



# PHYLOGENETIC DISORDERS OF S

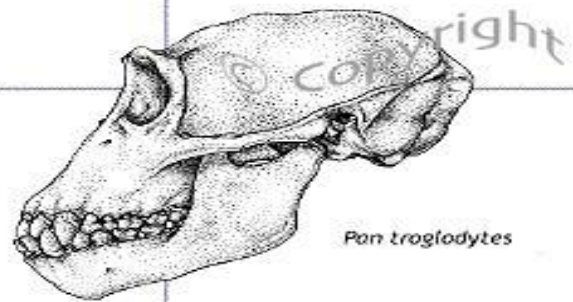


**Name- Hina Rastogi**  
**Subject- Medical Biology**  
**Supervisor- Anna Zhokova**  
**Mam**

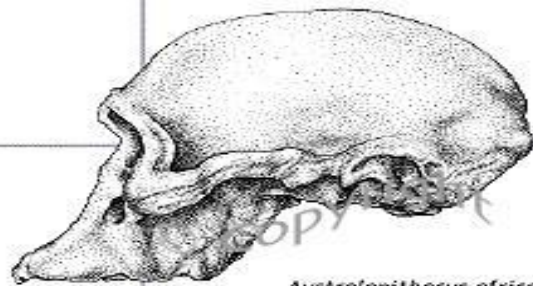
# INTRODUCTI

## ON

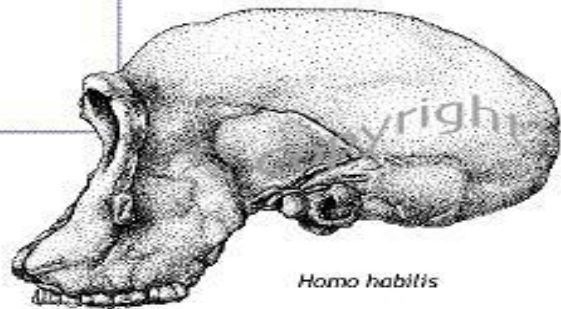
Phylogenesis is the evolutionary development and diversification of a species or group of organisms, or of a particular feature of an organism.



