue specializing in transmission of nerve impulses. It is composed of neurons and glial cells, which protect and nourish the neurons.

neuron
Nerve cell that receives, carries, and transmits messages in the form of nerve impulses.

microglia
Very small glial cell that rids the nerve tissue of foreign bodies and dead cells.



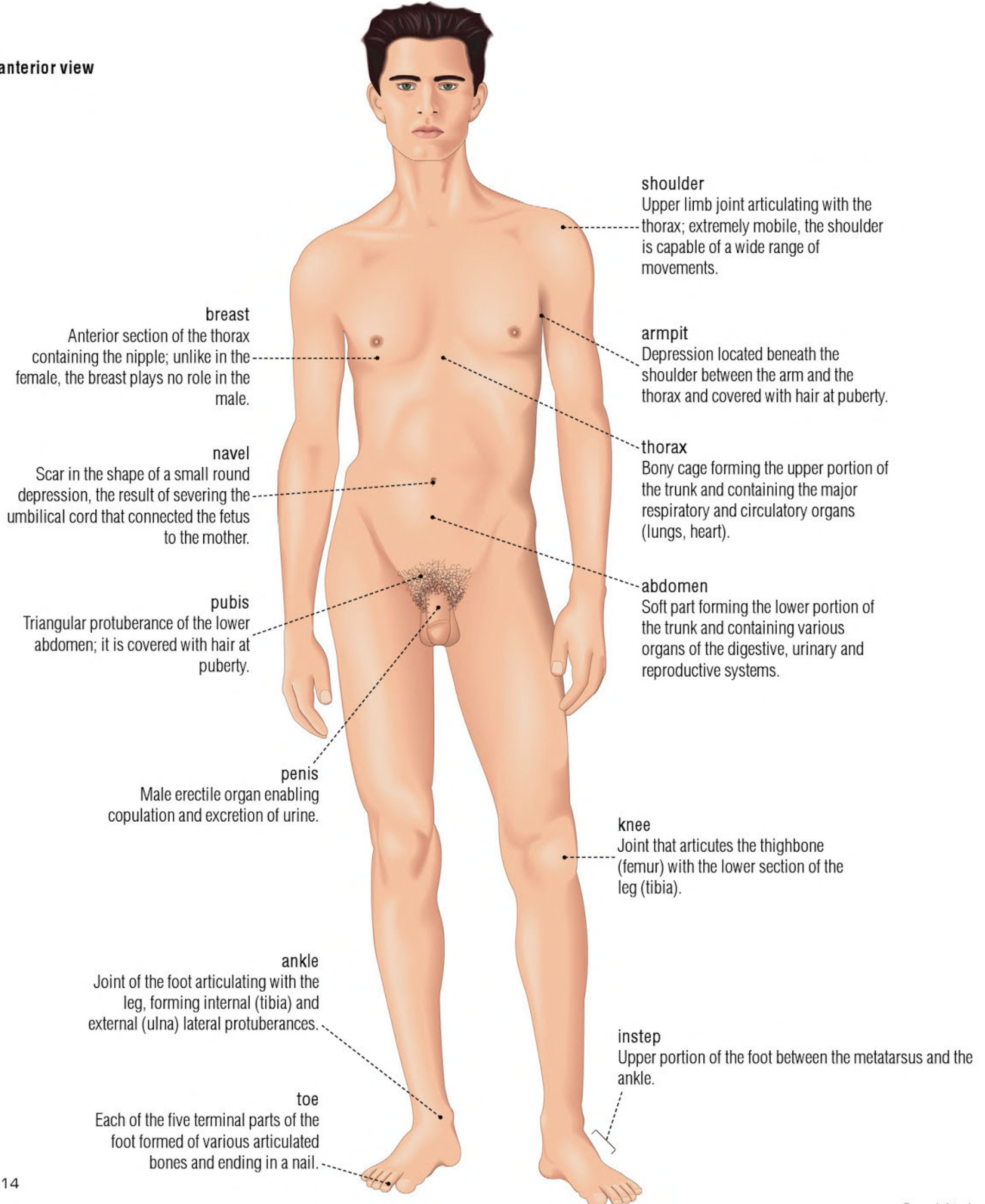
astrocyte
Glial cell whose numerous extensions terminate in feet that form barriers between neurons and blood capillaries.

oligodendrocyte
Glial cell that plays a role in formation of the myelin sheath of the neurons in the central nervous system.

man

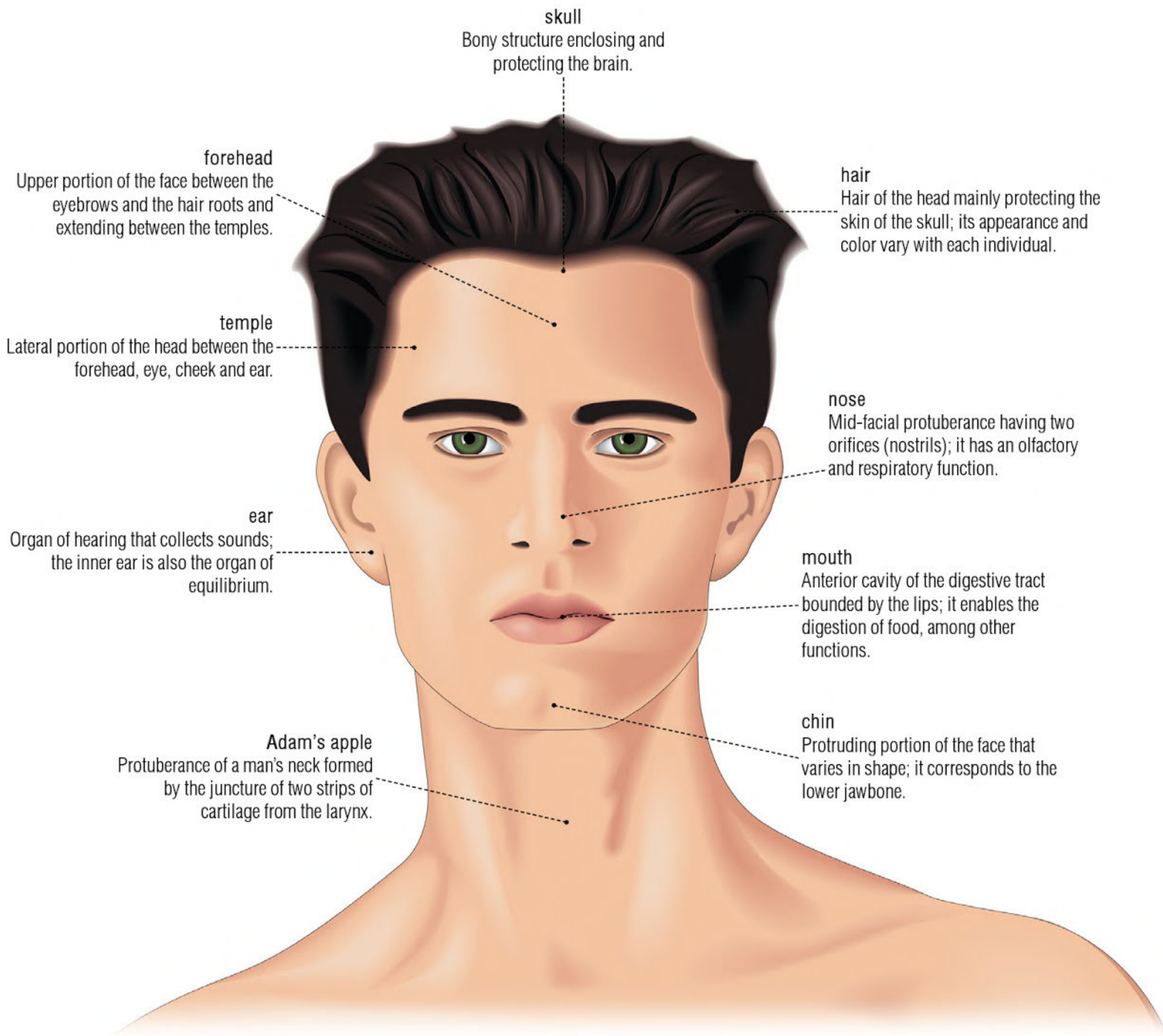
Male human being producing cells able to fertilize the ovum (egg); the male's skeleton is generally larger and heavier than that of the female.

anterior view

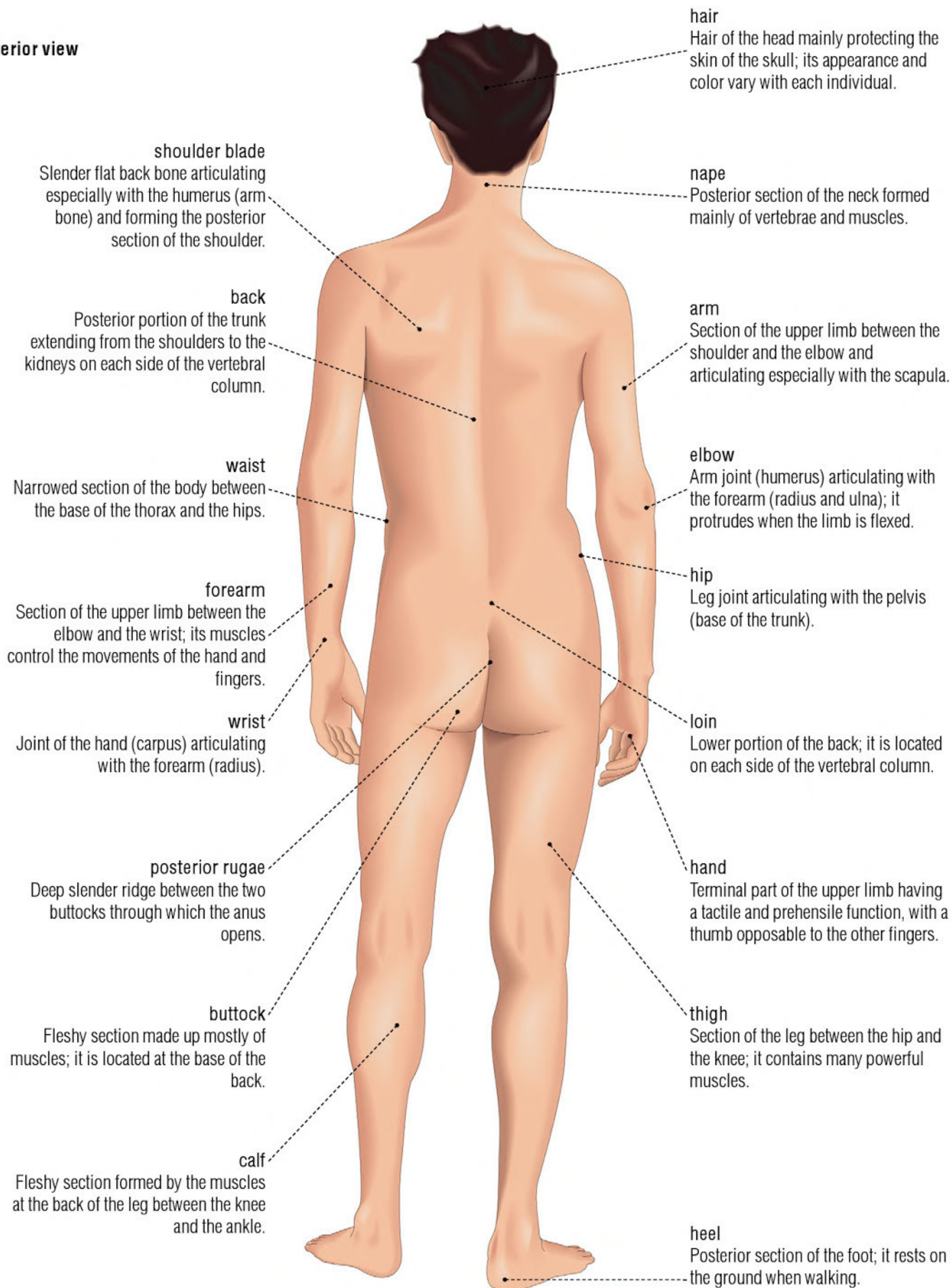


face

Front portion of the head bounded by the hair, ears and chin.



posterior view





head

Upper portion of the body supported by the neck and made up essentially of the main sensory organs and the brain.

neck

Portion of the body connecting the head to the trunk; the respiratory tract, nerve centers and blood vessels, in particular, pass through it.

trunk

Portion of the body to which the head and limbs are attached; it is made up of the thorax, abdomen and pelvis.

leg

Lower limb attached to the trunk; it supports the body in an upright position and during locomotion.

