

# HISTOLOGI: PENDAHULUAN



OLEH:  
TIM HISTOLOGI

# Histologi

- Teori
- Praktikum → prosedur praktikum:
  - Mendaftar + diktat & buku kerja
  - Tata tertib praktikum: jas praktikum, alat tulis (pensil warna).
  - Pretest
  - Nilai: pretes, mid, ujian praktikum, ujian akhir, buku kerja histologi

# MATERI

1. Pendahuluan
2. Mikroteknik
3. Sel
4. Jaringan Epitel
5. Jaringan Ikat
6. Jaringan Otot
7. Jaringan Saraf
8. Sistem Pencernaan
9. Sistem Kardiovaskular
10. Sistem Respirasi
11. Sistem Ekskresi

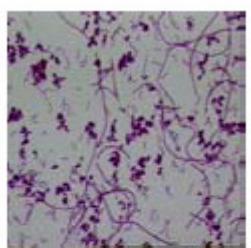
# HISTOLOGI

- Ilmu yg mempelajari jaringan tubuh secara mikroskopis
- Mikroanatomi
- Yang dipelajari: sel, jaringan, organ, sistem organ

# Organisasi sel, jaringan, organ, sistem organ, & organisme

- Ada 2 tipe sel:
  - Sel Eukaryotic → mempunyai nukleus
  - Sel Prokaryotic → tidak mempunyai nukleus, misal: bakteri
- Tubuh manusia terdiri dari berbagai kelompok sel yg berbeda

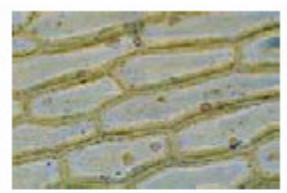
# Sel → jaringan → organ → sistem organ → organisme



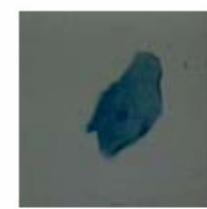
This is a mix of bacteria cells. None of them have a nucleus. They are examples of prokaryotic cells.



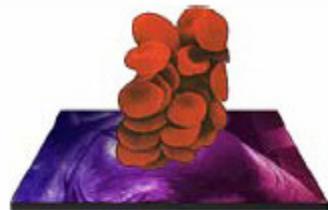
These *Paramecia* are unicellular organisms with a nucleus.



These plant cells each have a tiny nucleus.



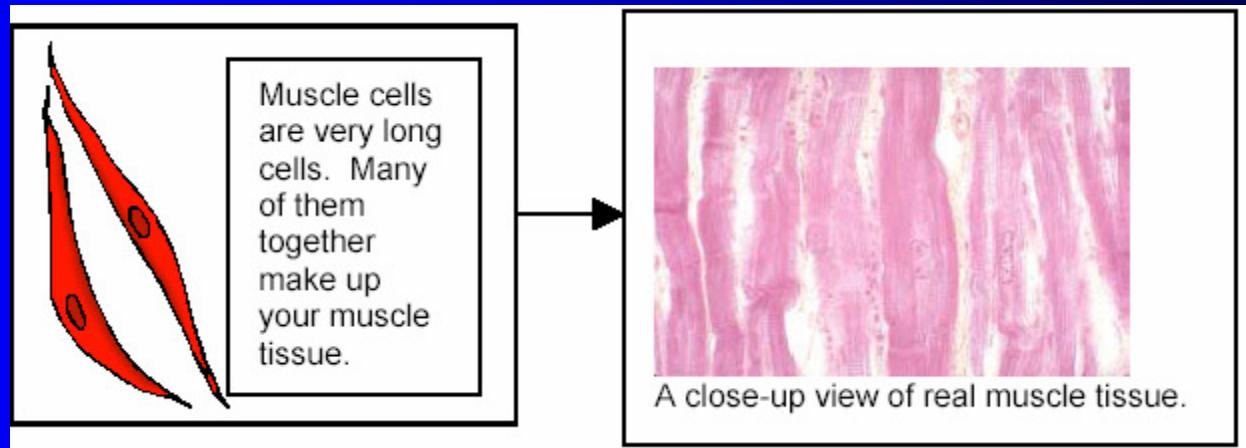
You can see the nucleus in this human cheek cell.



Red blood cells are human cells that do not have a nucleus.

