

Phylum

Chordata

3 Subphyla

Subphylum **Urochordata**

Subphylum **Cephalochordata**

Subphylum **Vertebrata**



Larva

Has all 4 Chordate characteristics



Adult

Has only 1 Chordate characteristic:

Pharyngeal gill bars have become a filter feeding basket

Subphylum

Urochordata

Subphylum

Urochordata

Tunicate

tadpole

larvae

Note 4 chordate characteristics:

1. **Dorsal hollow nerve cord**
2. **Notochord**
3. **Pharyngeal gill slits or bars**
4. **Post-anal tail (A)**

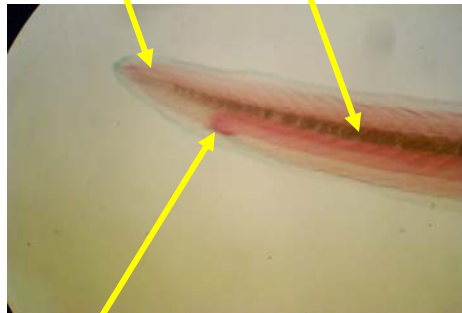


Subphylum **Cephalochordata**



Post anal tail

Notochord



Anus

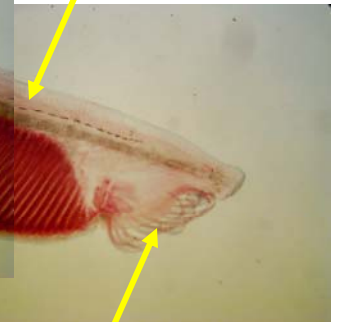
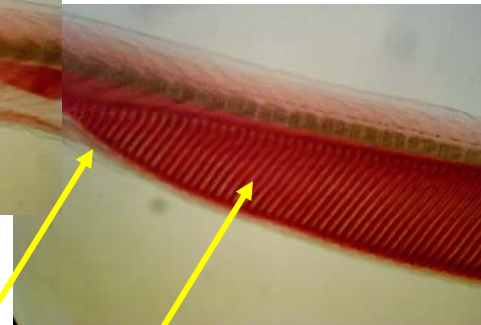
Atriopore