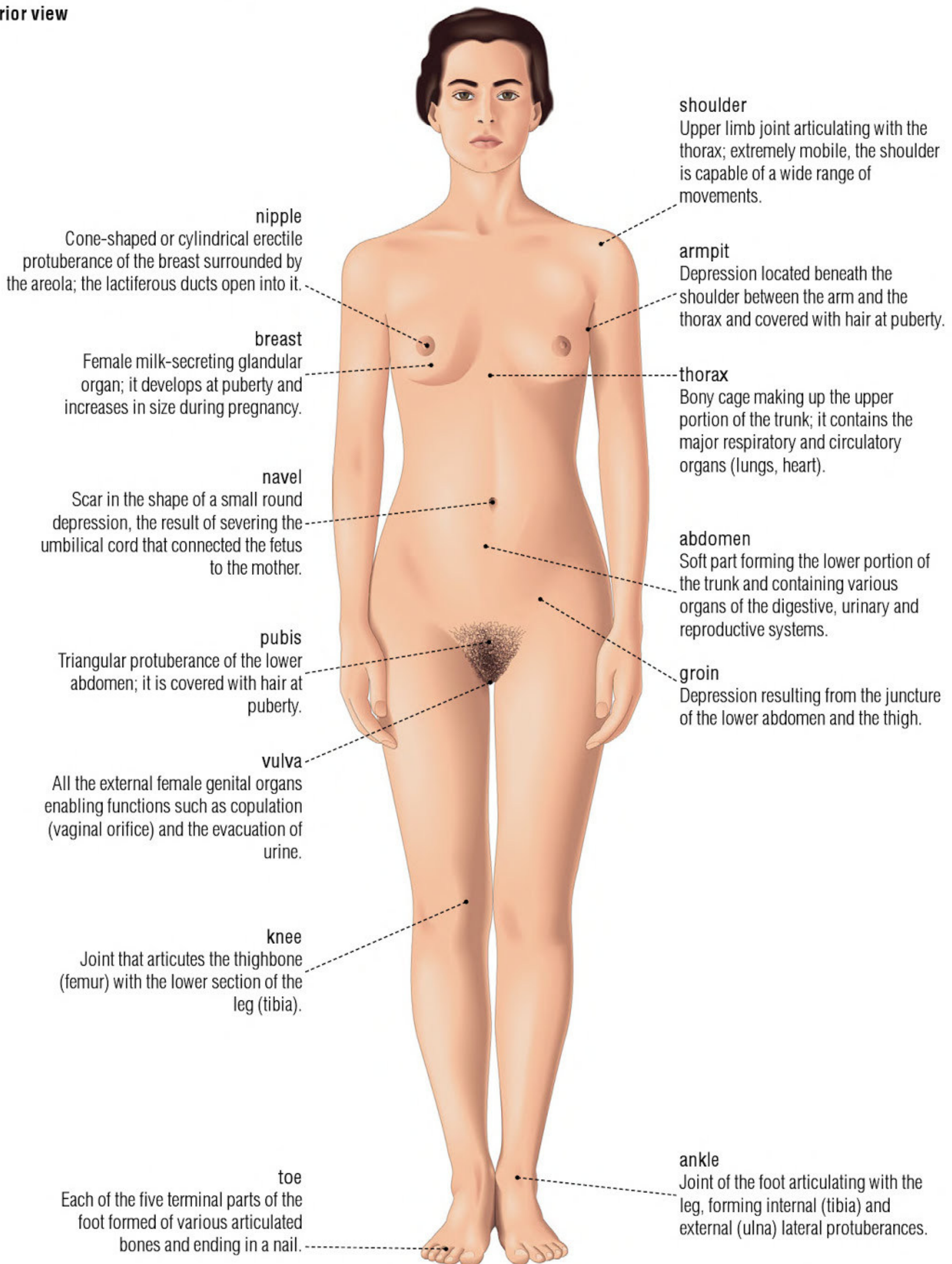
foot

Terminal part of the lower limb enabling upright stance and walking.

woman

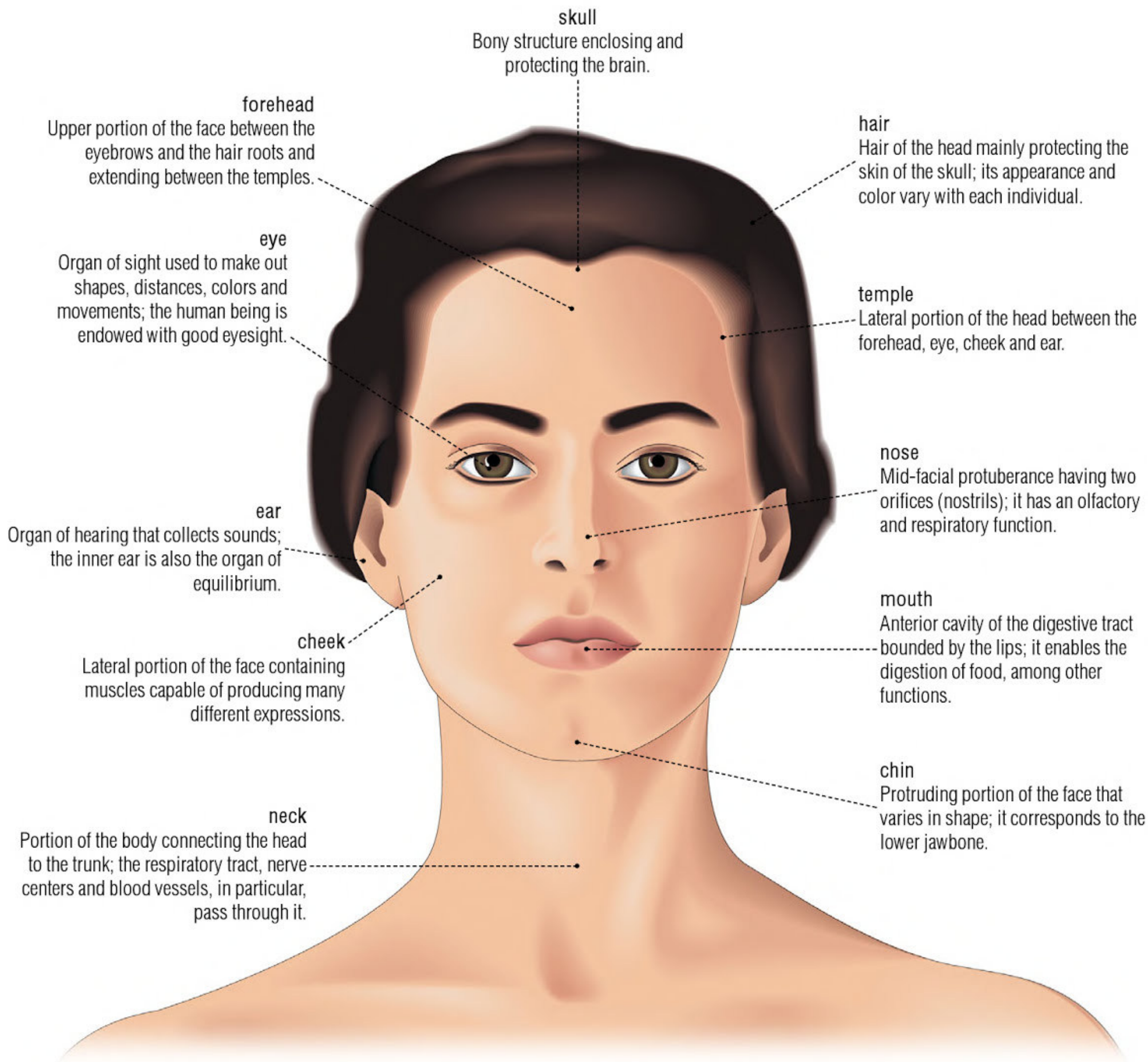
Human being of the female sex capable of conceiving children from an ovum (egg) fertilized by a spermatozoon (sperm, the reproductive male cell).

