

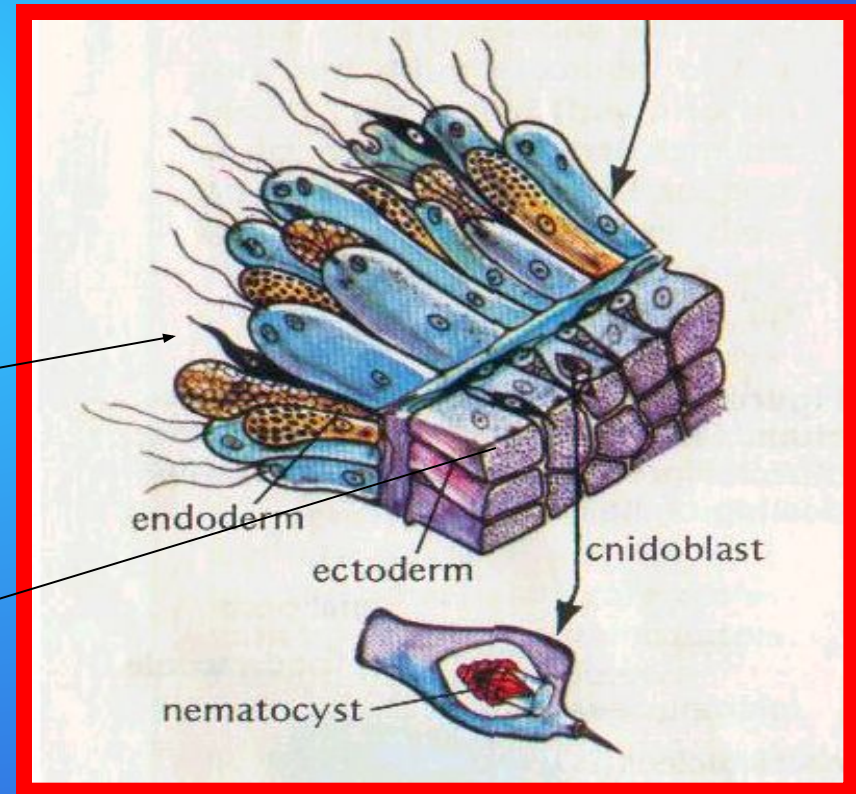
Hayvanlar



Haywanlar maşgalasy

Haywanlaryň häsiýetleri

1-Haywanlar köp öýjikli eukarýotik organlardyrlar.

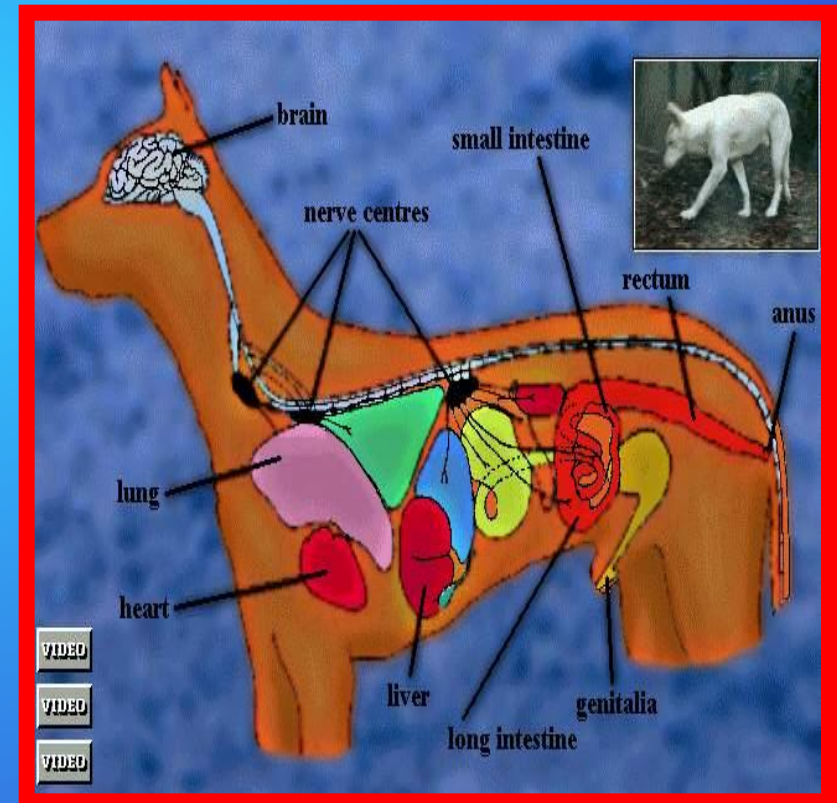


Eukarýotik
öýjik

**2- Hemme haýwanlar hetetrop
we olar öz iýmitlerini başga
organizimlardan alýarlar.**



3-Olar hereket edýän organlardyr,
we olar muskular we nerw
sistemlaryna bölünýärler..