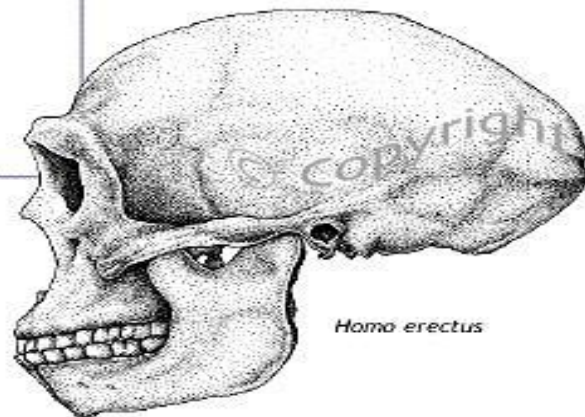
*Pan troglodytes*



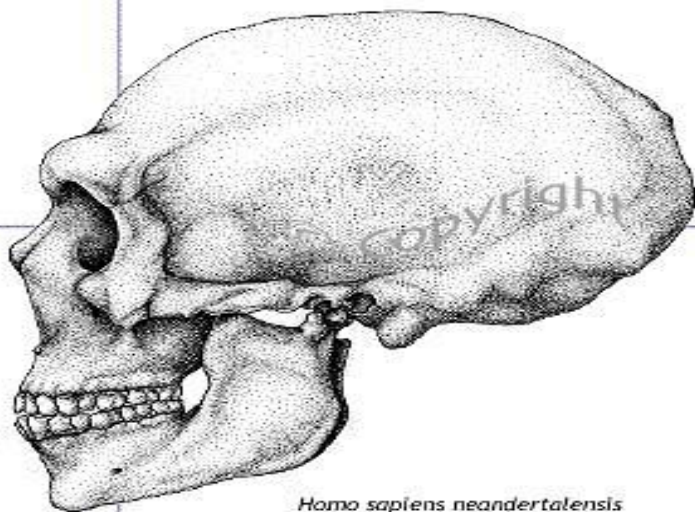
*Australopithecus africanus*



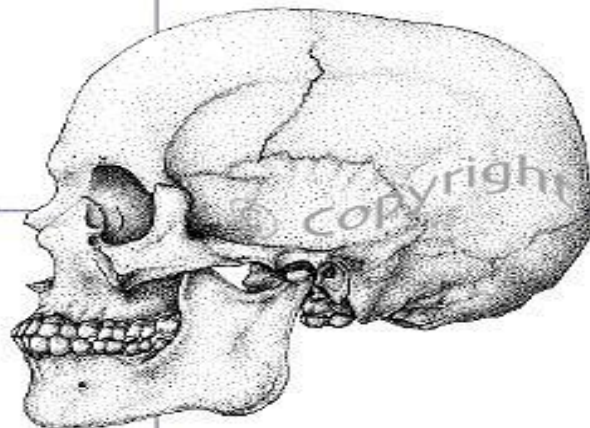
*Homo habilis*



*Homo erectus*



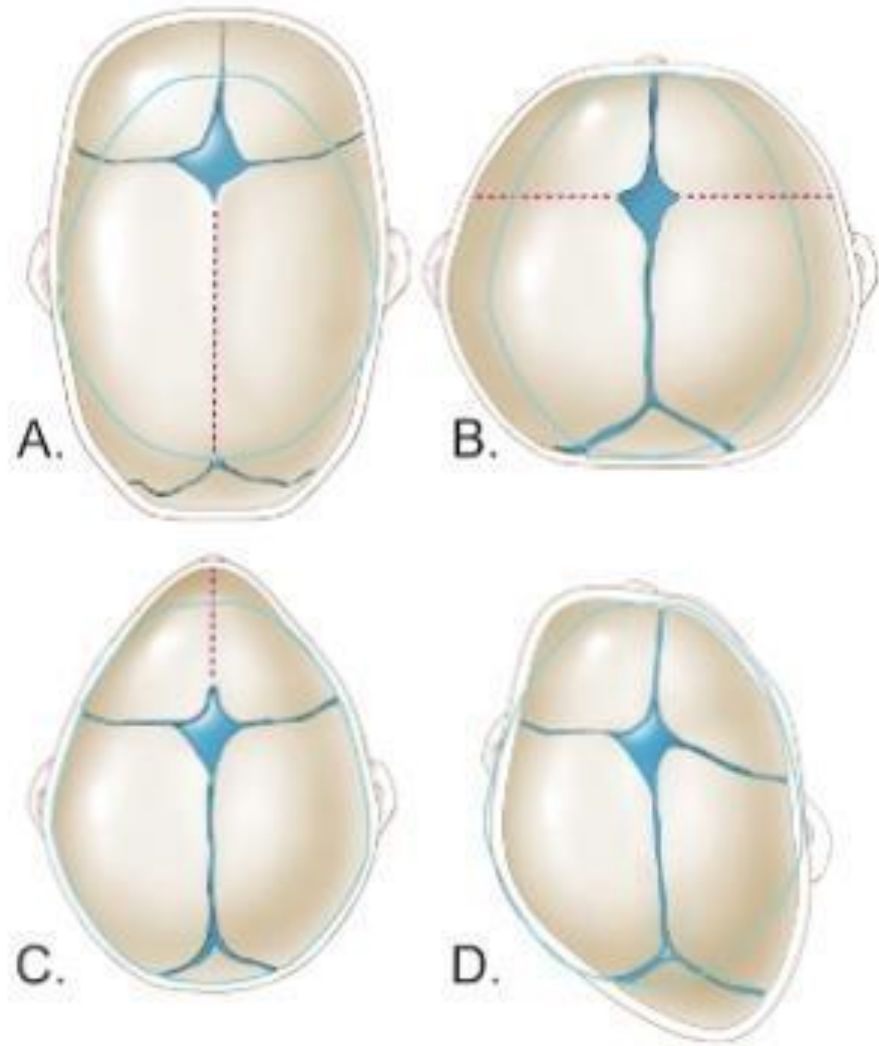
*Homo sapiens neanderthalensis*



*Homo sapiens sapiens*

# Phylogenetic Disorders Of skull cranosynost

**Craniosynostosis** is a congenital deformity of the infant skull in which the bones in a baby's skull join together too early. This happens before the baby's brain is fully formed. As the baby's brain grows, the skull can become more misshapen. The spaces between a typical baby's skull bones are filled with flexible material and called sutures.



re 1

Can craniosynostosis cause brain damage?  
If craniosynostosis not corrected, it can create pressure inside the skull (intracranial pressure). That pressure can lead to development problems, or to permanent brain damage. If not treated, most forms of craniosynostosis can have very serious results, including death.