anterior view

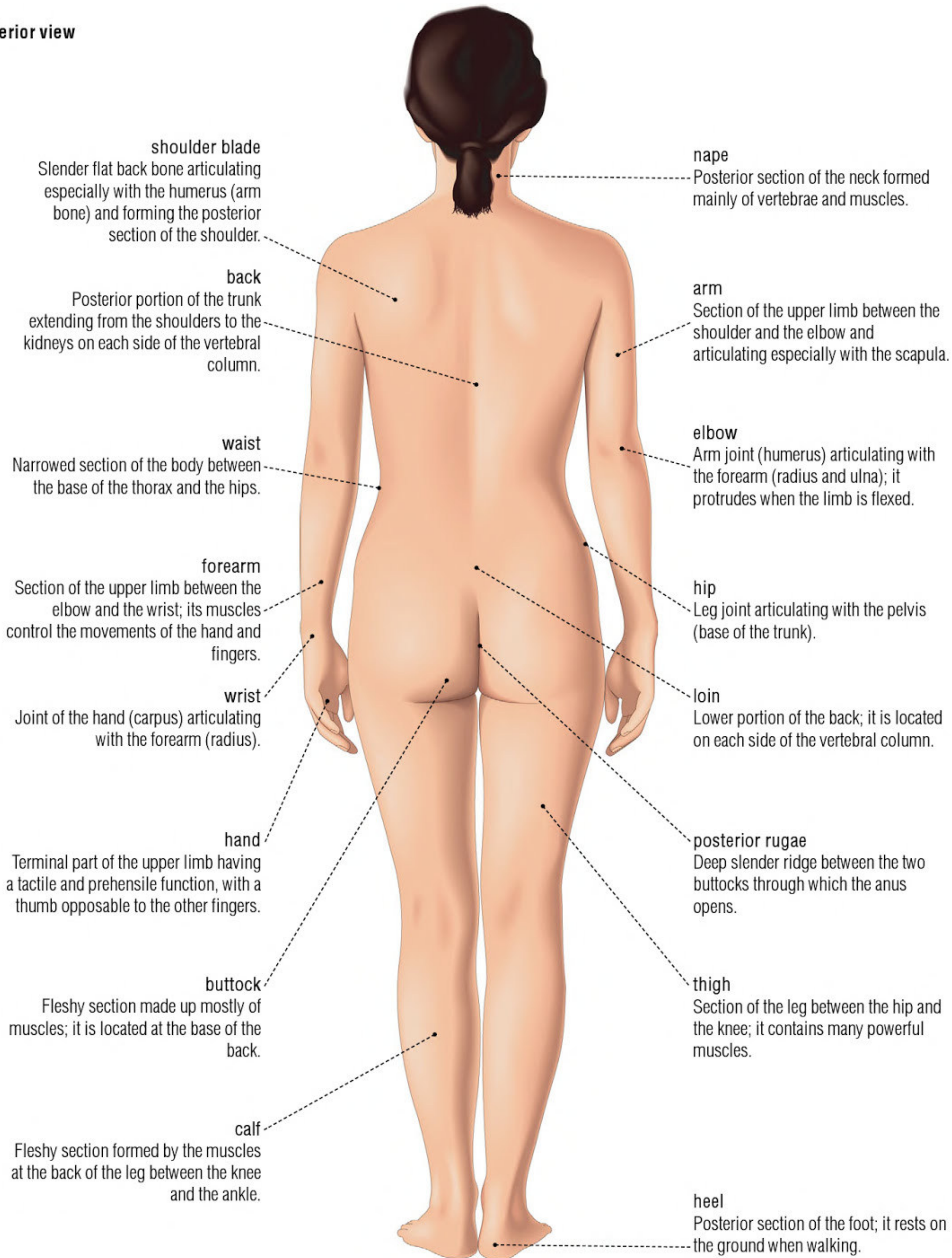


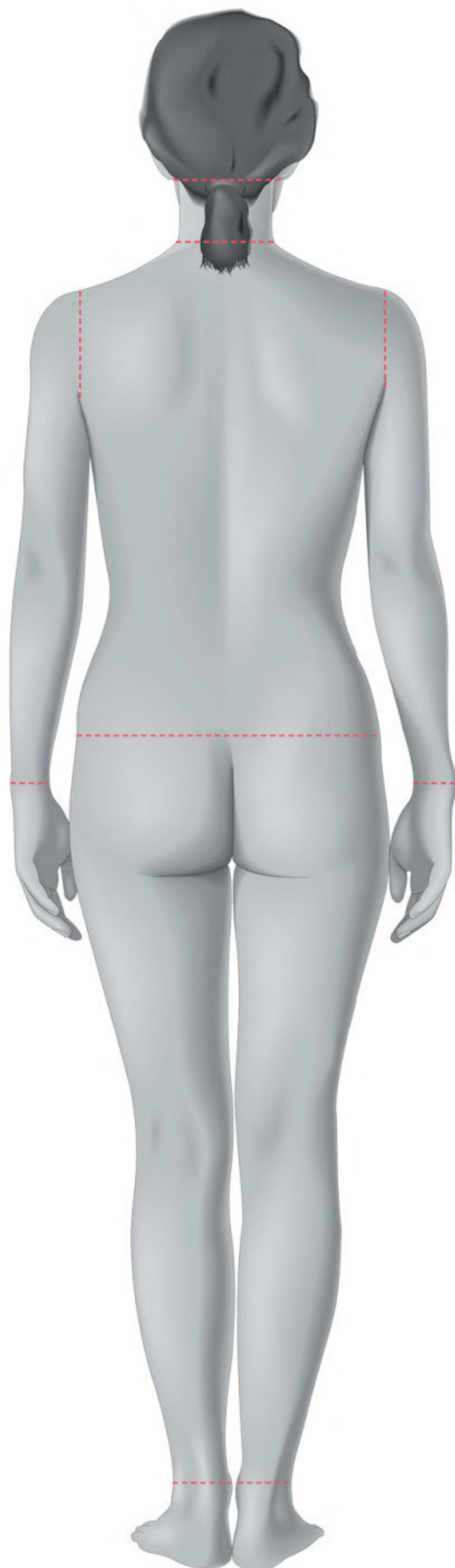
face

Front portion of the head bounded by the hair, ears and chin.



posterior view





head
Upper portion of the body supported by the neck and made up essentially of the main sensory organs and the brain.

neck
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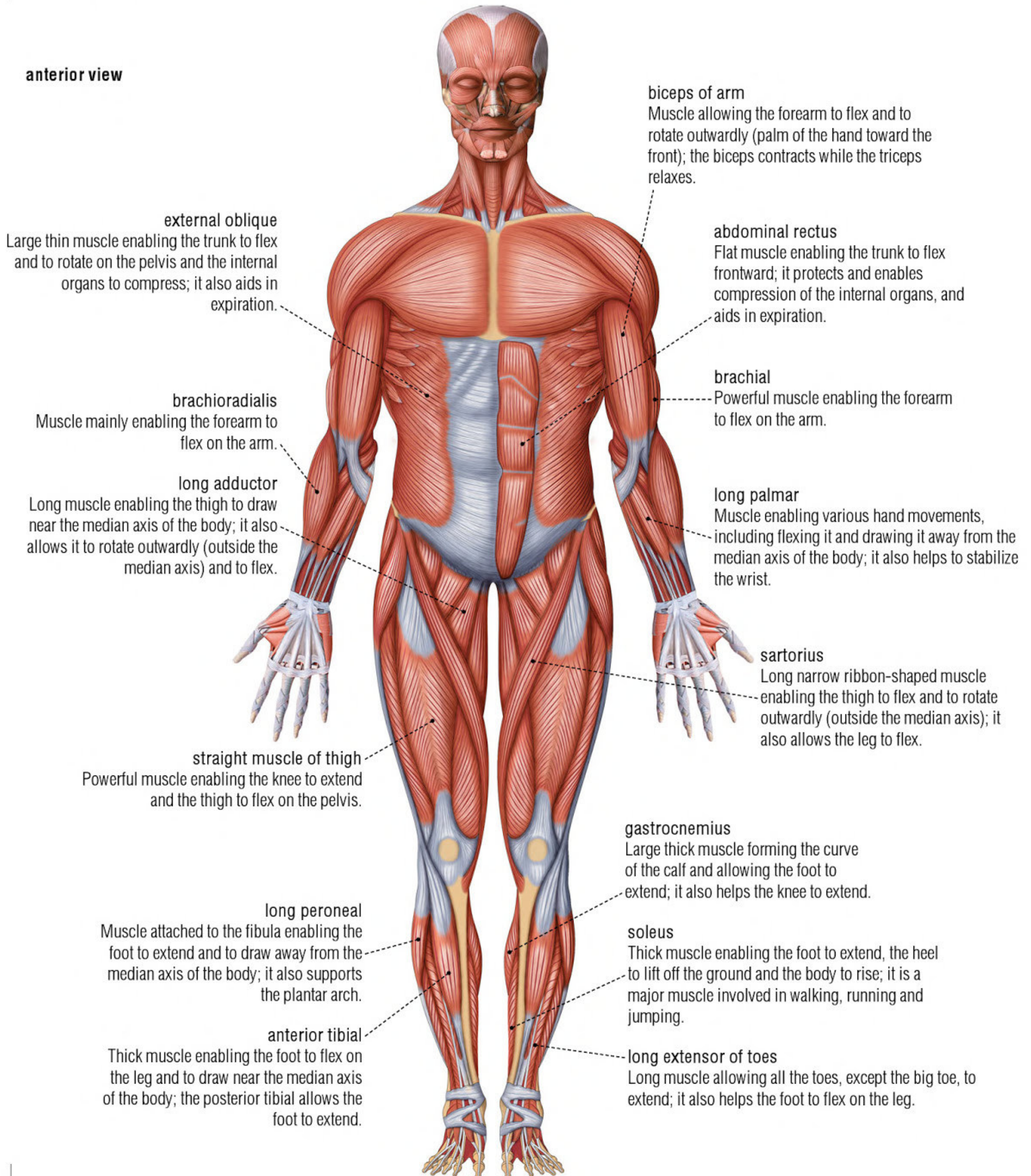
leg
Lower limb attached to the trunk; it supports the body in an upright position and during locomotion.

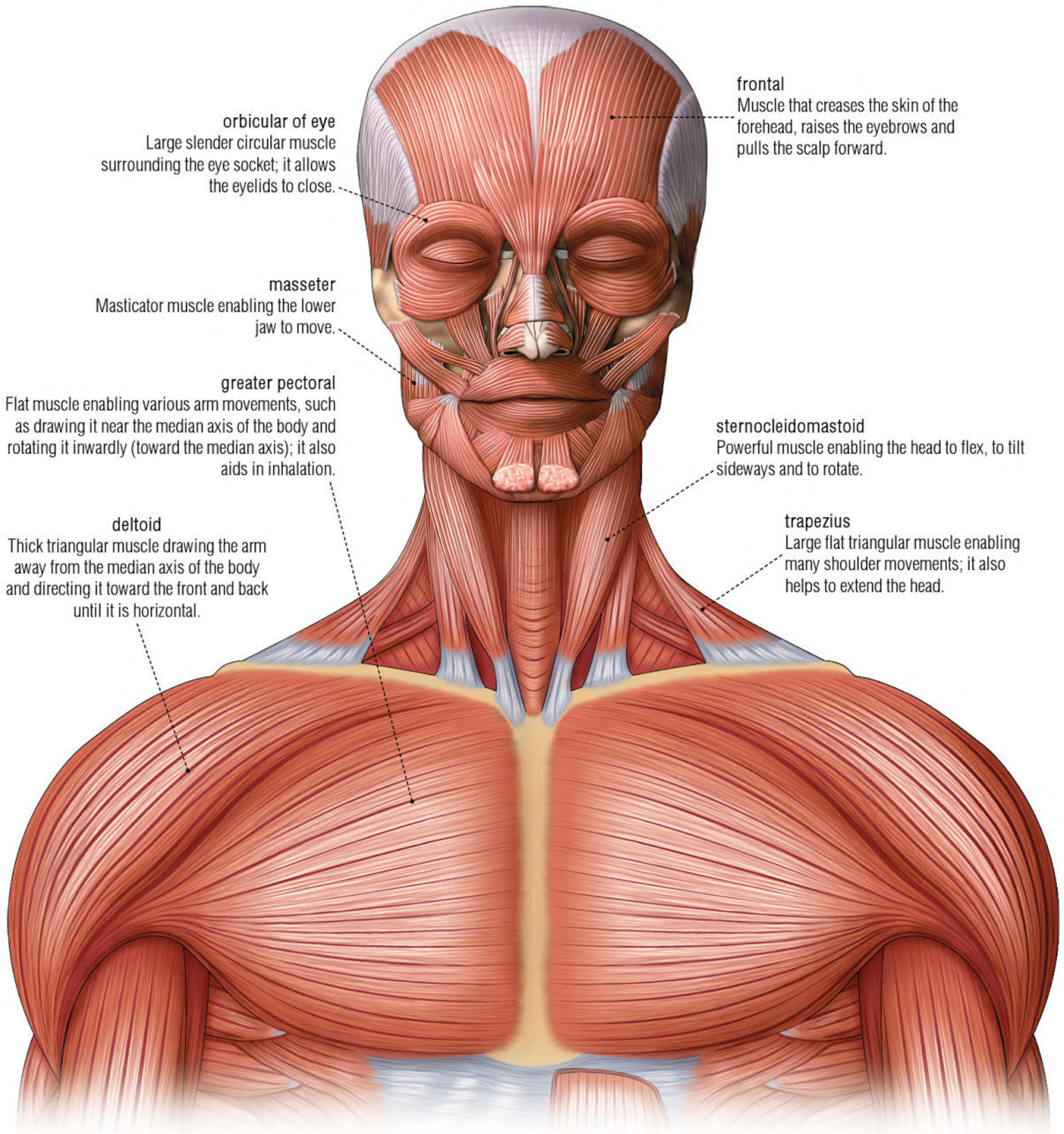
foot
Terminal part of the lower limb enabling upright stance and walking.

muscles

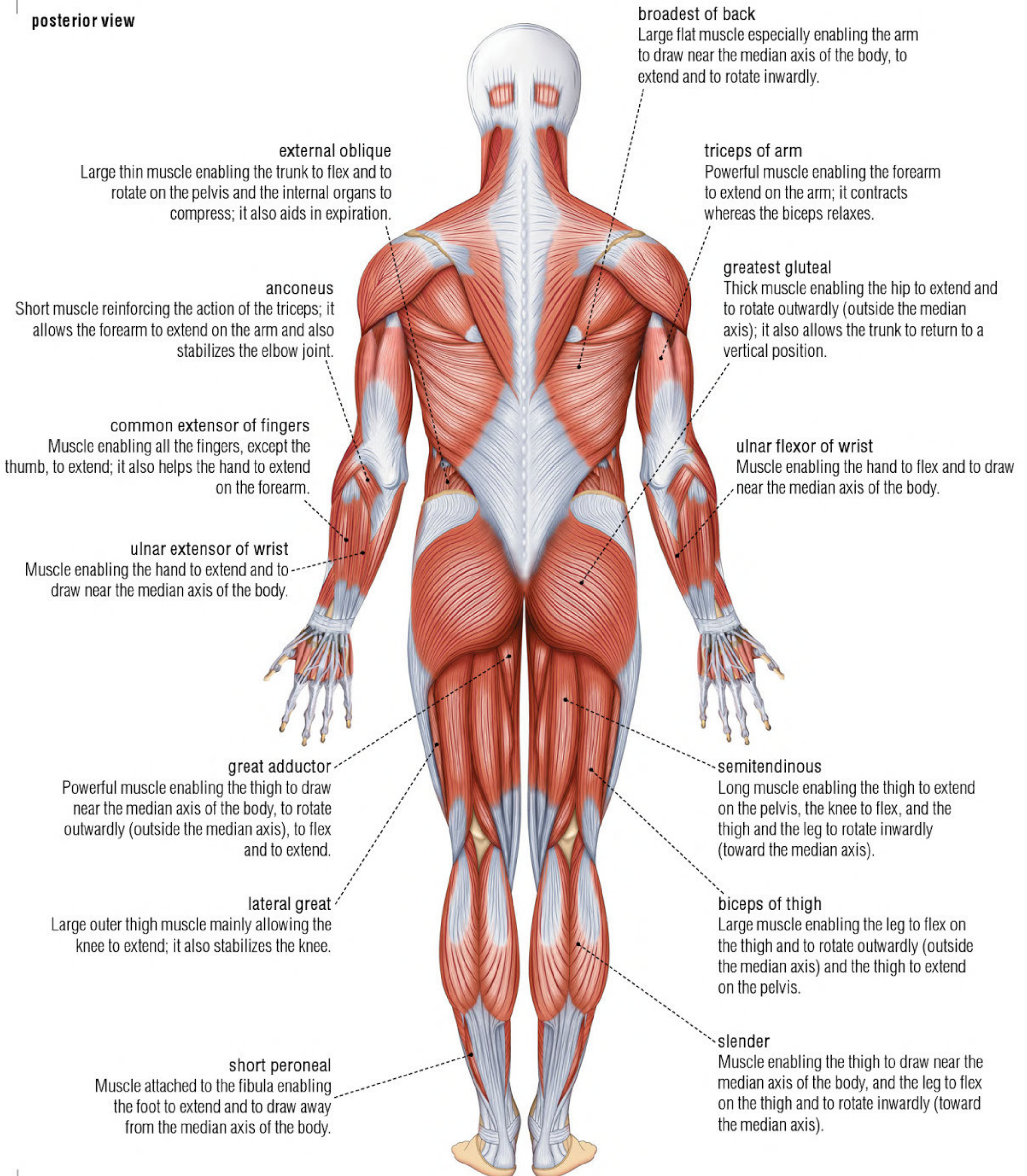
Contractile organs made of fibers allowing the body to move and maintain its posture; the human body has over 600 muscles.