Metapleural Folds

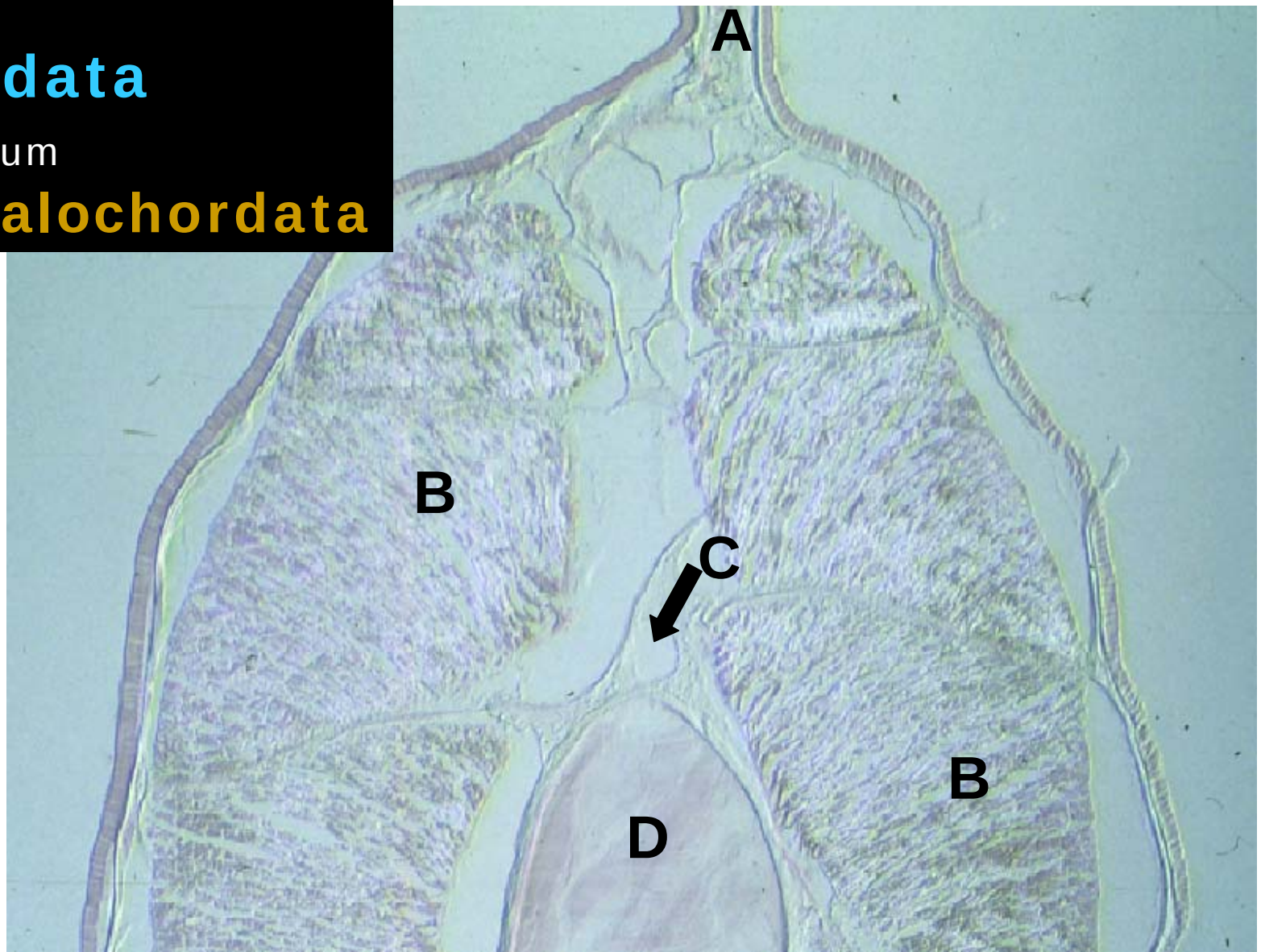
Pharyngeal gill bars & slits

Nerve cord

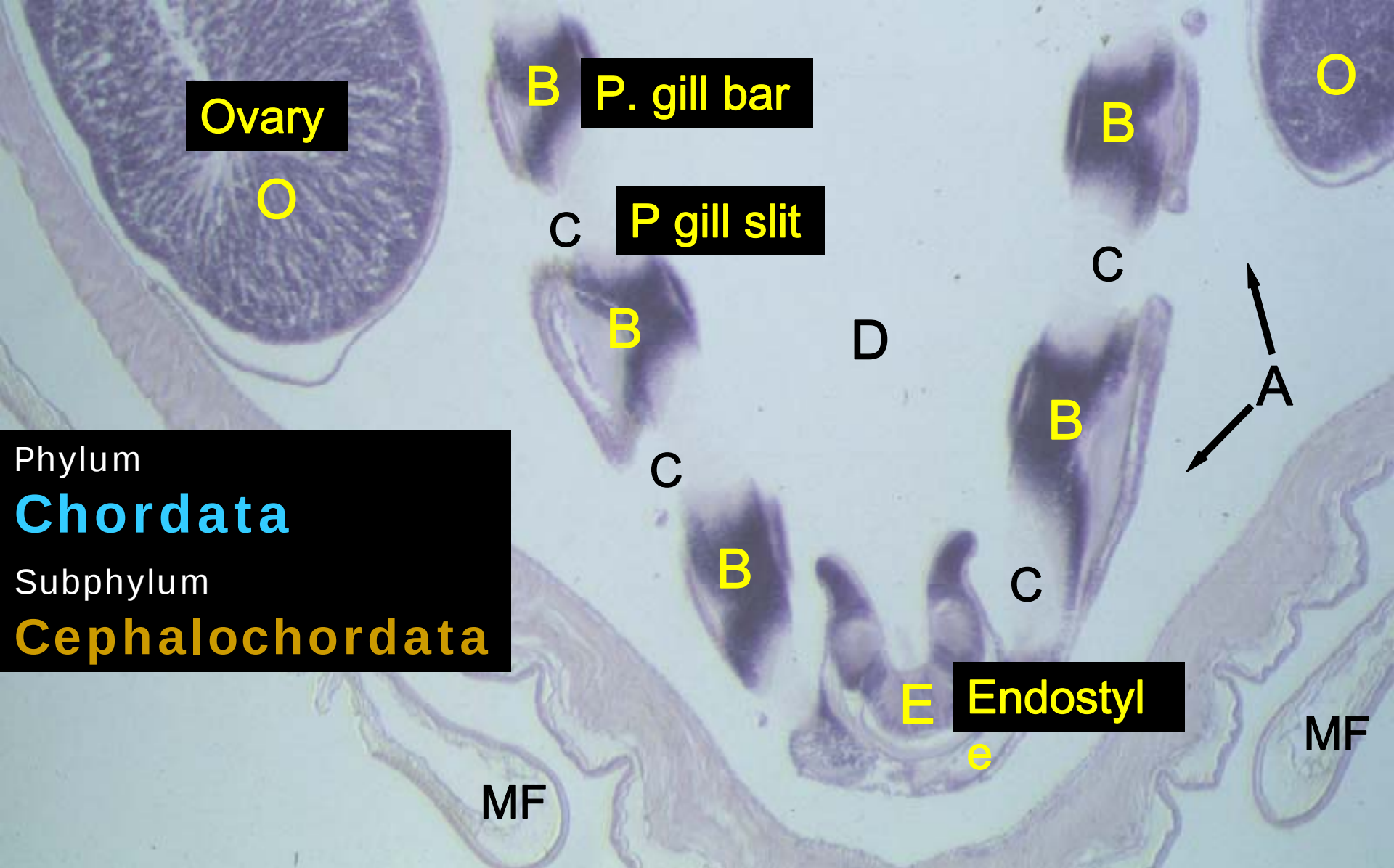
Cirri



Phylum
Chordata
Subphylum
Cephalochordata



Dorsal region Note: fin ray (A), myomeres (B), dorsal hollow nerve cord (nerve tube) (C), notochord (D)



Anterior region Note: (D) pharynx, (E) endostyle – (produces mucus to help catch food in between the gill bars - Yummy!) (MF) - Meta pleural folds (A) atrium

Phylum Chordata

Subphylum **Vertebrata**

7 Classes -

Agnatha	Hagfish & Lampreys
Chondrichthyes	Sharks
Osteichthyes	Bony fish
Amphibia	Frogs & Salamanders
Reptilia	Turtles & Crocs
Aves	Birds
Mammalia	Your lab partner!

Phylum **Chordata**

Subphylum **Vertebrata**

TYPES of SKELETON

Cartilaginous Skeleton (2 classes)

Agnatha

