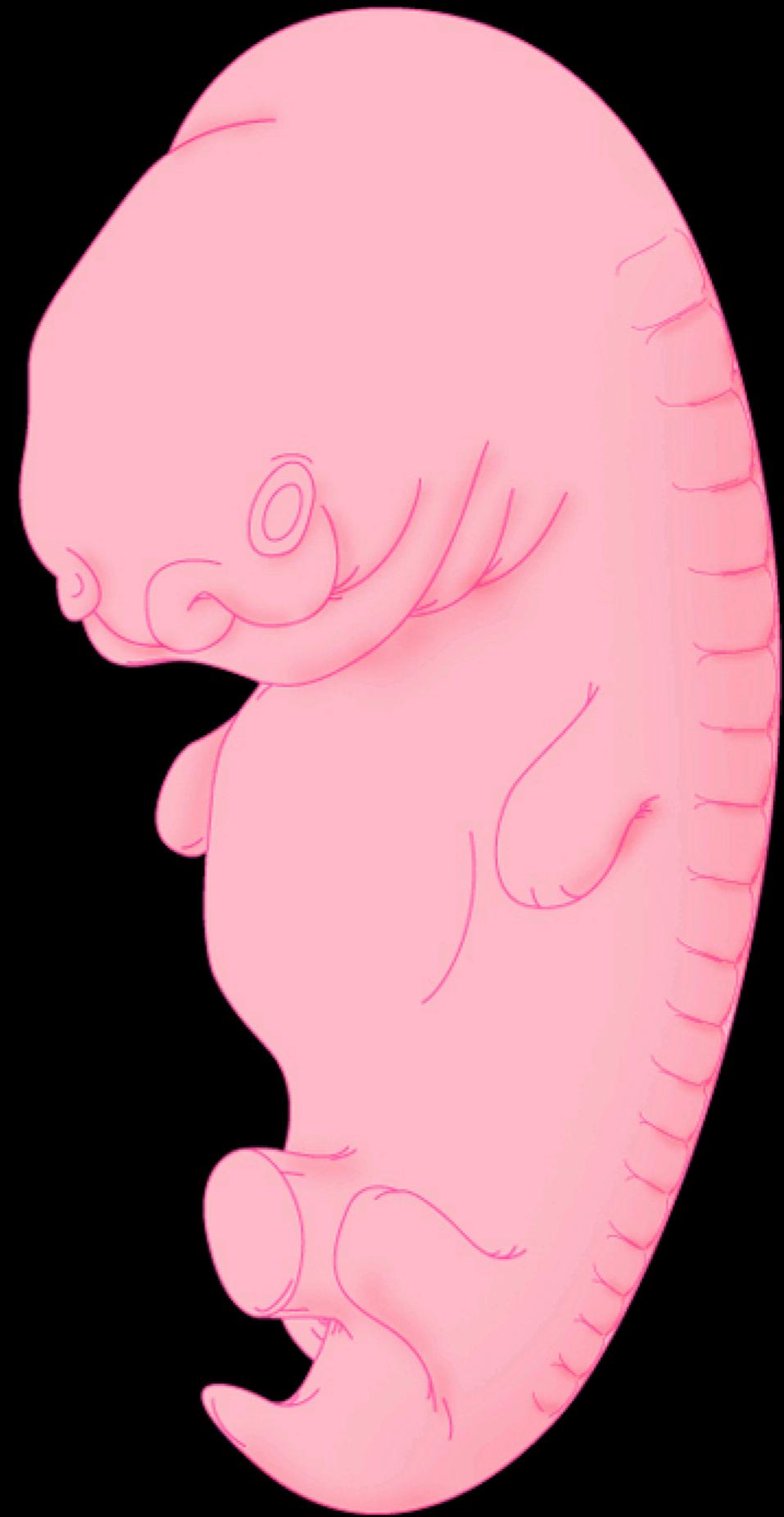


# Head and Neck



# **Head and Neck**

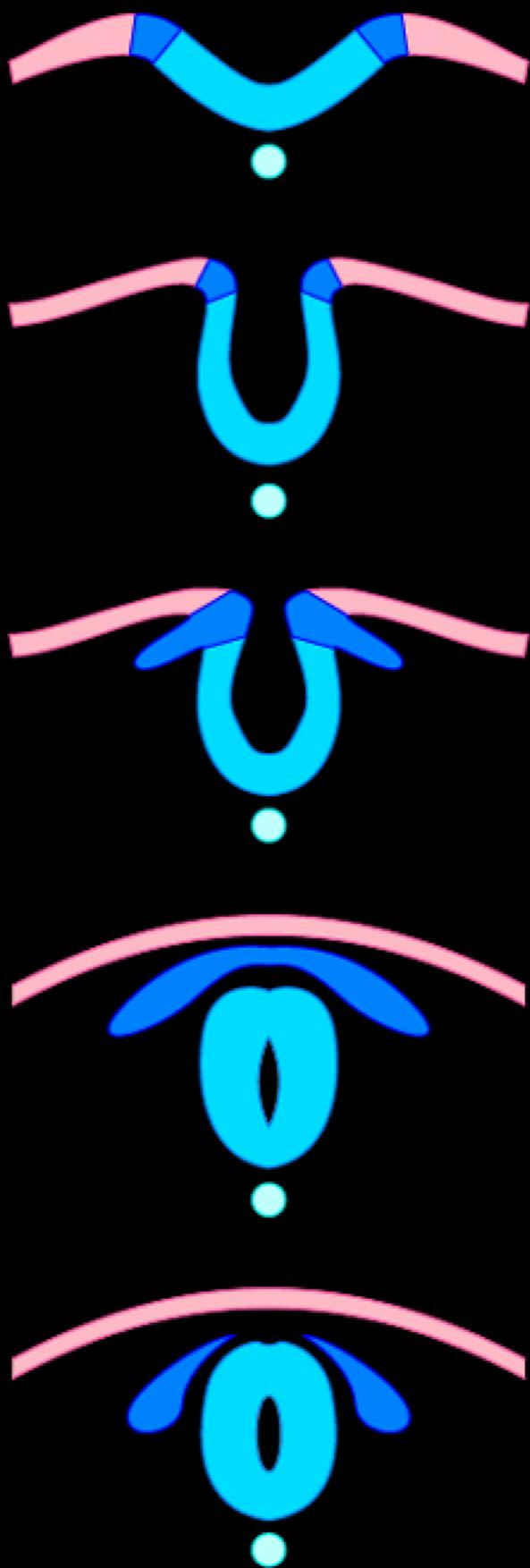
Patterns of Organization in the Head

## **Theme One**

Formation of neural tube

Neural tube

Neural crest

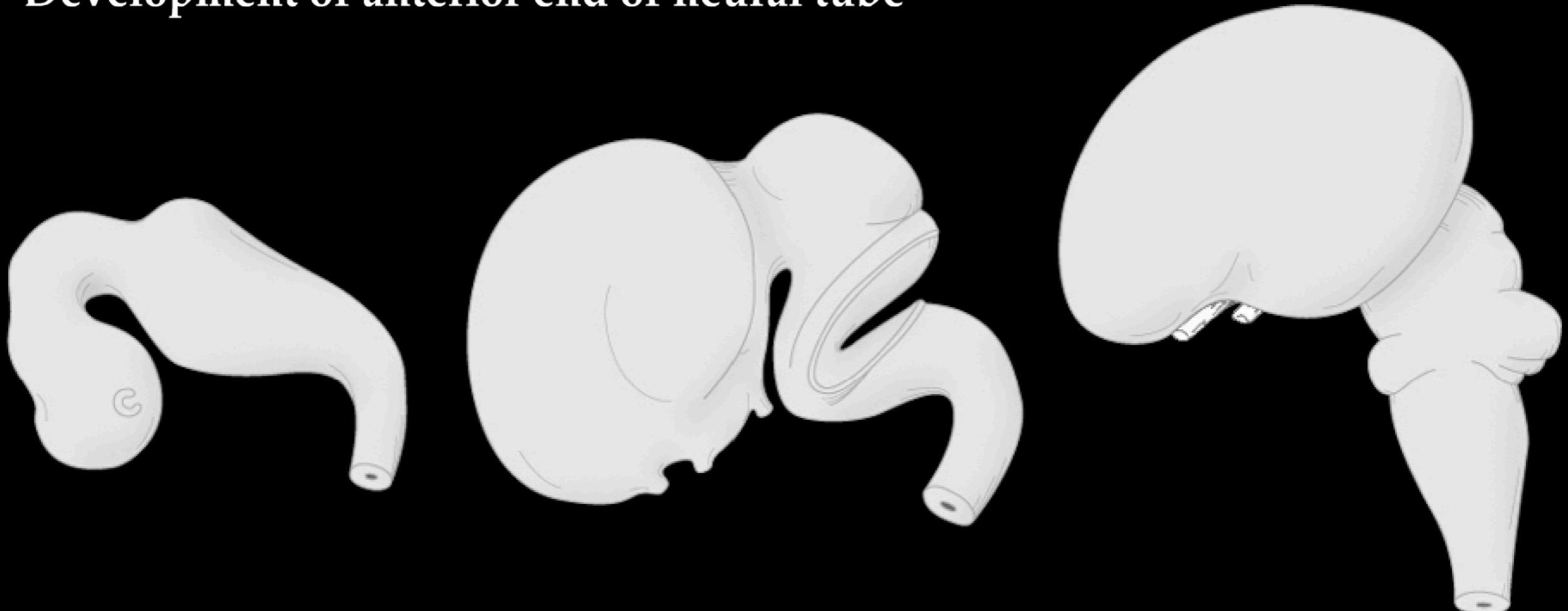


# **Head and Neck**

Patterns of Organization in the Head