4- Köp haýwanlar jynsly köpelyärler, käbirleri bolsa jynssyz köpelyärler.



Jynsly köpeliş

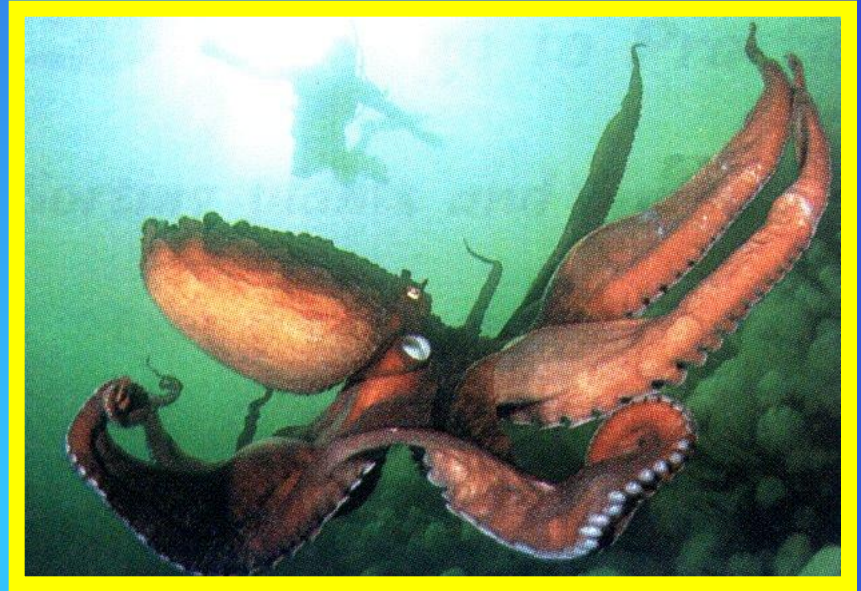


Jynssyz köpeliş

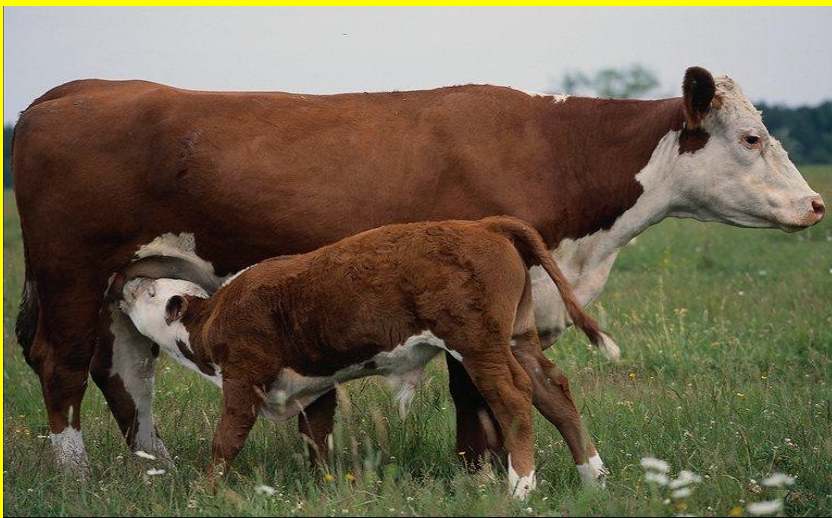
Haywanlar maşgalasy.

- Haywanlar oňurgasy barlar we oňurgasy ýoklar diýip iki bölege bölünýärler. Olar:
 - **Oňurgasyzlar** (oňurgasy bolmaýan)
 - **Oňurgalylar** (oňurgasy bolan)

Oñurgasyzlar



Oñurgalylyar



Oňurgasyzlaryň häsiýetleri

1. Olaryň oňurgadan ýasalan içki süňkleri ýok.
2. Olar suwda hem-de gumda ýaşayarlar.
3. Köp oňurgasyzlar junsly, käbirleri bolsa jynssyz köpelyärler.