# SEL

- Unit dasar kehidupan
- Organisme uniselular: hanya terdiri dari satu sel, contoh: bakteria
- Organisme multiselular: terdiri dari berbagai macam sel, contoh: manusia



# JARINGAN

- Definisi: sekelompok sel yang struktur & fungsinya sama
- Ada 4 jaringan dasar: jaringan epitel, jaringan ikat, jaringan otot, & jaringan saraf
- Contoh: kumpulan sel-sel otot membentuk jaringan otot

# 4 Jaringan Dasar

The Four Primary Tissue Types		
Type	Characteristics	Location
Jar. epitel	<ul style="list-style-type: none"><li>•Jar. yg melapisi organ (di permukaan luar / permukaan dalam)</li></ul>	<ul style="list-style-type: none"><li>•Skin surface</li><li>•Organ surfaces</li><li>•Interior linings</li></ul>
Jar. Otot	<ul style="list-style-type: none"><li>•Jar. Tersusun atas sel-sel yg memanjang, tersusun rapat</li></ul>	<ul style="list-style-type: none"><li>•Skeletal muscle</li><li>•Heart muscle</li><li>•Smooth muscle</li></ul>
Jar. Ikat	<ul style="list-style-type: none"><li>•Jar. Terdiri atas sel-sel yg tersusun longgar, ada matriks, fungsi: mengikat, meyokong, melindungi jar &amp; organ</li></ul>	<ul style="list-style-type: none"><li>•Ligaments, tendons</li><li>•Bone, cartilage</li><li>•Blood</li></ul>
Jar. Saraf	<ul style="list-style-type: none"><li>•Jar. Terdiri atas sel-sel eksitabel, fungsi: mengirim sinyal listrik &amp; menyimpan informasi</li></ul>	<ul style="list-style-type: none"><li>•Brain</li><li>•Spinal cord, nerves</li></ul>

# ORGAN

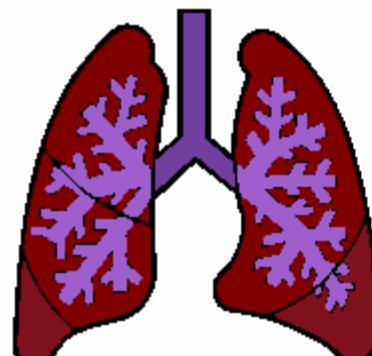
- Sekelompok jaringan yg bekerjasama membentuk fungsi khusus dalam tubuh
- Contoh: jantung, paru-paru, mata, otak, lambung



The heart is the muscular organ in the body that pumps blood.



The brain is the organ that controls the body.



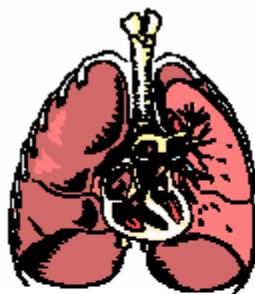
When you breathe in air, it goes into the organ called the lungs.



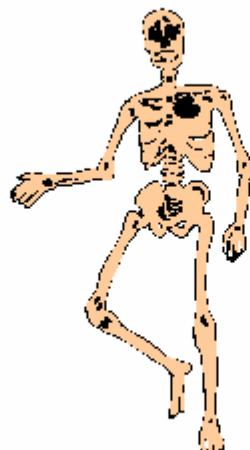
The stomach is the organ that holds acid in it to help digest food.

# SISTEM ORGAN

- Berbagai organ bekerjasama membentuk sistem organ sehingga kehidupan organisme dapat berlangsung



The lungs, blood, heart, arteries, capillaries, and veins make up the circulatory system. They carry oxygen to every part of the body.