# Cleft Palate

Cleft palate occurs when the roof of the mouth contains an opening into the nose. These disorders can result in feeding problems, speech problems, hearing problems, and frequent ear infections. Less than



# Paget's

disease of bone  
Paget's disease of bone interferes with your body's normal recycling process, in which new bone tissue gradually replaces old bone tissue. Over time, the disease can cause affected bones to become fragile and misshapen. Paget's disease of bone most commonly occurs in the pelvis, skull, spine and legs.





**How is Paget's disease diagnosed and treated?**

**Tests used to diagnose Paget's disease include X-rays, blood tests, and bone scanning.**

**Medical treatment options include aspirin, other anti-inflammatory medications, pain medications, and medications that slow the rate of bone turnover, decreasing the activity of Paget's disease.**

## Positional plagiocephaly

The bones that make up a baby's skull are thin and flexible. Constant pressure in one area of the skull can change the skull's shape. This condition is called positional plagiocephaly (skull molding) and is one of the most common forms of abnormal head shapes. Babies with plagiocephaly often have noticeable flatness on the back or sides of their head, and there is typically little hair in those areas.

## NORMAL SKULL (TOP VIEW)



Normal skull shape



## POSITIONAL FLATTENING

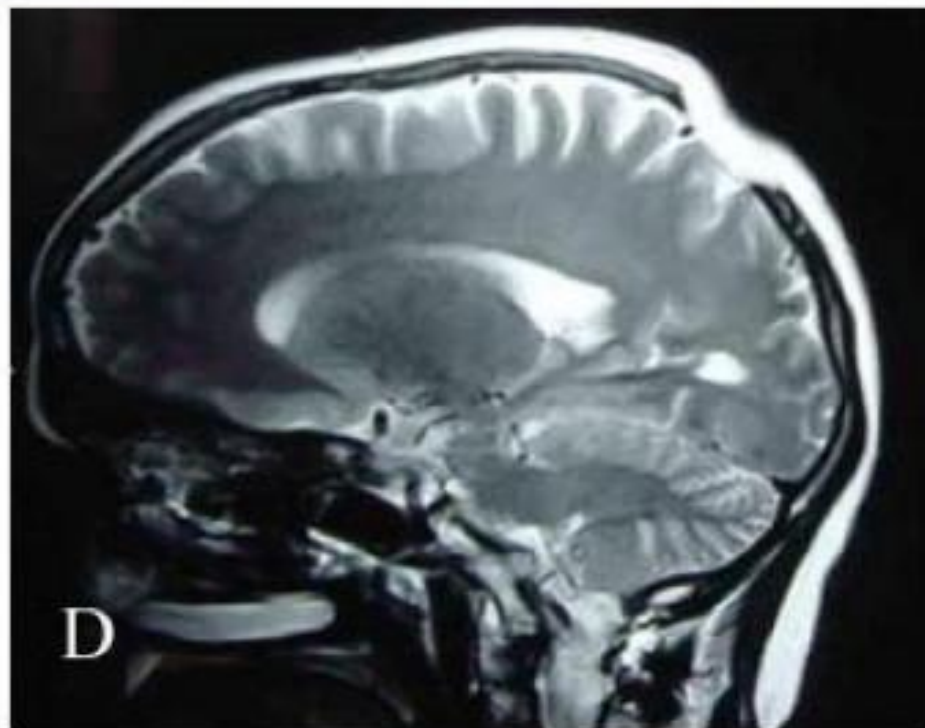
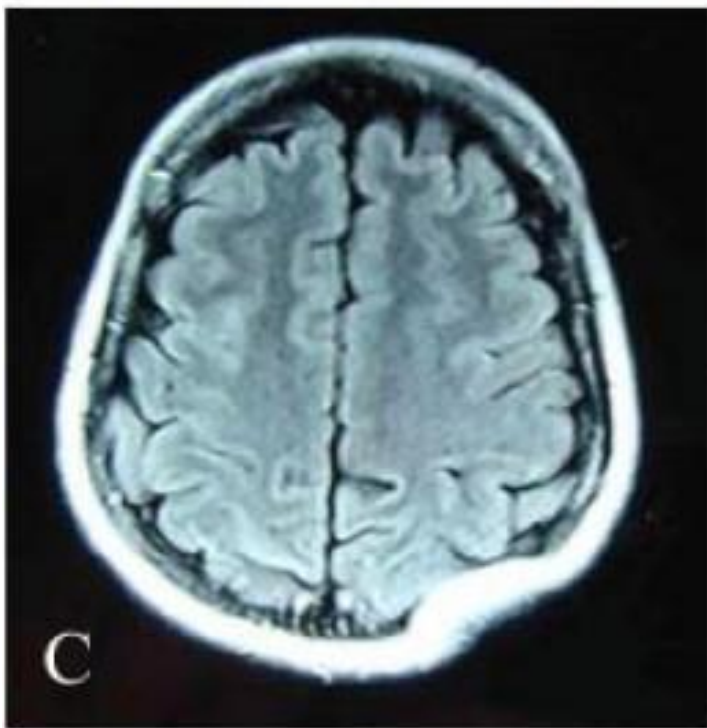
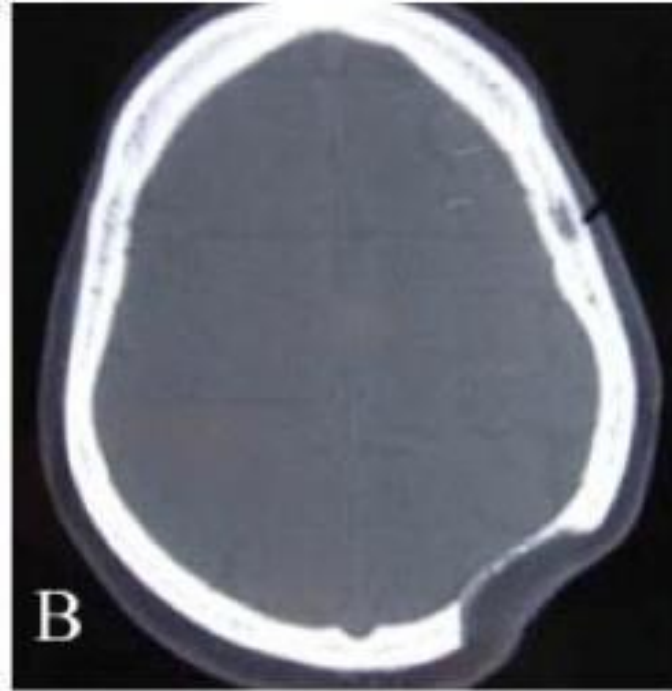
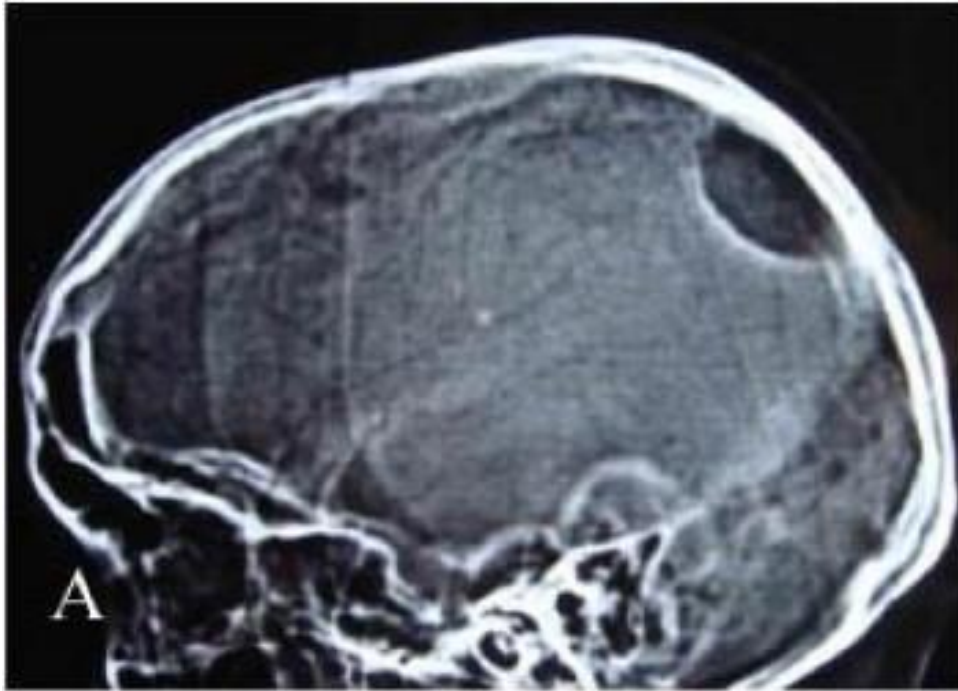


Distorted skull shape



## Gorham's disease

Gorham's disease (pronounced GOR-amz), also known as Gorham vanishing bone disease and phantom bone disease, is a very rare skeletal condition of unknown cause, characterized by the uncontrolled proliferation of distended, thin-walled vascular or lymphatic channels within bone which leads to



*Thank  
you*

