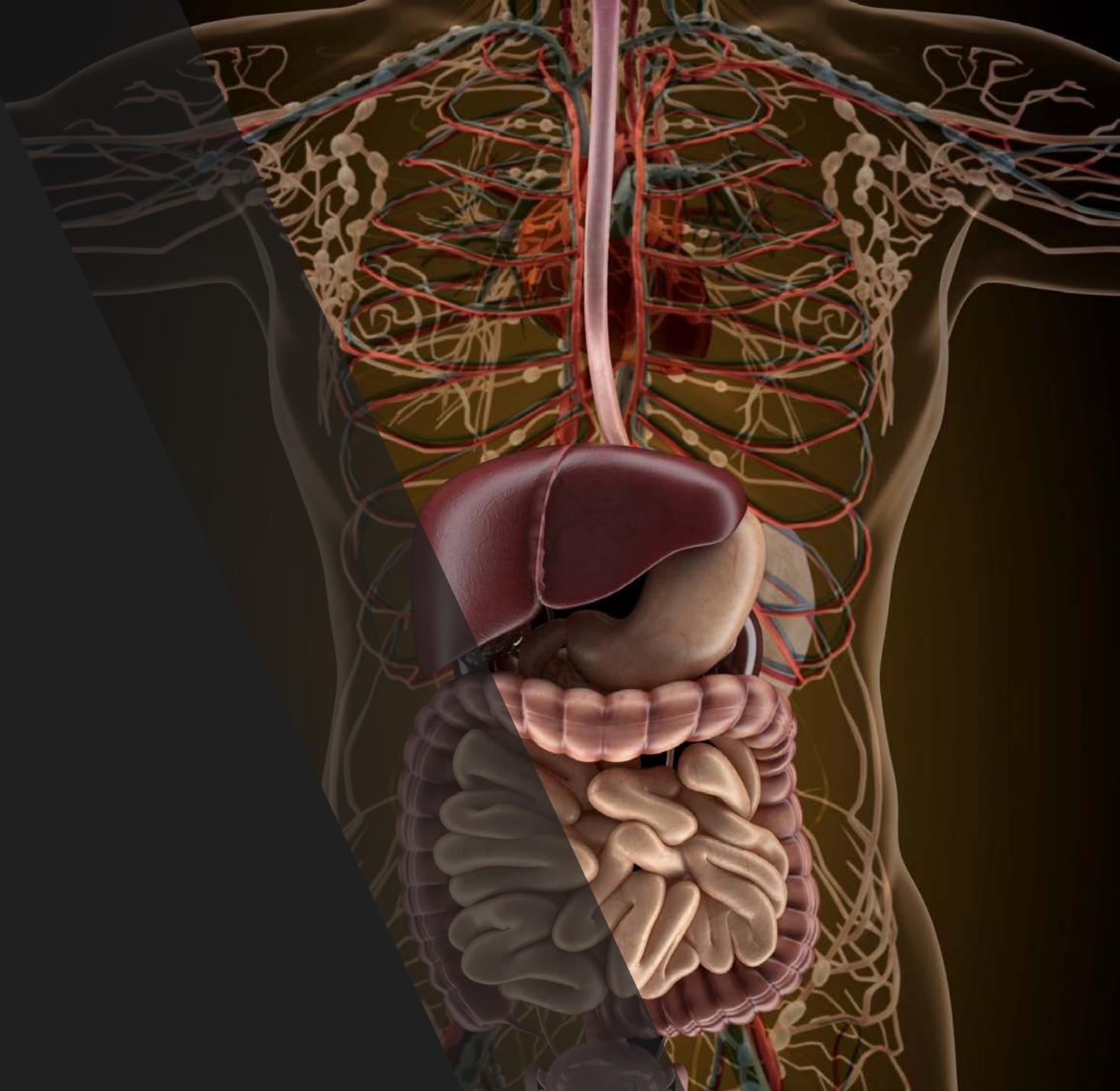
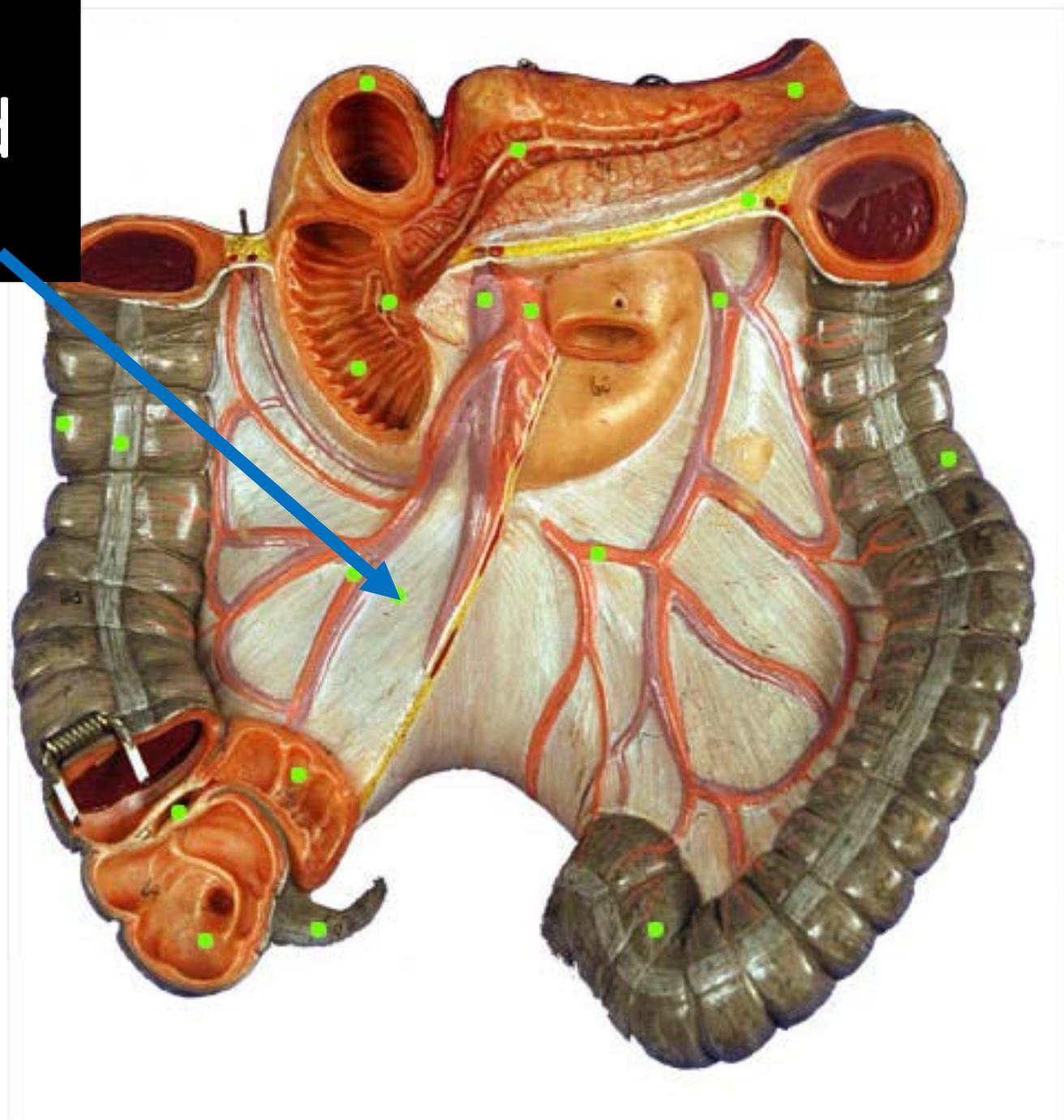


# The Digestive System

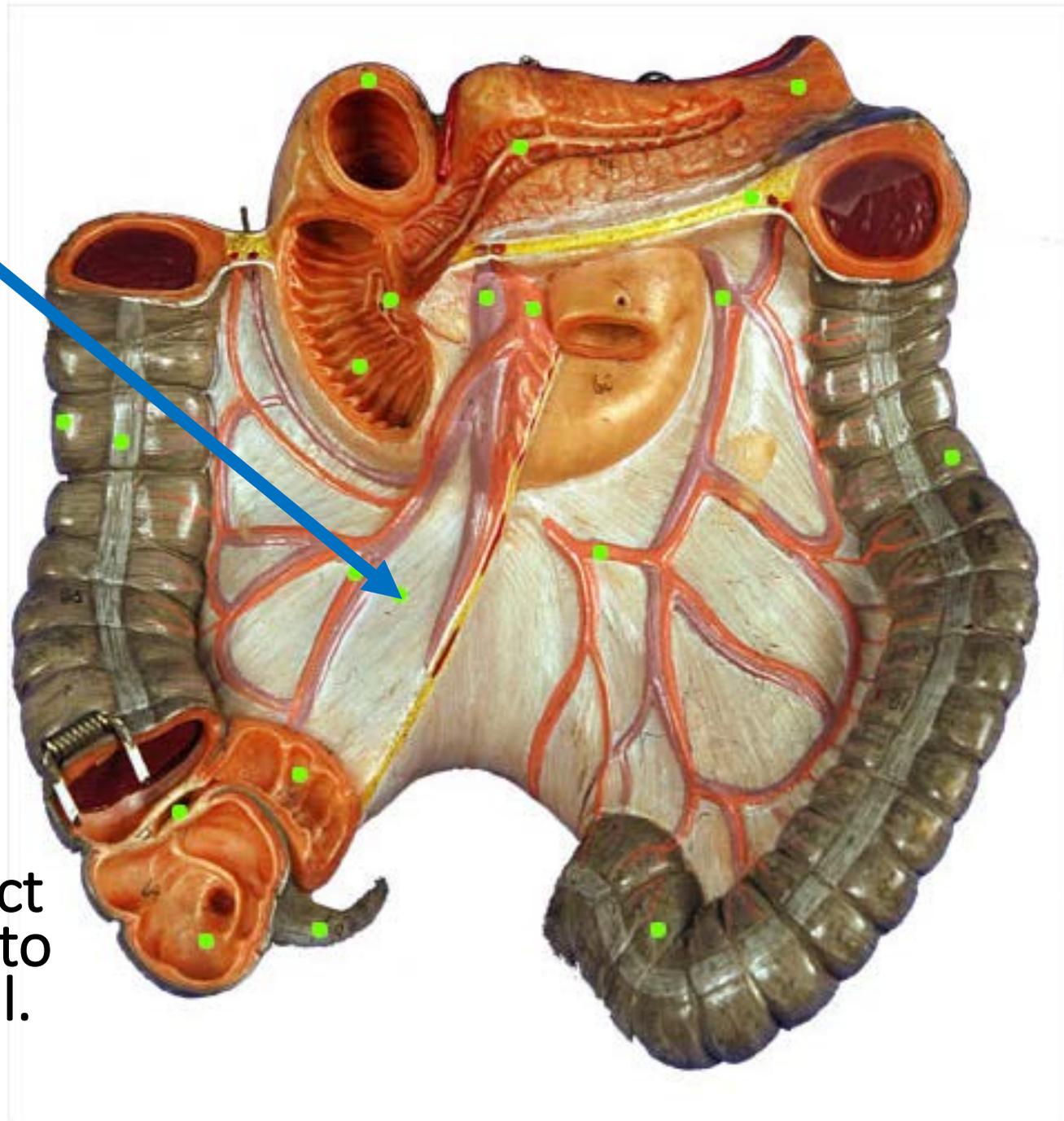


Identify the  
Structure and  
Function.

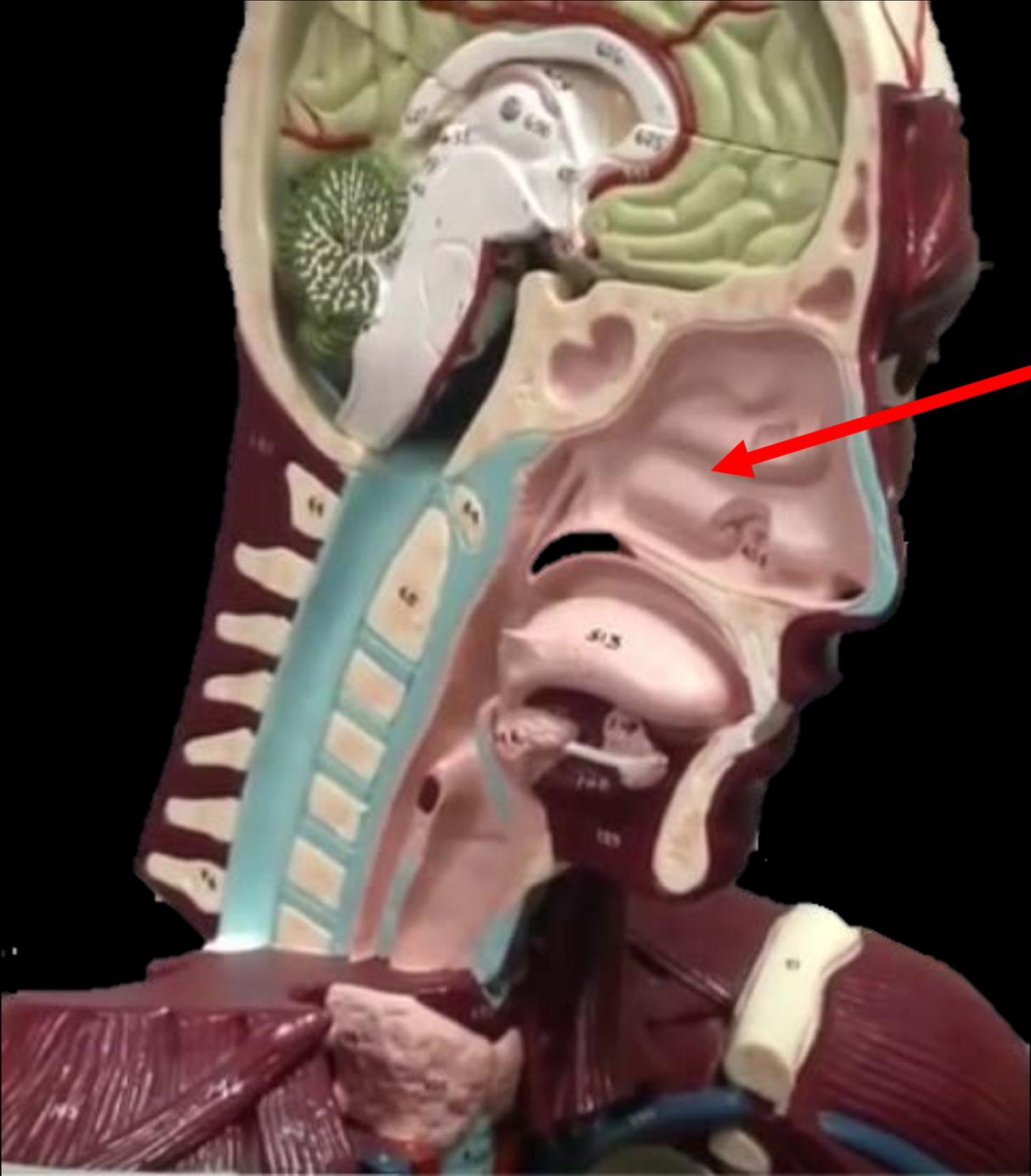


# Mesentery of the Large Intestine

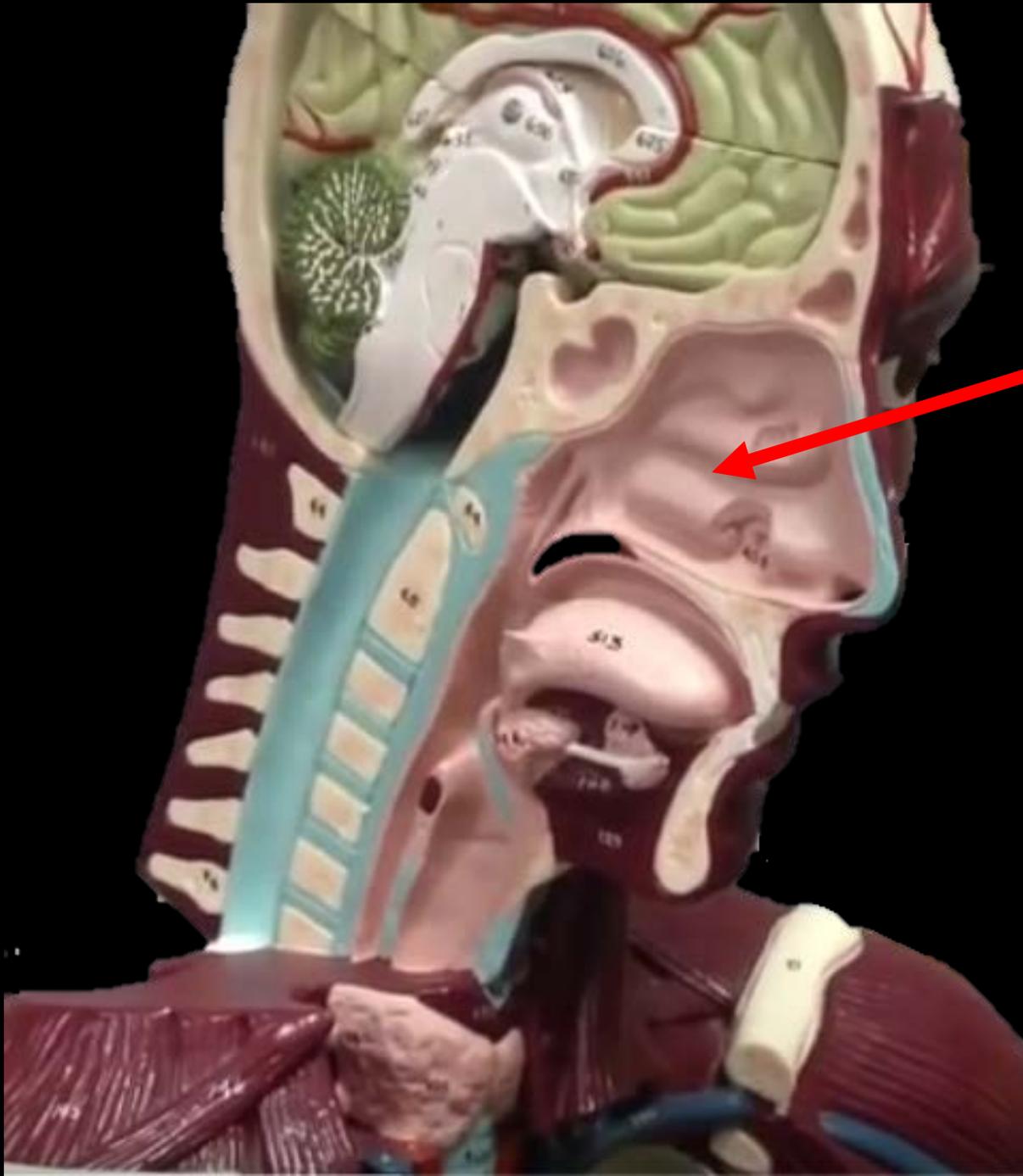
The mesentery  
functions to connect  
the visceral organs to  
the abdominal wall.