## **Theme One**

Development of anterior end of neural tube

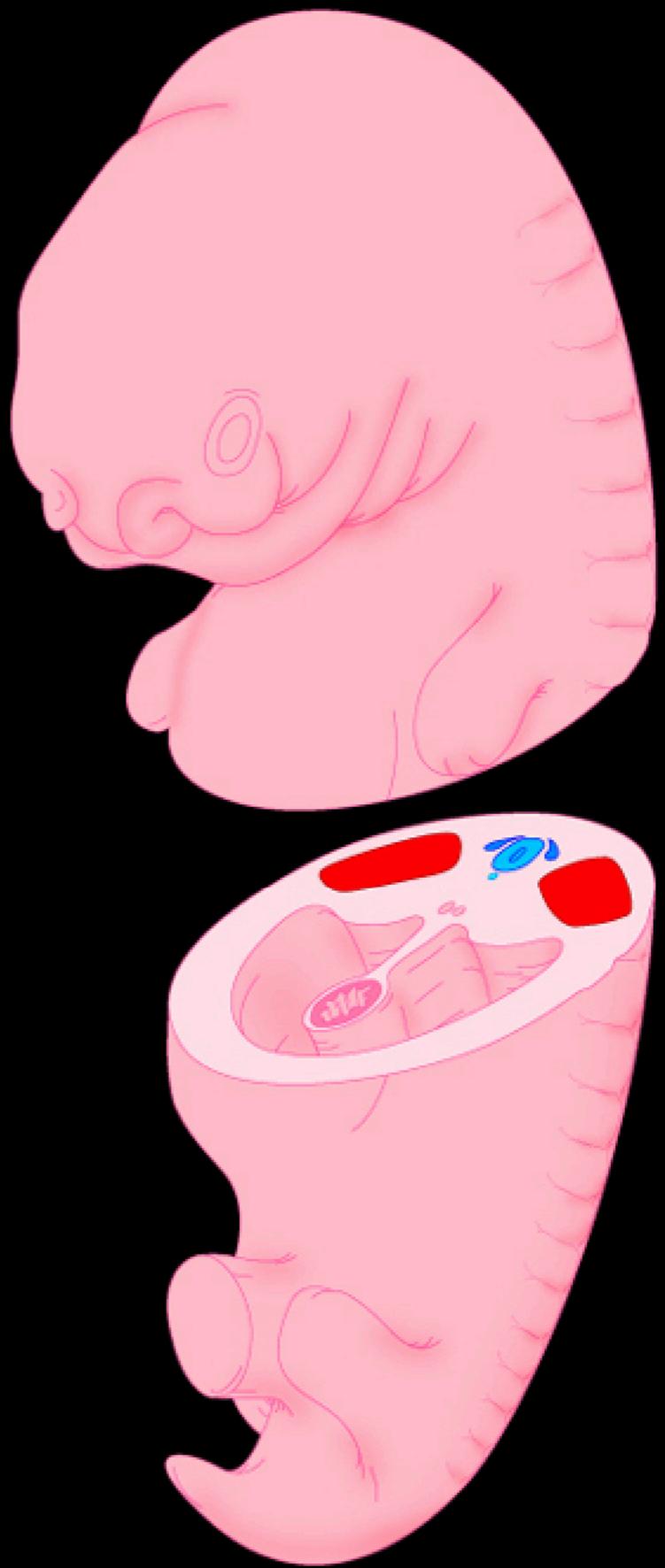


# Head and Neck

Patterns of Organization in the Head

## Theme Two

Review of the somite



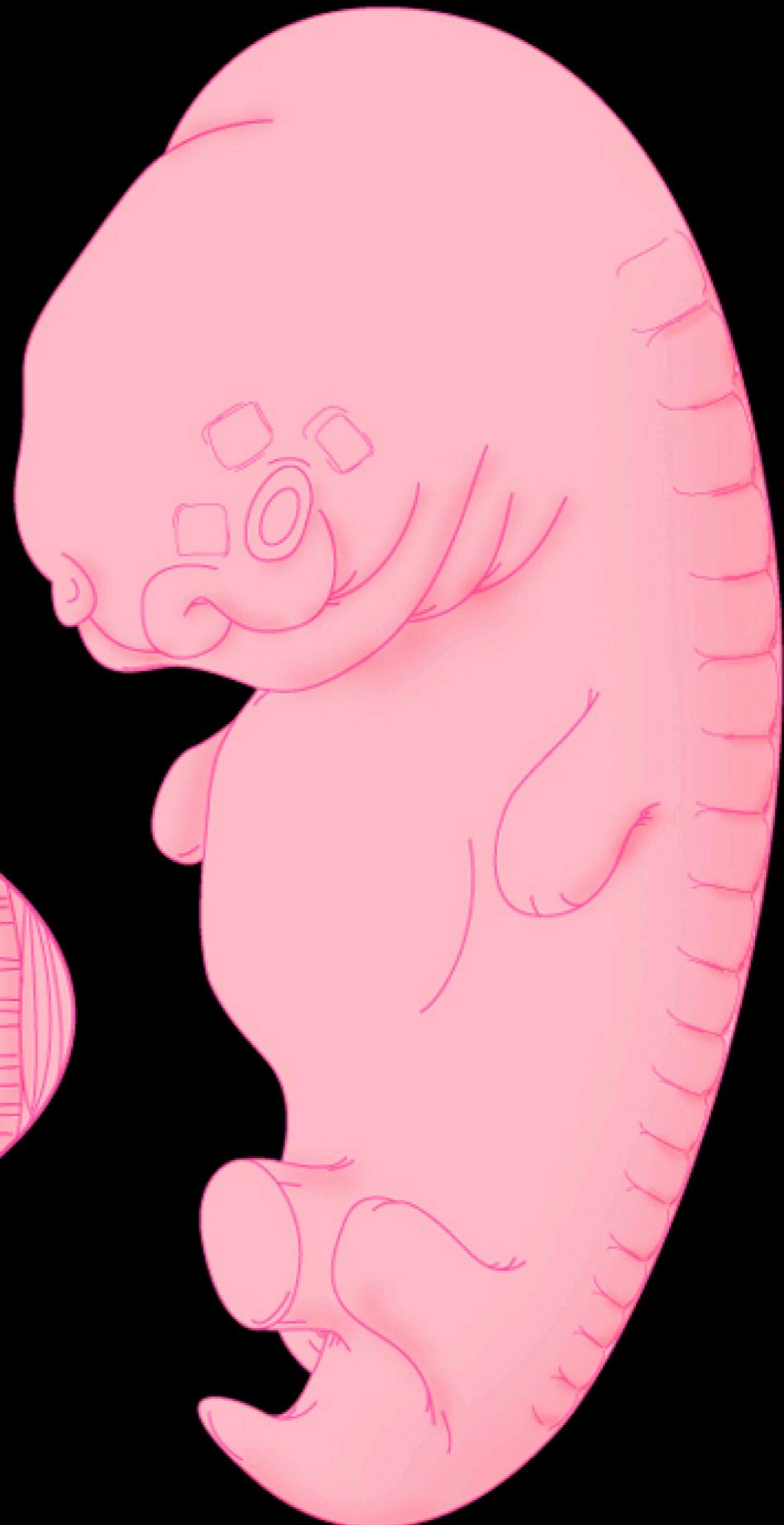
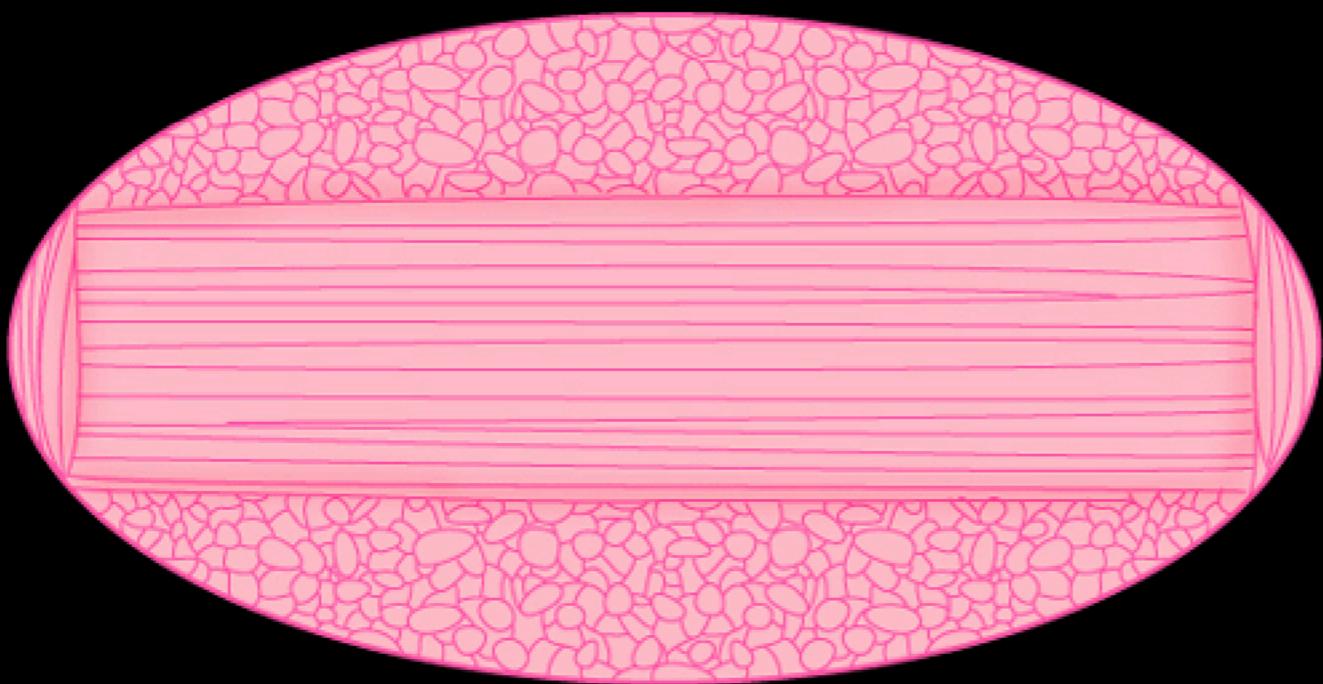
# Head and Neck