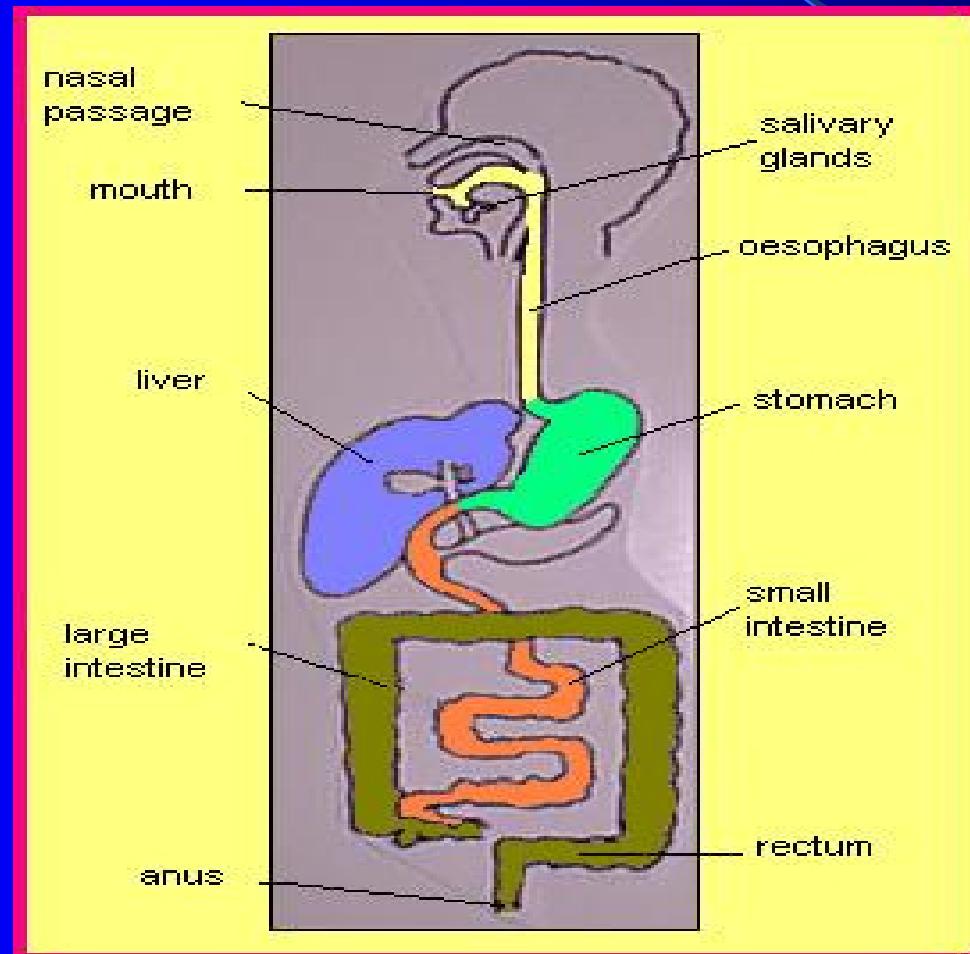


The skeletal system is made up of all of the bones in your body. It gives the body support and it protects the organs from getting