Chondrichthyes

Bony Skeleton (5 classes)

Osteichthyes

Amphibia

Reptilia

Aves

Mammalia

‘RAAMO’

Phylum **Chordata**

Subphylum **Vertebrata**

NUMBER OF HEART CHAMBERS

2

Agnatha
Chondrichthyes
Osteichthyes

3

Amphibia
Reptilia (**except crocs**)

4

Crocs
Aves
Mammalia



Phylum **Chordata**

Subphylum **Vertebrata**

WHO HAS AN AMNIOTIC EGG?

Amniotes – ‘RAM’

Reptilia

Aves

Mammalia

Phylum **Chordata**

Subphylum **Vertebrata**

Always take the shortest route.....

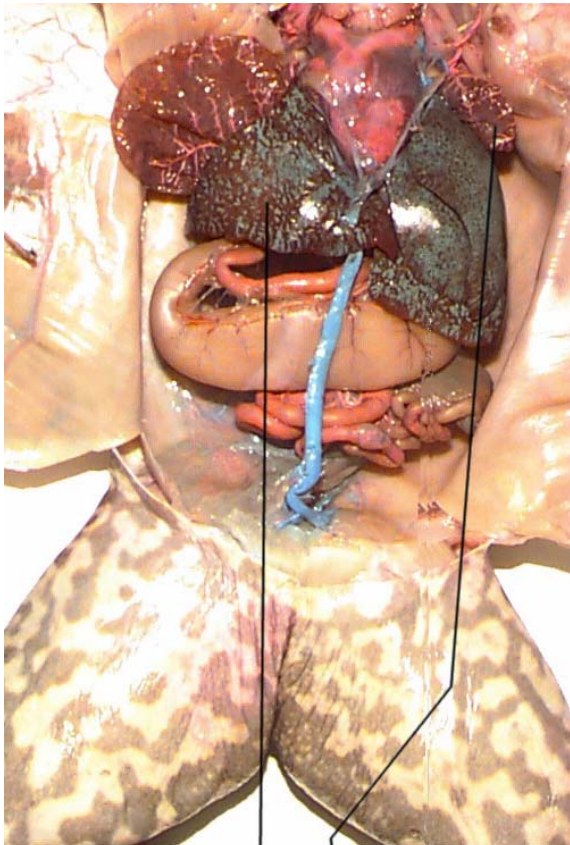
If you can't remember all the classes that are ectothermic... just remember those that aren't!

Endothermic

Aves

Mammalia

Endothermy – ability to maintain body temperature by internal metabolic processes



Don't forget the
dissections.....
and all those special little structures