Patterns of Organization in the Head

## Theme Two

Occipital somites

Tongue muscles



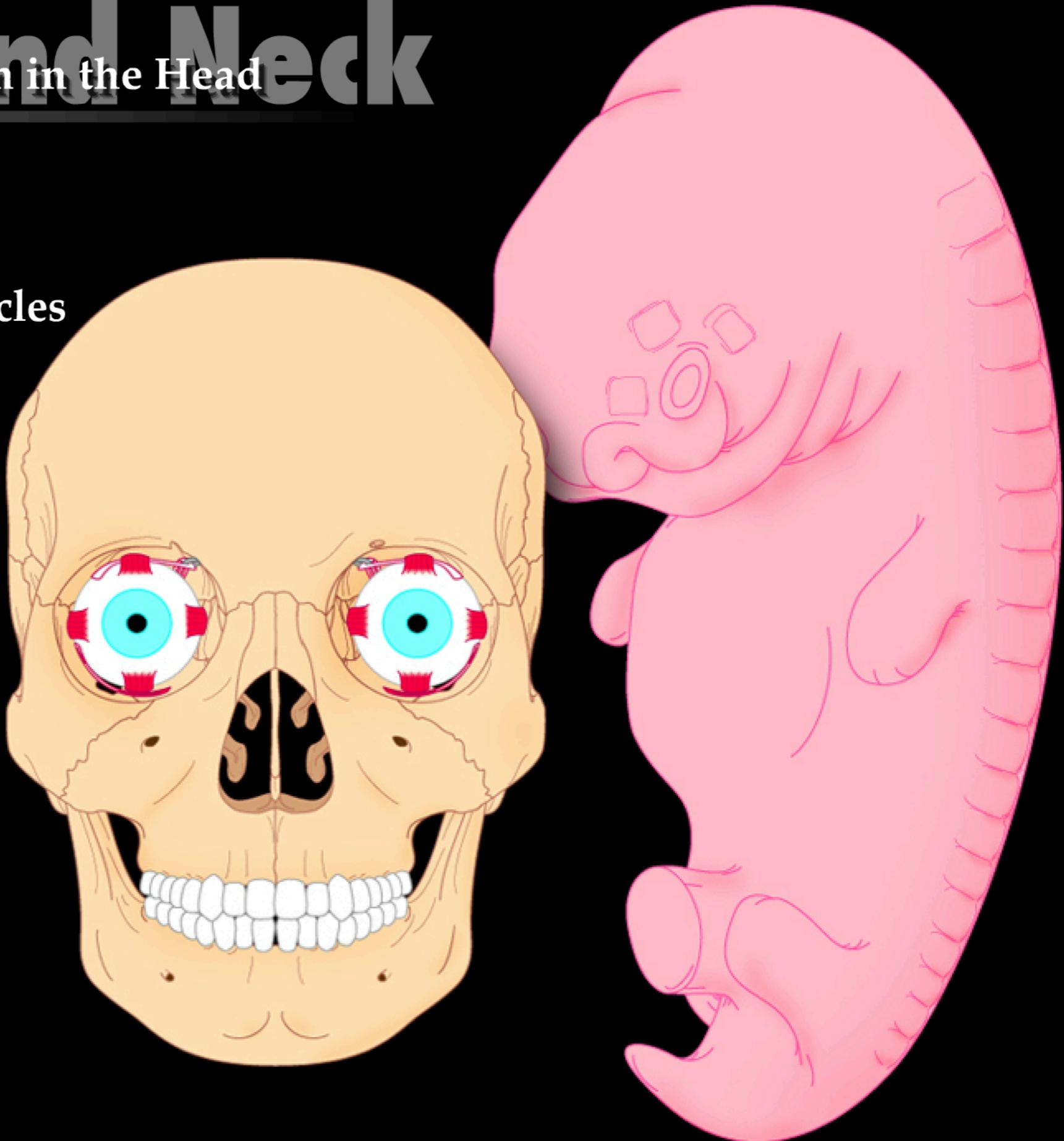
# Head and Neck

Patterns of Organization in the Head

## Theme Two

Pre-otic somites

Extrinsic eye muscles

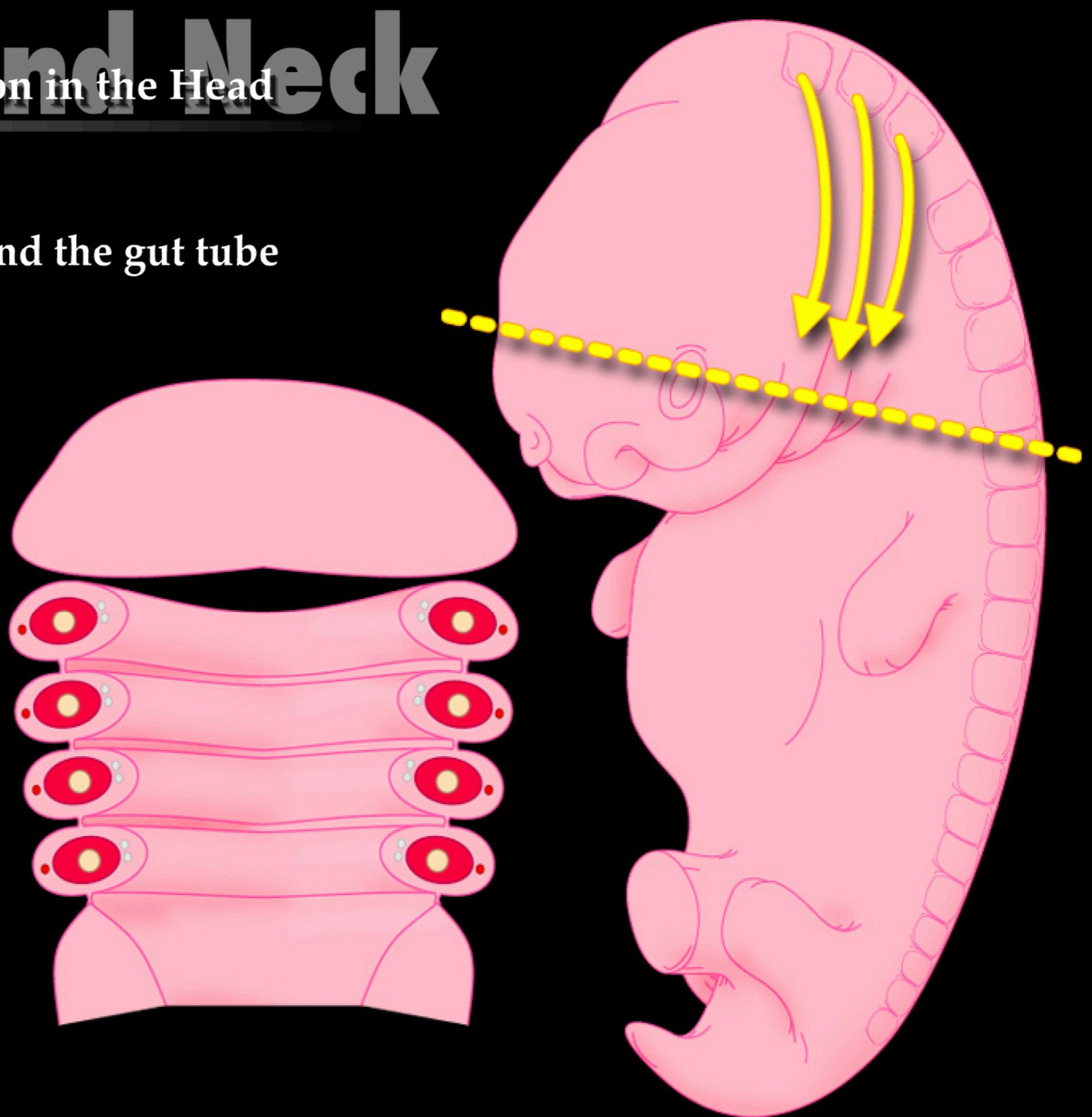


# Head and Neck

Patterns of Organization in the Head

## Theme Three

Branchial arches and the gut tube

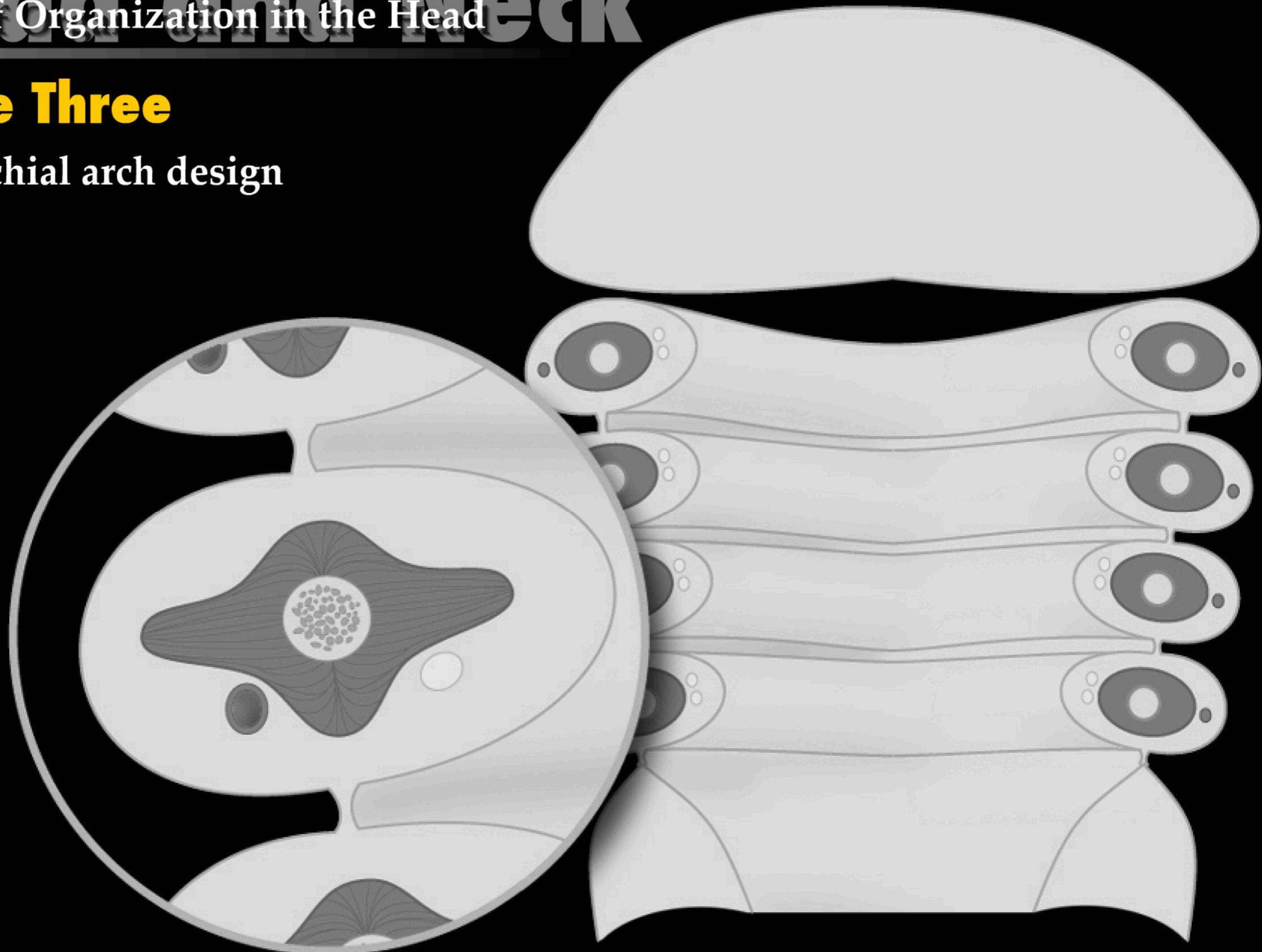