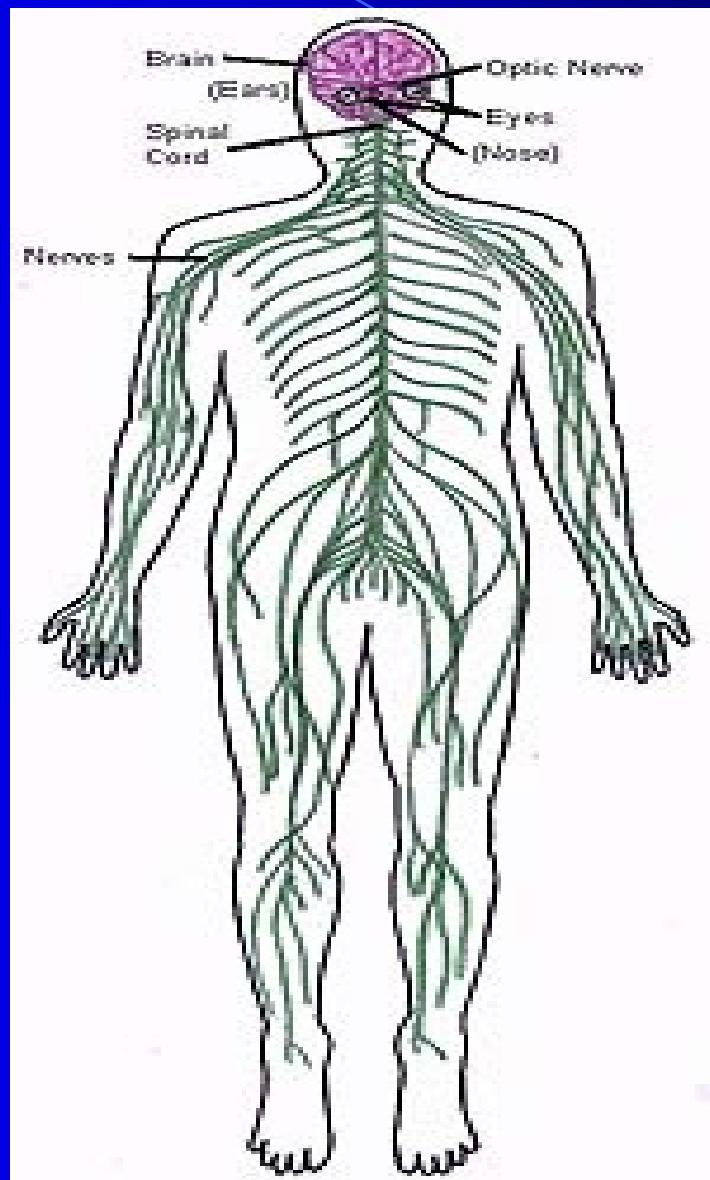


The digestive system is used to digest and absorb food.