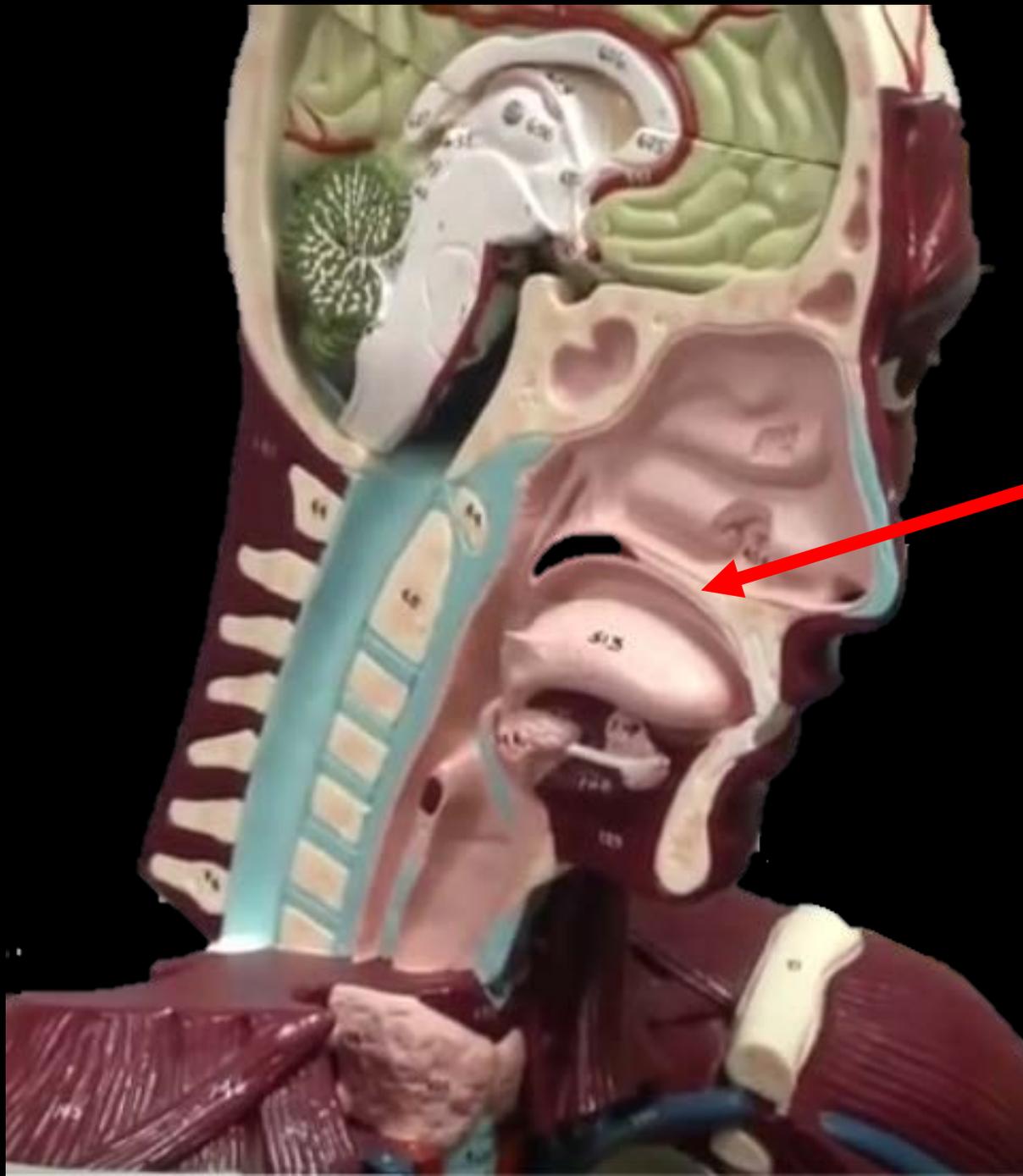


Identify the Structure.

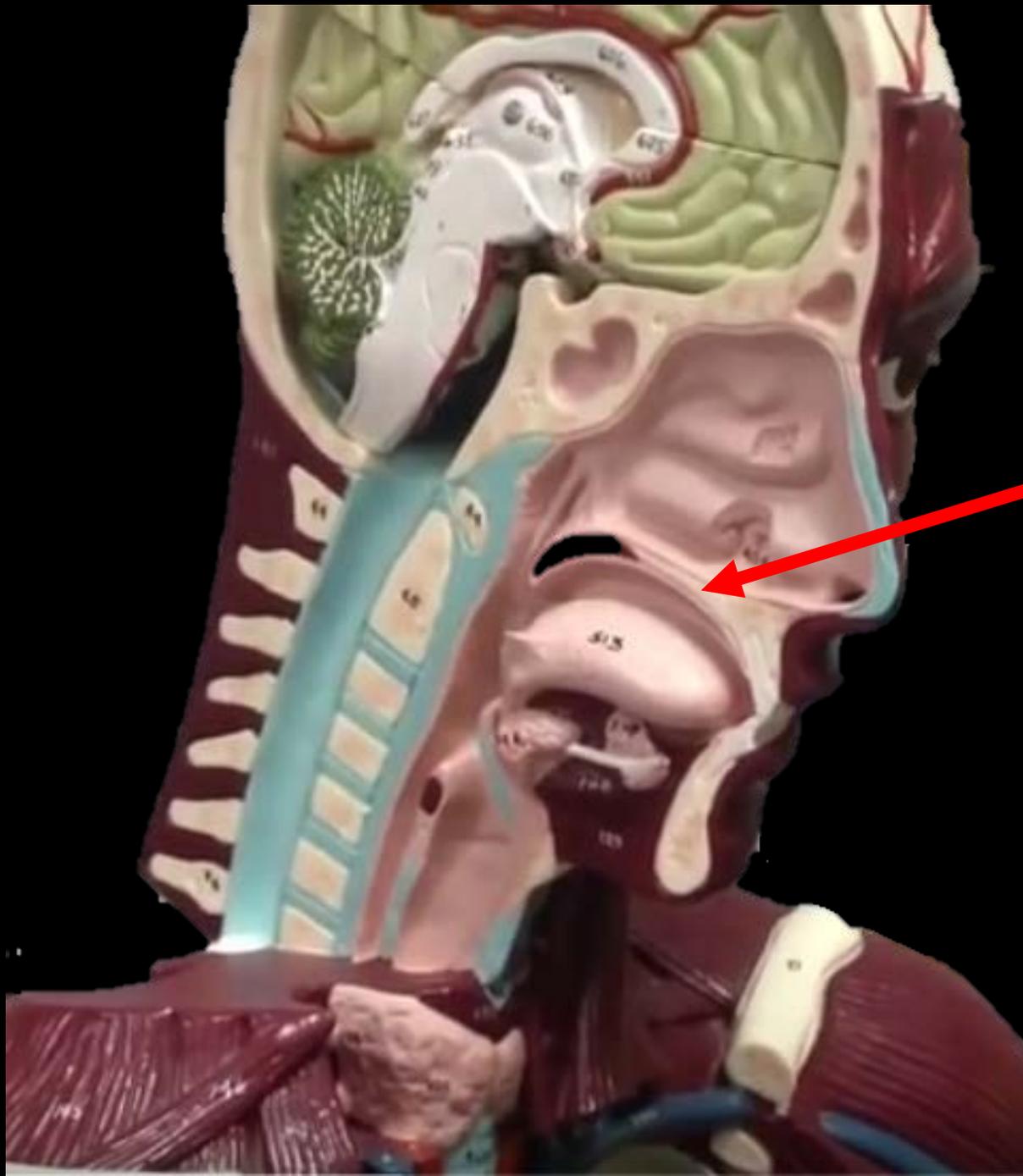


Nasal Cavity

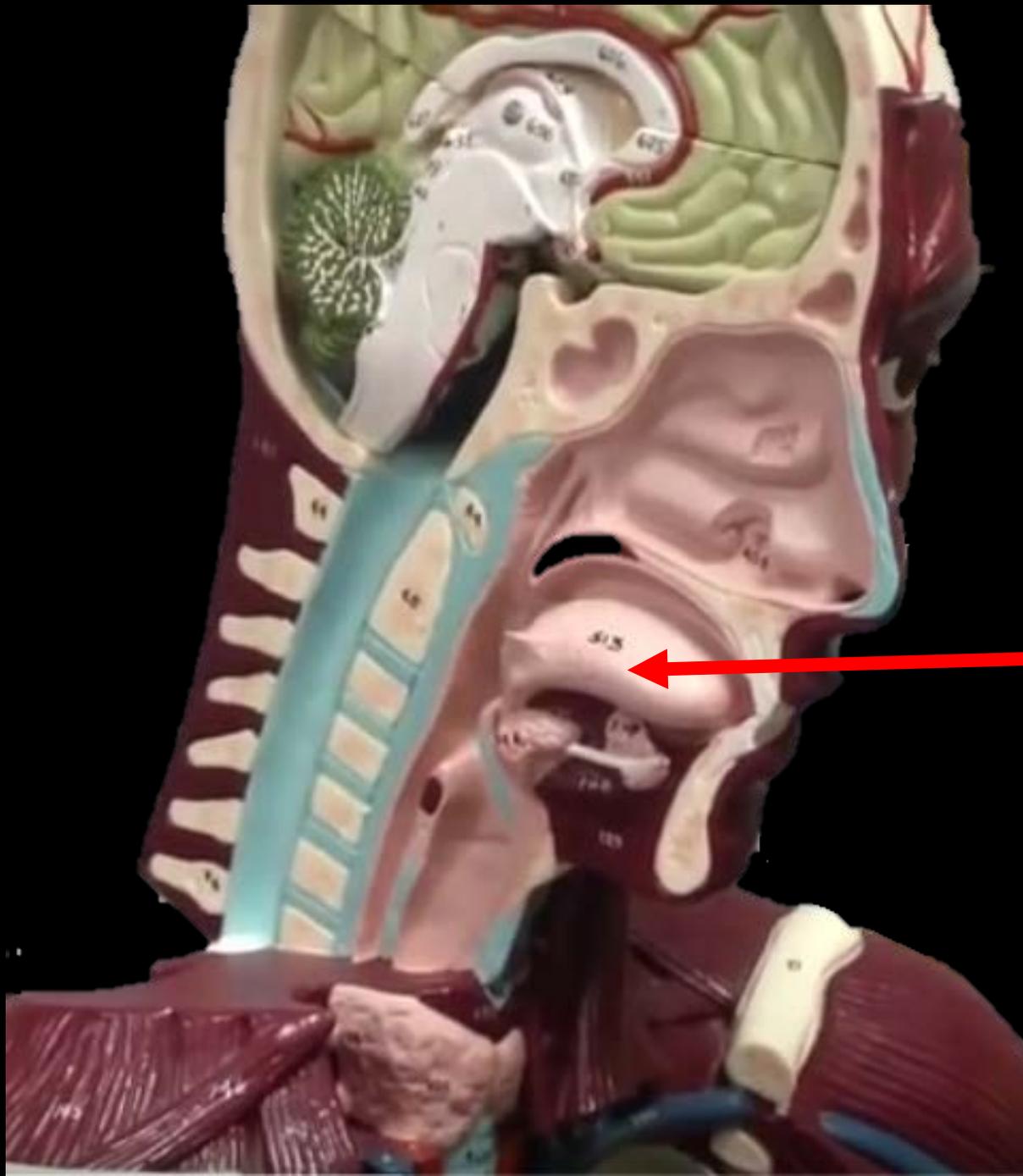




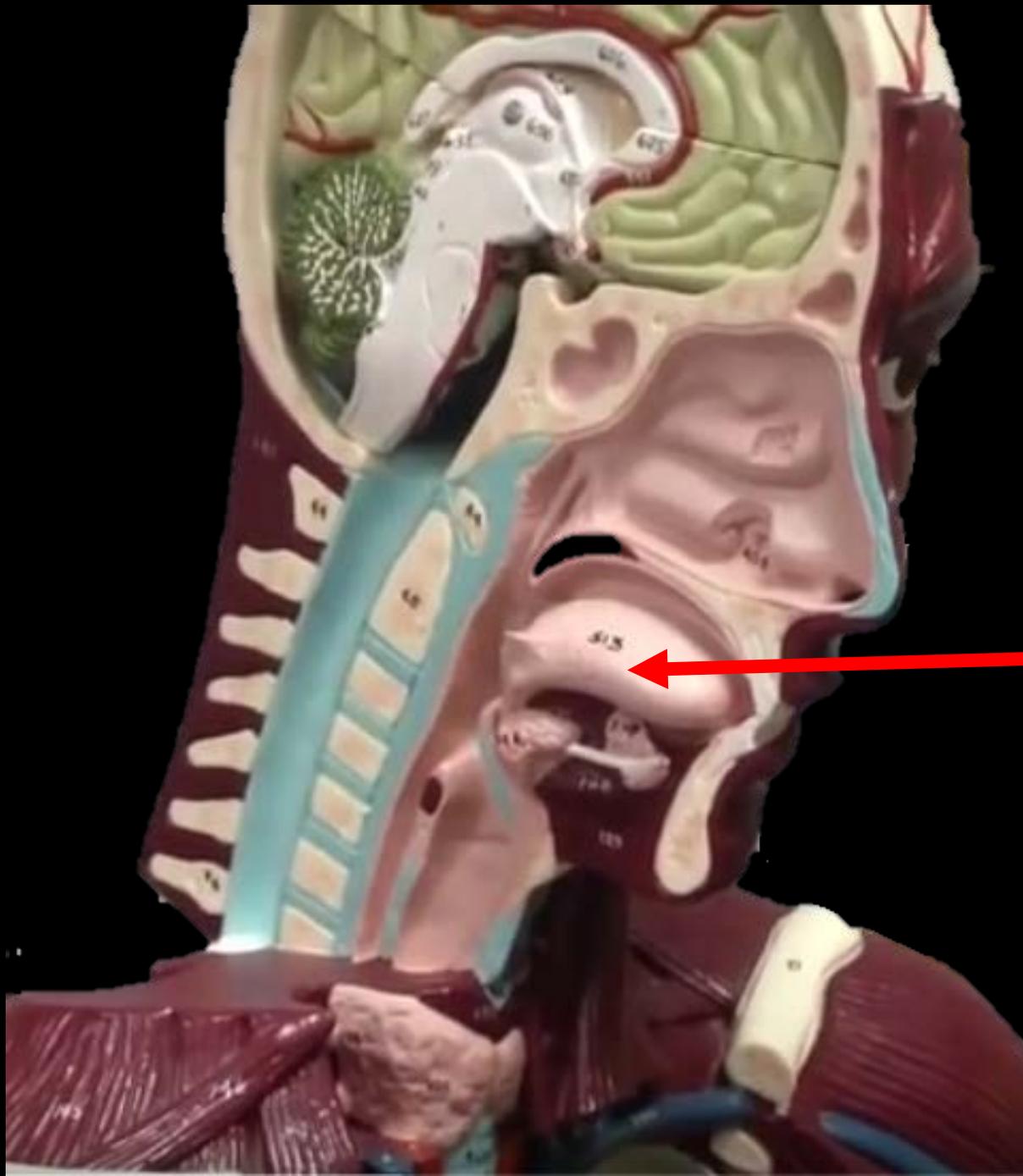
Identify the Structure.



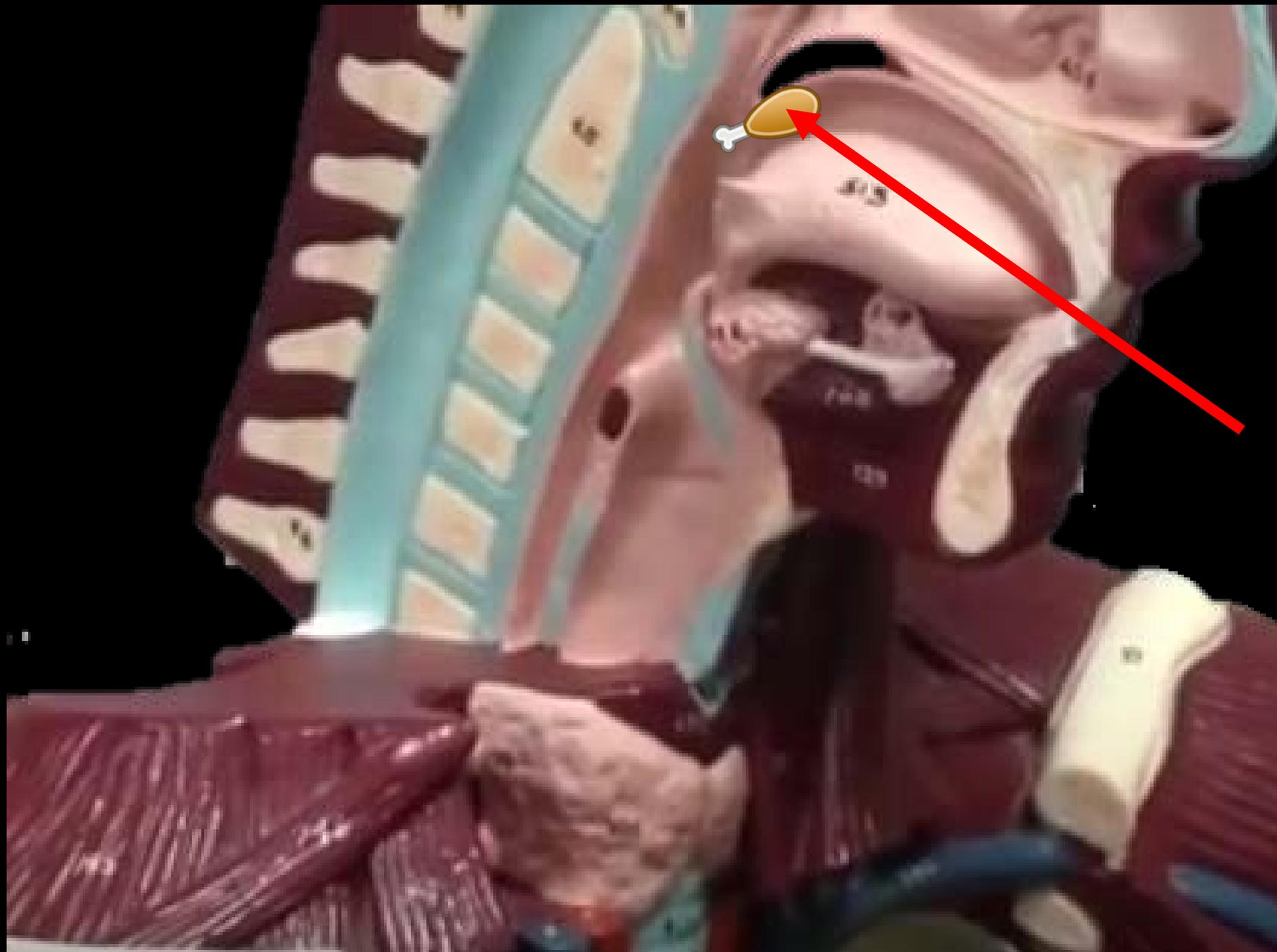
Palate



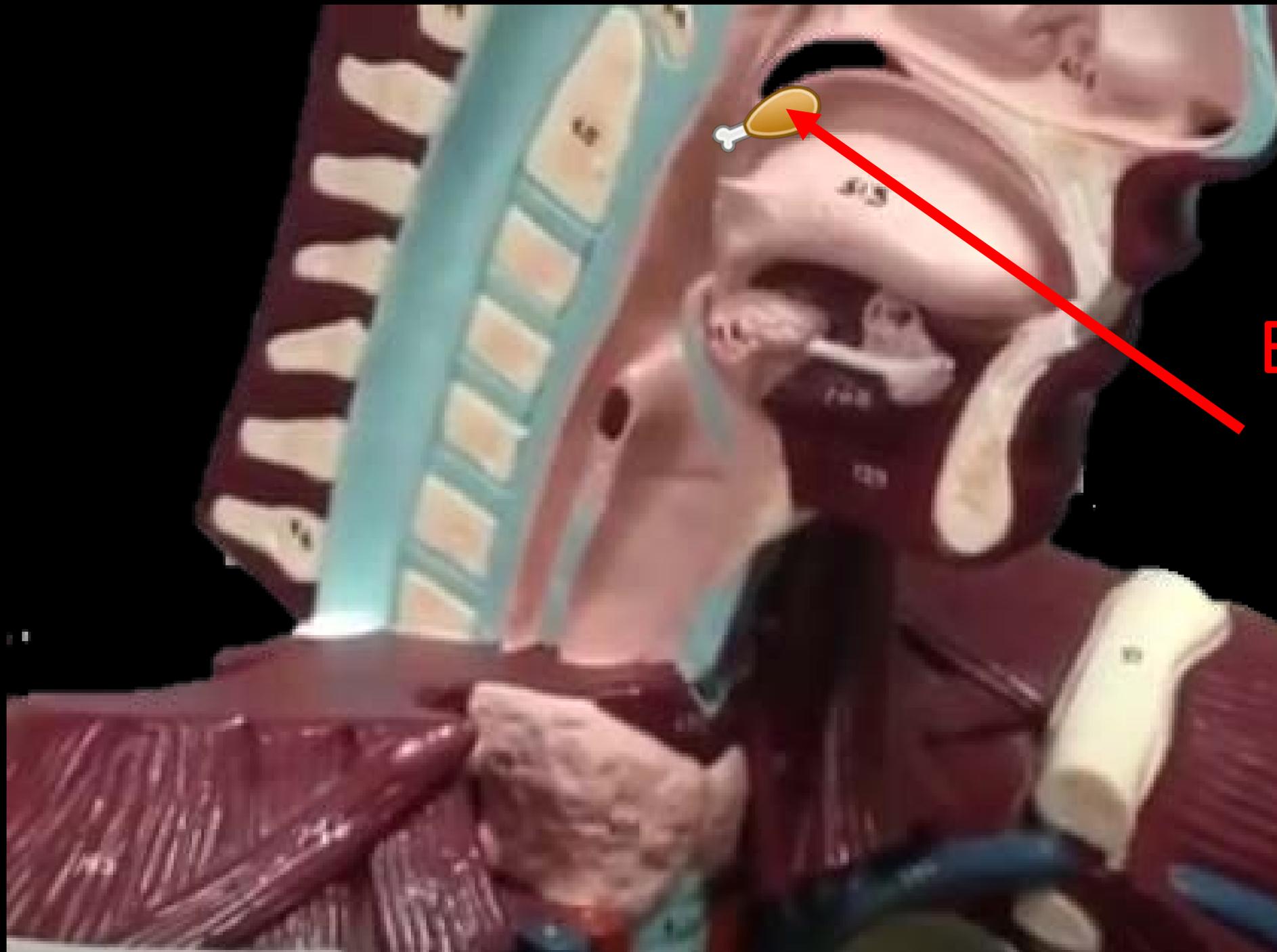
Identify  
the  
Structure.



