

Respiratory and Excretory Systems



Respiratory System

Lung The holes you see are tiny sacs called alveoli. Each lung has about 500 million alveoli. Blood vessels called capillaries surround the alveoli. Blood in the capillaries picks up oxygen in the alveoli and leaves carbon dioxide. The larger hole you see is a tube for bringing outside air to the lungs. The tube also takes carbon dioxide out of the lungs. Cartilage surrounds the tube and protects it.

Excretory System

Kidney Each kidney has about one million tubes called nephrons. The nephrons remove wastes from the blood. The larger round structures with purple dots are where wastes are removed. Many of the long, hollow structures are tubes that carry wastes to the bladder.

Skin The skin is the largest organ of the body. It has two layers. The dark purple layer you see is the outer layer. The pink layer is the inner layer. The inner layer has sweat glands that release sweat to cool the body. The sweat also has extra salt that the body doesn't need.

Scalp Hair grows from hair follicles on your skin. The scalp is covered with hair follicles. You can see the follicles as long, thin clear spaces. The dark area in some follicles is hair.