THE SKULL
THE SKULL

Concepts in Skull Development
THE SKULL

Concepts in Skull Development

Chondrocranium
THE SKULL

Concepts in Skull Development

Splanchnocranium
THE SKULL

Concepts in Skull Development

Dermatocranium
THE SKULL

Morphogenesis of Cranial Bones

Blastemal cranium

Chondrocranium/cartilaginous neurocranium
Morphogenesis of Cranial Bones

- Blastemal cranium
- Dermatocranium/membranous neurocranium
THE SKULL

Morphogenesis of Cranial Bones

Blastemal cranium

Splanchnocranium/viscerocranium

Cartilaginous splanchnocranium
THE SKULL

Morphogenesis of Cranial Bones

Blastemal cranium

Splanchnocranium/viscerocranium

Membranous splanchnocranium
THE SKULL

Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium
Endochondral bones support nervous tissue
Parachordal cartilages or basal plate
THE SKULL

Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium
Endochondral bones support nervous tissue
Hypophysial cartilage
Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium
Endochondral bones support nervous tissue
Trabeculae cranii or prechordal cartilages
THE SKULL

Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium
Endochondral bones support nervous tissue

Nasal capsule
THE SKULL

Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium

Endochondral bones support nervous tissue

Ala orbitalis and ala temporalis
Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium
Endochondral bones support nervous tissue

Otic capsules
Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium

Ossification of the chondrocranium

Bone centers

Synostosis

Sutures
Morphogenesis of Cranial Bones

Chondrocranium/cartilaginous neurocranium
Ossification of the chondrocranium
Bone centers
Synostosis
Sutures
THE SKULL

Morphogenesis of Cranial Bones

Dermatocranium/membranous neurocranium
Dermal or intramembranous bones
Formation of calvarium
THE SKULL

Morphogenesis of Cranial Bones

Dermatocranium/membranous neurocranium
Fontanelles and sutures
THE SKULL

Morphogenesis of Cranial Bones

Splanchnocranium/viscerocranium
Cartilaginous splanchnocranium/viscerocranium
**THE SKULL**

**Morphogenesis of Cranial Bones**

Splanchnocranium/viscerocranium

Membranous splanchnocranium/viscerocranium
THE SKULL
Review
THE SKULL

Review
THE SKULL

Review
THE SKULL

Review
THE SKULL
Review
THE SKULL

Review
THE SKULL

Review