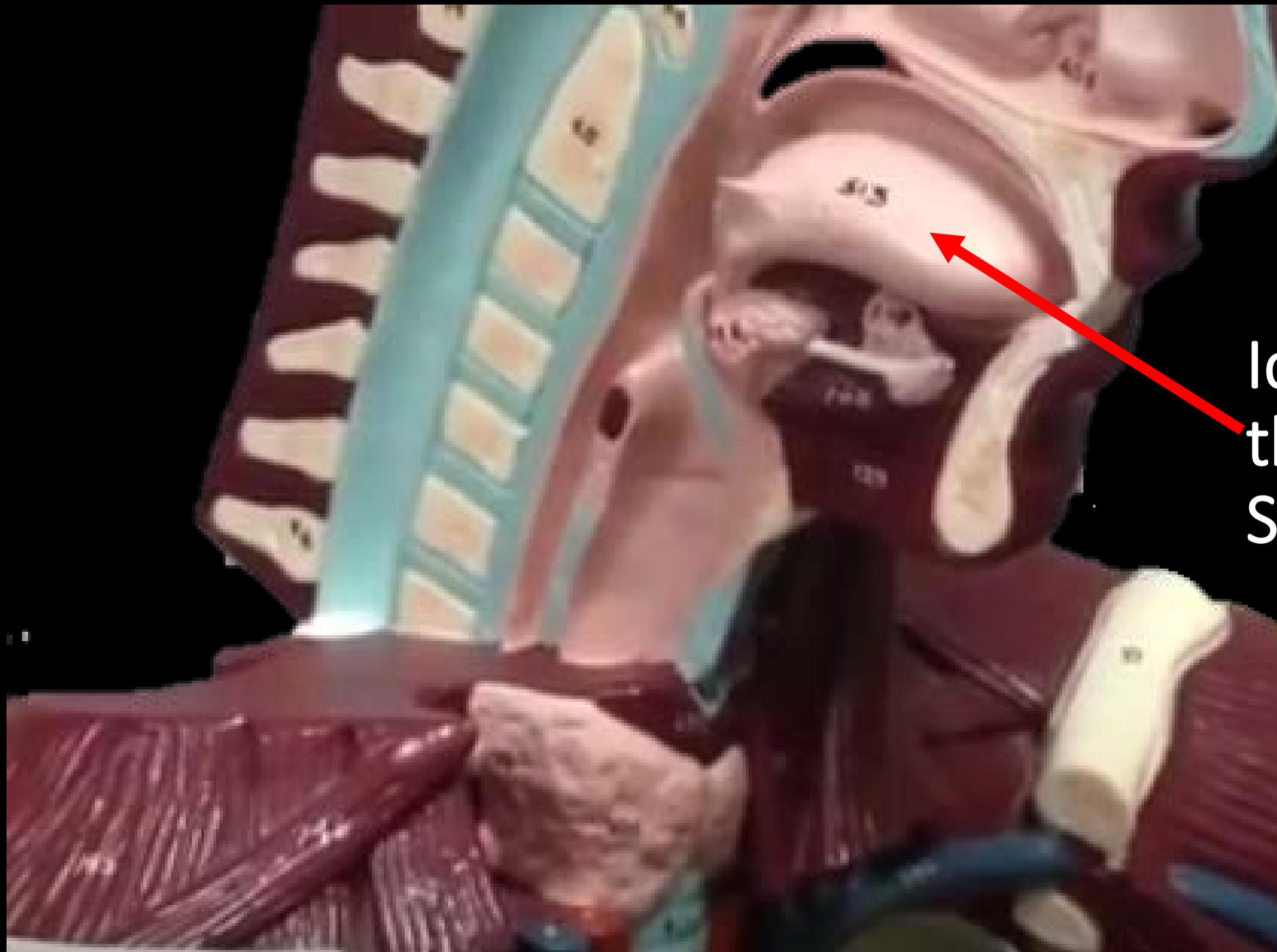
Tongue



Identify  
the  
Structure.



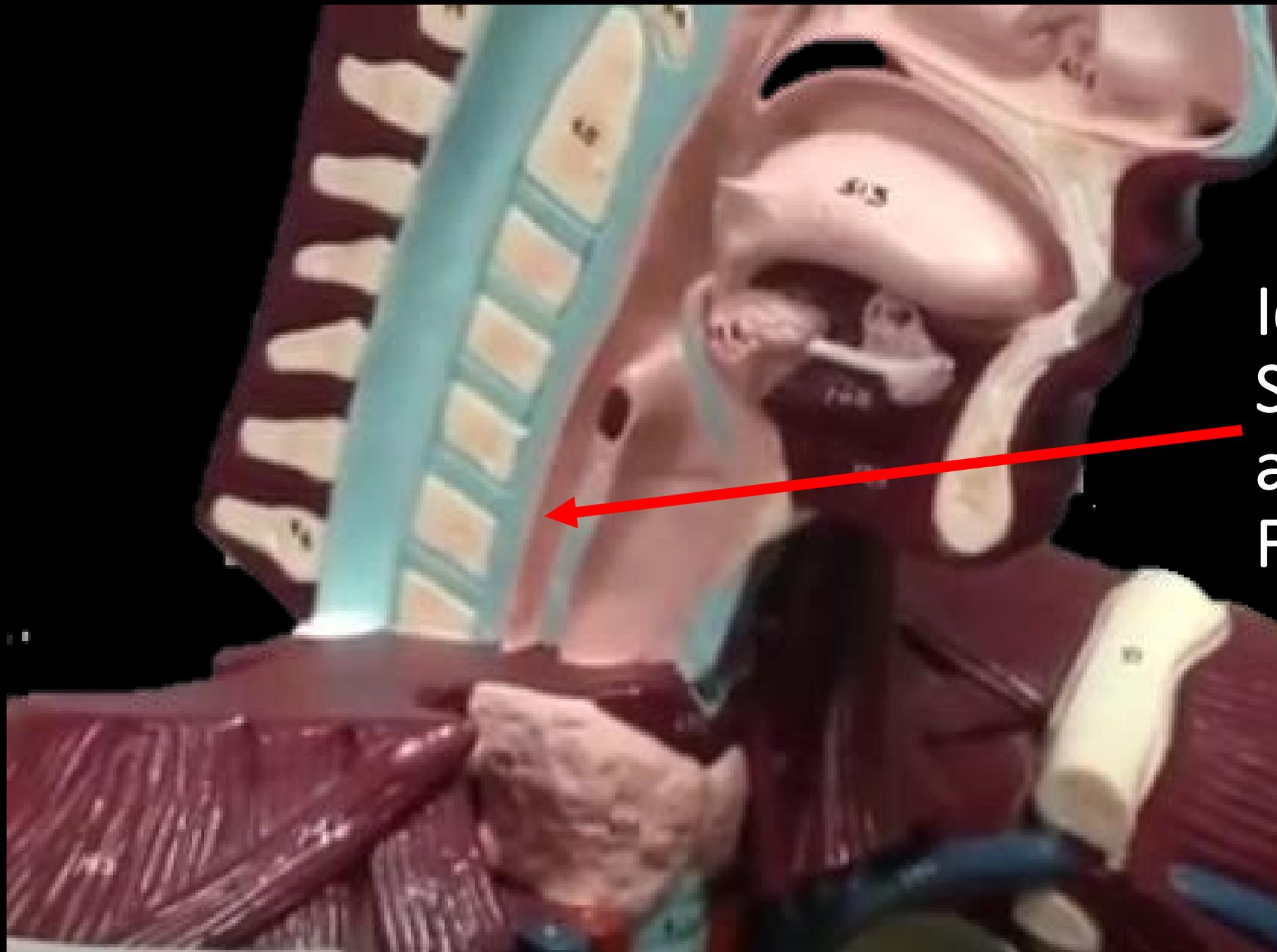
Bolus of  
Food



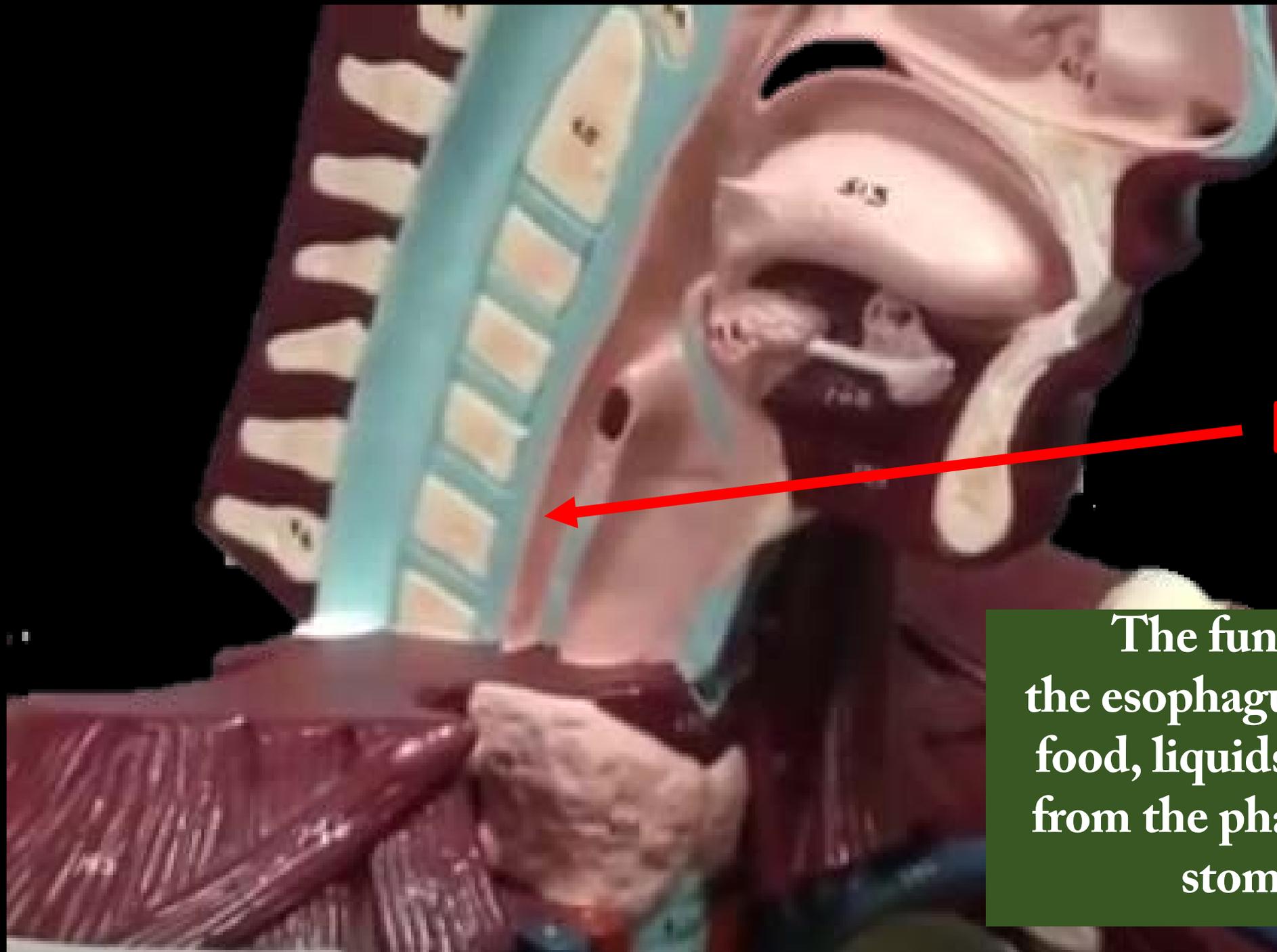
Identify  
the  
Structure.



Tongue

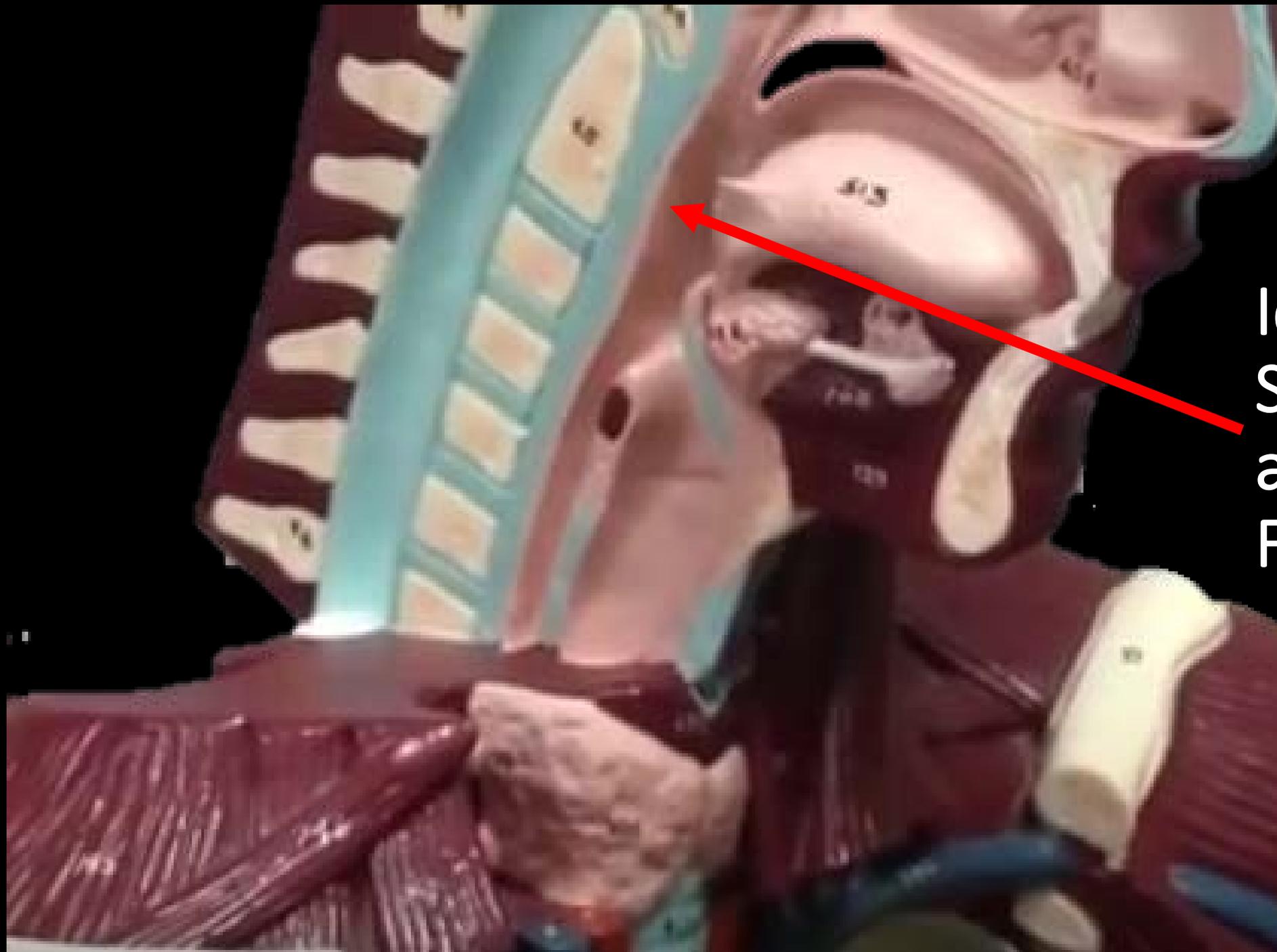


Identify the Structure and Function.