# Head and Neck

Patterns of Organization in the Head

## Theme Three

Branchial arch design



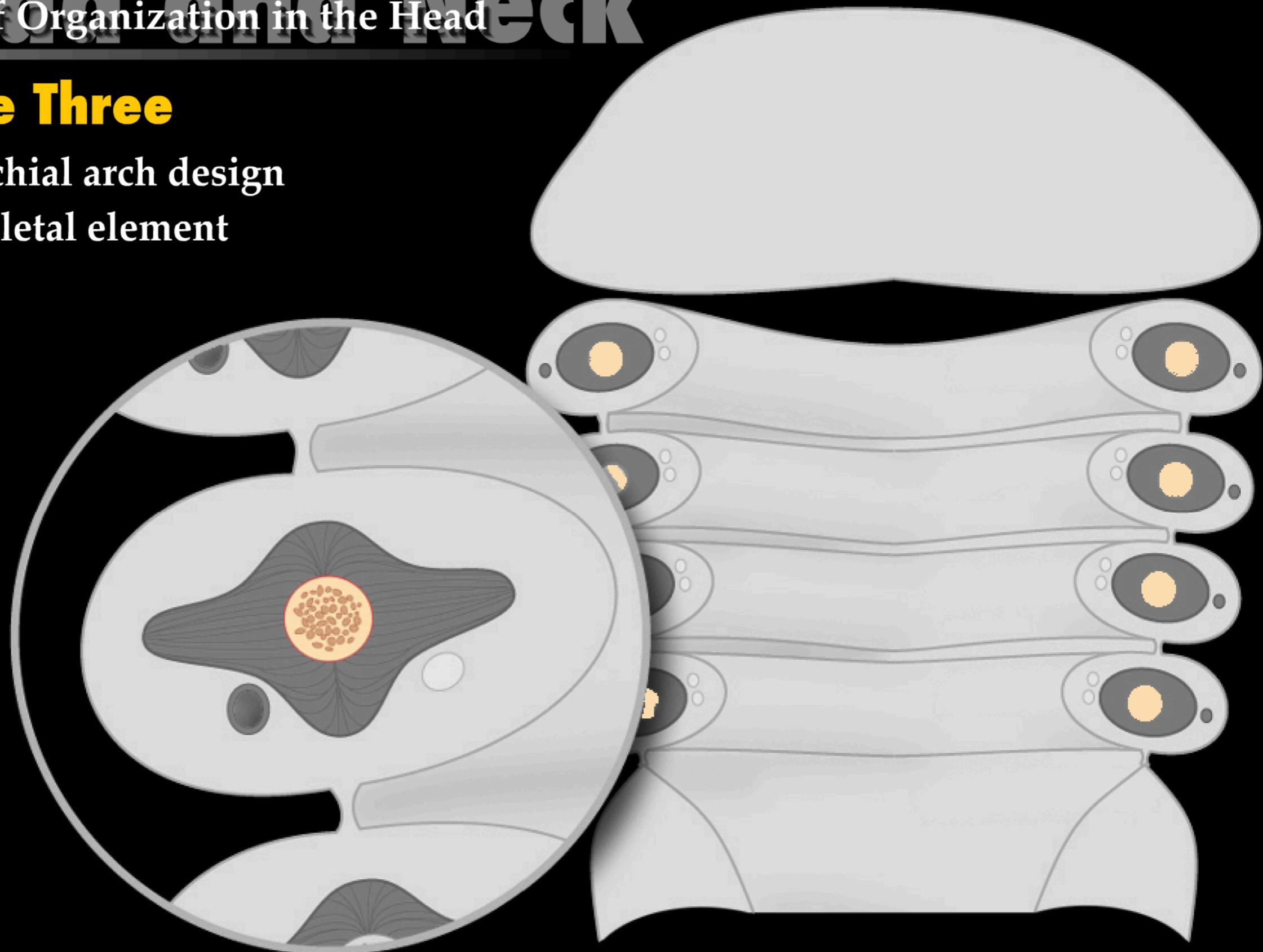
# Head and Neck

Patterns of Organization in the Head

## Theme Three

Branchial arch design

Skeletal element



# Head and Neck

Patterns of Organization in the Head

## Theme Three

Branchial arch design

Muscle



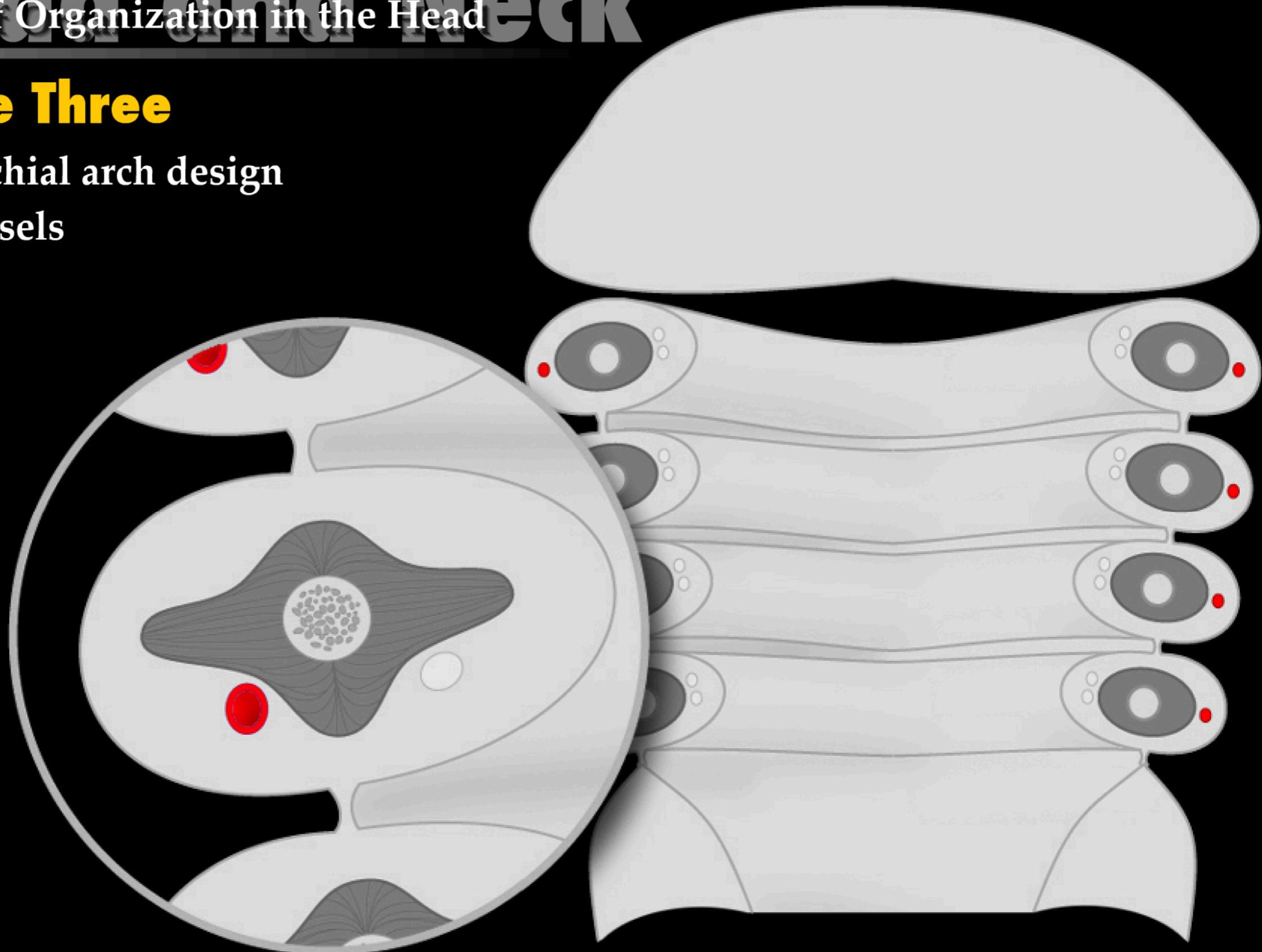
# Head and Neck

Patterns of Organization in the Head