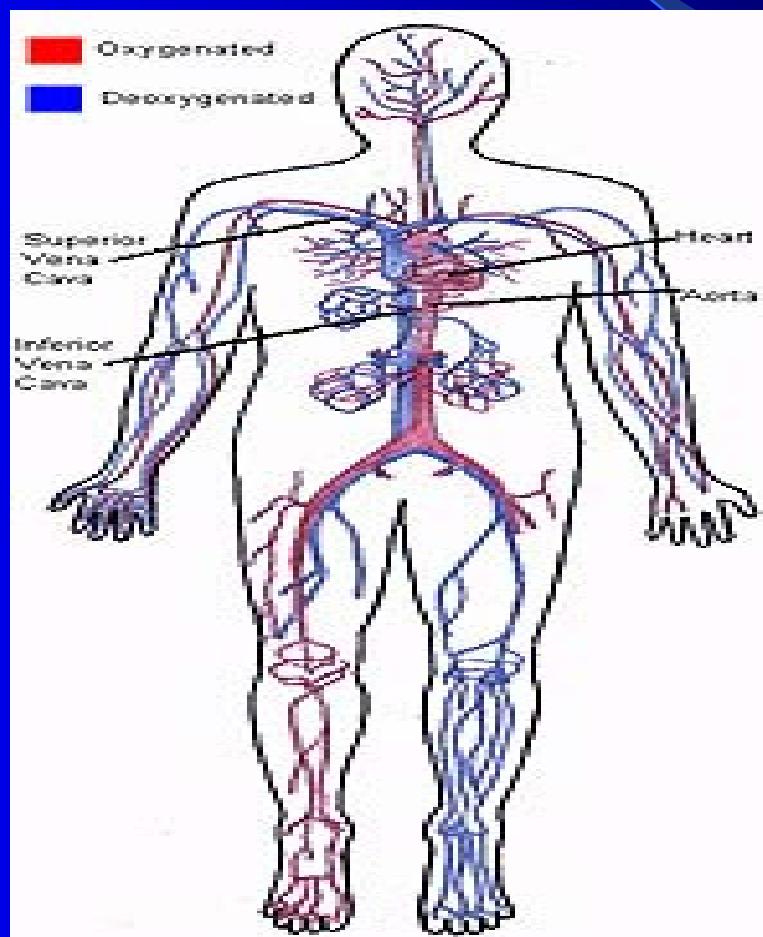
# SISTEM PENCERNAAN



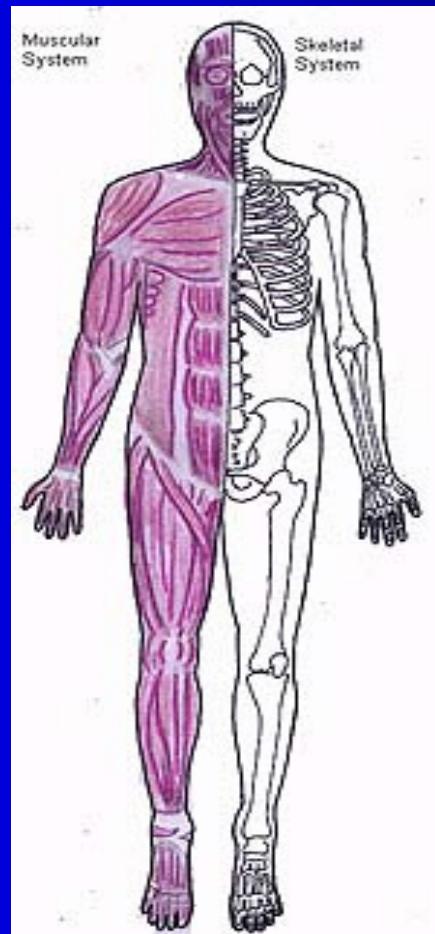
# SISTEM SARAF



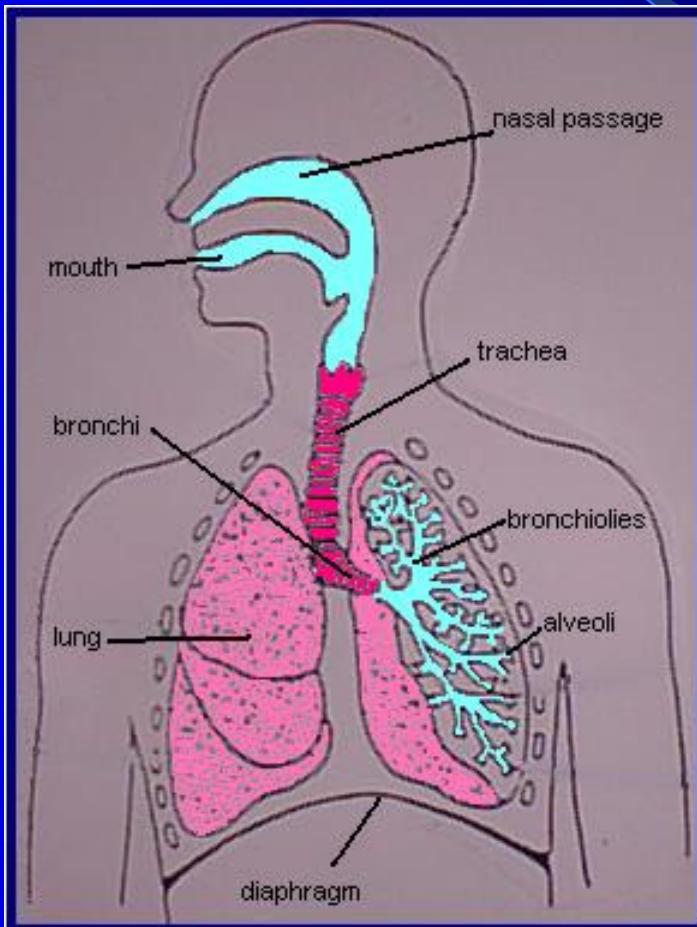
# SISTEM SIRKULASI (KARDIOVASKULAR)



