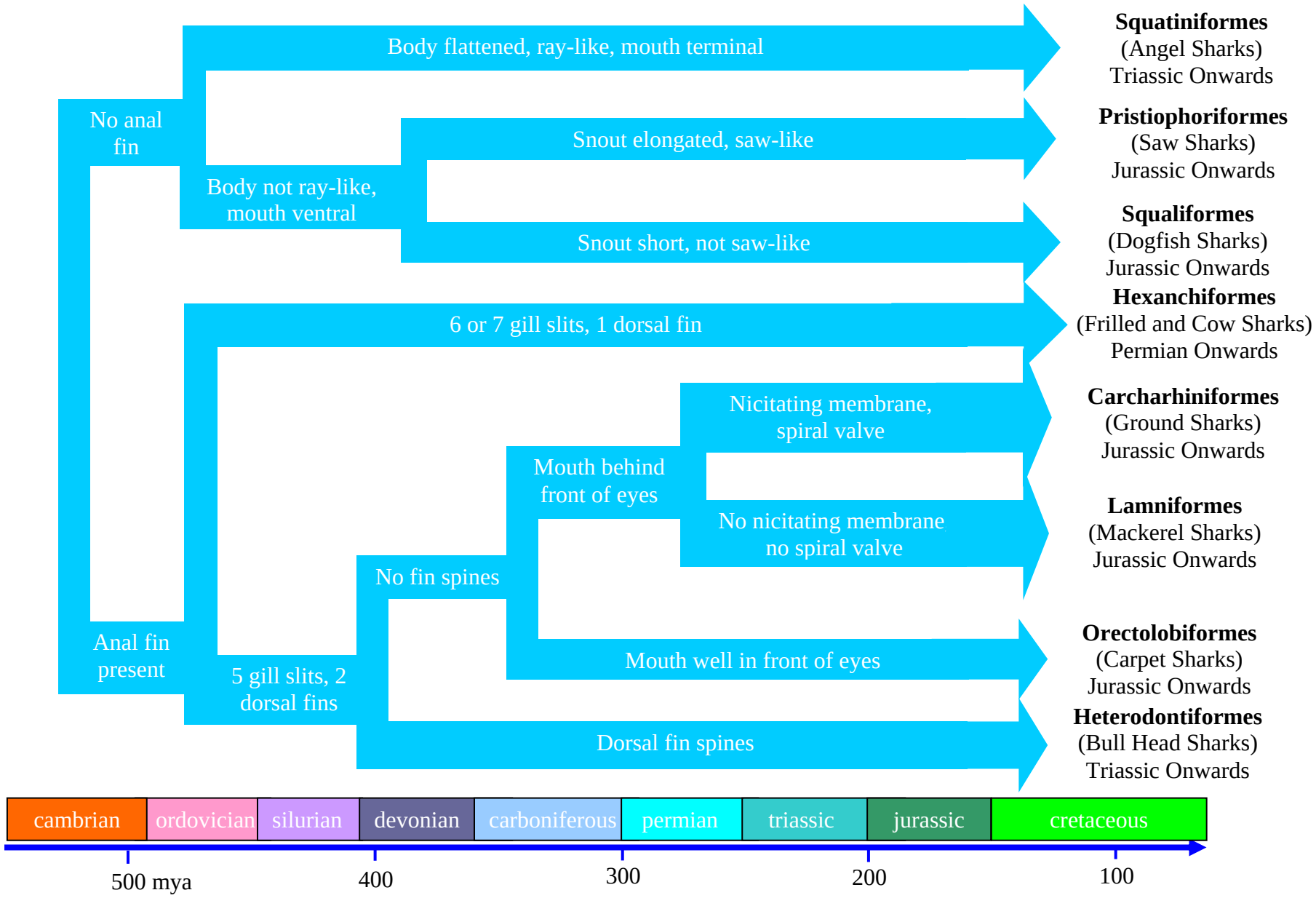
No anal fin
Body flattened, ray-like, mouth terminal
Squatiniformes
(Angel Sharks)
Triassic Onwards
Body not ray-like, mouth ventral
Snout elongated, saw-like
Pristiophoriformes
(Saw Sharks)
Jurassic Onwards
Snout short, not saw-like
Squaliformes
(Dogfish Sharks)
Jurassic Onwards
Anal fin present
6 or 7 gill slits, 1 dorsal fin
Hexanchiformes
(Frilled and Cow Sharks)
Permian Onwards
5 gill slits, 2 dorsal fins
Nicitating membrane, spiral valve
Carcharhiniformes
(Ground Sharks)
Jurassic Onwards
Mouth behind front of eyes
No nicitating membrane no spiral valve
Lamniformes
(Mackerel Sharks)
Jurassic Onwards
No fin spines
Mouth well in front of eyes
Orectolobiformes
(Carpet Sharks)
Jurassic Onwards
Dorsal fin spines
Heterodontiformes
(Bull Head Sharks)
Triassic Onwards
cambrian
ordovician
silurian
devonian
carboniferous
permian
triassic
jurassic
cretaceous
500 mya
400
300
200
100