

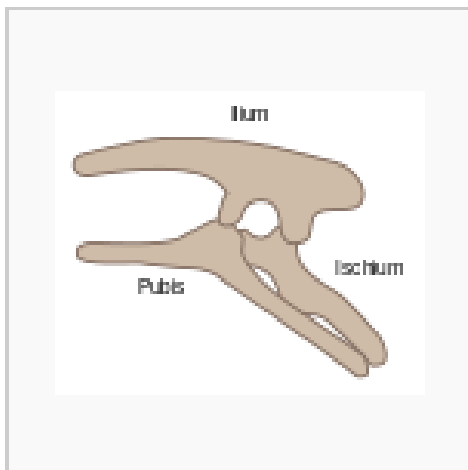
Clade Dinosauria

I recommend you read the Wikipedia entry on dinosaurs. Read as much as you want, but focus on the Introductory section, the Evolutionary History section, and the Extinction section. Understand what characterizes a dinosaur and how they are now considered direct ancestors of birds, such that it is almost incorrect to say “dinosaurs are extinct”. It is correct, however, to say all land restricted dinosaurs went extinct at the Cretaceous extinction some 65 MYA after a period of about 135 MY when dinosaurs were the dominant land animal on the planet.

You are responsible for 11 dinosaurs from two main Orders.

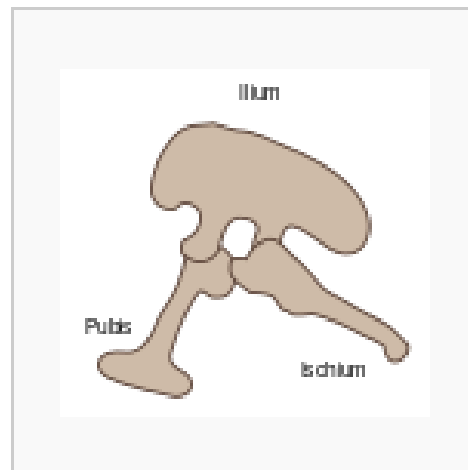
Order Saurischia (or lizard-hipped dinosaurs)

Order Ornithischia (bird-hipped dinosaurs)



Ornithischian pelvic structure (left side)

“Birds” – pelvic bone is horizontal and extends towards the tail



Saurischian pelvic structure (left side).

“Saurischia” – pelvic bone is more vertical extending extends toward ground and head.

Clade Dinosauria (pg. 1 of 4)

Order Saurischia (Lizard-hipped)

67. Genus *Allosaurus*

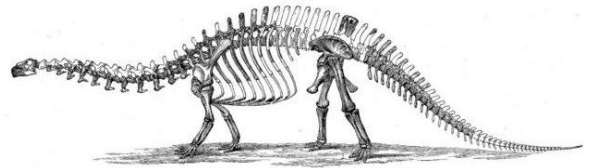
Carniverous, bipedal (i.e.therapod),
most common large dinosaur of
Jurassic, may have survived into
Cretaceous



Order Saurischia (Lizard-hipped)

68. Genus *Apatosaurus*

“Brontosaurus”, quadruped,
Jurassic herbivore, >30 tons



Order Saurischia (Lizard-hipped)

69. Genus *Coelophysis*

Triassic (200 MYA), bipedal,
primarily carnivorous, believed
to live gregariously (in herds)



Clade Dinosauria (pg. 2 of 4)

Order Saurischia (Lizard-hipped)

70. Genus *Deinonychus*

Late Cretaceous Theropod, up to 3m long, very important species leading to understanding of link between dinosaurs and birds