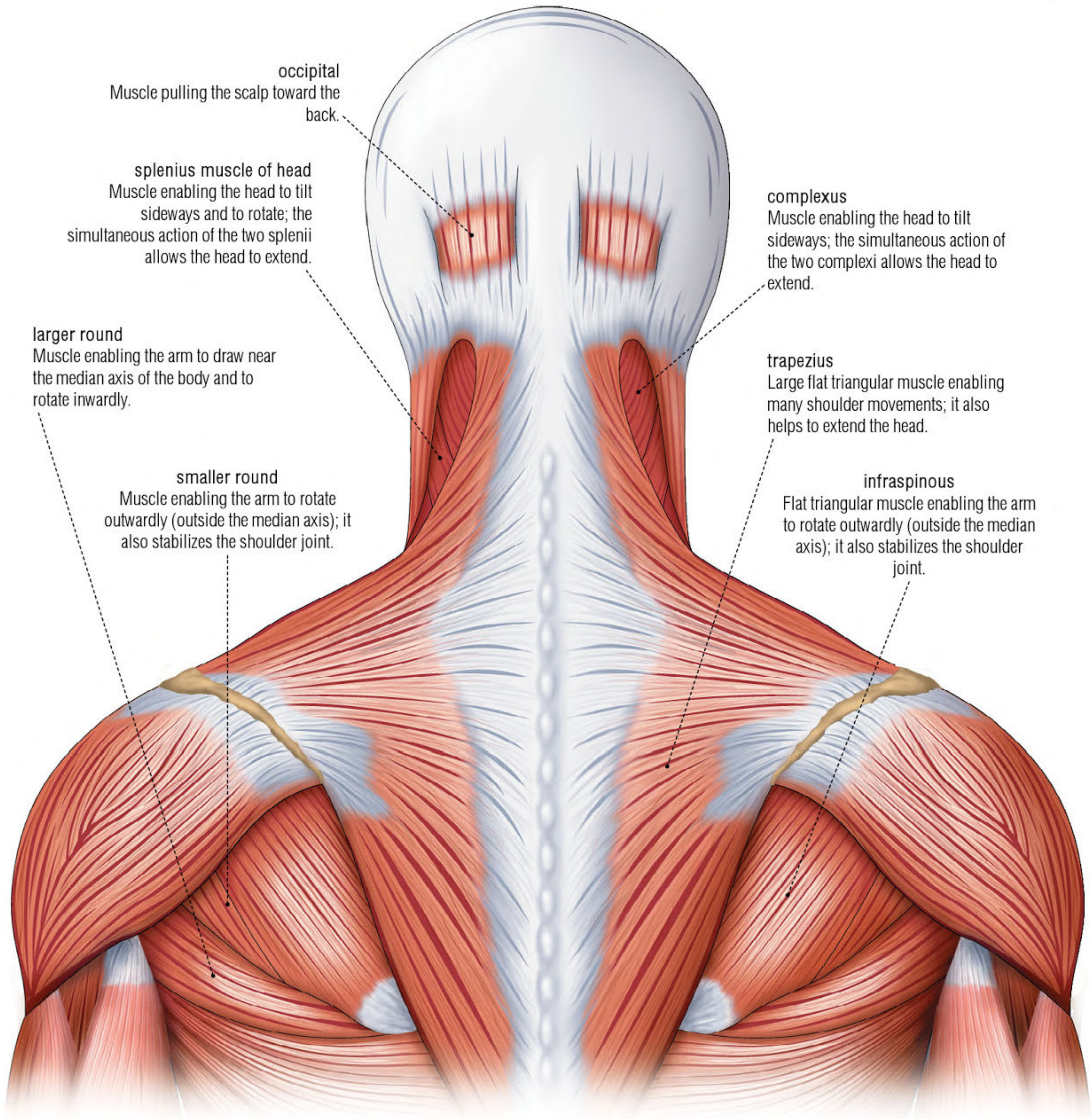
anterior view





posterior view





muscles of head: lateral view

epicranial aponeurosis
Fibrous membrane covering the top of the skull, which links the frontal and occipital lobes.

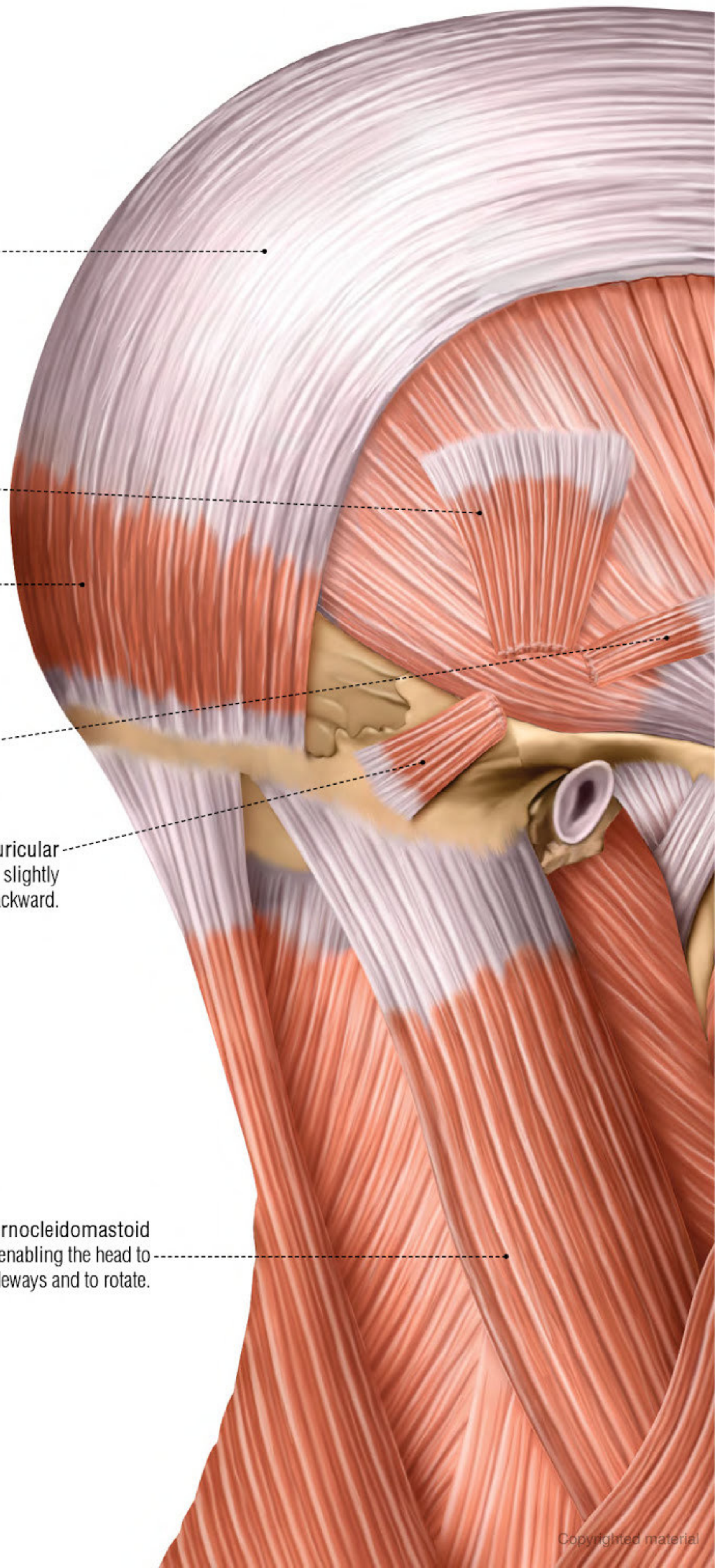
superior auricular
Muscle that pulls the ear slightly upward.

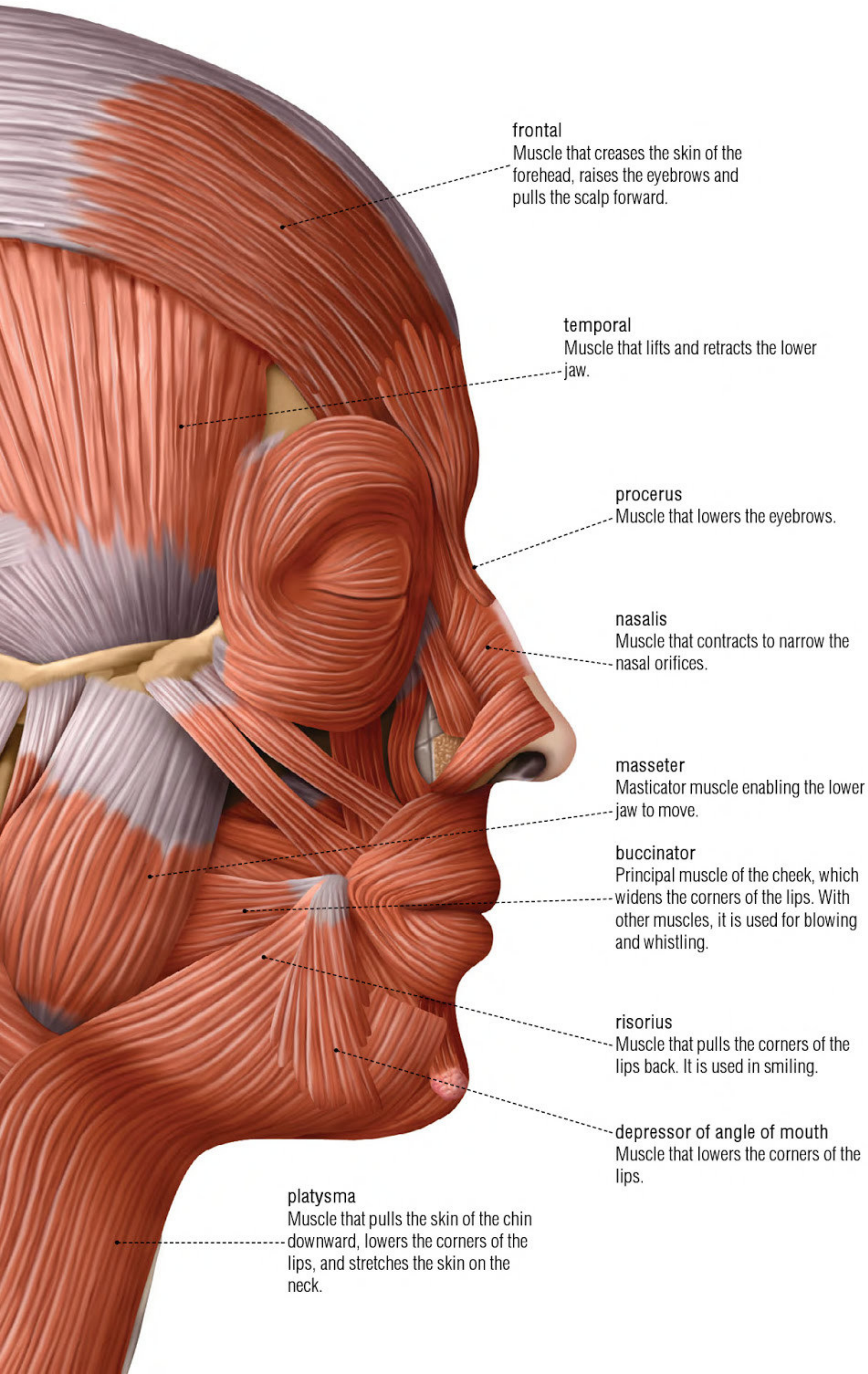
occipital
Muscle pulling the scalp toward the back.

anterior auricular
Muscle that pulls the ear slightly upward and forward.