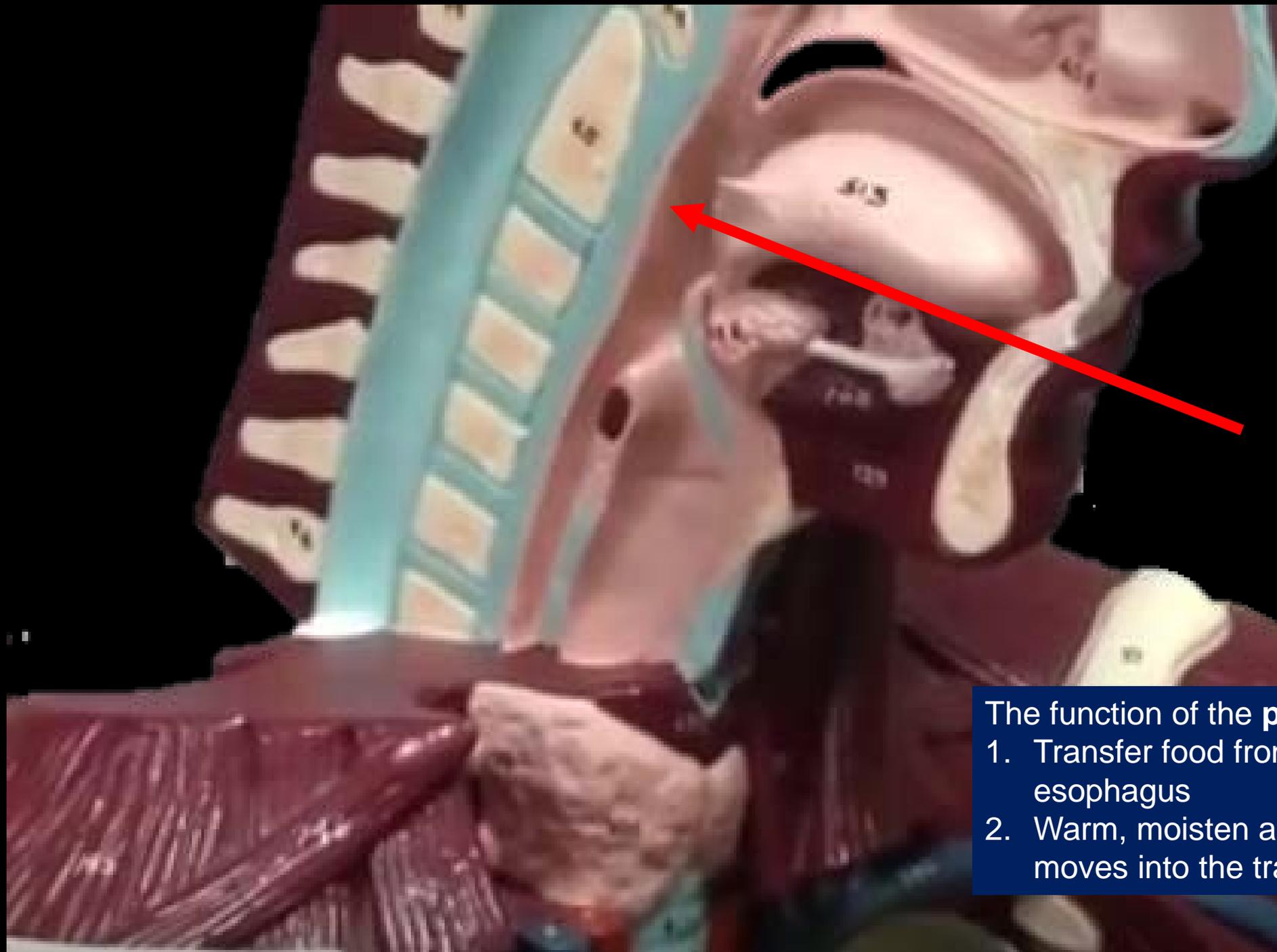


**Esophagus**

**The function of the esophagus is to carry food, liquids, and saliva from the pharynx to the stomach.**

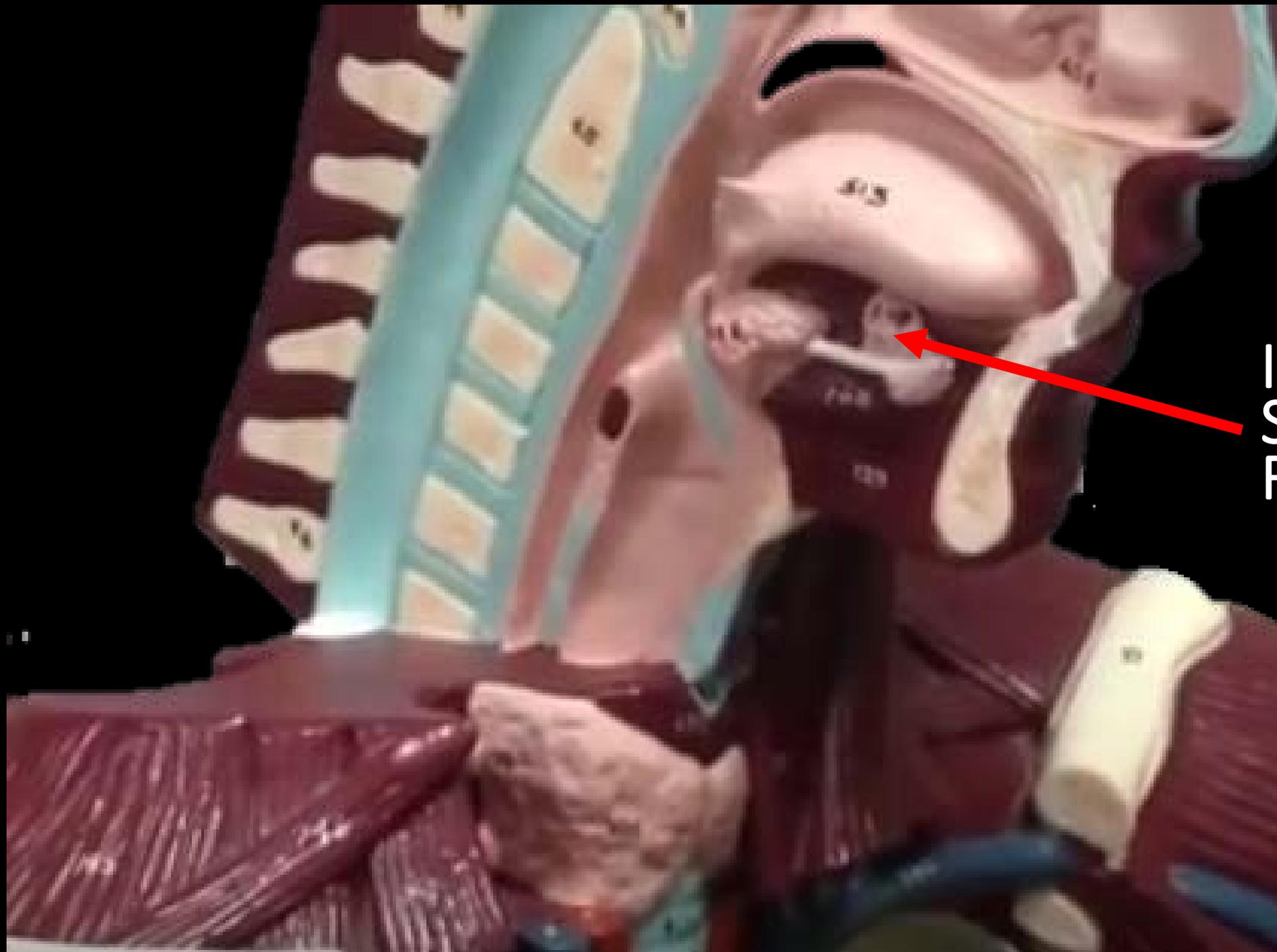


Identify the  
Structure  
and  
Function.



Pharynx

- The function of the **pharynx** is to
1. Transfer food from the mouth to the esophagus
  2. Warm, moisten and filter air before it moves into the trachea



Identify the Structure and Function.

# SALIVARY GLANDS



**Sublingual  
Gland**

The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).



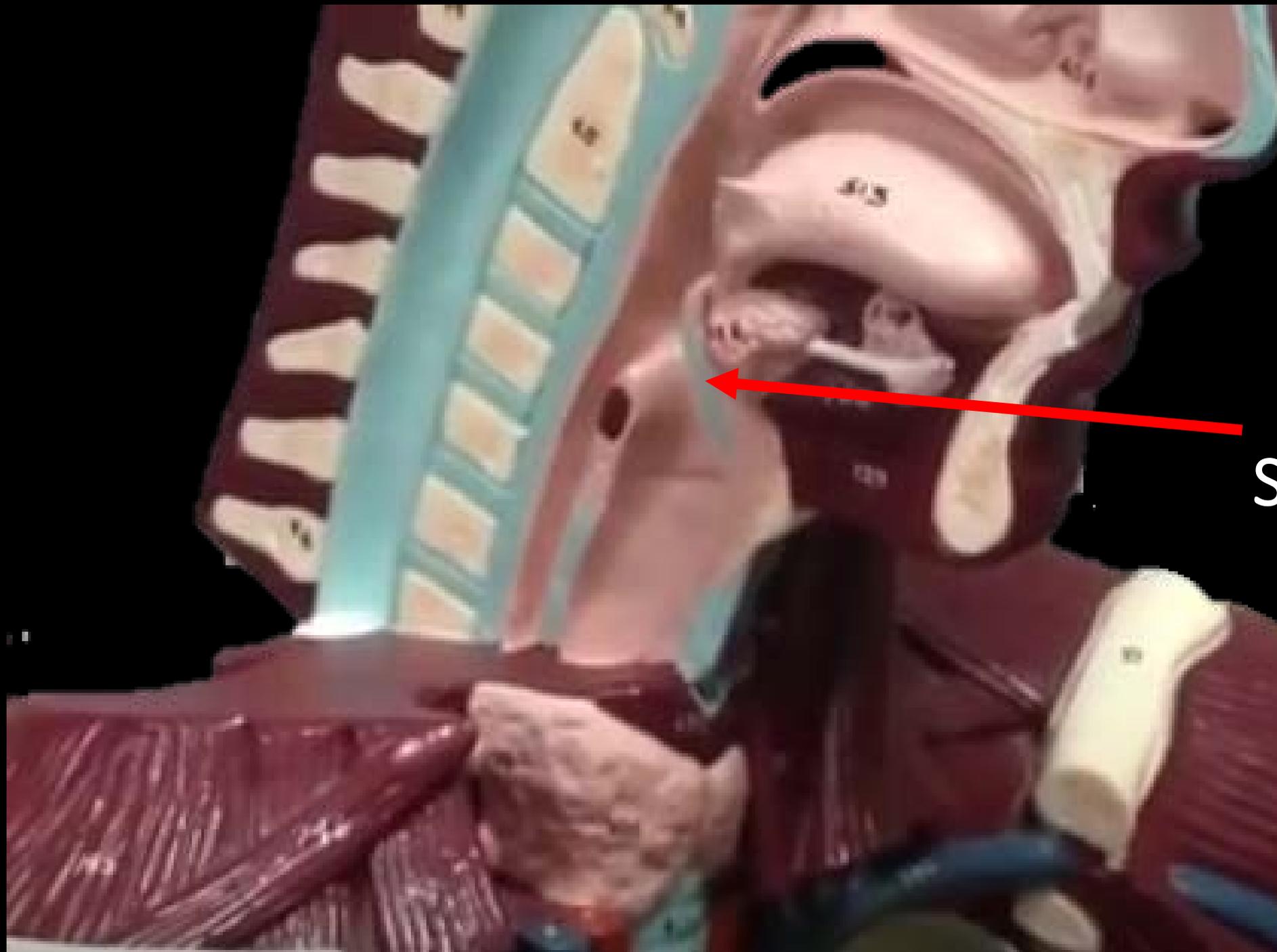
Identify the Structure and Function.

# SALIVARY GLANDS

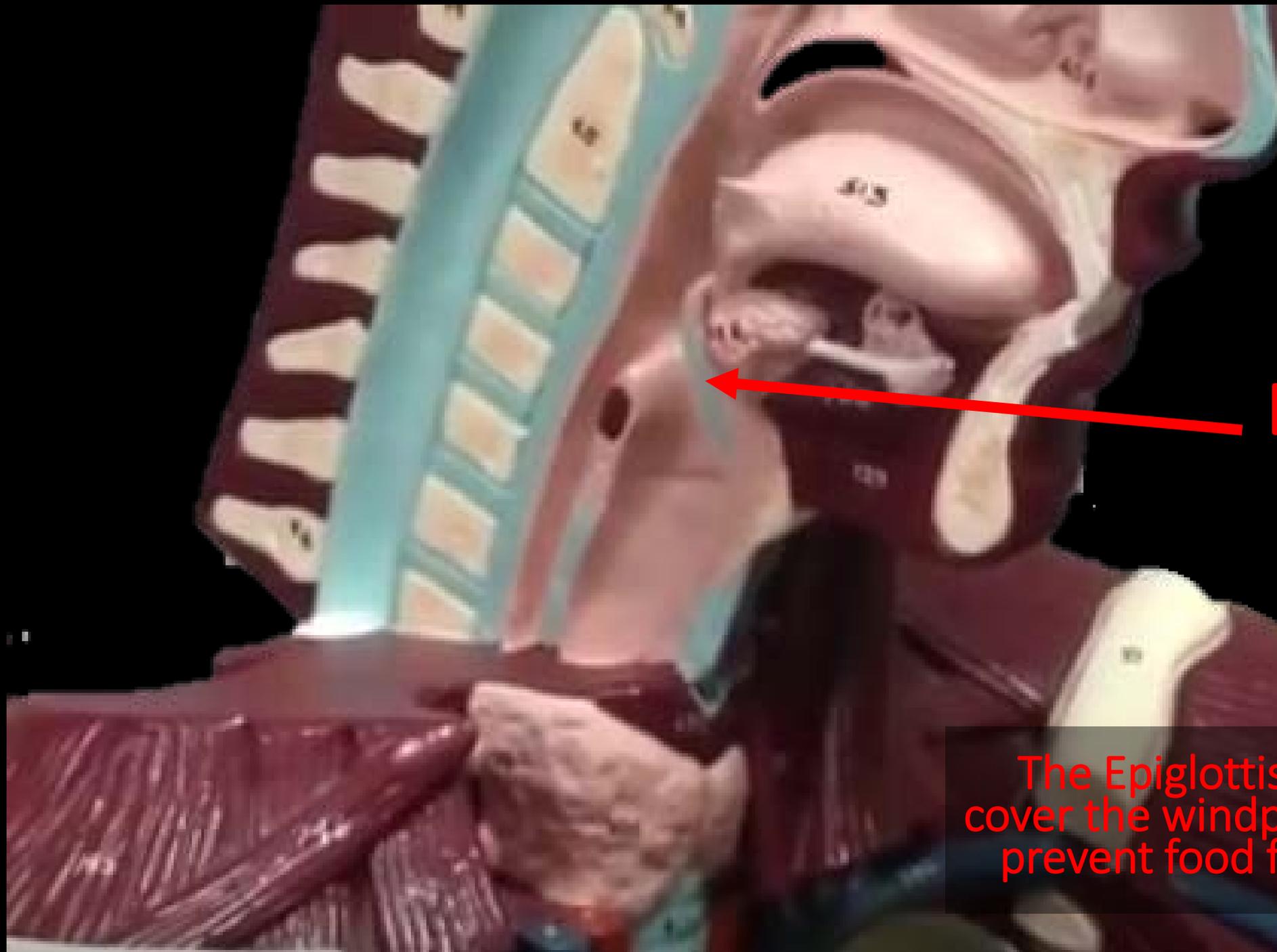
Submandibular  
Gland

The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).



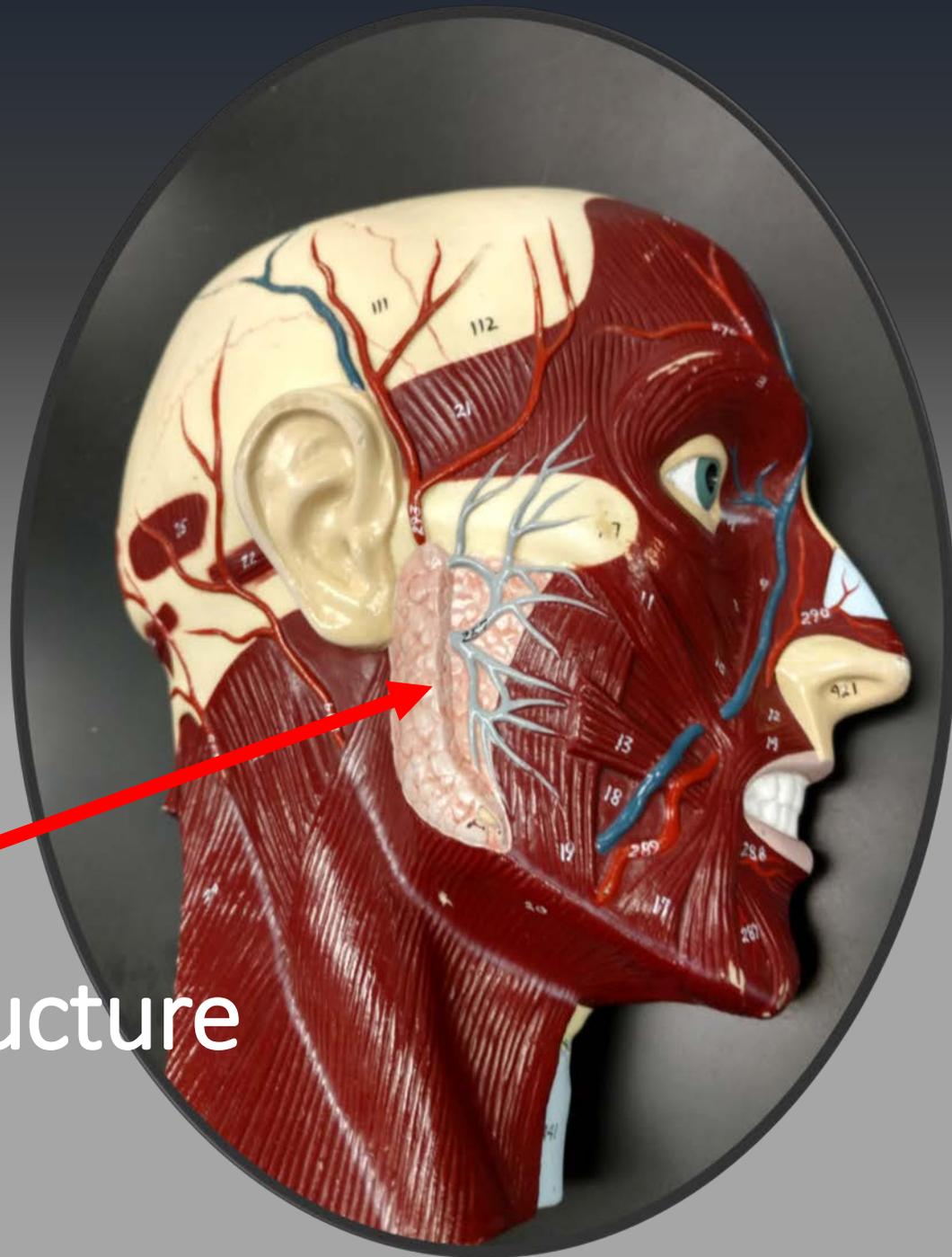


Identify the Structure and function.



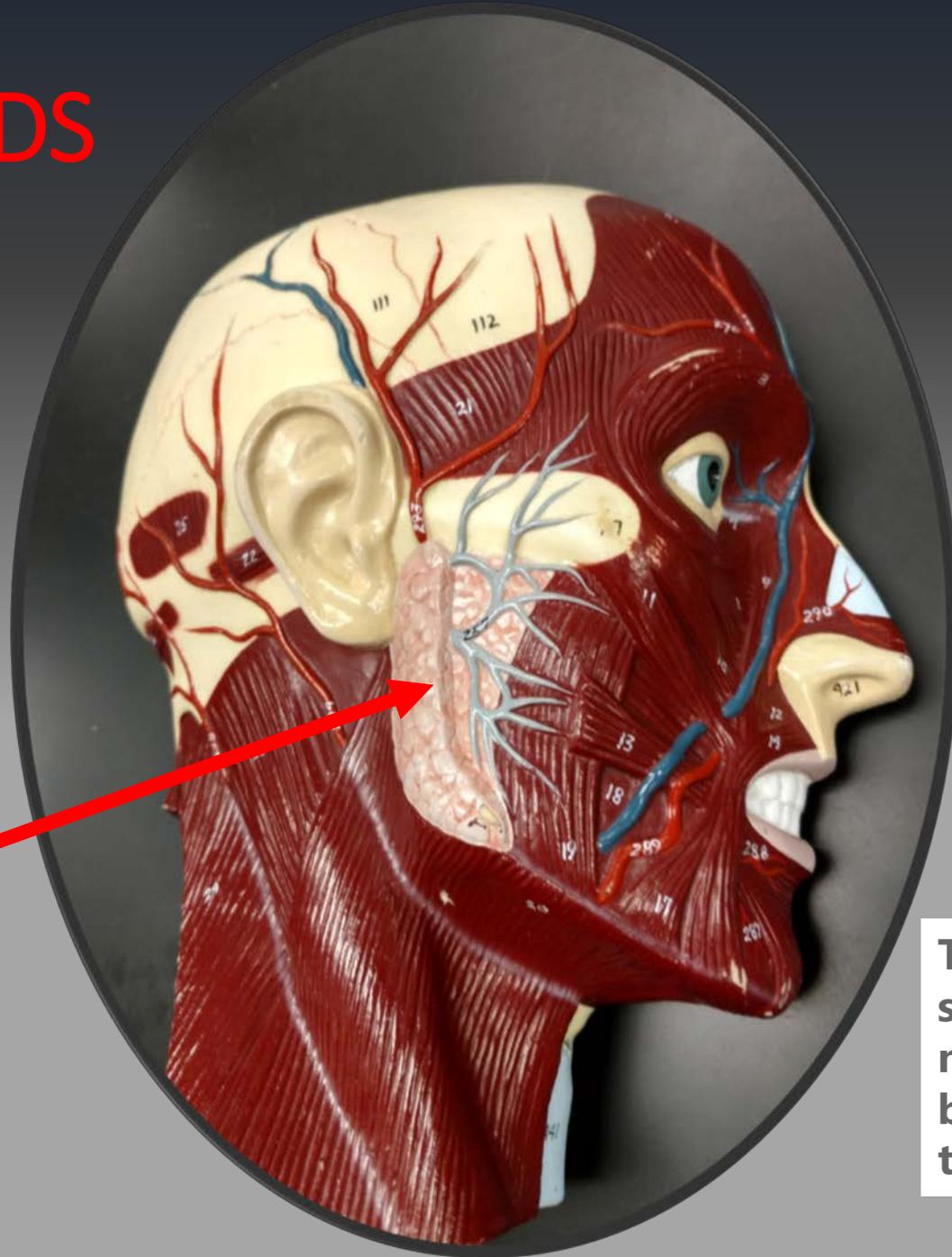
Epiglottis

The Epiglottis functions to cover the windpipe (trachea) to prevent food from entering.