Oňurgasylaryň Görnüşleri

1.Gubka

2.Coelenteratlar

3.Gurçuklar

4.Aýaklylar

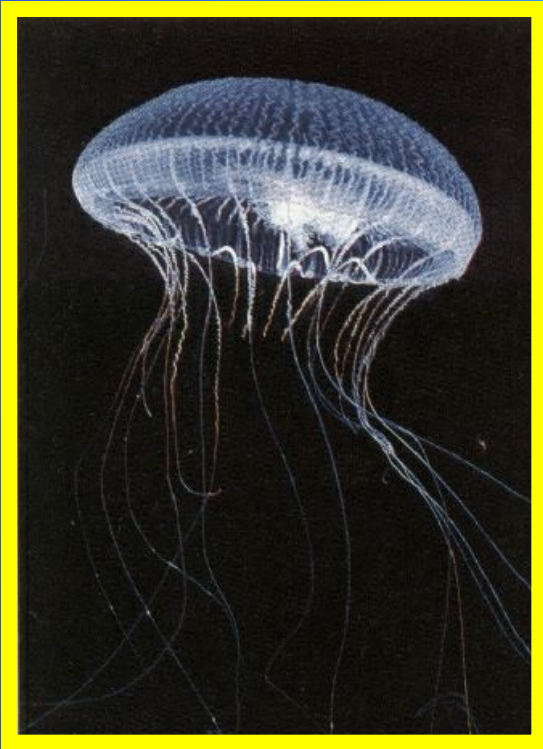
5.Molýuska

6.Derisiňňileri

Gubka