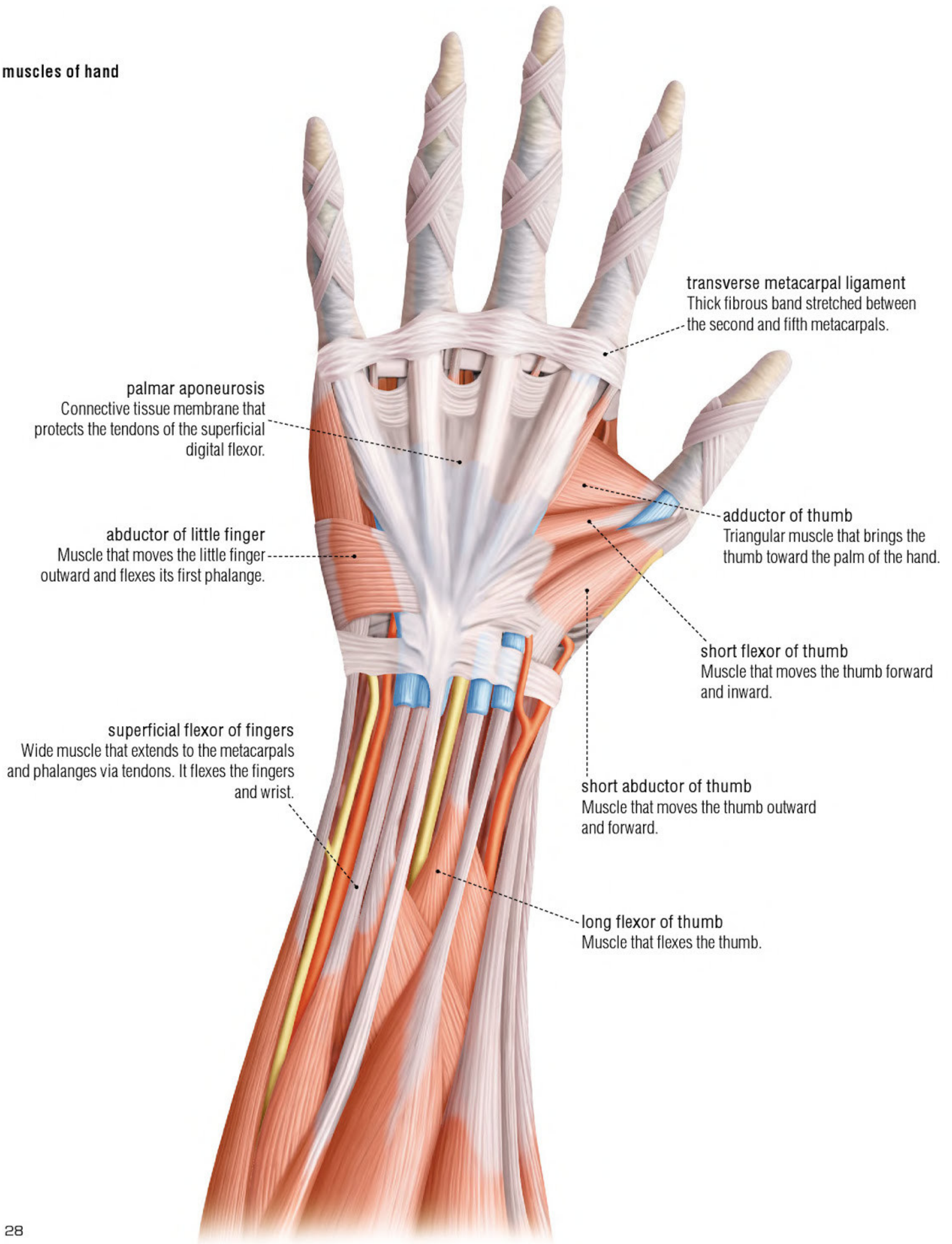
posterior auricular
Muscle that pulls the ear slightly backward.

sternocleidomastoid
Powerful muscle enabling the head to flex, to tilt sideways and to rotate.





muscles of hand



parts of a striated muscle

origin

Point where a striated muscle is attached to a bone that is not set in motion by muscle contraction.

belly

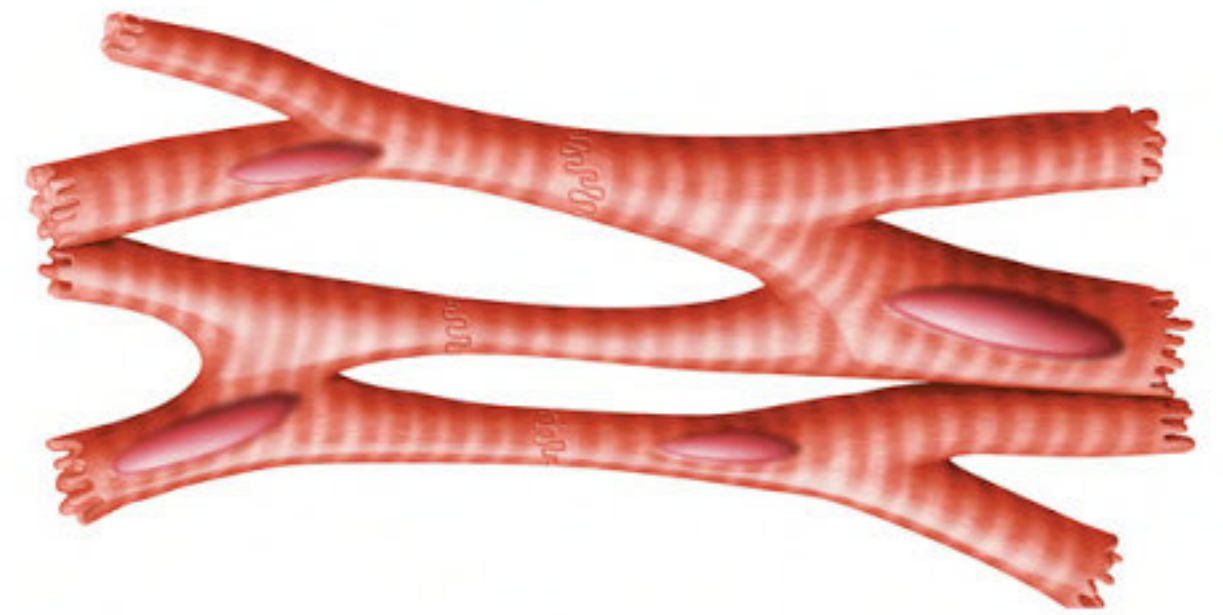
Central part of the muscle between the origin and the insertion. A muscle may have one or several bellies.

tendon

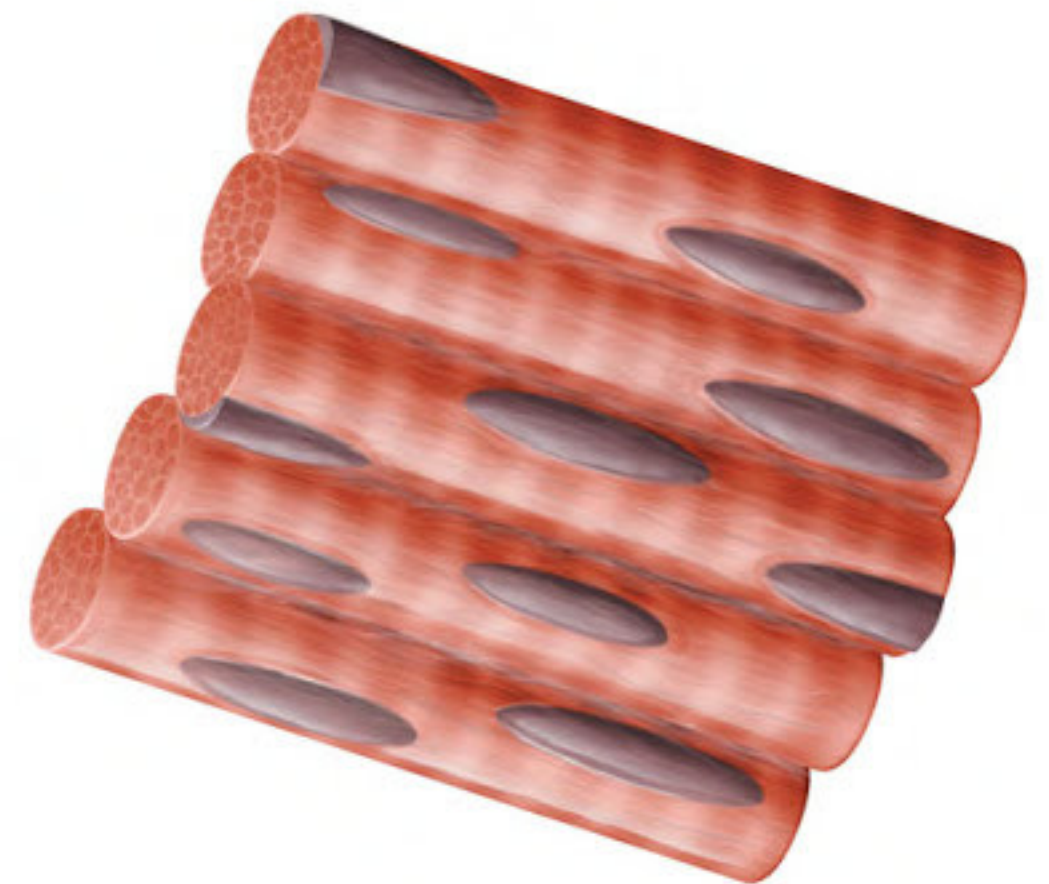
Fibrous tissue connecting the muscle to the bone.

insertion

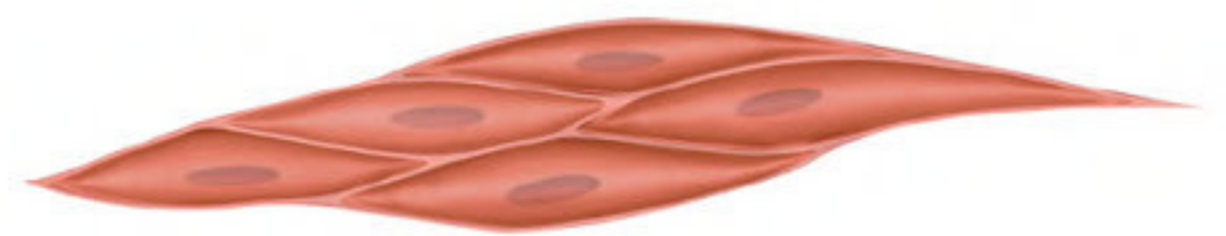
Point where a striated muscle is attached to a bone that is set in motion by muscle contraction.

**cardiac muscle**

Muscle formed of branching strands of muscle fibers with one or two nuclei. Cardiac muscles control the heartbeat.