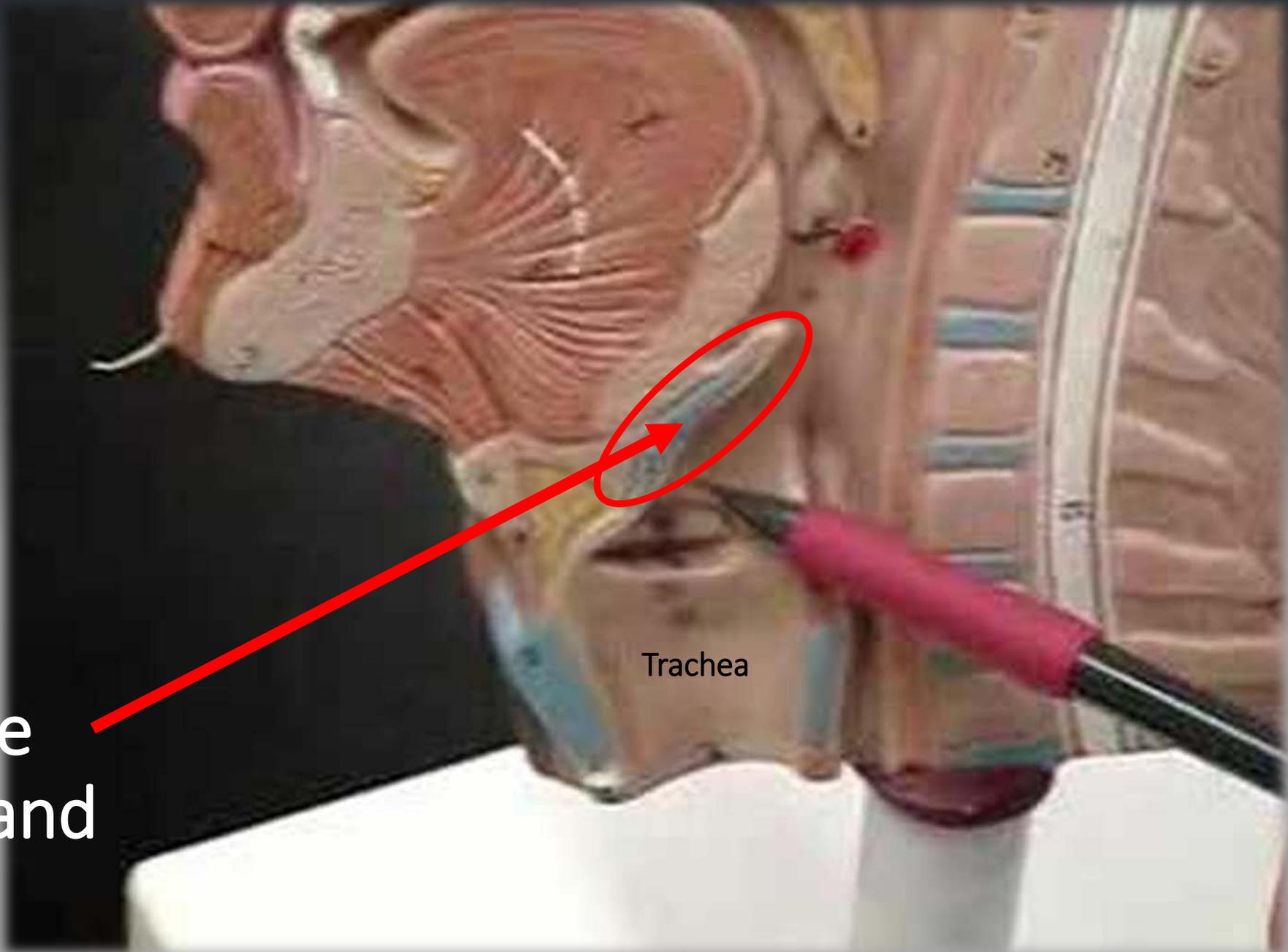
Identify the Structure  
and Function.

# SALIVARY GLANDS



Parotid Gland

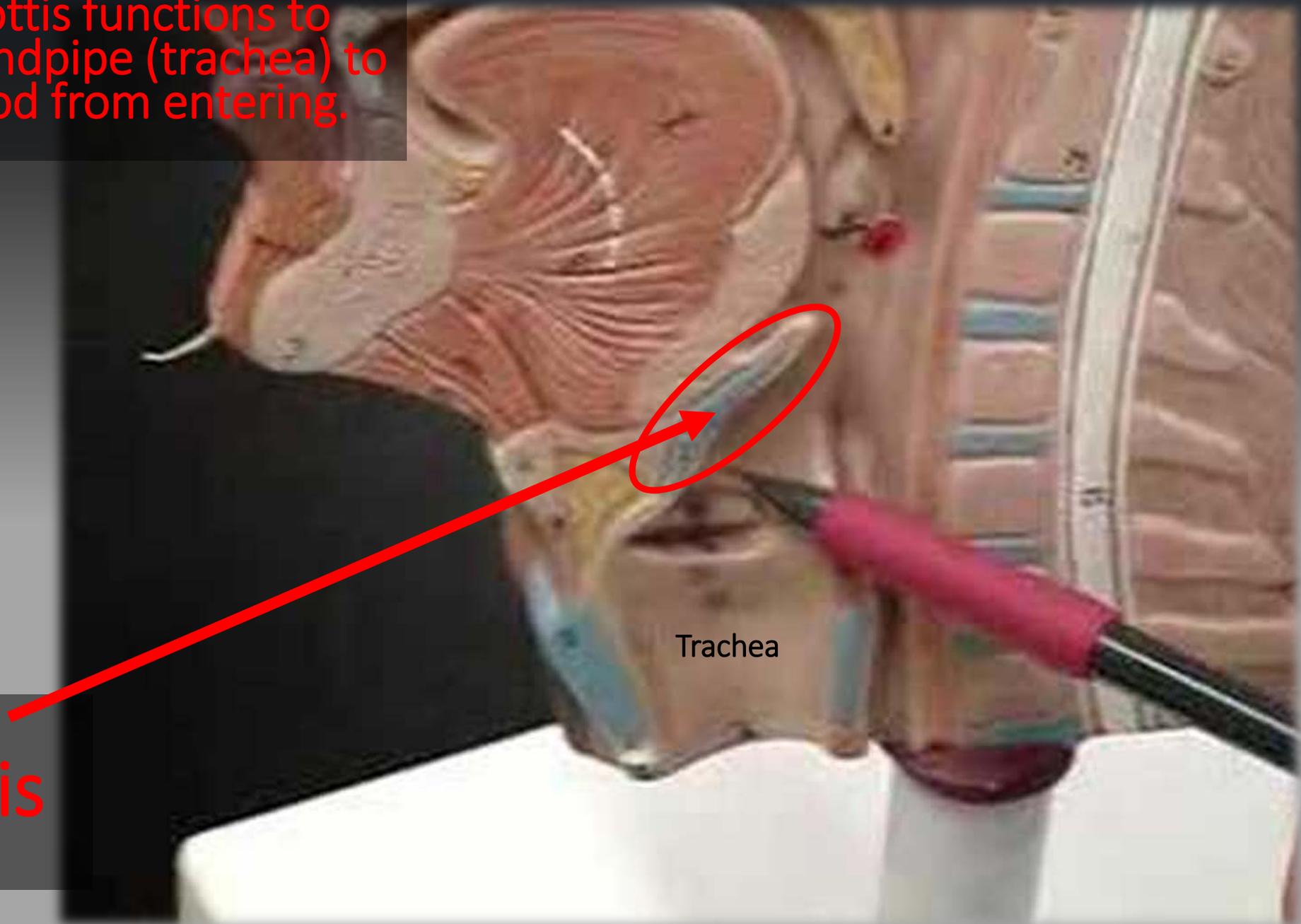
The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).



Trachea

Identify the Structure and function.

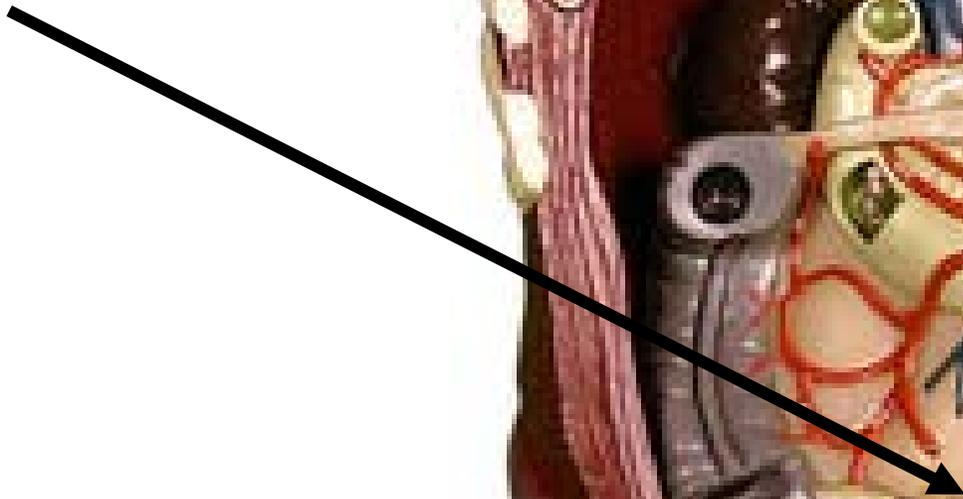
The Epiglottis functions to cover the windpipe (trachea) to prevent food from entering.



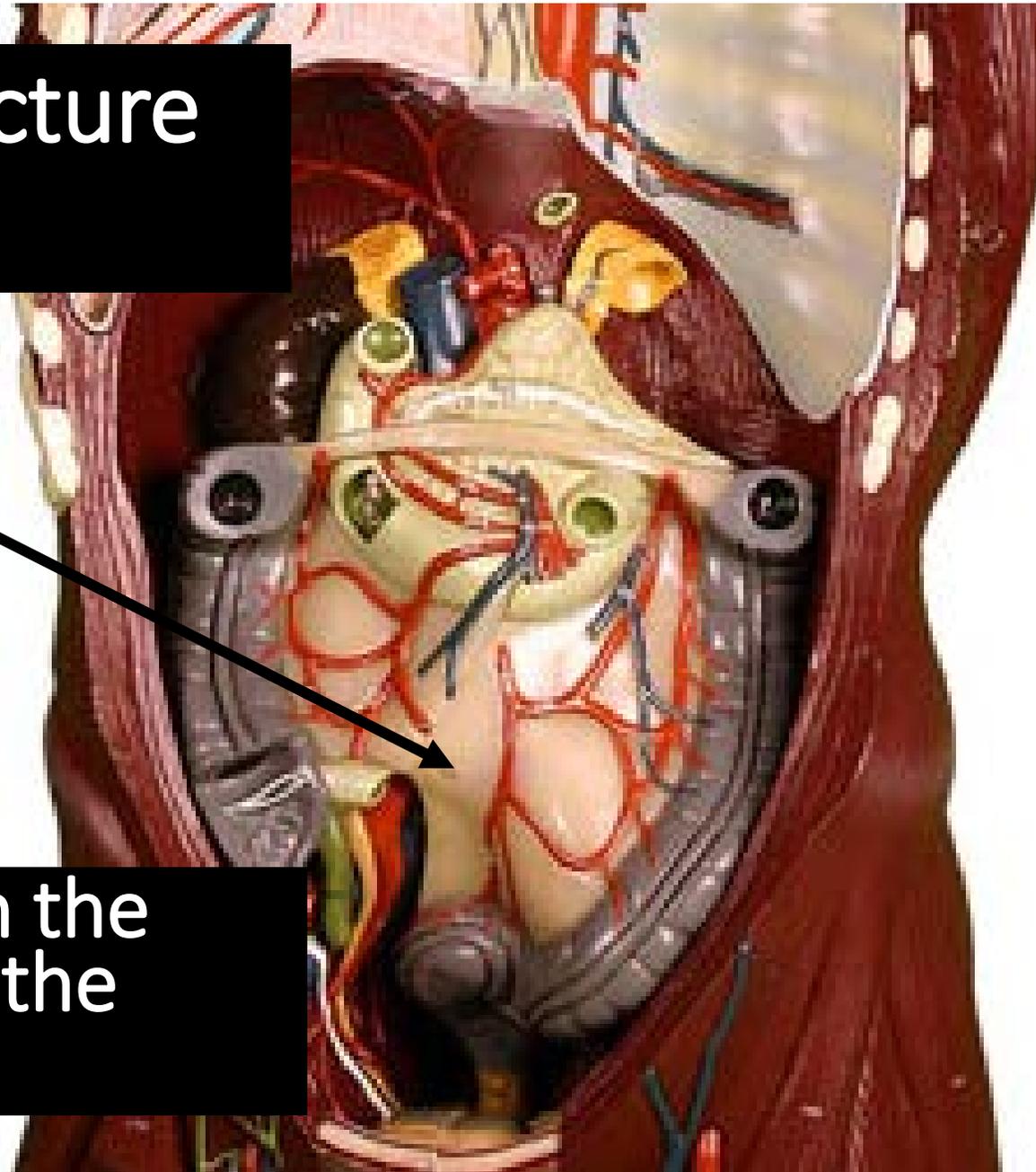
Trachea

Epiglottis

Identify the Structure  
and Function.

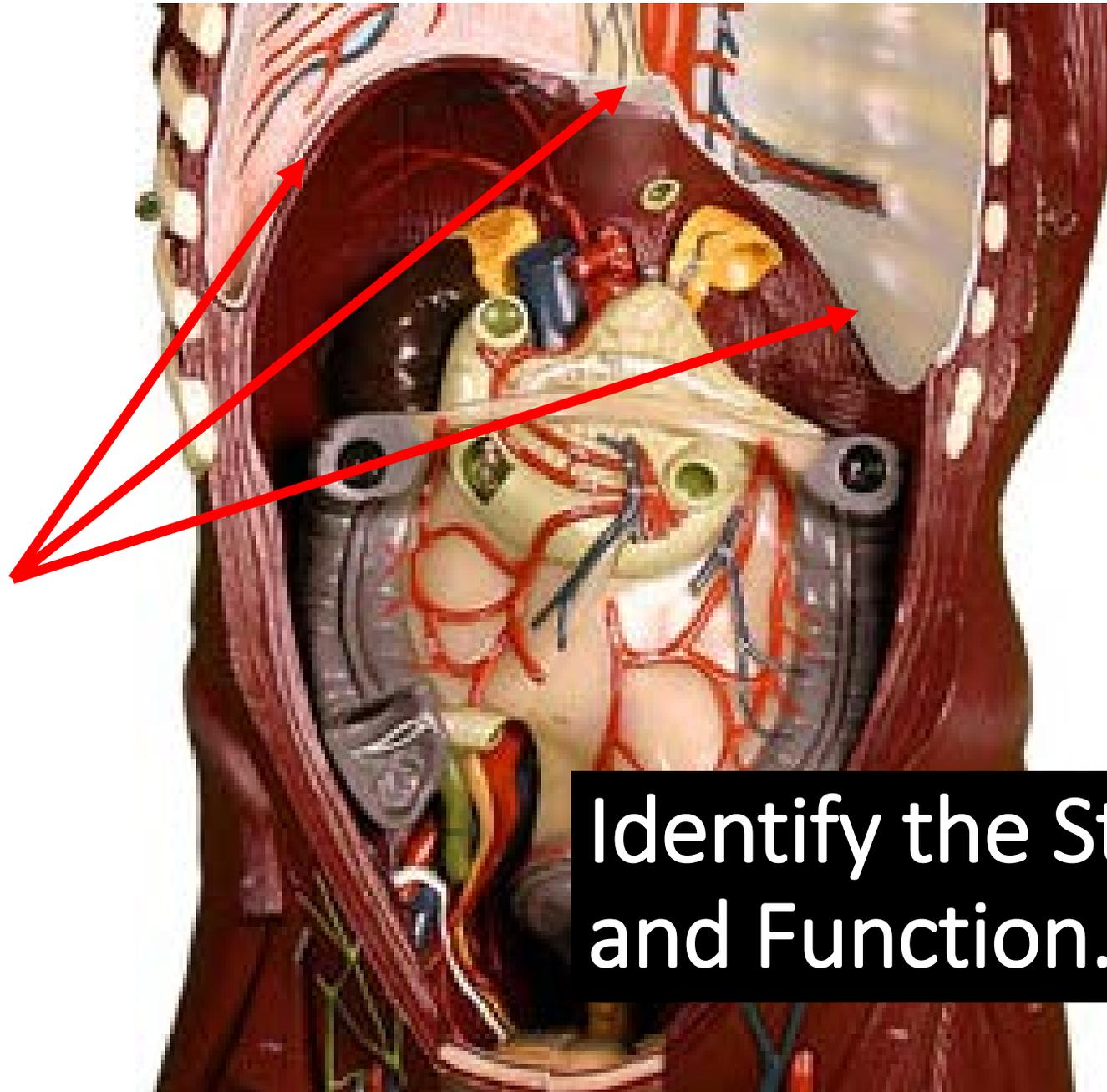


Identify the Structure  
and Function.



Mesentery – Attach the  
digestive organs to the  
abdominal wall.

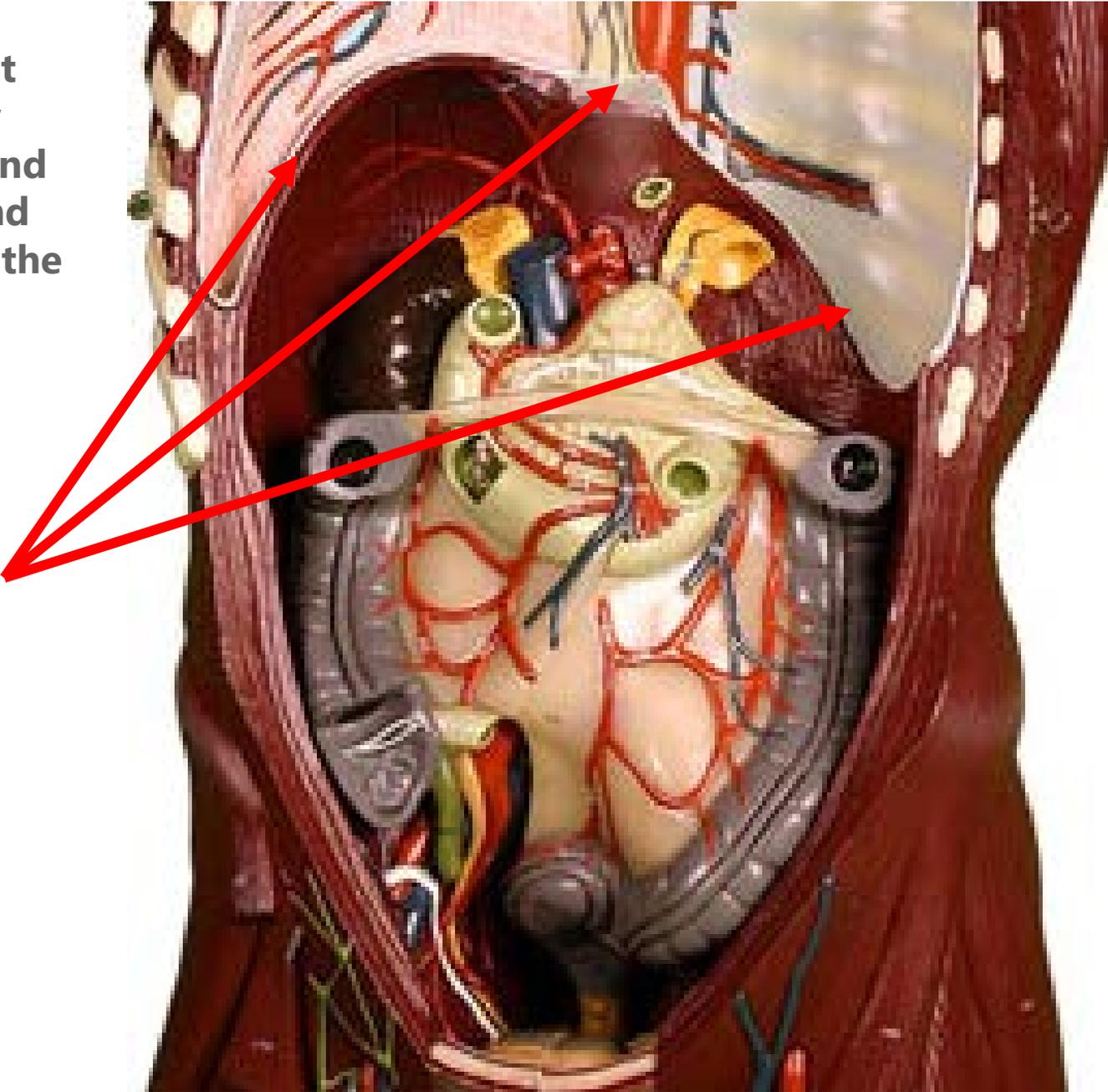
Diaphragm



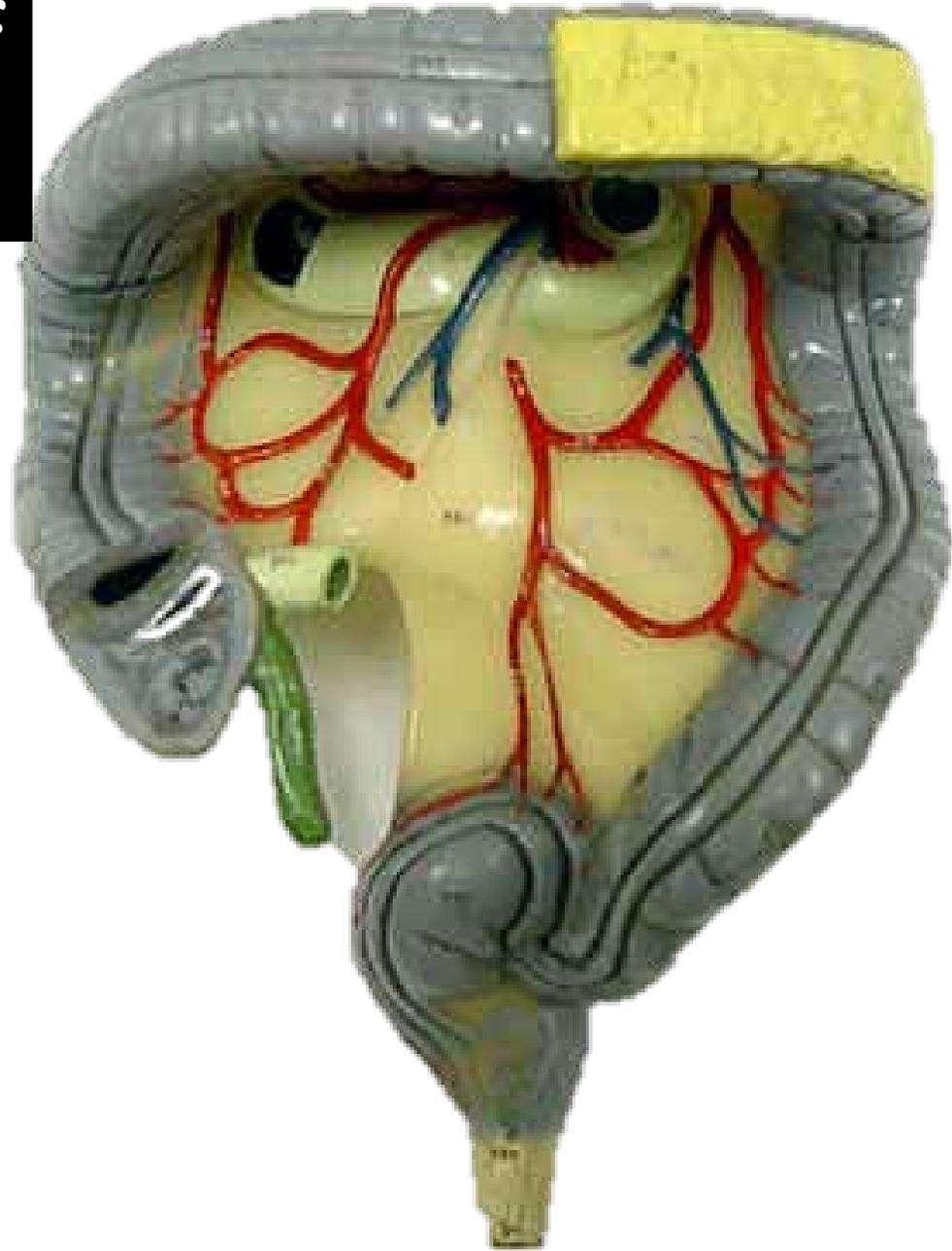
Identify the Structure  
and Function.