Coelentererlar



Medusa



Gidra



Suw oty

Gurçuklar



Segmented worm



Ýasy
gurçuklar

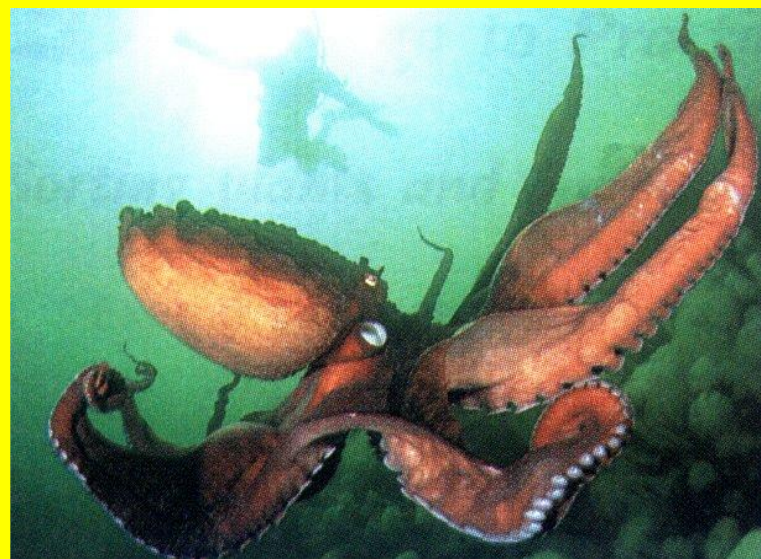


Tegelek
gurçugy