## Theme Three

Branchial arch design

Vessels



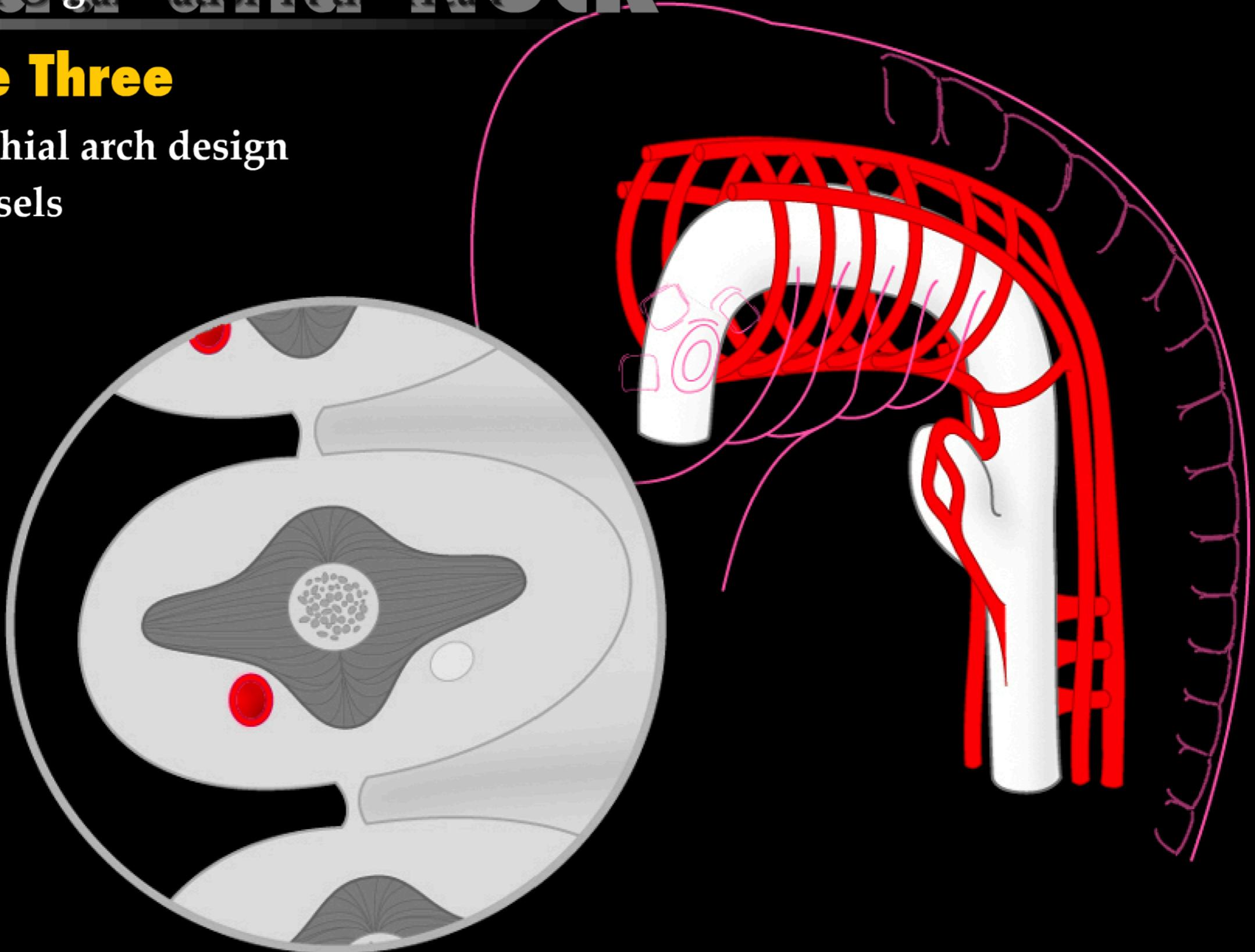
# Head and Neck

Patterns of Organization in the Head

## Theme Three

Branchial arch design

Vessels



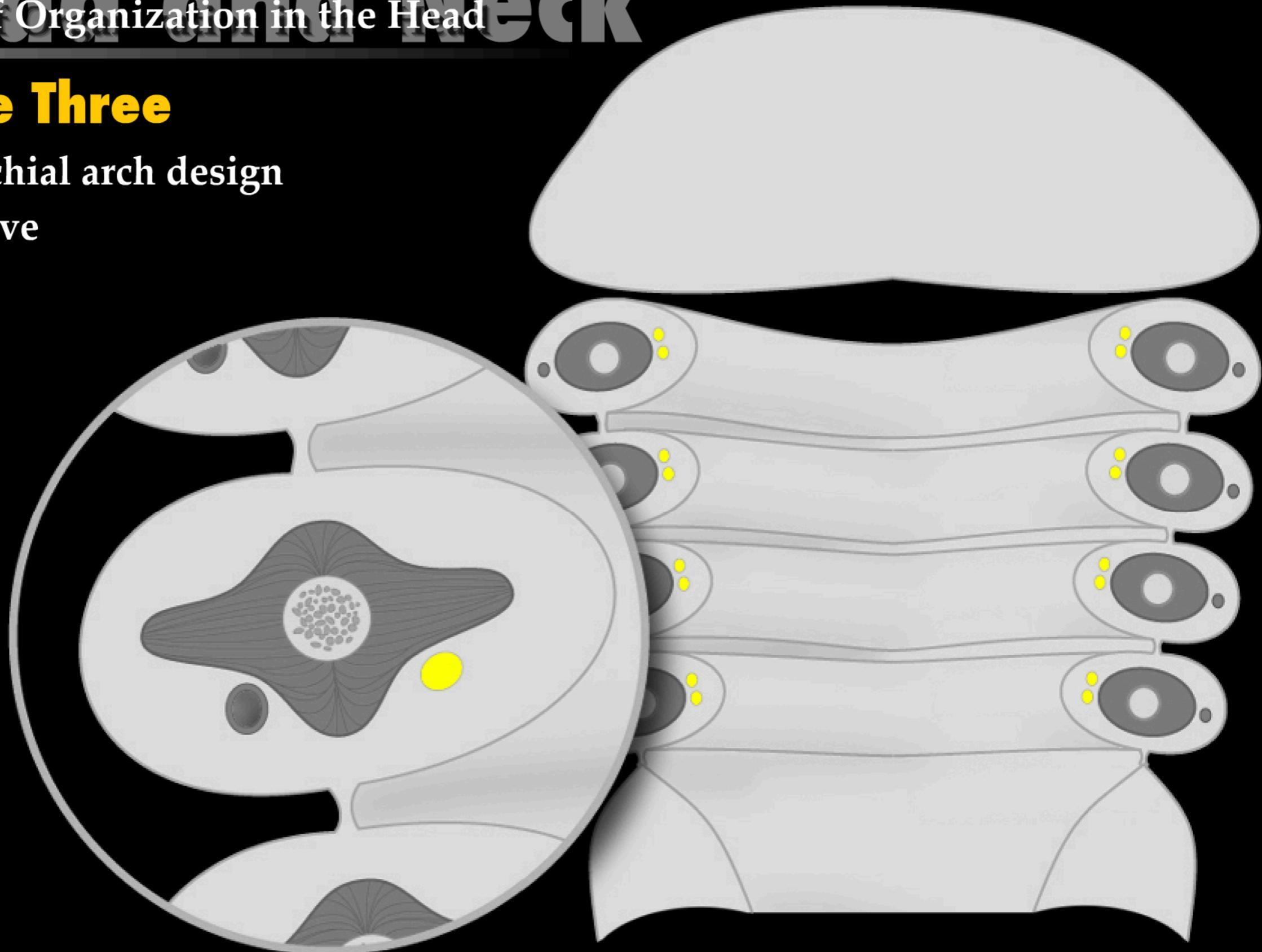
# Head and Neck

Patterns of Organization in the Head

## Theme Three

Branchial arch design

Nerve



# Head and Neck

Patterns of Organization in the Head

## Human Branchial Arch Derivatives

What arises from each arch?