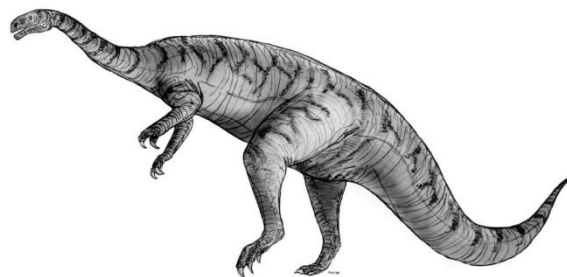
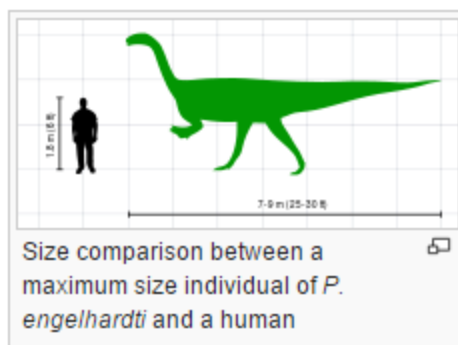


3m (10')

Order Saurischia (Lizard-hipped)

71. Genus *Plateosaurus*

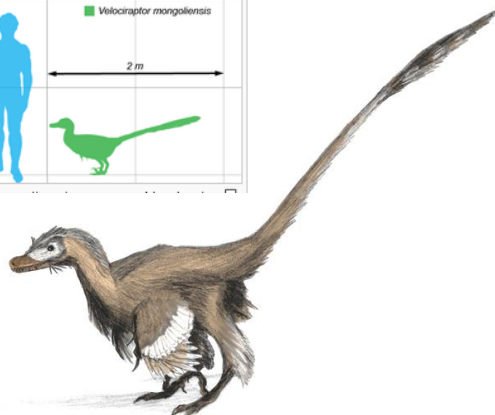
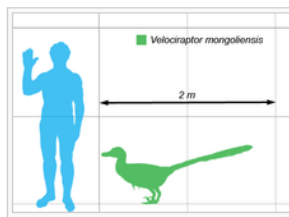
Bipedal herbivore – Triassic (215-200 MYA) in Europe, very small head



Order Saurischia (Lizard-hipped)

72. Genus *Velociraptor*

Latest Cretaceous (75-70 MY), small “Jurassic Park” predators, but should have had feathers

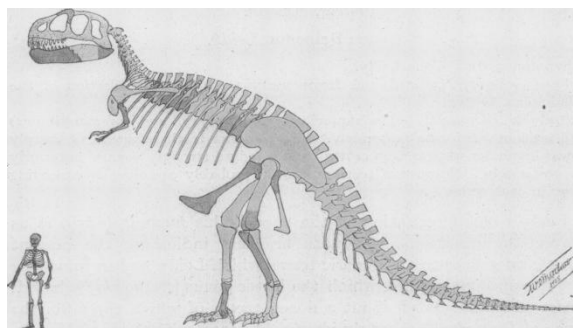


Clade Dinosauria (pg. 3 of 4)

Order Saurischia (Lizard-hipped)

73. Genus *Tyrannosaurus*

Very late Cretaceous North American (70-65 MY) Carnivore, bipedal _____



Order Ornithischia (bird-hipped)

74. Genus *Iguanodon*

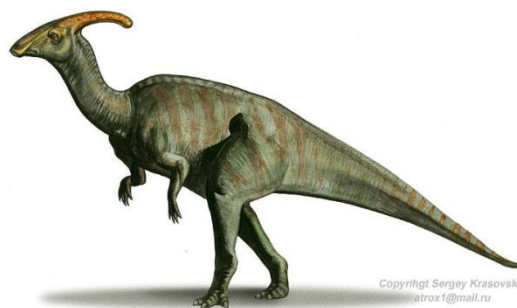
Bulky herbivores that were both bipedal and quadrupedal Early Cretaceous ~120 MY, in Europe) _____



Order Ornithischia (bird-hipped)

75. Genus *Parasaurolophus*

Late Cretaceous (75-70 MY) herbivore, unusual "cranial crest", perhaps to balance the head? _____



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Clade Dinosauria (pg. 4 of 4)

Order Ornithischia (bird-hipped)

Note the pubis pointing toward the tail

76. Genus *Stegosaurus*

Herbivorous quadruped, "armored", Late Jurassic (155-150 MY) both North America and Europe



Order Ornithischia (bird-hipped)

77. Genus *Triceratops*

"three horned face". Very last of non-avian dinosaurs, latest Cretaceous, herbivore, quadruped