Aýaklylar

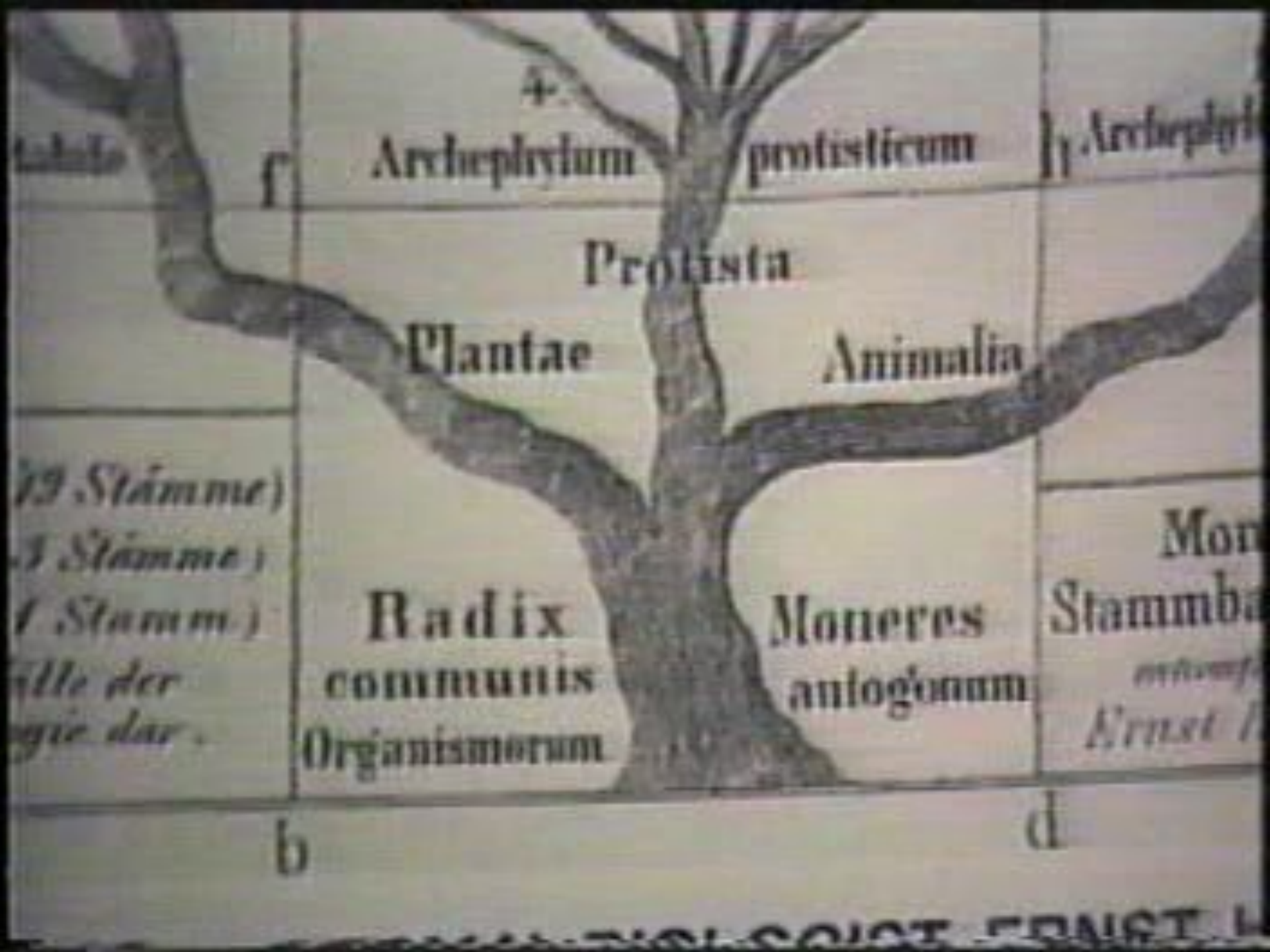


Molýuskalar



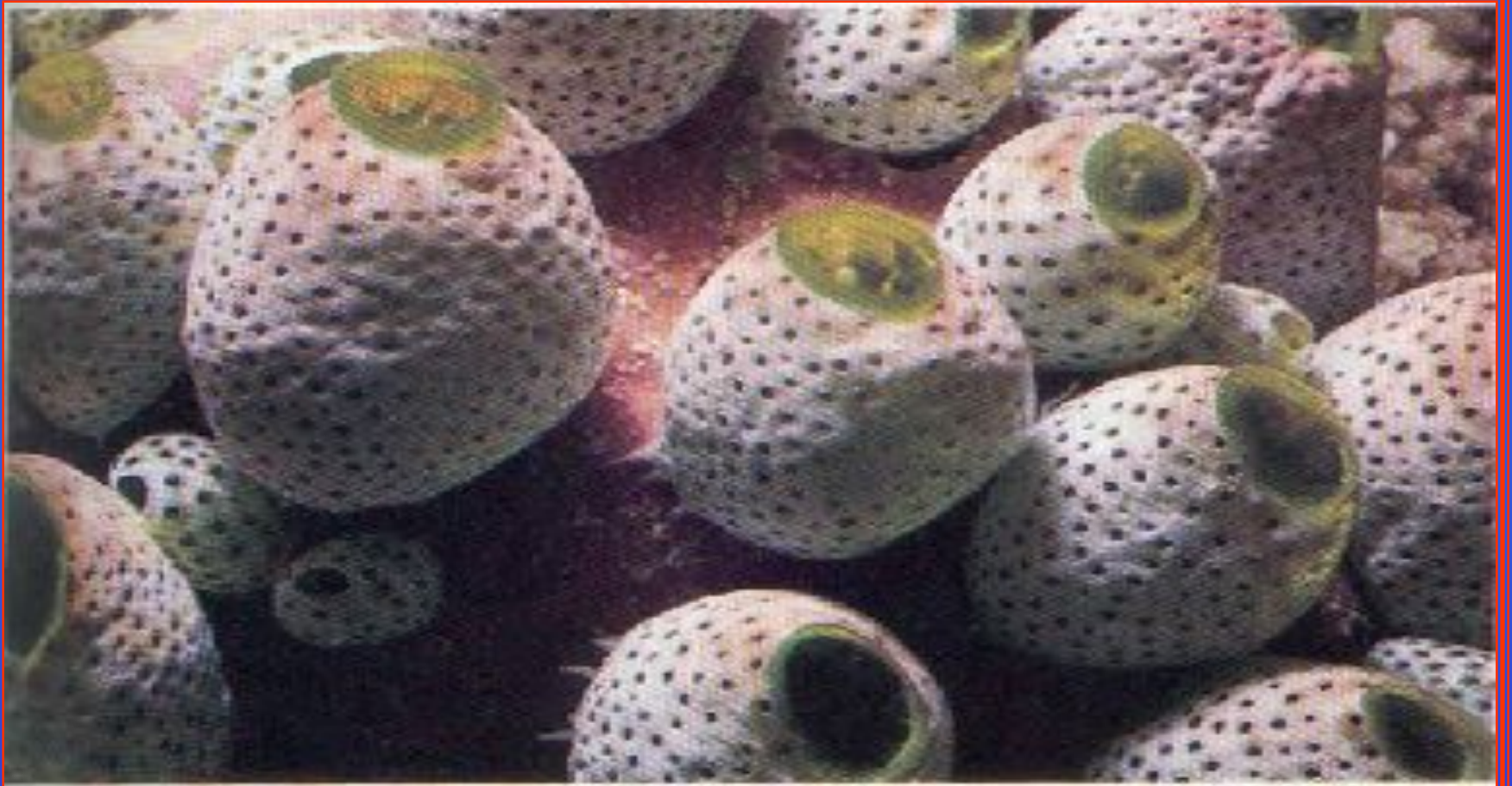
Derisîññiler





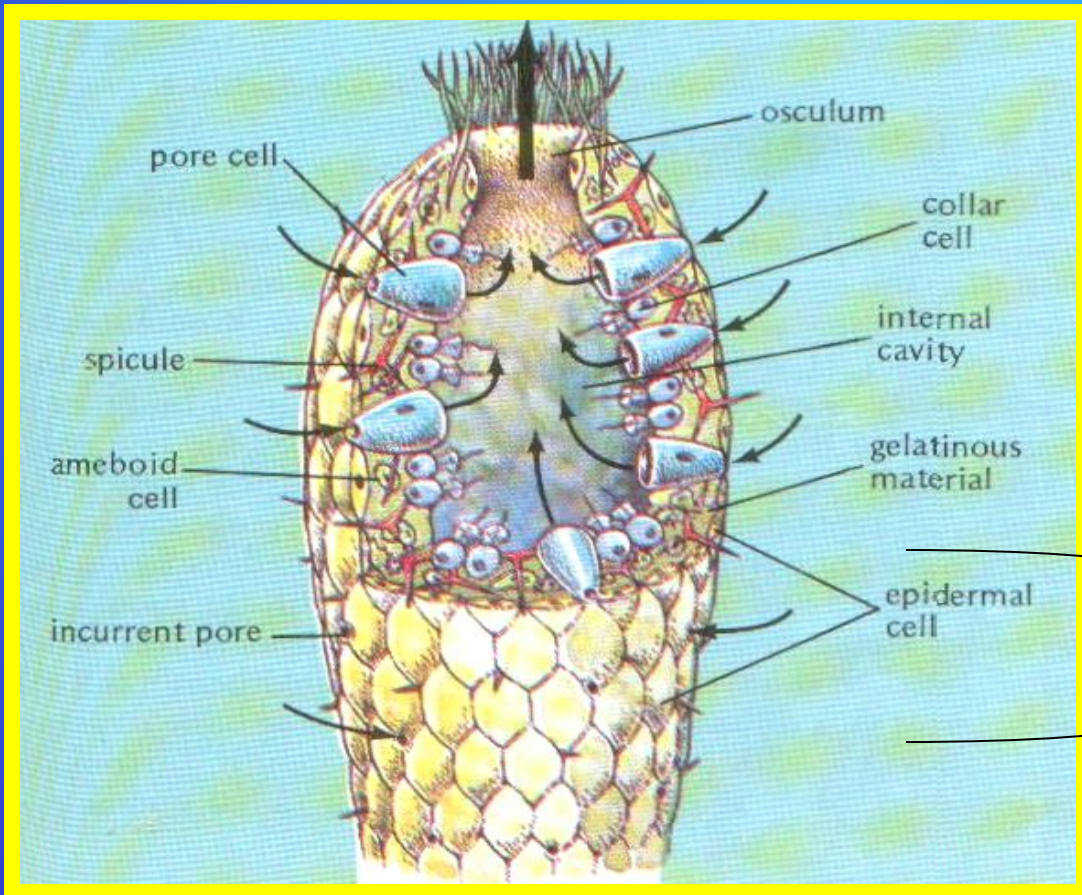