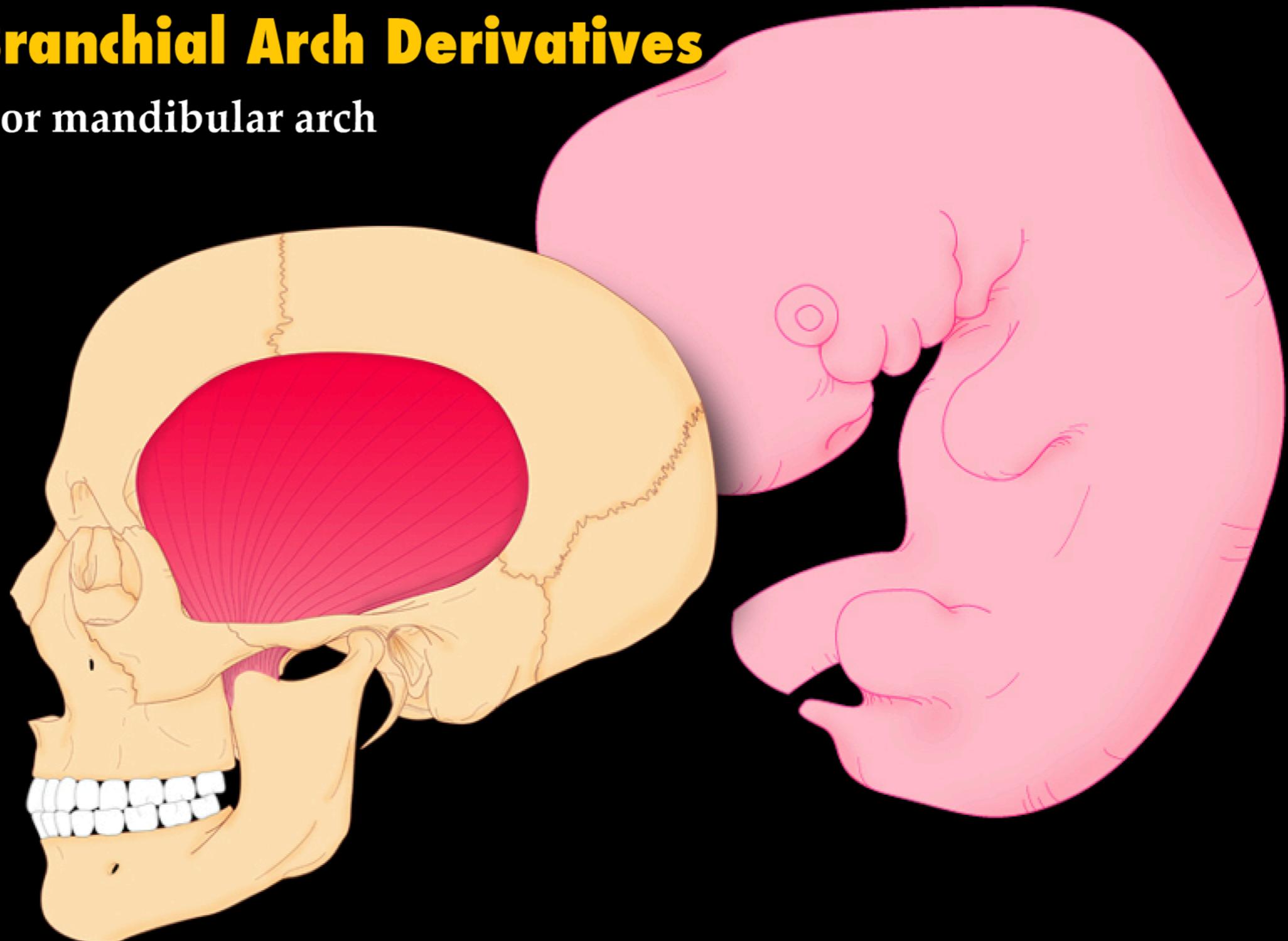


# Head and Neck

Patterns of Organization in the Head

## Human Branchial Arch Derivatives

First arch or mandibular arch

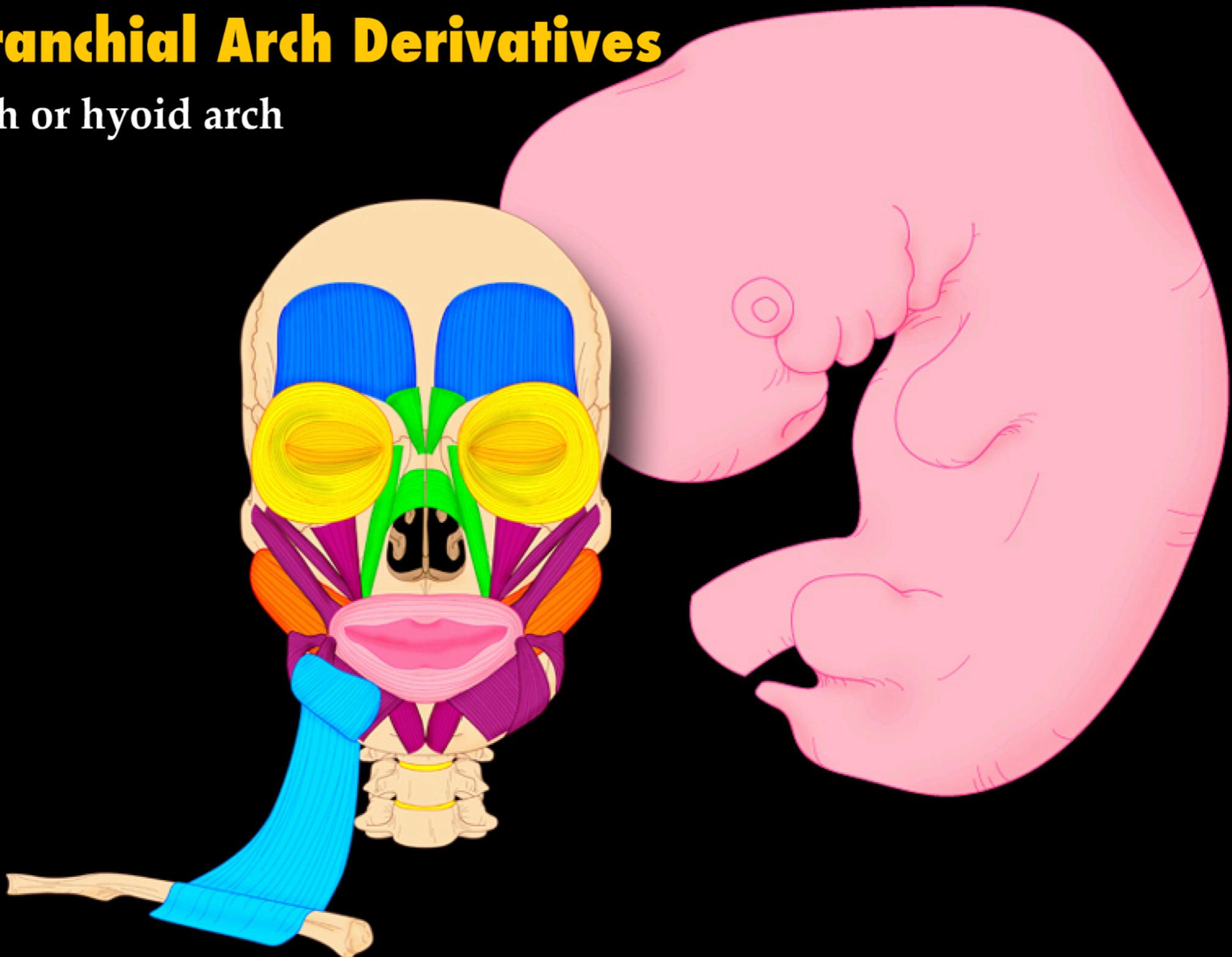


# Head and Neck

Patterns of Organization in the Head

## Human Branchial Arch Derivatives

Second arch or hyoid arch

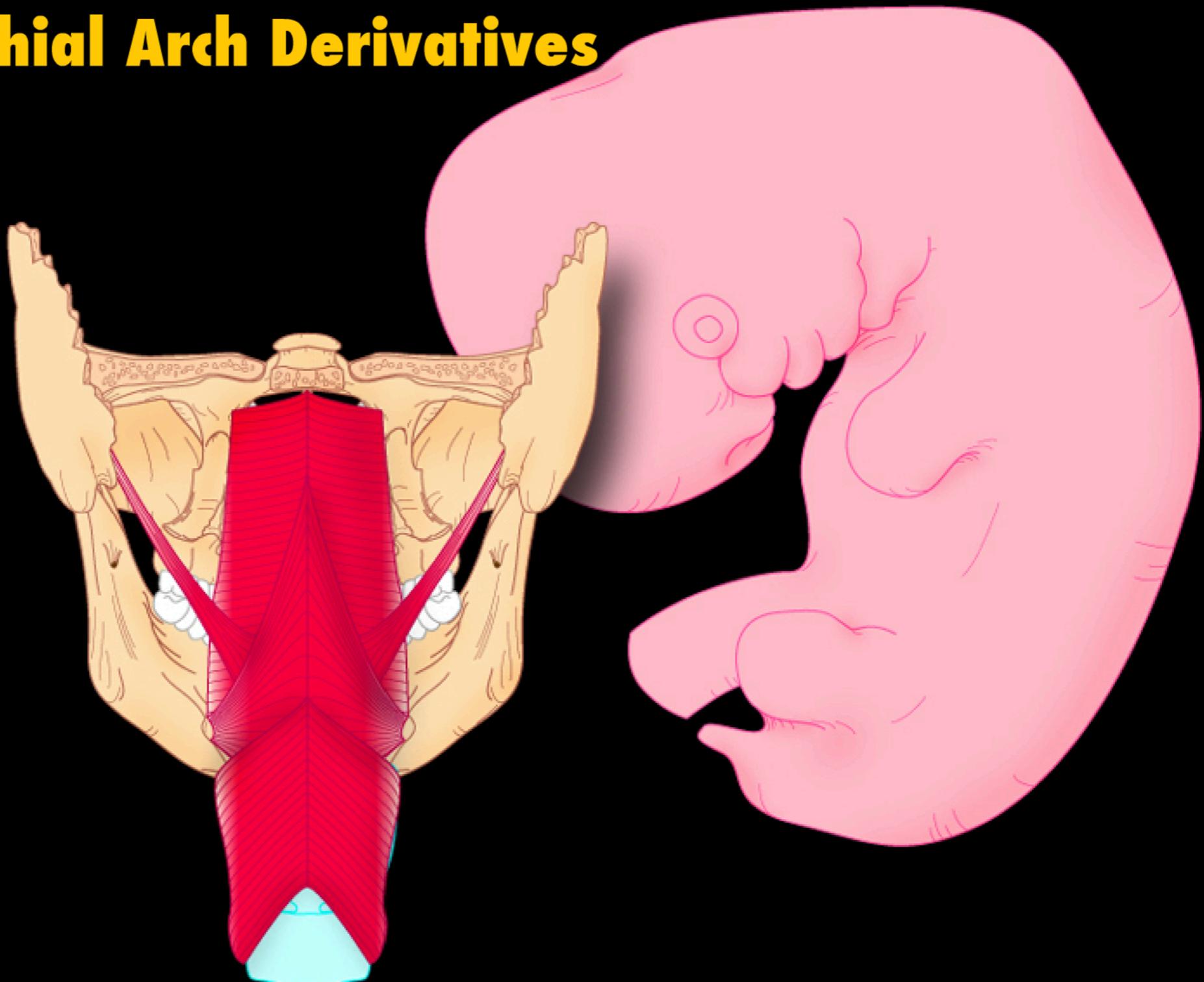