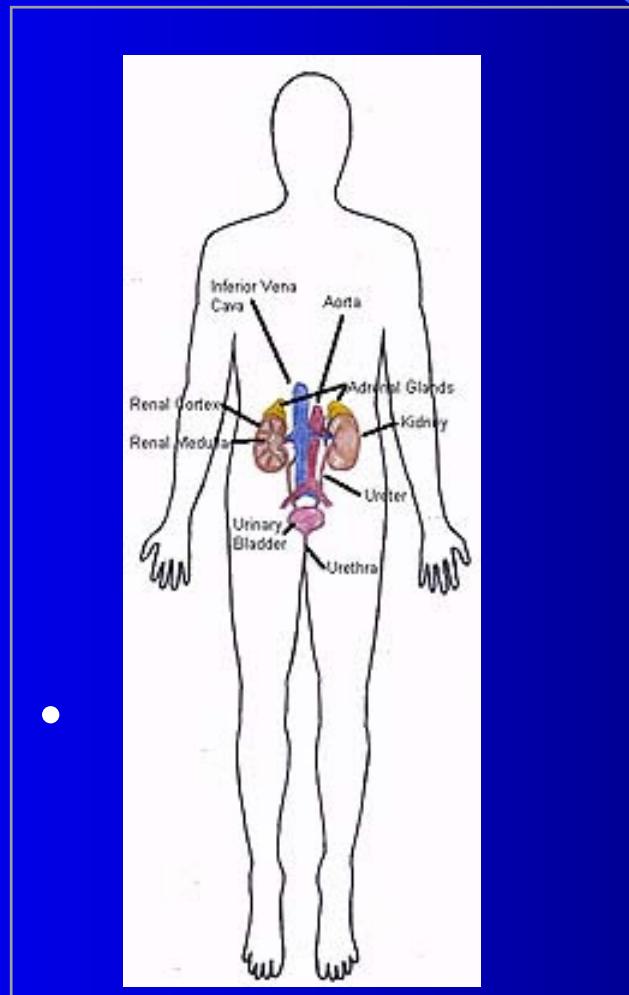
# SISTEM MUSKULOSKELETAL



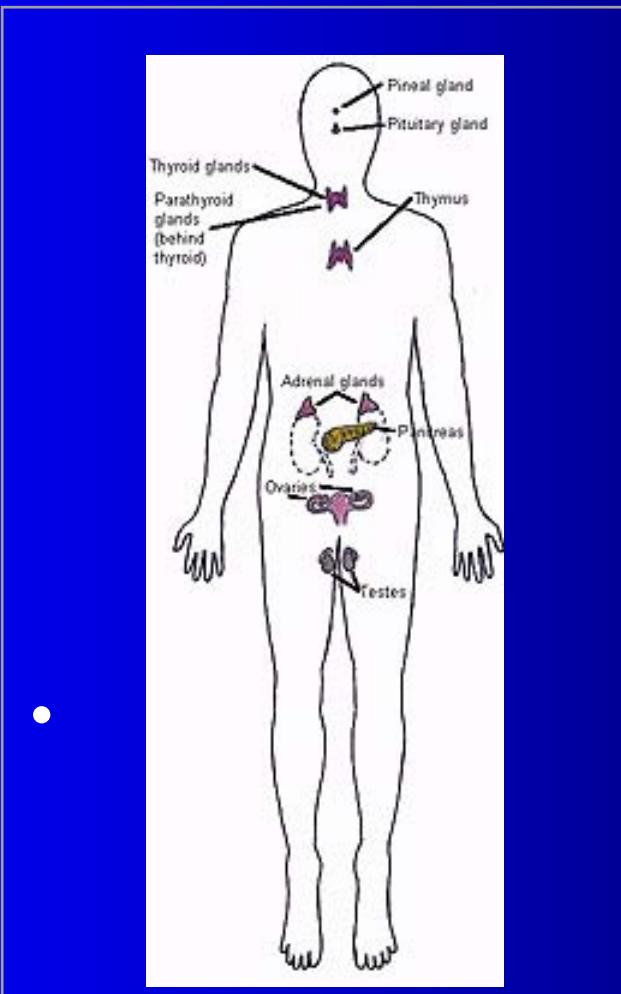
# SISTEM RESPIRASI



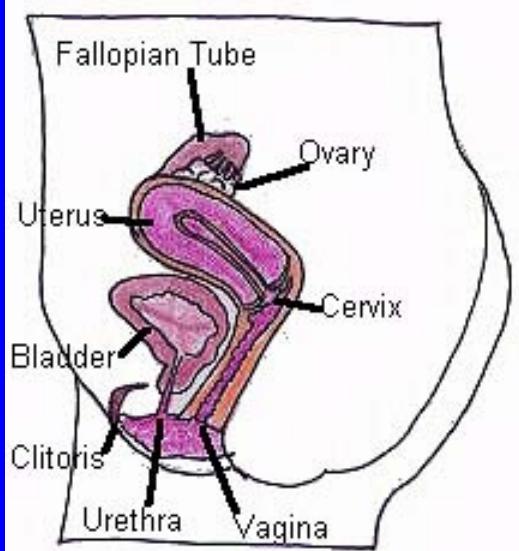
# SISTEM EKSKRESI



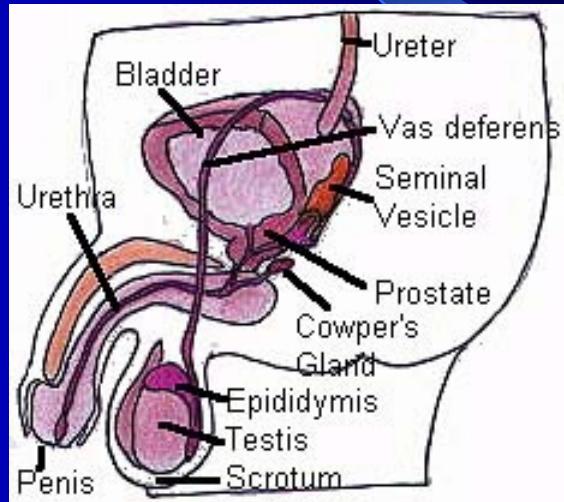
# SISTEM ENDOKRIN



# SISTEM REPRODUKSI



WANITA



PRIA



**TERIMA KASIH**