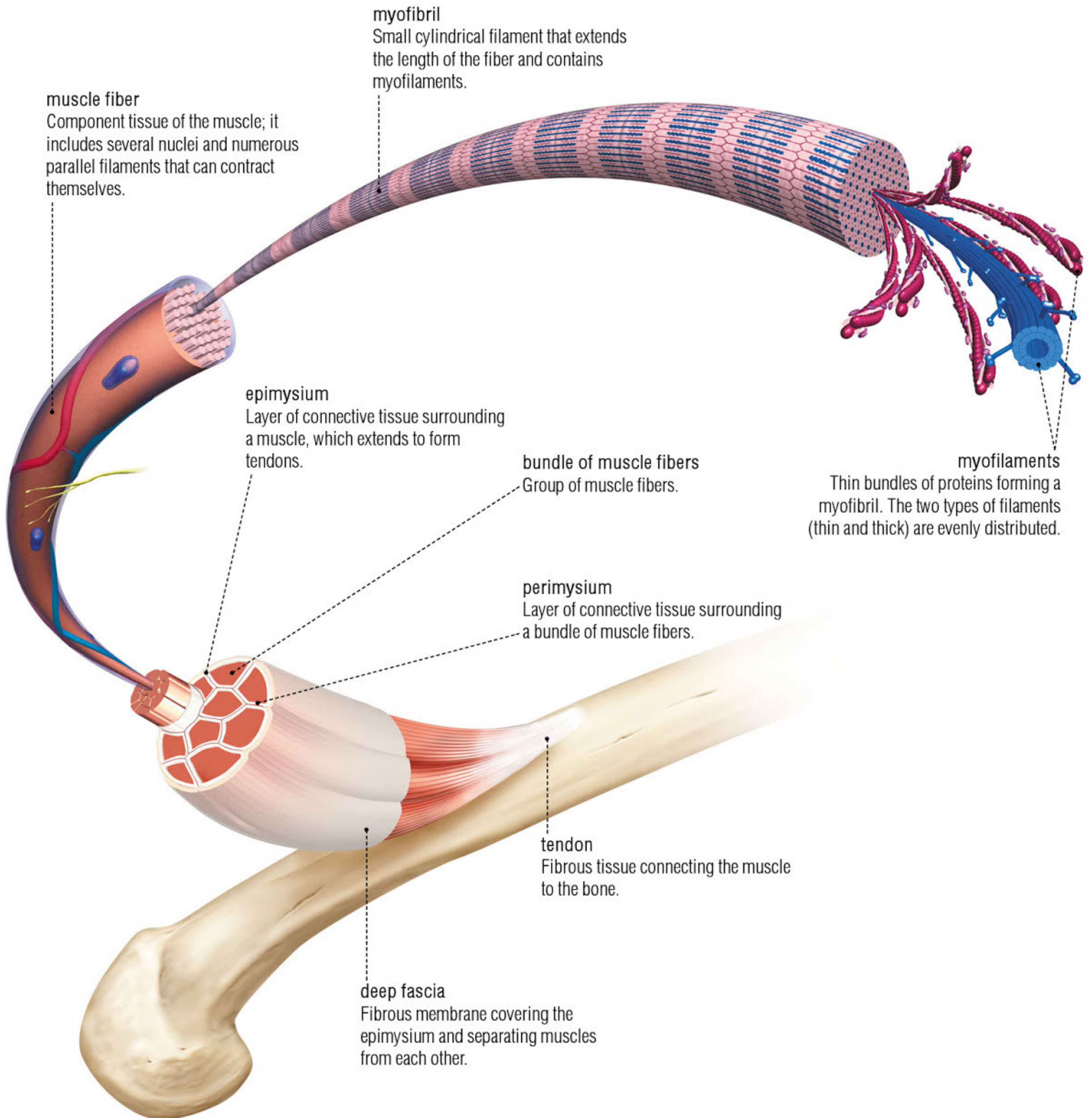
**striated muscle**

Muscle composed of muscle fibers with multiple nuclei grouped in dense bundles. Striated muscles control the skeleton's voluntary movements.

**smooth muscle**

Muscle composed of small muscle fibers with a single nucleus. Smooth muscles control the involuntary movements of internal organs.

structure of a striated muscle



muscle fiber
Component tissue of the muscle; it includes several nuclei and numerous parallel filaments that can contract themselves.

myofibril
Small cylindrical filament that extends the length of the fiber and contains myofilaments.

epimysium
Layer of connective tissue surrounding a muscle, which extends to form tendons.

bundle of muscle fibers
Group of muscle fibers.

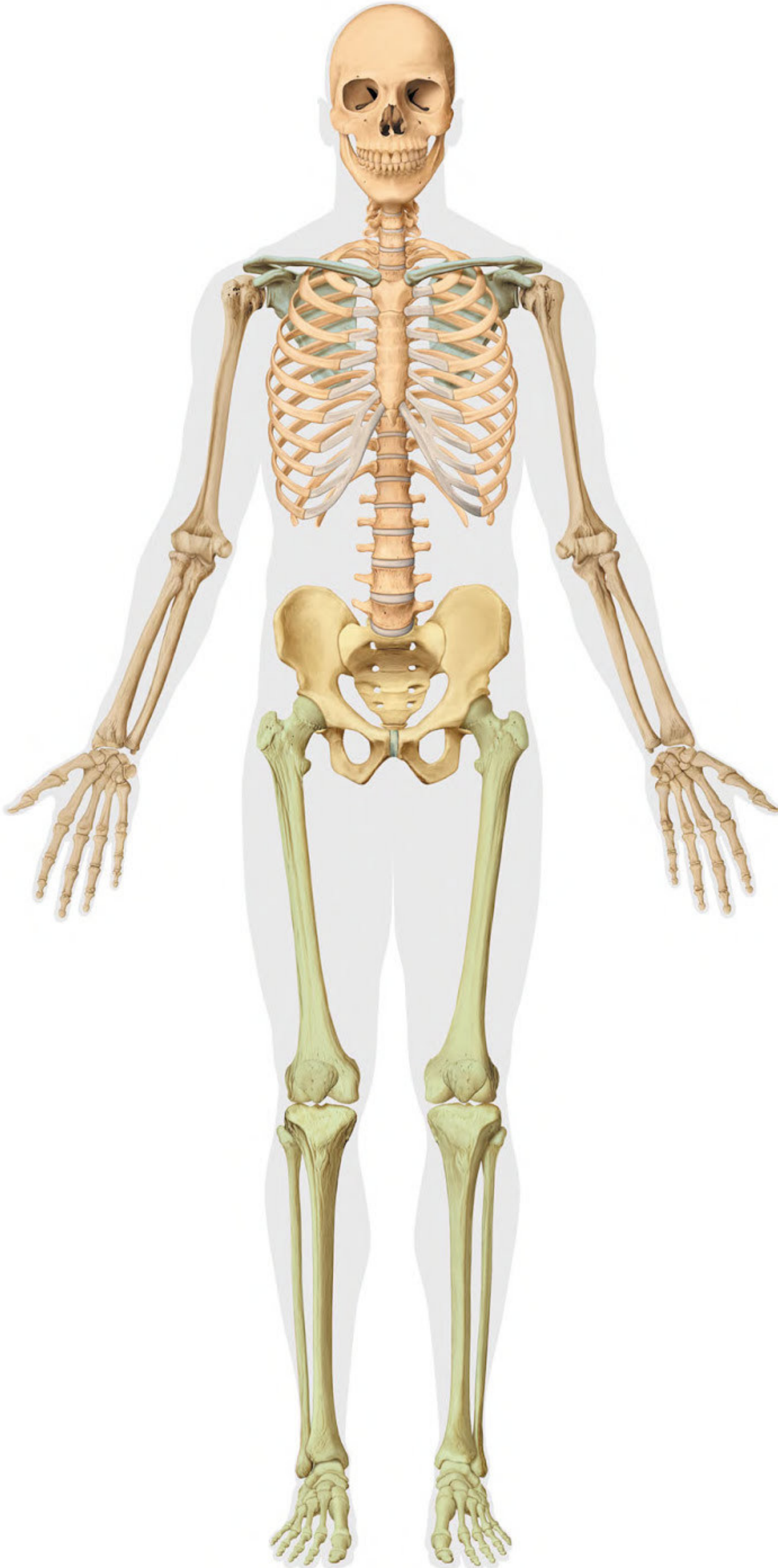
perimysium
Layer of connective tissue surrounding a bundle of muscle fibers.

tendon
Fibrous tissue connecting the muscle to the bone.

deep fascia
Fibrous membrane covering the epimysium and separating muscles from each other.

myofilaments
Thin bundles of proteins forming a myofibril. The two types of filaments (thin and thick) are evenly distributed.

All the articulated bones (about 200), of varying sizes and shapes, forming the frame of the body, supporting the muscles and protecting the vital organs.



axial skeleton
The group of bones that support the body and protect the vital organs.

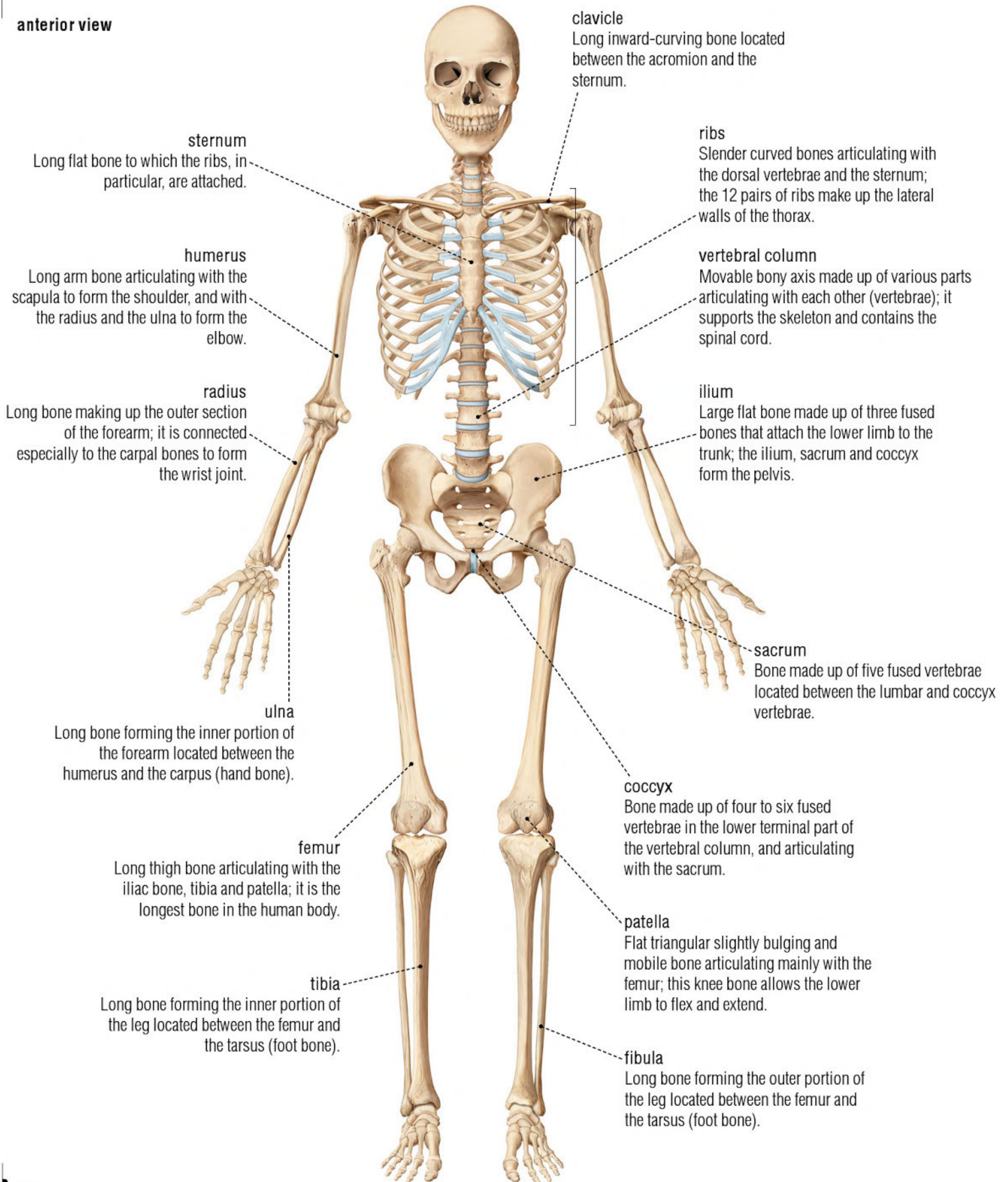
upper limbs
The group of bones forming the shoulders, upper arms, forearms, and hands, and which are involved, among other things, in prehension.

shoulder girdle
Group of bones linking the upper limbs to the axial skeleton.

pelvis
Group of bones linking the lower limbs to the axial skeleton.

lower limbs
Group of bones forming the thighs, lower legs, and feet, and which make it possible to walk.

anterior view



clavicle
Long inward-curving bone located between the acromion and the sternum.

sternum
Long flat bone to which the ribs, in particular, are attached.

ribs
Slender curved bones articulating with the dorsal vertebrae and the sternum; the 12 pairs of ribs make up the lateral walls of the thorax.

humerus
Long arm bone articulating with the scapula to form the shoulder, and with the radius and the ulna to form the elbow.

vertebral column
Movable bony axis made up of various parts articulating with each other (vertebrae); it supports the skeleton and contains the spinal cord.

radius
Long bone making up the outer section of the forearm; it is connected especially to the carpal bones to form the wrist joint.

ilium
Large flat bone made up of three fused bones that attach the lower limb to the trunk; the ilium, sacrum and coccyx form the pelvis.

ulna
Long bone forming the inner portion of the forearm located between the humerus and the carpus (hand bone).

sacrum
Bone made up of five fused vertebrae located between the lumbar and coccyx vertebrae.

femur
Long thigh bone articulating with the iliac bone, tibia and patella; it is the longest bone in the human body.