Gubka

Gubkalar görnüşinden



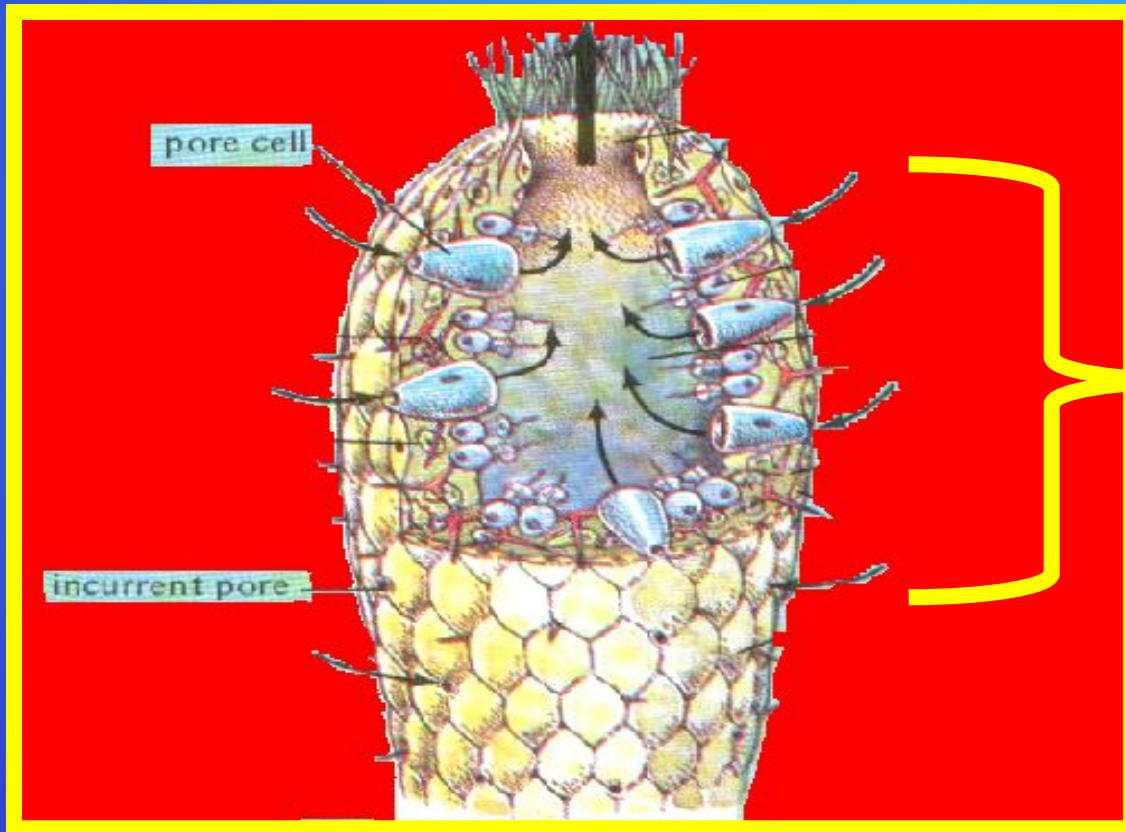
Umumy häsiýetler

1-Gubkalar iň ýönekeý köp öýjikli haýwanlardyr.