The diaphragm is a muscle that lies below the lungs that separates the thoracic cavity from the abdominal cavity and functions to force air into and out of the lungs, along with the intercostal muscles.

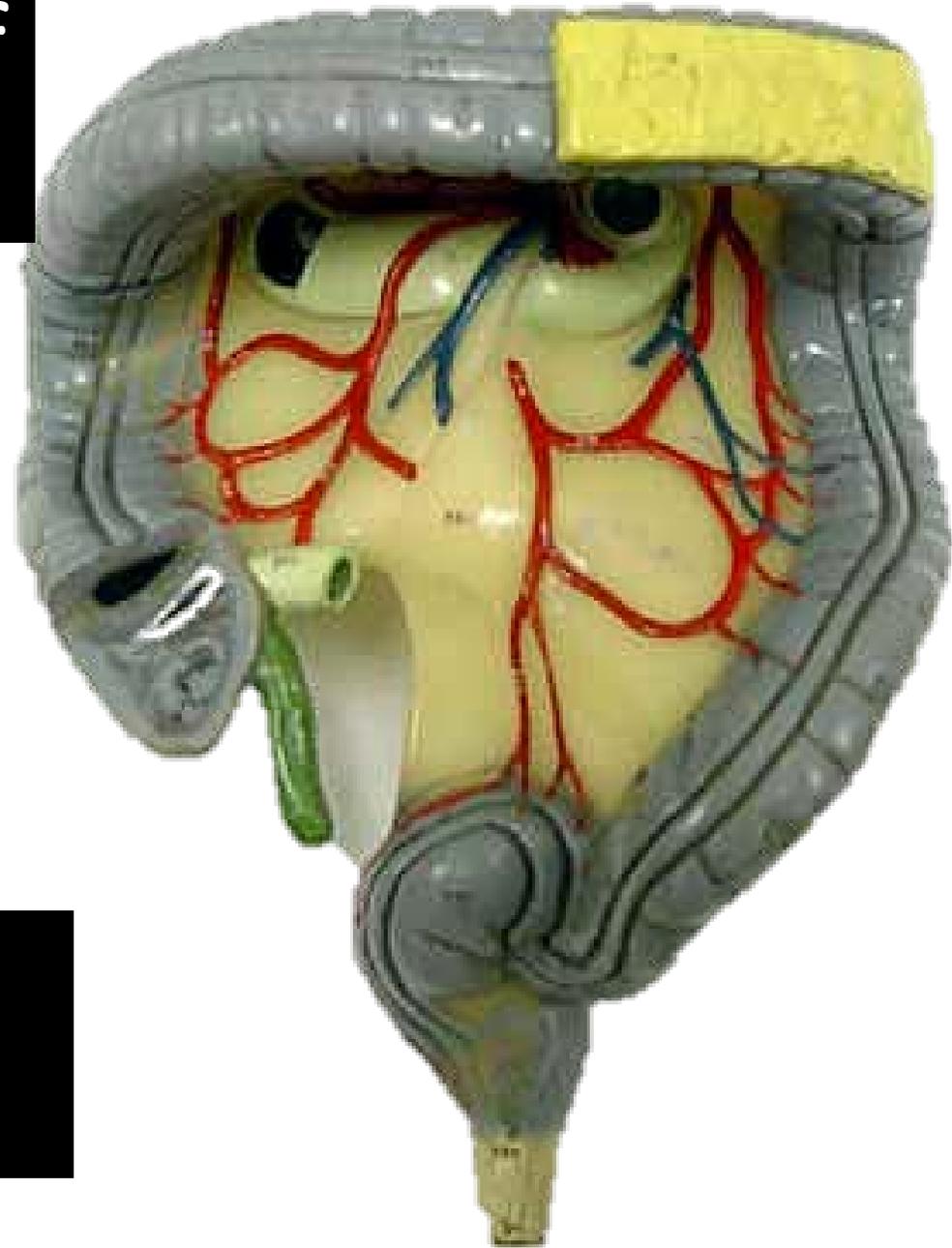
# Diaphragm



What is the function of the large intestine?

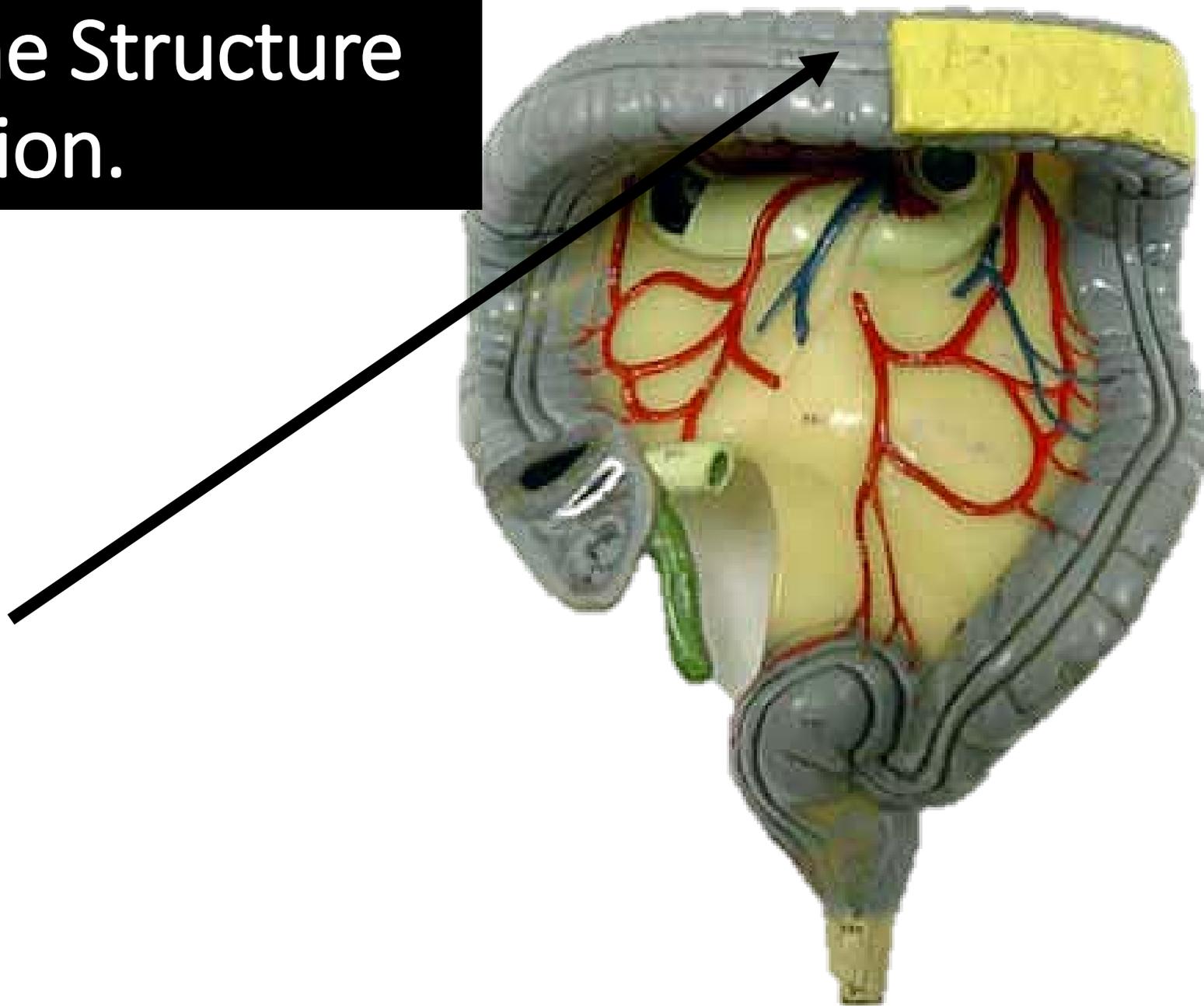


What is the function of the large intestine?



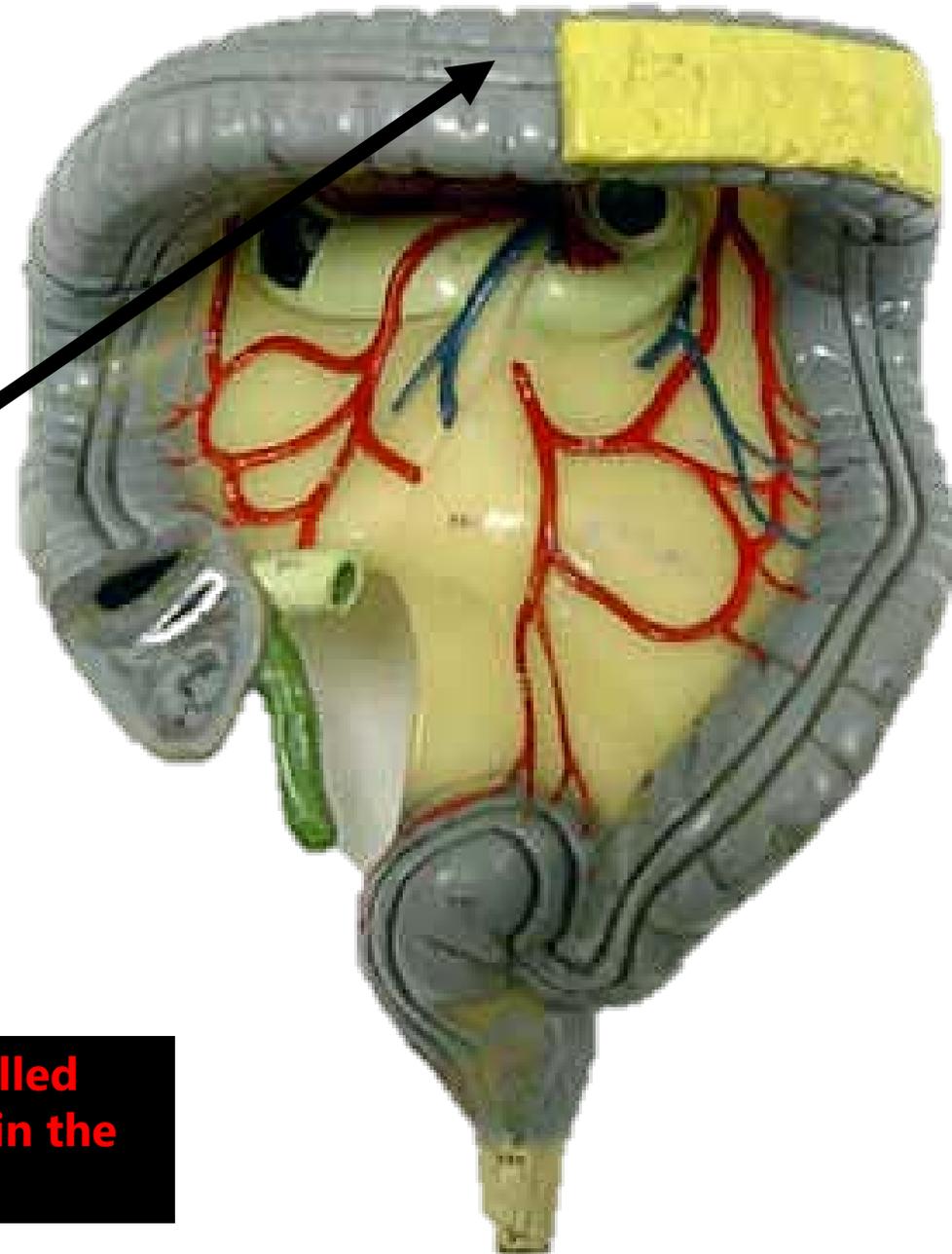
To concentrate and eliminate waste.

Identify the Structure  
and Function.



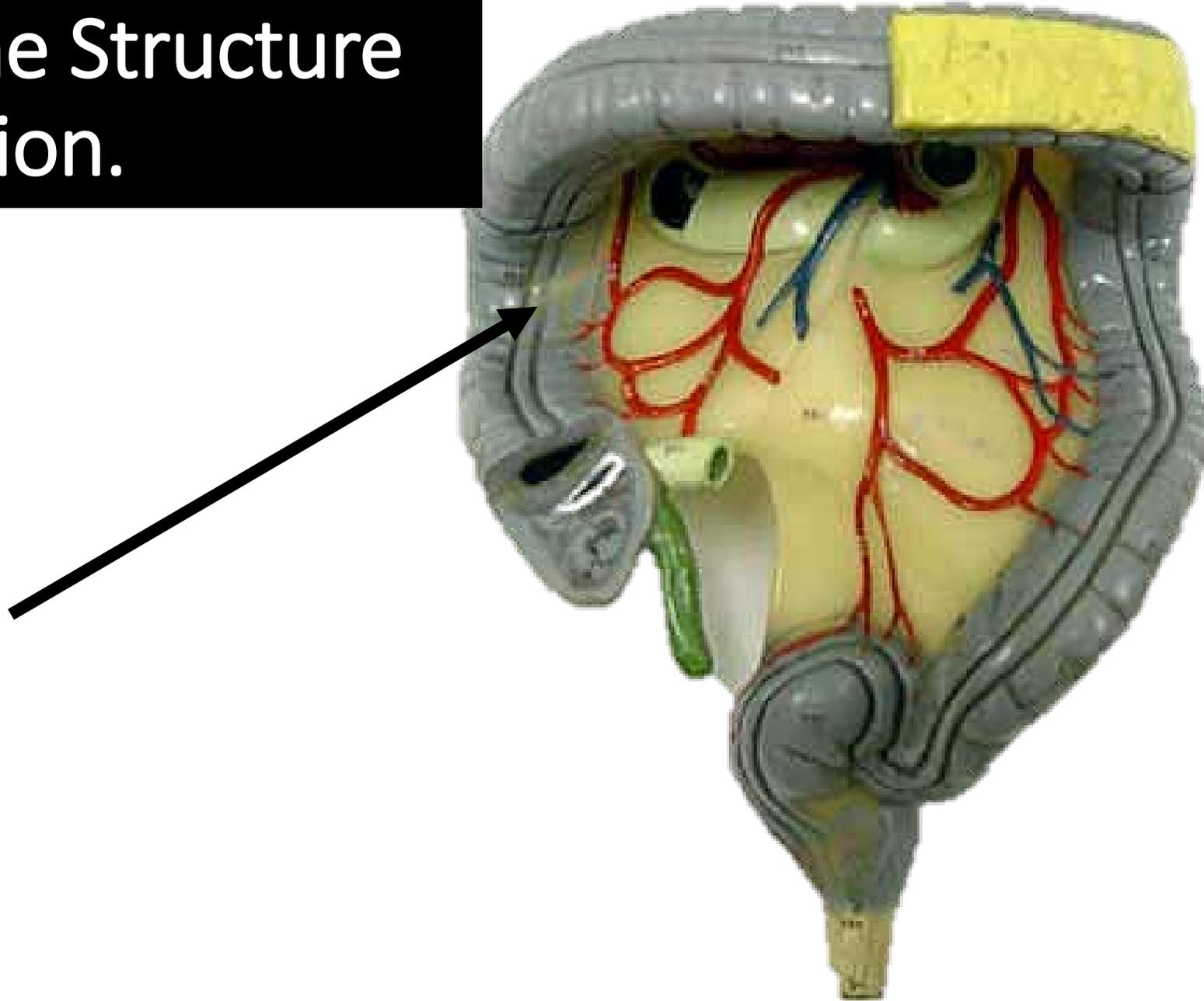
# Parts of the Large Intestine

Transverse  
Colon



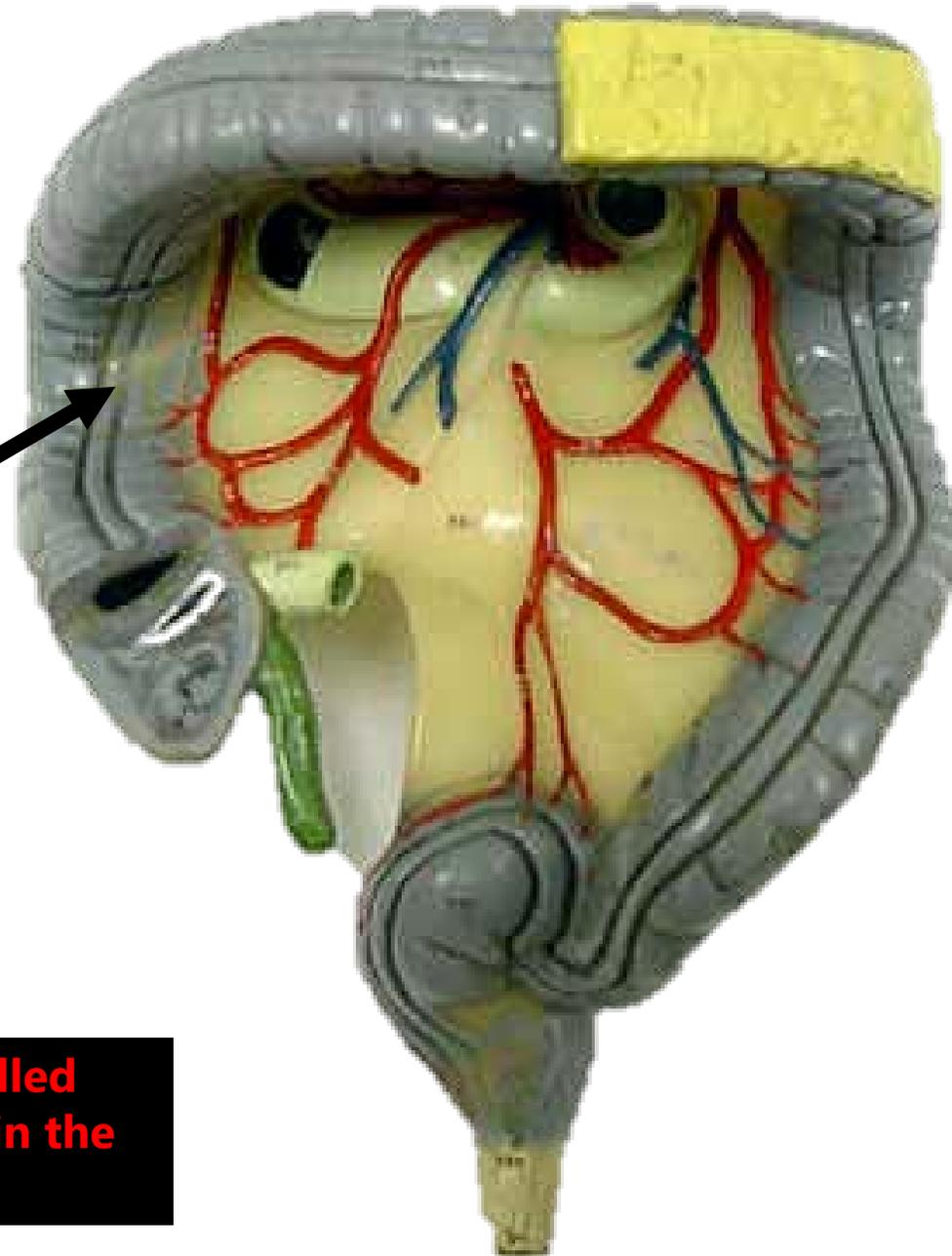
**The main function of the large intestine (also called the colon) is to concentrate and produce waste in the form of feces.**

Identify the Structure  
and Function.