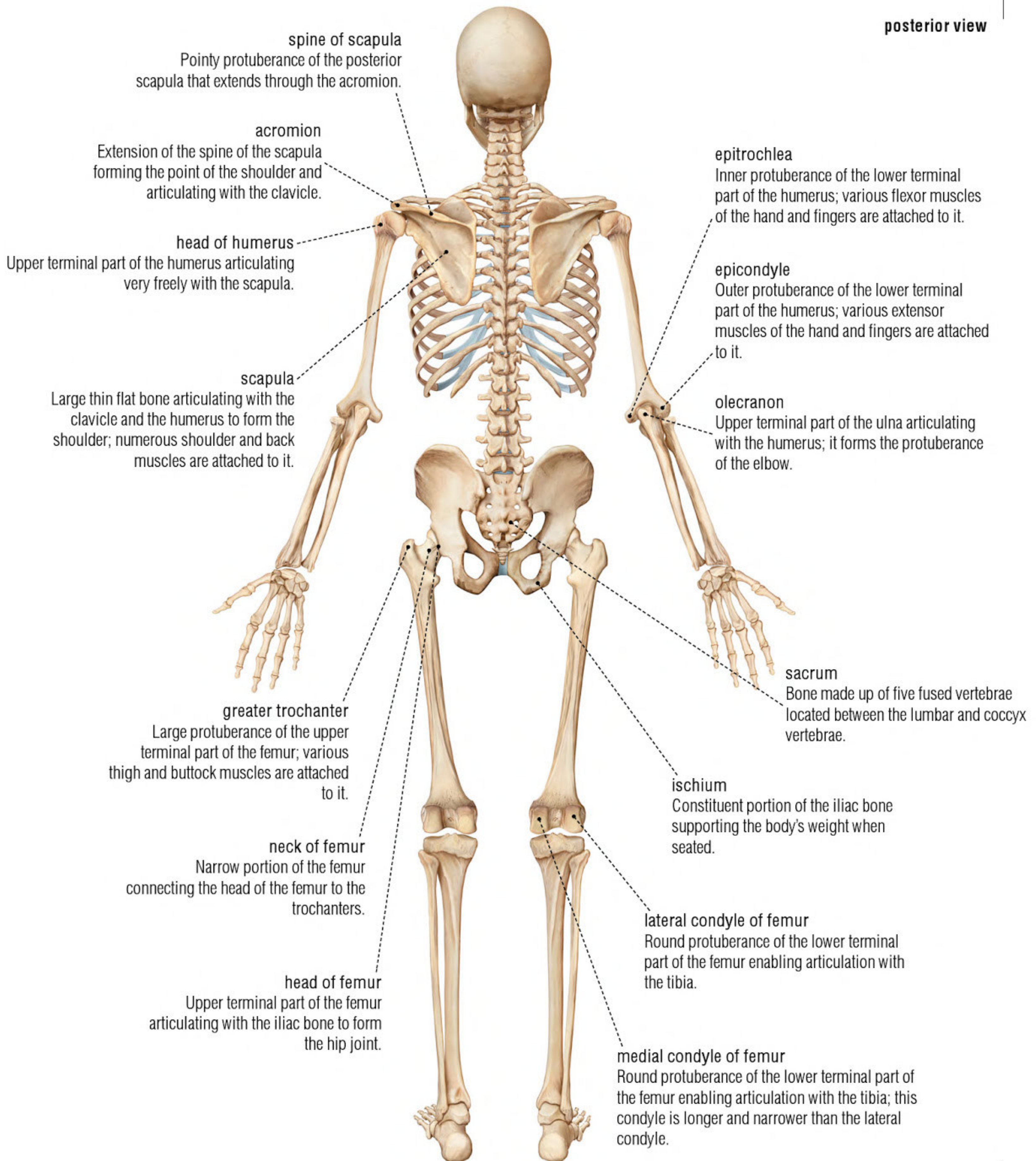
coccyx
Bone made up of four to six fused vertebrae in the lower terminal part of the vertebral column, and articulating with the sacrum.

tibia
Long bone forming the inner portion of the leg located between the femur and the tarsus (foot bone).

patella
Flat triangular slightly bulging and mobile bone articulating mainly with the femur; this knee bone allows the lower limb to flex and extend.

fibula
Long bone forming the outer portion of the leg located between the femur and the tarsus (foot bone).

posterior view



spine of scapula
Pointy protuberance of the posterior scapula that extends through the acromion.

acromion
Extension of the spine of the scapula forming the point of the shoulder and articulating with the clavicle.

head of humerus
Upper terminal part of the humerus articulating very freely with the scapula.

scapula
Large thin flat bone articulating with the clavicle and the humerus to form the shoulder; numerous shoulder and back muscles are attached to it.

greater trochanter
Large protuberance of the upper terminal part of the femur; various thigh and buttock muscles are attached to it.

neck of femur
Narrow portion of the femur connecting the head of the femur to the trochanters.

head of femur
Upper terminal part of the femur articulating with the iliac bone to form the hip joint.

epitrochlea
Inner protuberance of the lower terminal part of the humerus; various flexor muscles of the hand and fingers are attached to it.

epicondyle
Outer protuberance of the lower terminal part of the humerus; various extensor muscles of the hand and fingers are attached to it.

olecranon
Upper terminal part of the ulna articulating with the humerus; it forms the protuberance of the elbow.

sacrum
Bone made up of five fused vertebrae located between the lumbar and coccyx vertebrae.

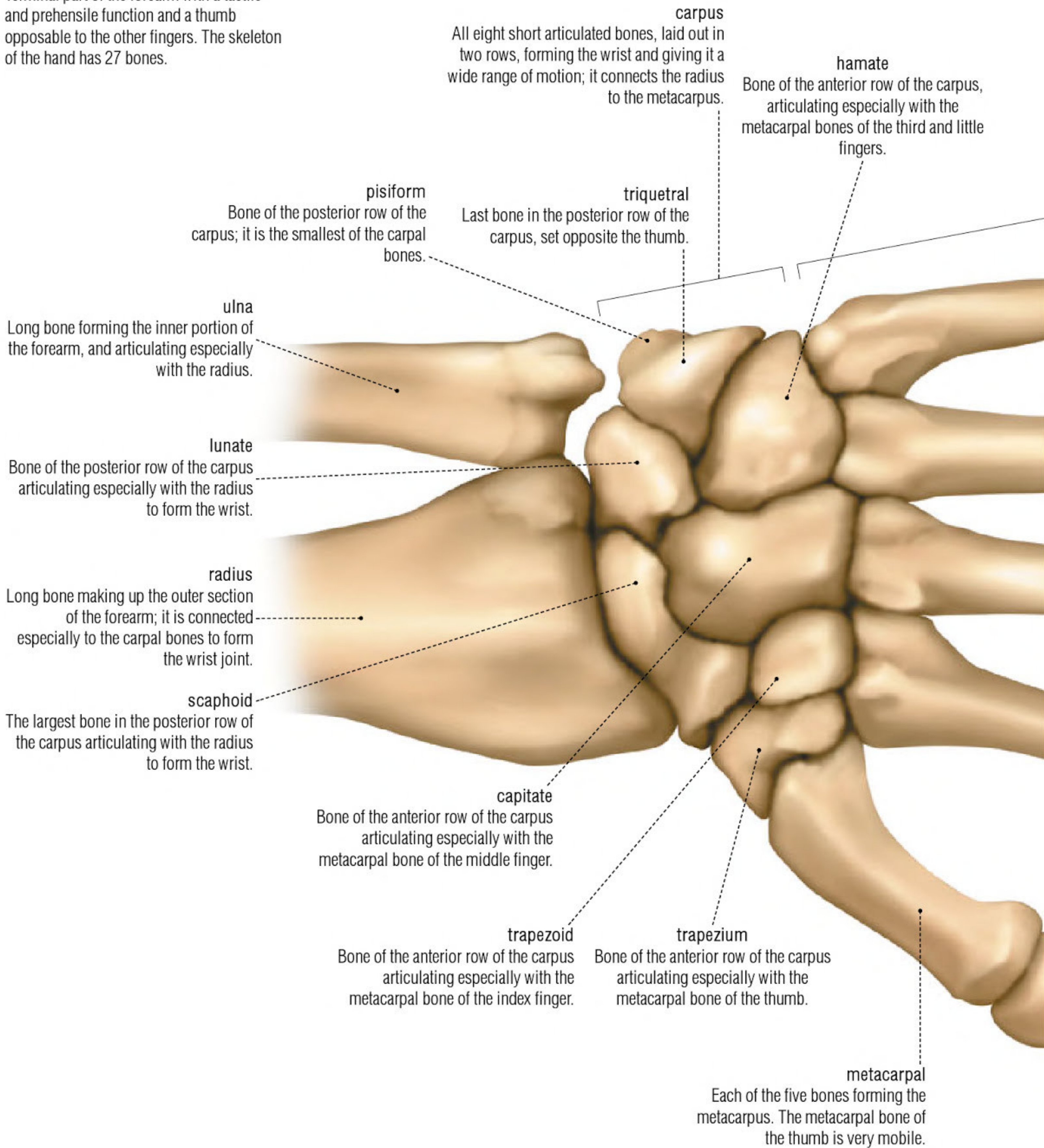
ischium
Constituent portion of the iliac bone supporting the body's weight when seated.

lateral condyle of femur
Round protuberance of the lower terminal part of the femur enabling articulation with the tibia.

medial condyle of femur
Round protuberance of the lower terminal part of the femur enabling articulation with the tibia; this condyle is longer and narrower than the lateral condyle.

hand

Terminal part of the forearm with a tactile and prehensile function and a thumb opposable to the other fingers. The skeleton of the hand has 27 bones.