# Head and Neck

Patterns of Organization in the Head

## Human Branchial Arch Derivatives

Third arch

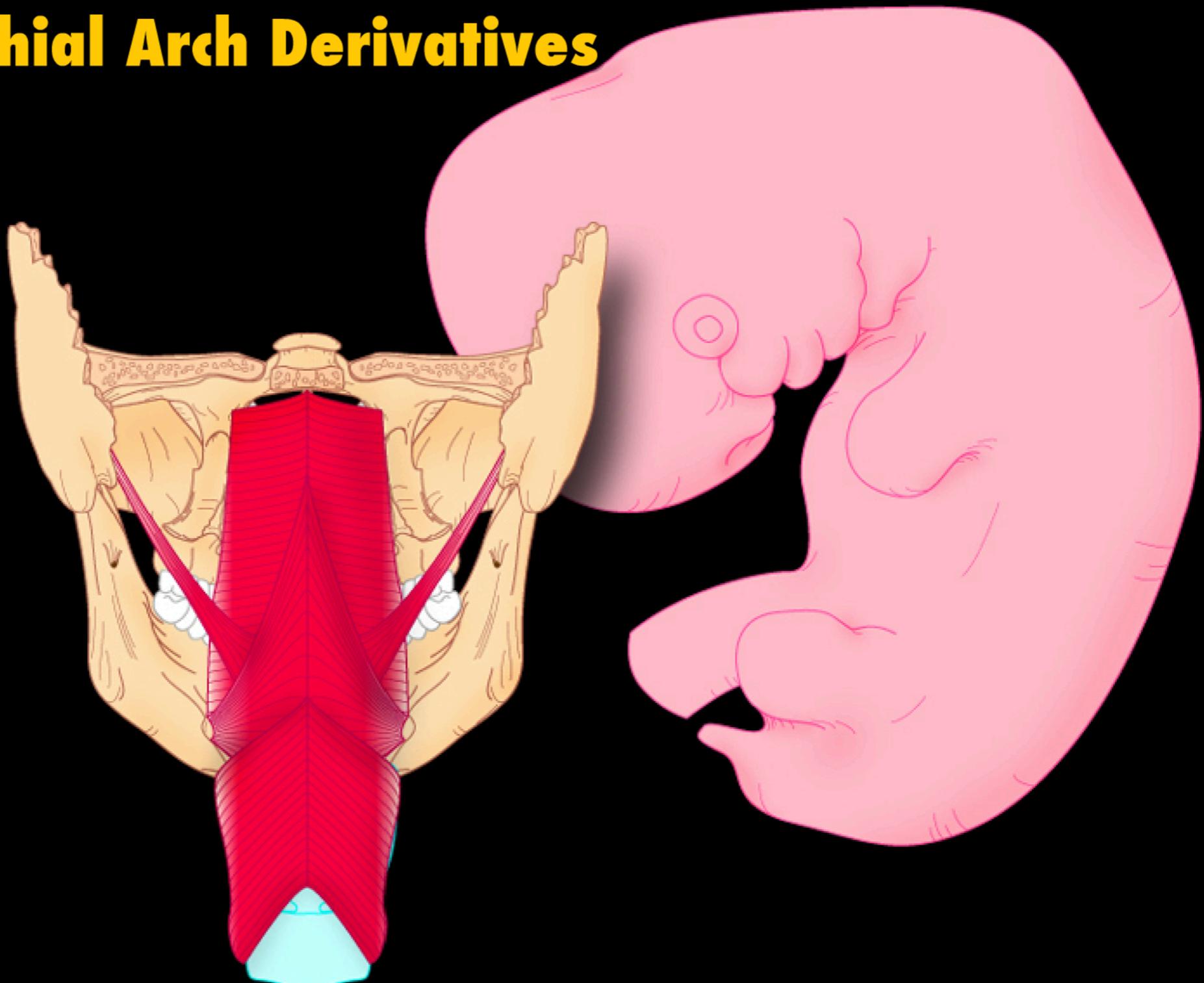


# Head and Neck

Patterns of Organization in the Head

## Human Branchial Arch Derivatives

Fourth arch

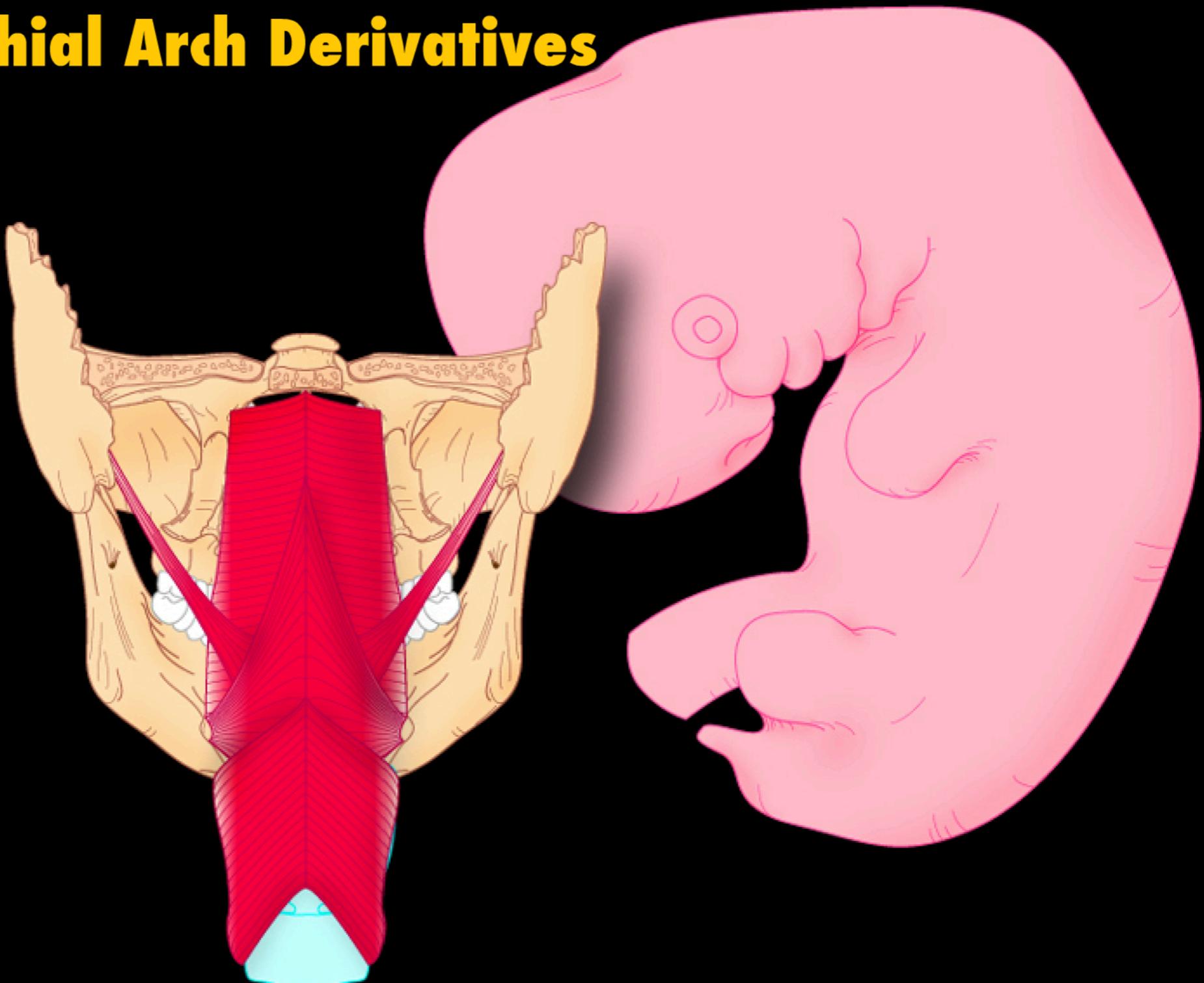


# Head and Neck

Patterns of Organization in the Head