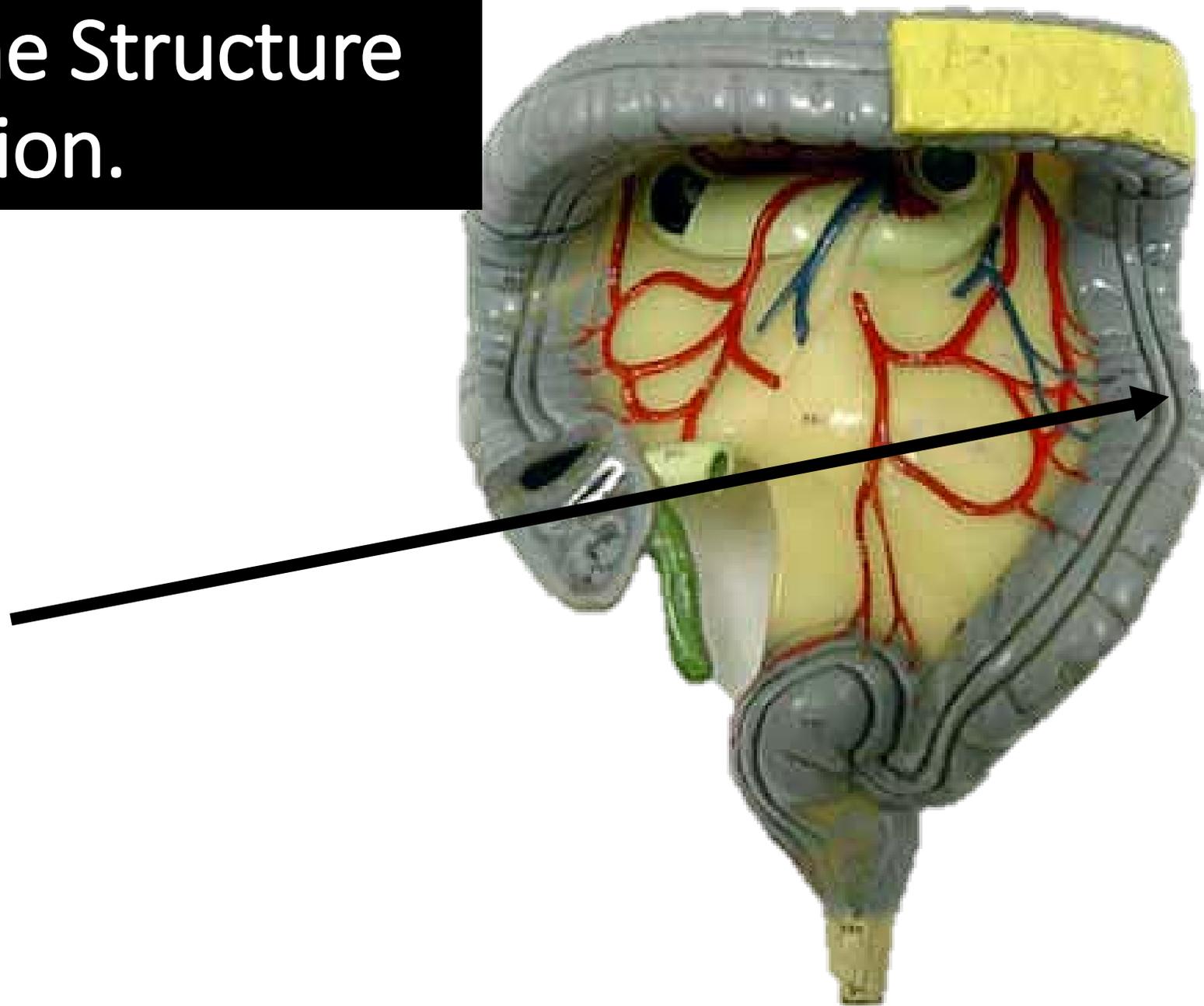
# Parts of the Large Intestine

Ascending  
Colon



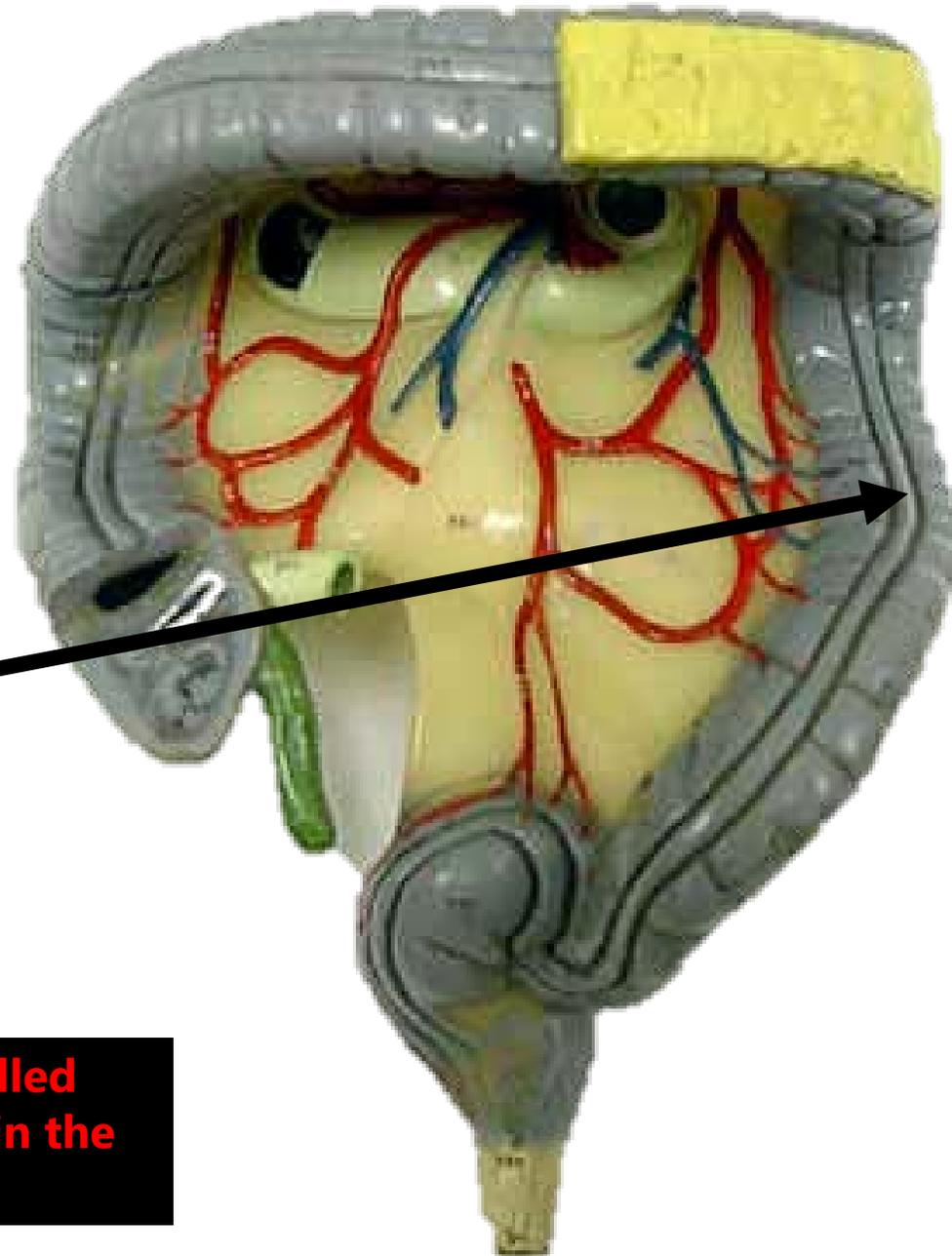
**The main function of the large intestine (also called the colon) is to concentrate and produce waste in the form of feces.**

Identify the Structure  
and Function.



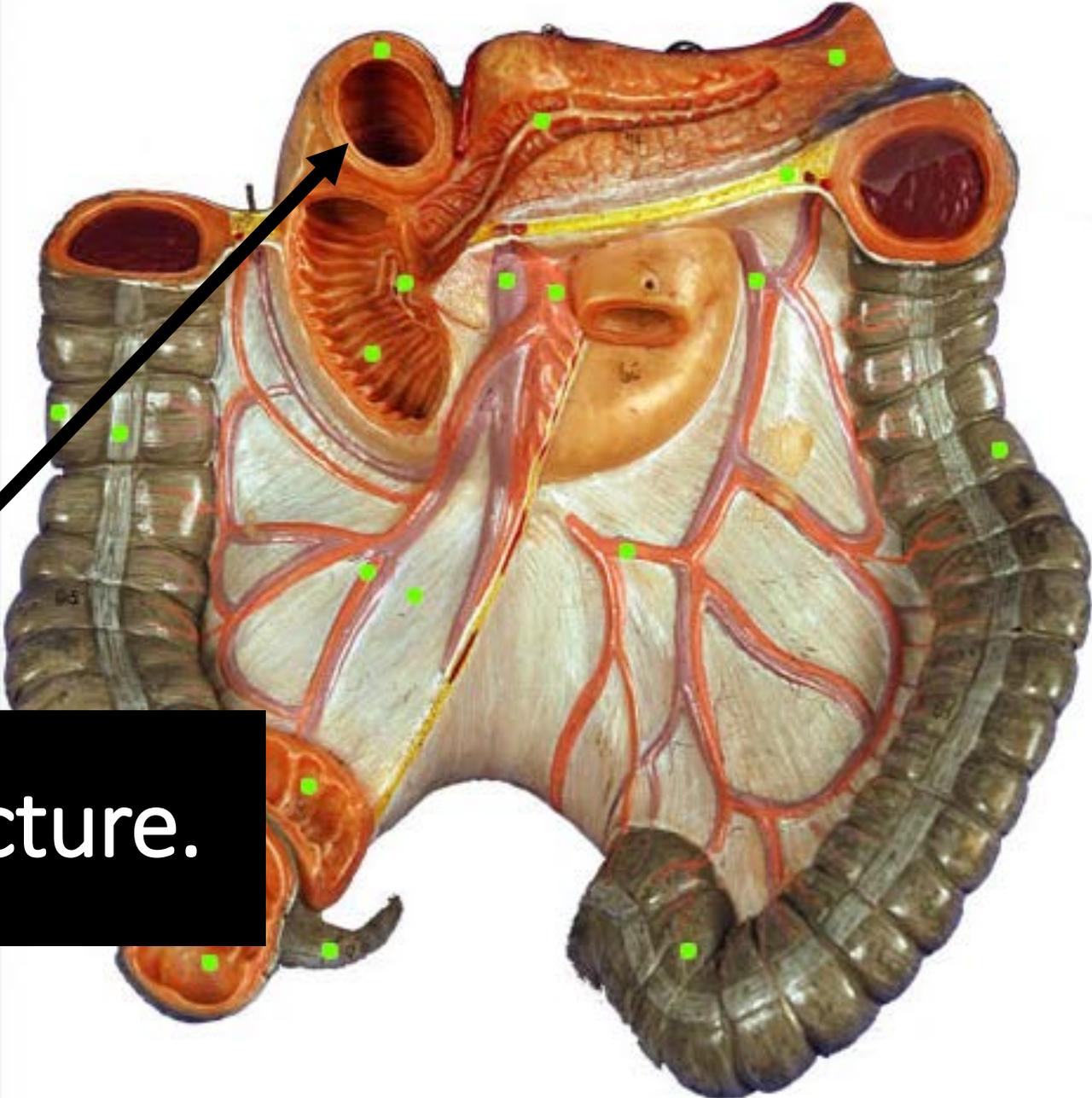
# Parts of the Large Intestine

Descending  
Colon



**The main function of the large intestine (also called the colon) is to concentrate and produce waste in the form of feces.**

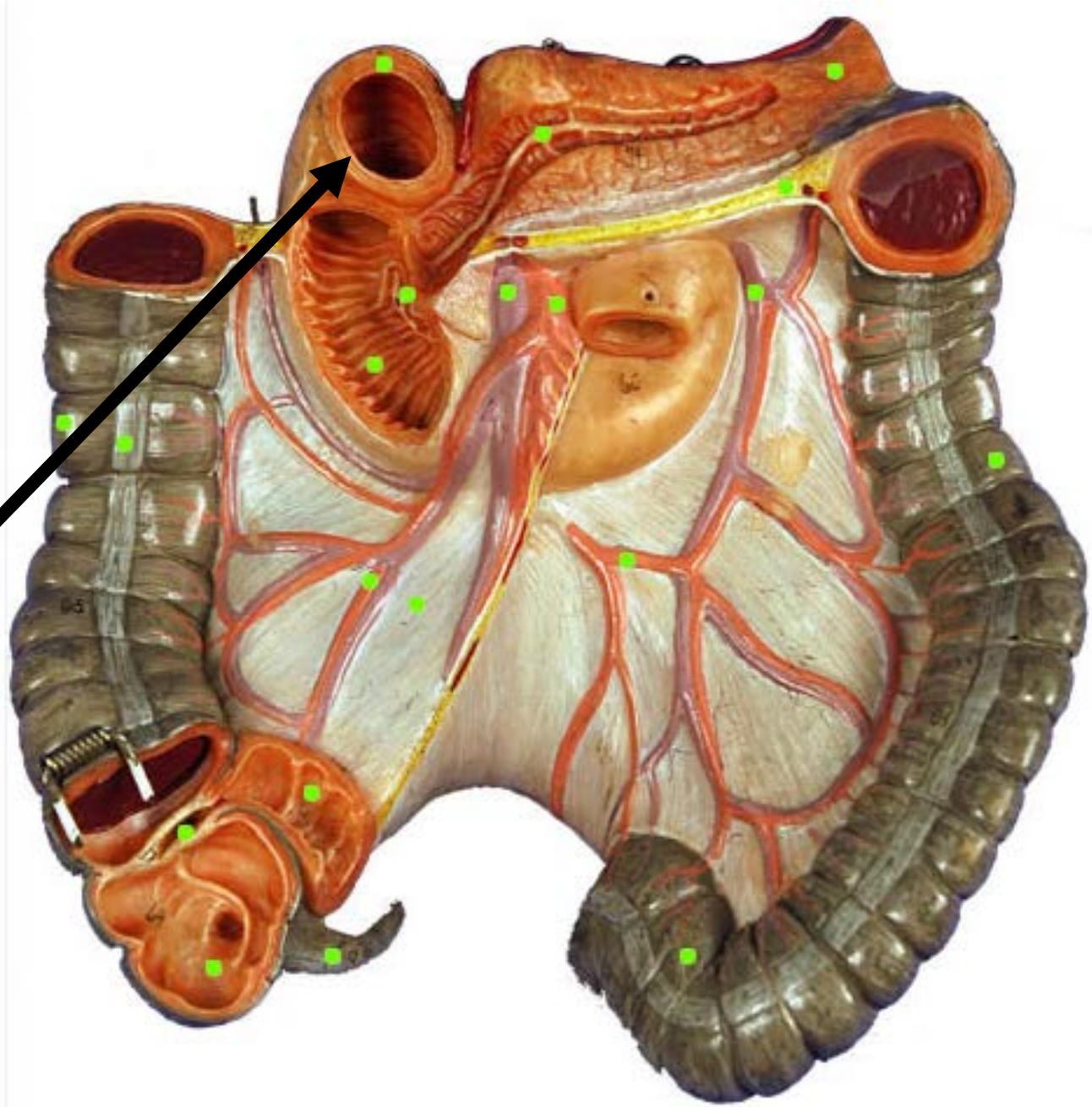
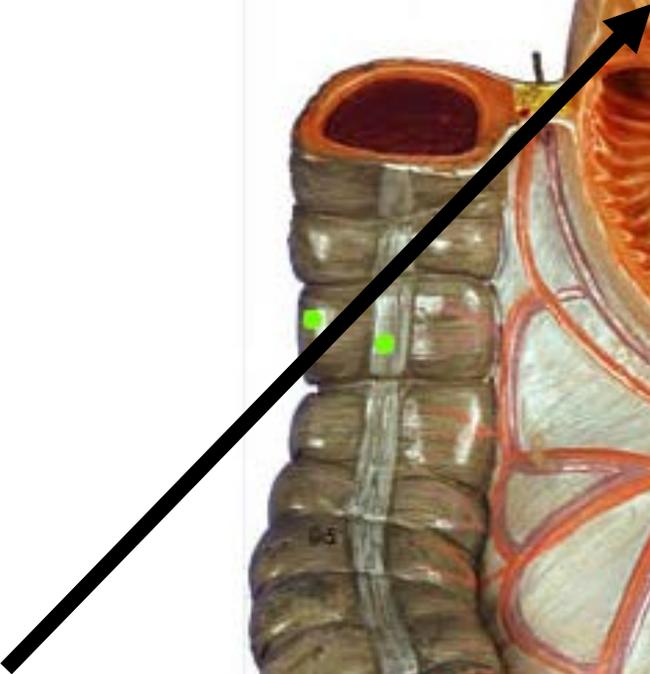
*\*Transverse Colon  
Removed*



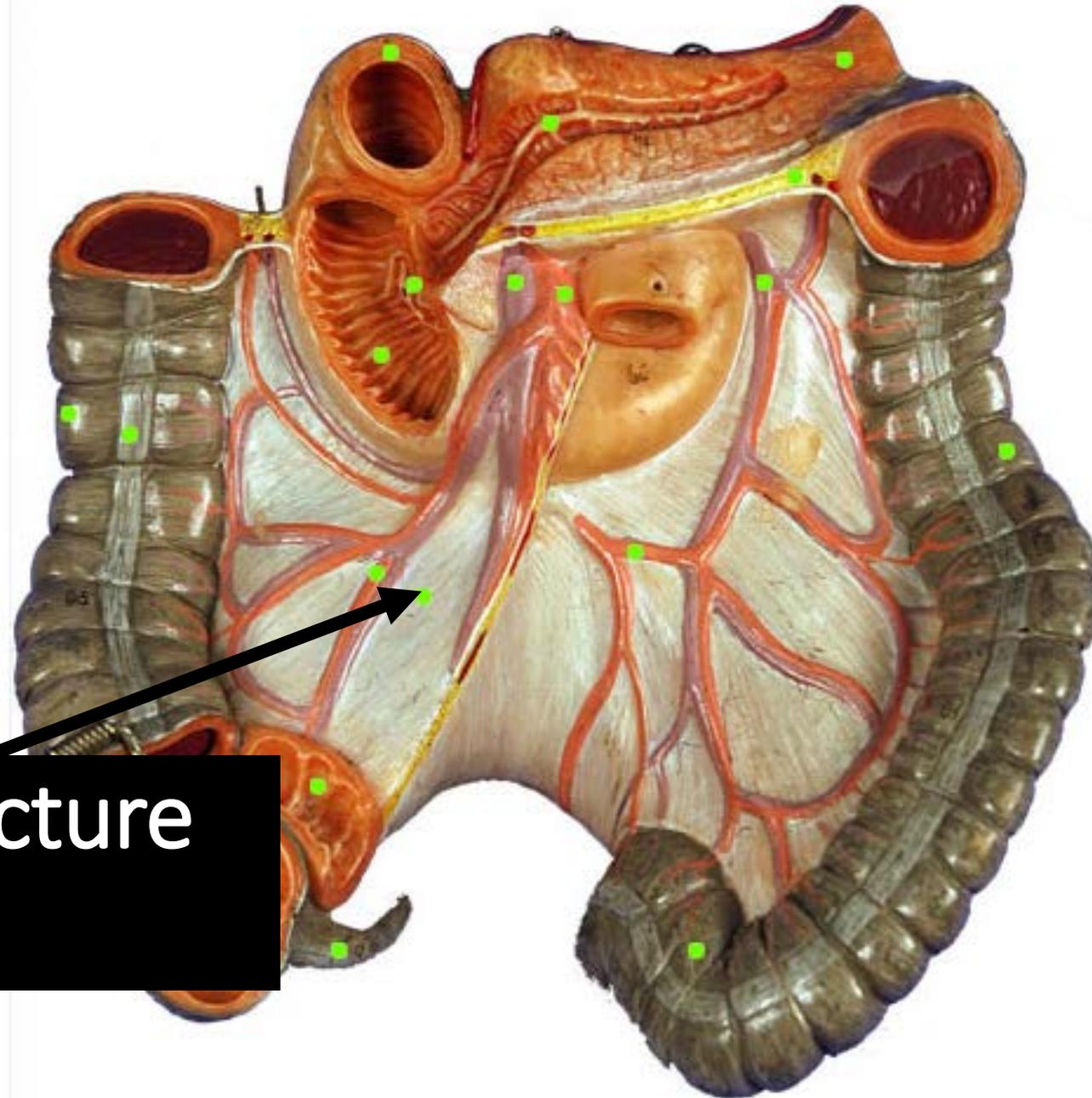
Identify the Structure.

