

Natural History of Vertebrates

List of Terms

Chapter 6 - Major Radiation of Fishes

The following are terms that you should look up. You should be able to define each term and give a clear, specific example of each. Most of these terms are in your textbook (check the glossary), some will be presented in lecture, and others may come from your previous course work. A good investment at this point in your career would be the investment in one or more dictionaries which are specific to biology. One dictionary that I would recommend is "A Dictionary of Ecology, Evolution and Systematics" (second edition) by Lincoln, Boxshall and Clark. It is published by Cambridge University Press and the ISBN number is 0 521 43842 for the paperback version.

Taxonomic terms may be the scientific names or common names associated with various groups of organisms. Generic names are capitalized and in italics. Scientific names for families or higher are capitalized. Common names start with lower case letters.

I will use these terms in lecture at various times throughout the semester and will expect you to know them. They may also appear on tests. It would be a very good idea to include a section in your notes where you write out the definitions to these terms.

List of Terms

gills
operculum
gill filament
gill arch
ram ventilation
buccal pumping
afferent artery
efferent artery
countercurrent exchanger
facultative air breather
obligate air breather
swim bladder
physostome
pneumatic duct
physoclist
gas gland
rete mirabile
countercurrent multiplier
ovale
undulation
anguilliform
carangiform

Taxonomic Terms

Teleostomi
Acanthodii
Osteichthyes
Sarcopterygii
Actinopterygii
Neopterygii
Teleostei
Osteoglossomorpha
Elopomorpha
Euteleostei
Clupeomorpha
Actinistia
Dipnoi
Tetrapoda

ostraciform
balistiform
amiiform
gymnotiform
labriform
lift
drag
thrust
viscous drag
inertial drag
aspect ratio
refractive index
internal ear
labyrinth organ
neuromast organ
ampullary organ
tuberous organ
hair cells
kinocilium
afferent nerves
cupula
electrocyte
electrogenesis
electroreception
cosmine
ganoine
hyomandibula
maxilla
premaxilla
quadrate
orobranchial chamber
pharyngeal jaws
homocercal
protrusible jaw
Weberian apparatus
hermaphrodite
sequential hermaphroditism
protandrous hermaphroditism
protogynous hermaphroditism
epipelagic
mesopelagic
bathypelagic
photic zone
aphotic zone
estivation
durophagus

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