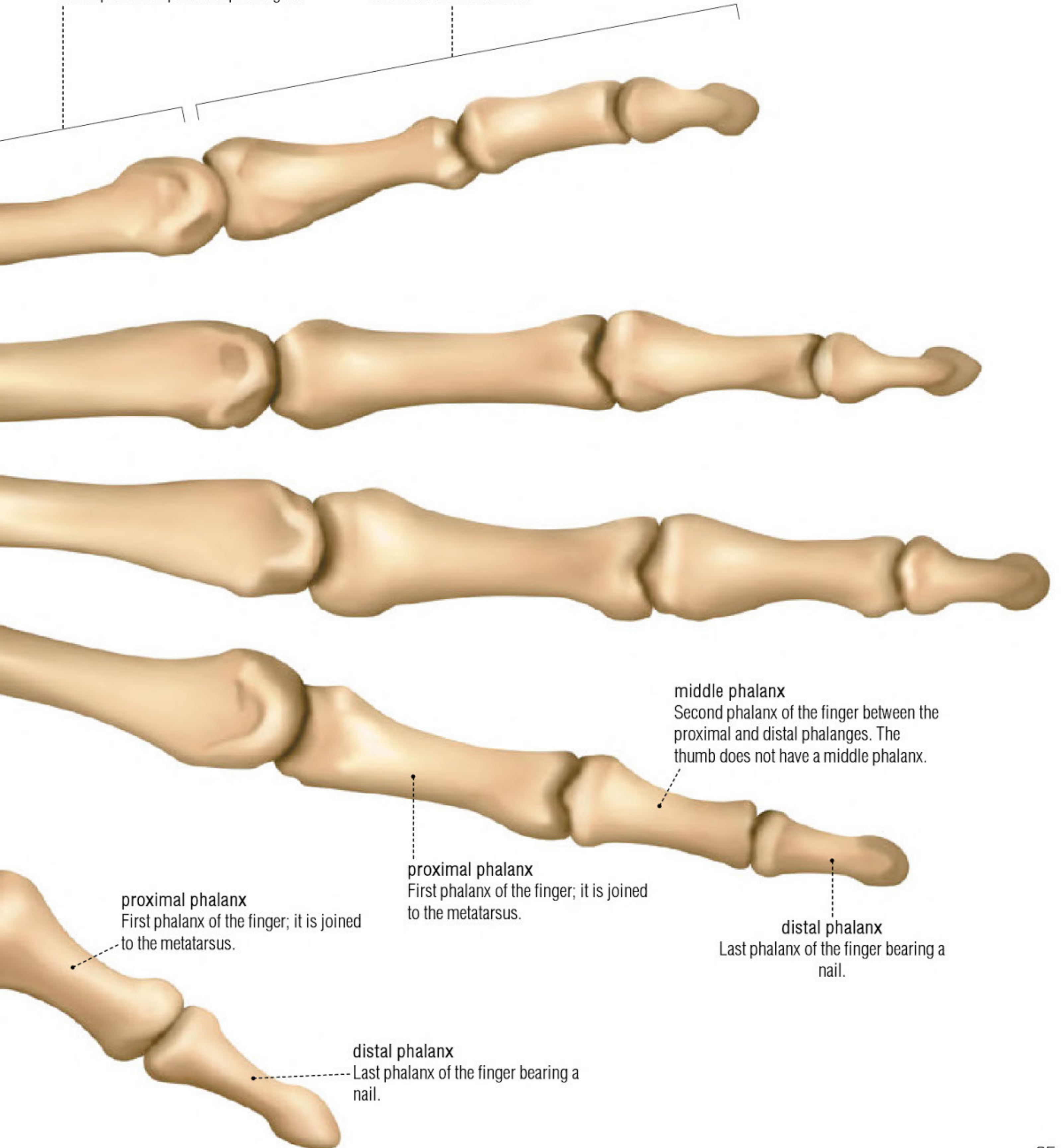


metacarpus

All five long bones forming the palm of the hand; they link the anterior row of the carpus to the proximal phalanges.

phalanges

Articulated bones forming the skeleton of the fingers; each finger has three, while the thumb has two.



middle phalanx

Second phalanx of the finger between the proximal and distal phalanges. The thumb does not have a middle phalanx.

proximal phalanx

First phalanx of the finger; it is joined to the metatarsus.

distal phalanx

Last phalanx of the finger bearing a nail.

proximal phalanx

First phalanx of the finger; it is joined to the metatarsus.

distal phalanx

Last phalanx of the finger bearing a nail.

foot

Terminal part of the leg enabling upright stance and walking. The skeleton of the foot is made up of 26 bones.

tibia

Long bone forming the inner portion of the leg; it is connected especially to the tarsus to form the ankle joint.

fibula

Long bone forming the outer portion of the leg; it is connected especially to the bones of the tarsus to form the ankle joint.

tarsus

All seven short articulated bones, laid out in two rows, making up the heel and the ankle; it connects the tibia and the fibula to the metatarsus.

talus

Short bone of the tarsus that, with the calcaneus, ensures rotation of the ankle and, with the tibia and fibula, flexion and extension of the foot.

2nd cuneiform

Bone of the anterior row of the tarsus articulating especially with the metatarsal bone of the second toe and the scaphoid bone.

navicular

Bone of the posterior row of the tarsus articulating especially with the talus and the three cuneiforms.

calcaneus

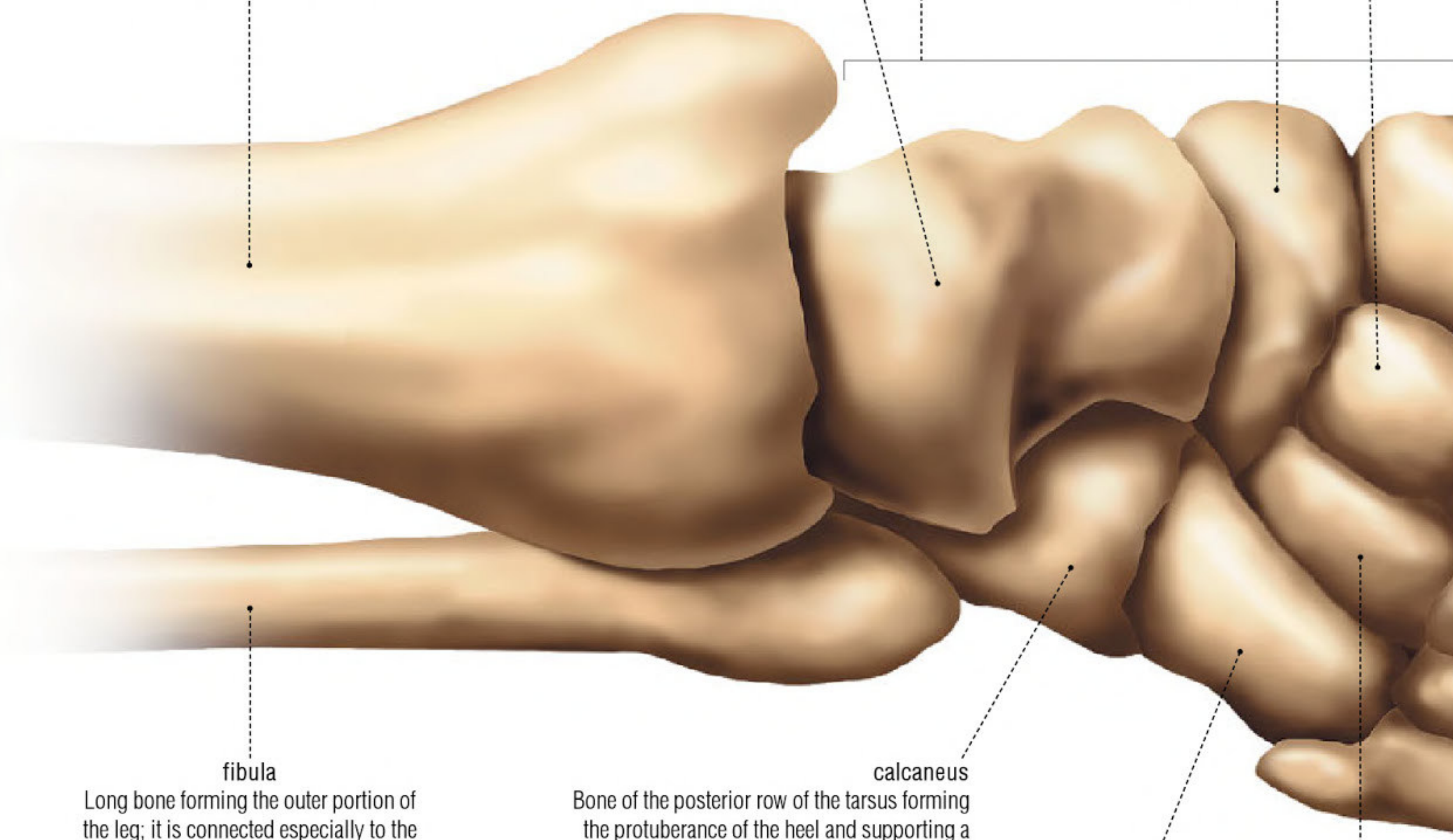
Bone of the posterior row of the tarsus forming the protuberance of the heel and supporting a large portion of the body's weight; the Achilles tendon is attached to it.

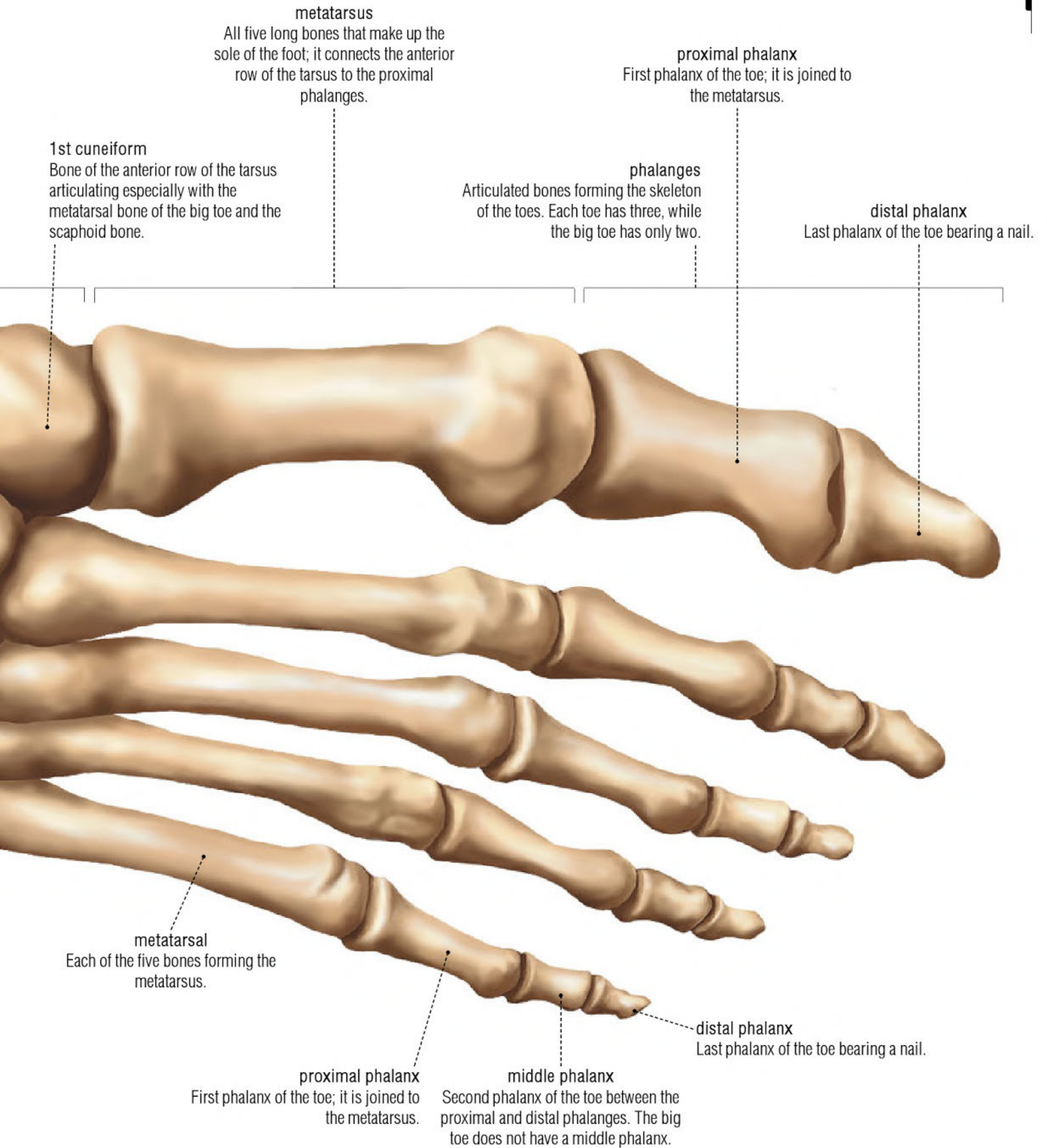
cuboid

Bone of the anterior row of the tarsus articulating especially with the metatarsal bones of the two last toes.

lateral cuneiform

Bone of the anterior row of the tarsus articulating especially with the metatarsal bone of the third toe.





lateral view of skull

Skull: bony structure enclosing and protecting the brain. The eight cranial bones in an adult are fused to each other by means of sutures.