## Human Branchial Arch Derivatives

Sixth arch

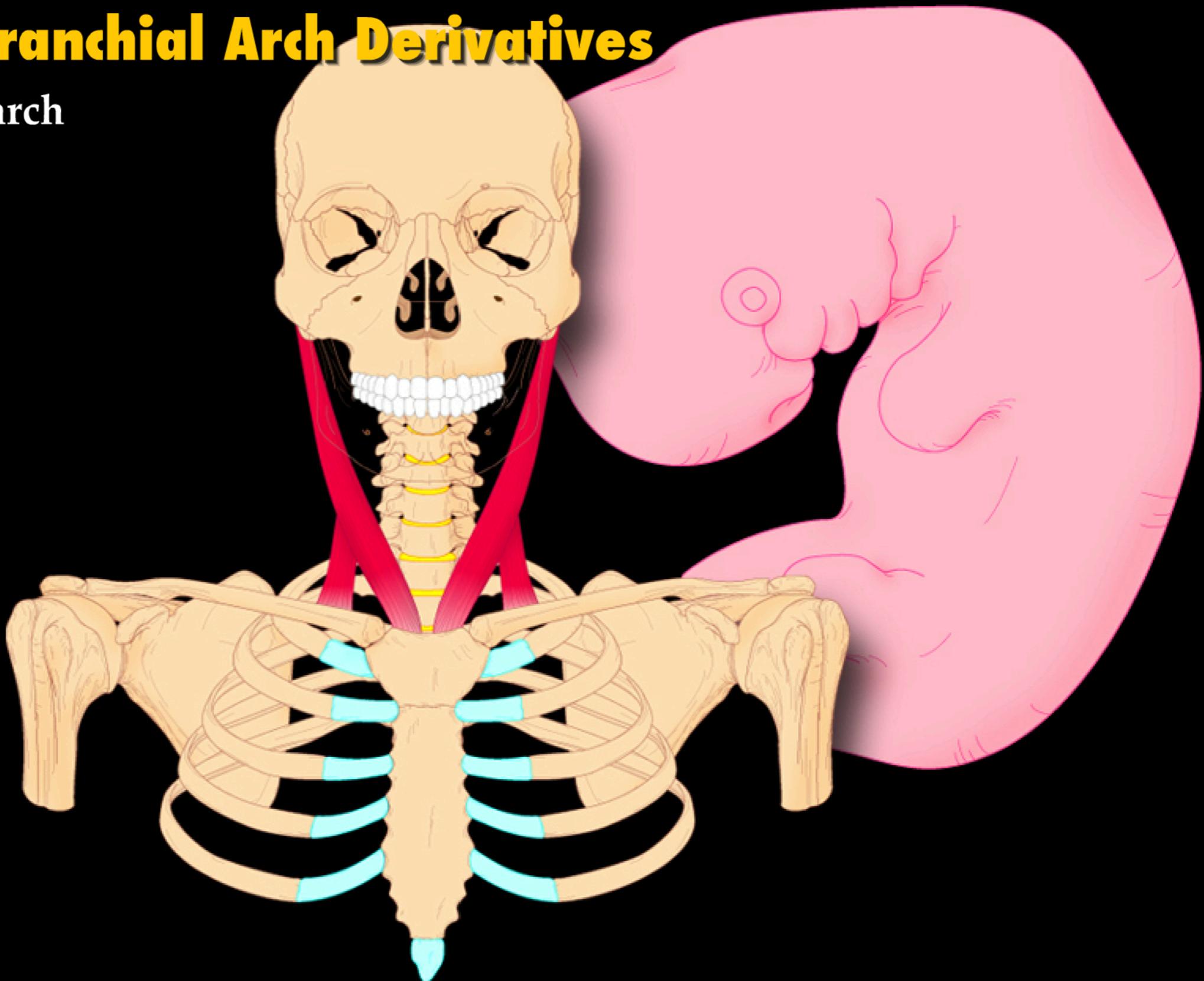


# Head and Neck

Patterns of Organization in the Head

## Human Branchial Arch Derivatives

Posterior arch



# Head and Neck

Review of Neck Design

## Thinking About the Neck

What is the neck?

Body wall of the neck

Relationship to the head