Köp
öýjikler

Gubkalaryň köp deşikleri bar bolany üçin olara gubkalar diýilýär.



Deşikli
öýjikler

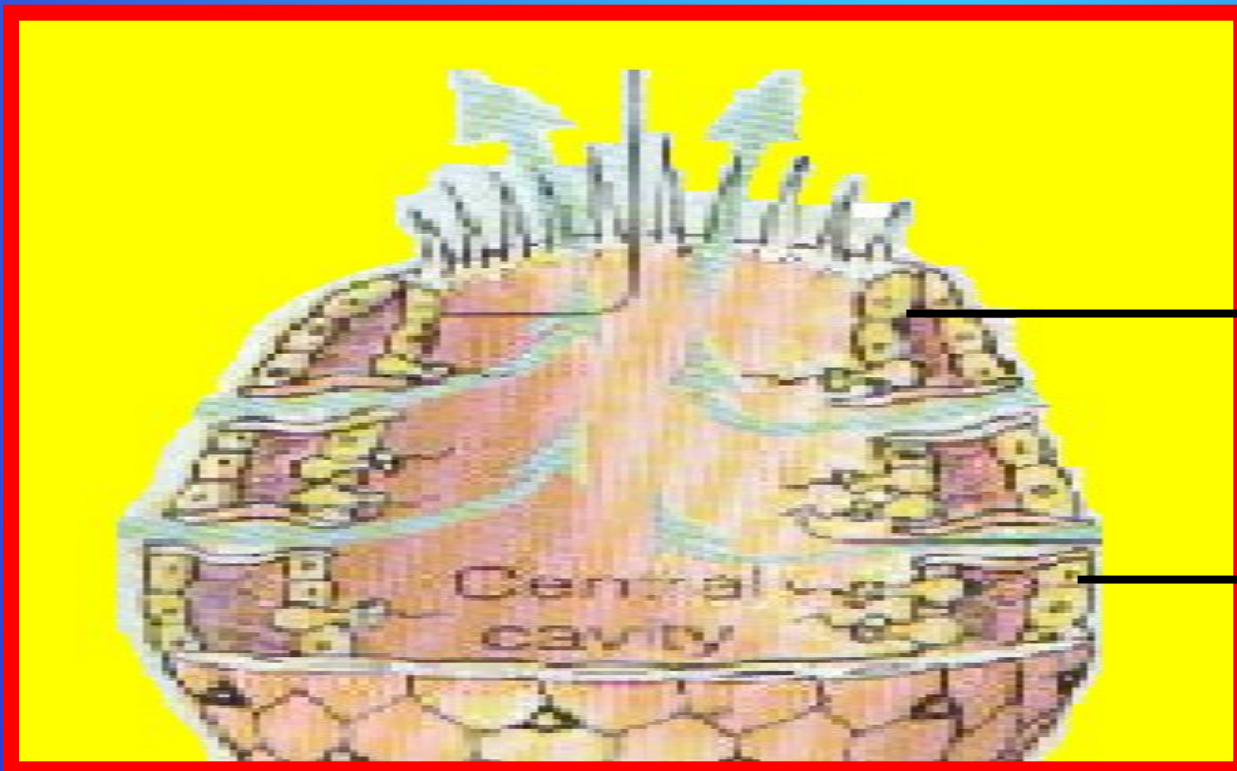
3. Hemme gupkalar suwdaky jandarlar. Köpüsi duzly suwda käbirleri bolsa arassa suwda ýaşaýarlar.



**5-Olaryň iki sany gurluşy bar.
Olar:**

Ektoderma: Daşky gurluş

Endoderma: Içki gurluş



Içki
gurluş

Daşky
gurluş

6. Köp gubkalar
pyntyklamak
hemde **regenerasiýa**
arkaly jynssyz
köpelyärler.

7. Gubkalar
plankton haýwanlar
bilen
iýmitlenýärler.