*\*Transverse Colon  
Removed*

Pyloric  
Sphincter



*\*Transverse Colon  
Removed*

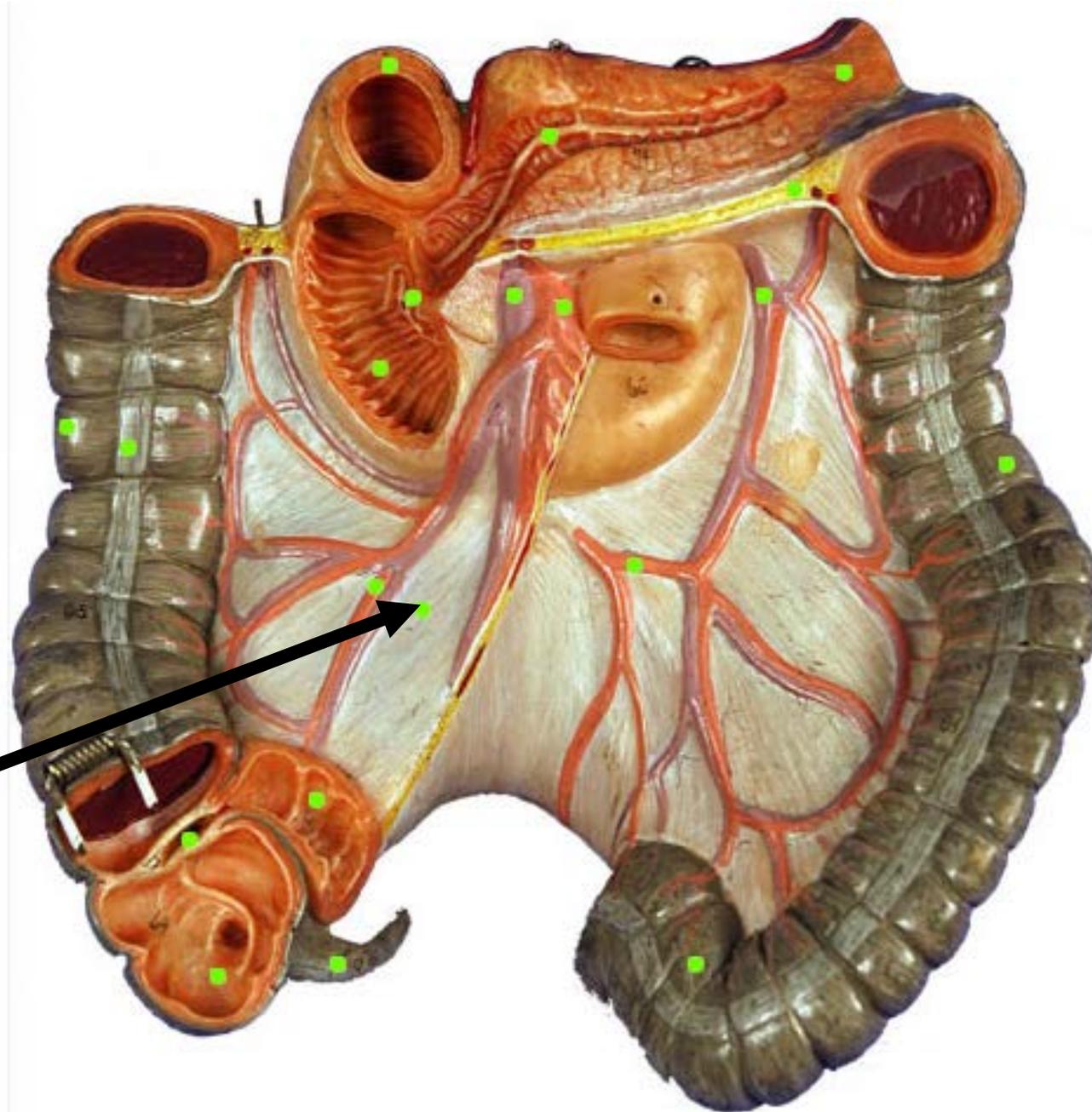


**Identify the Structure  
and function.**

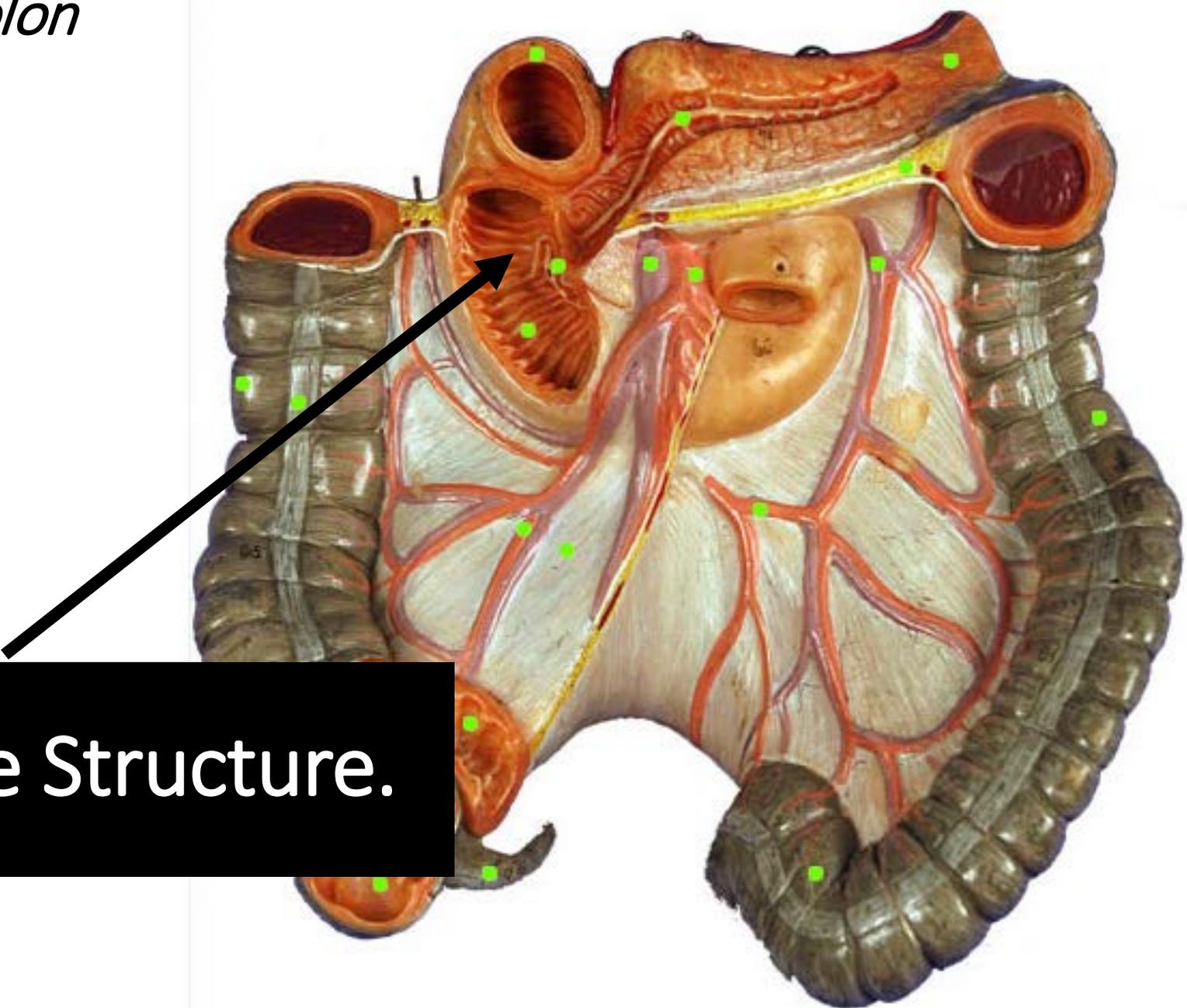
*\*Transverse Colon  
Removed*

The mesentery  
functions to connect  
the visceral organs to  
the abdominal wall.

Mesentery

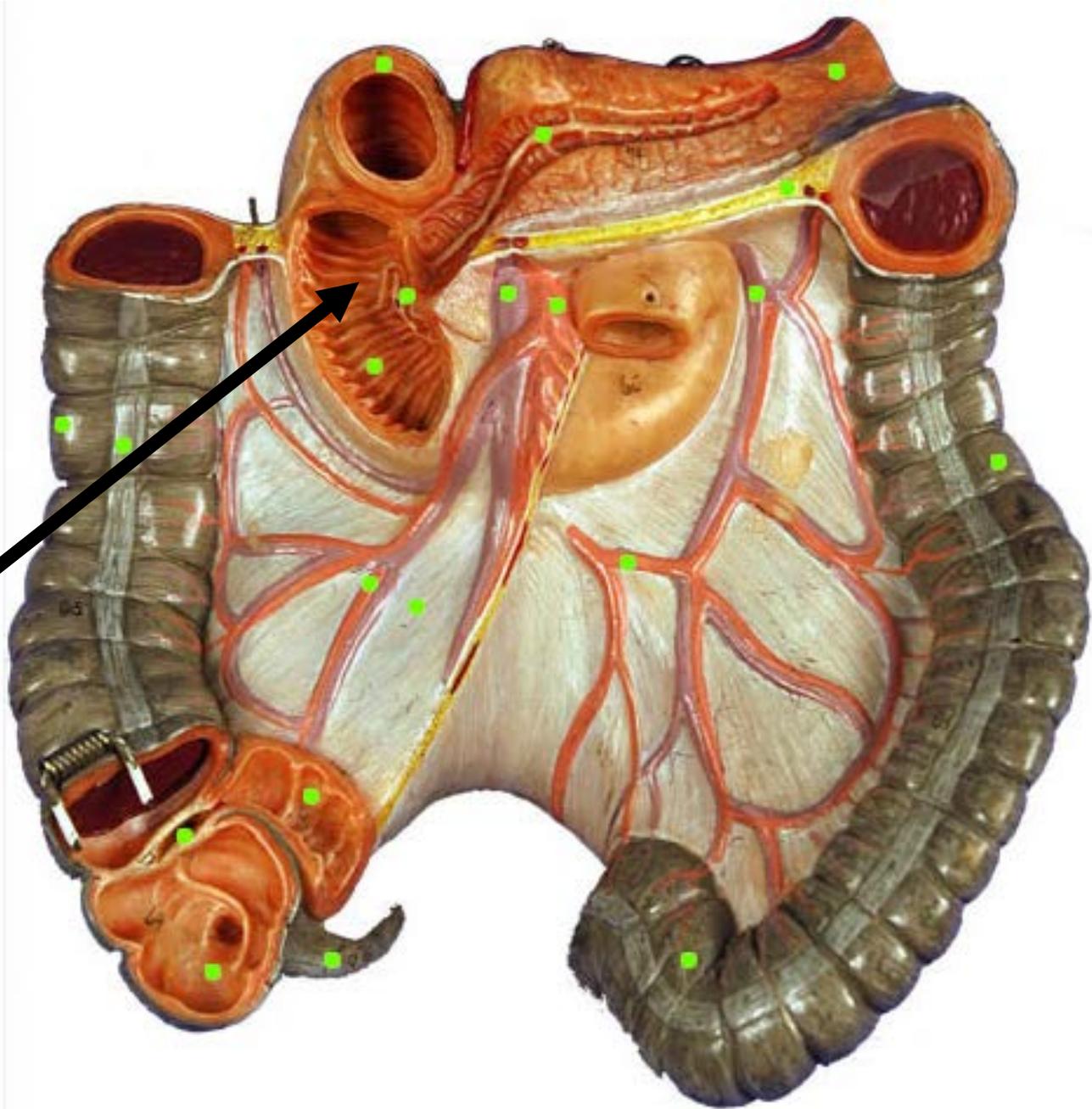


*\*Transverse Colon  
Removed*



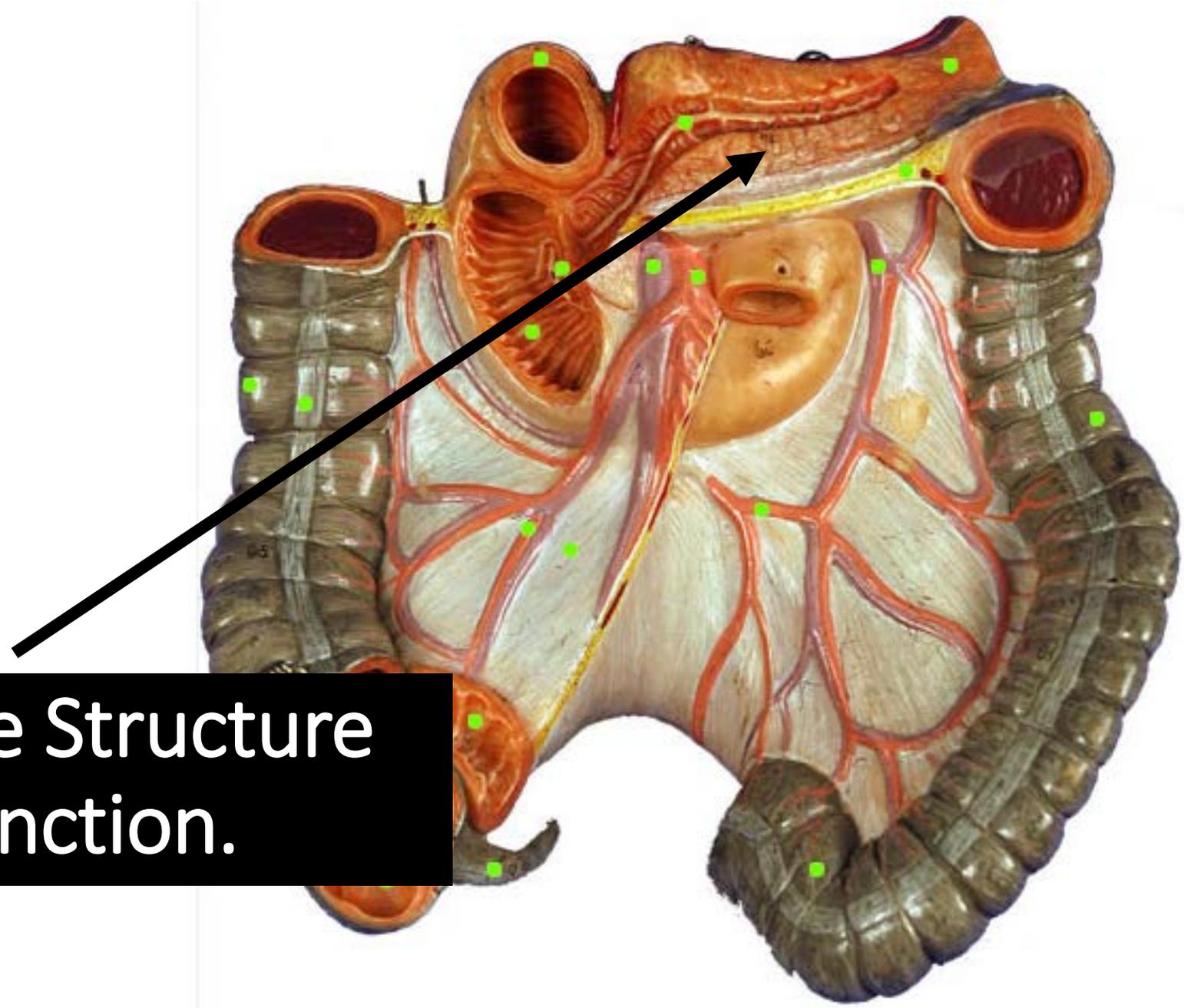
Identify the Structure.

*\*Transverse Colon  
Removed*



Duodenum

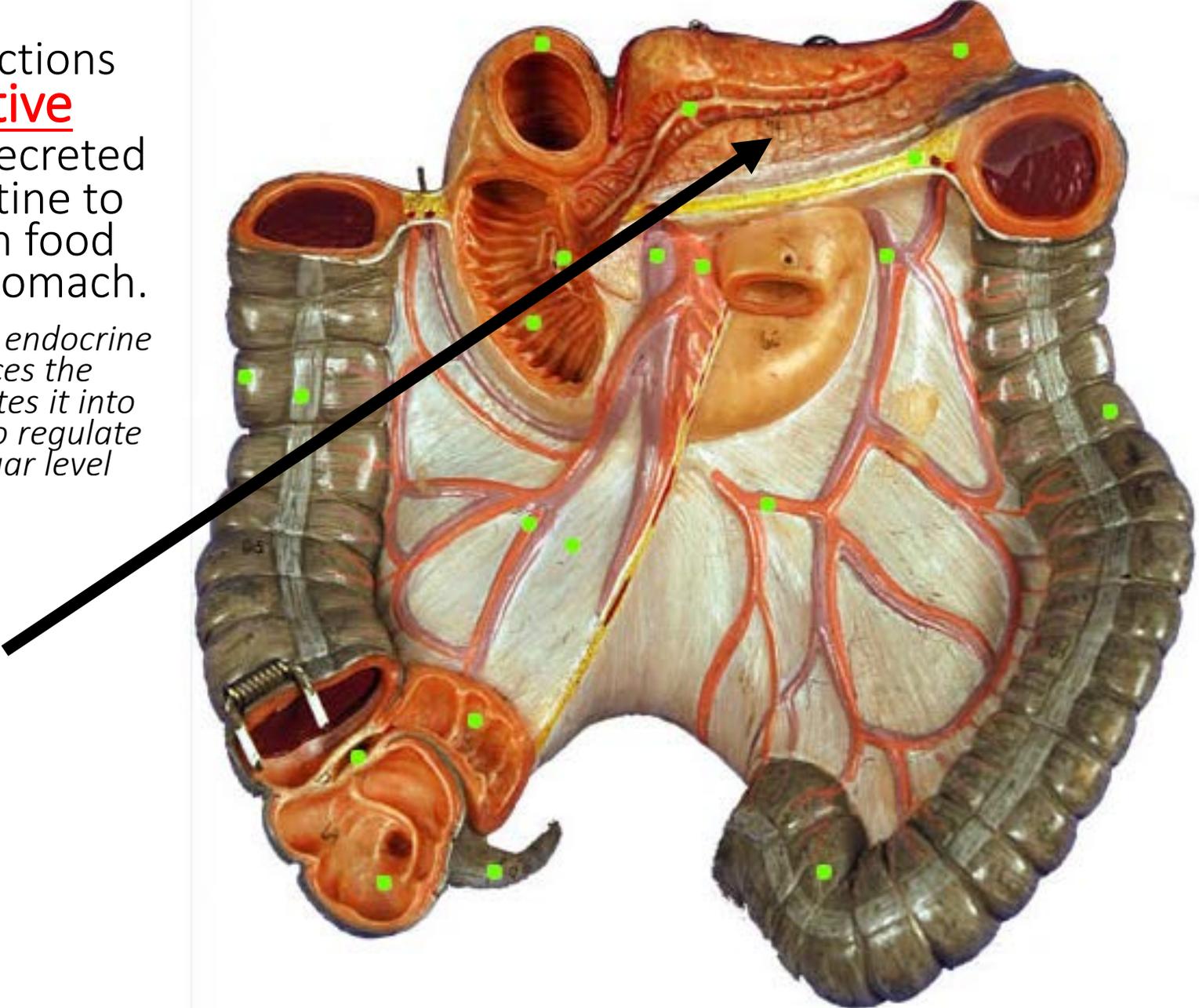
Identify the Structure and the Function.



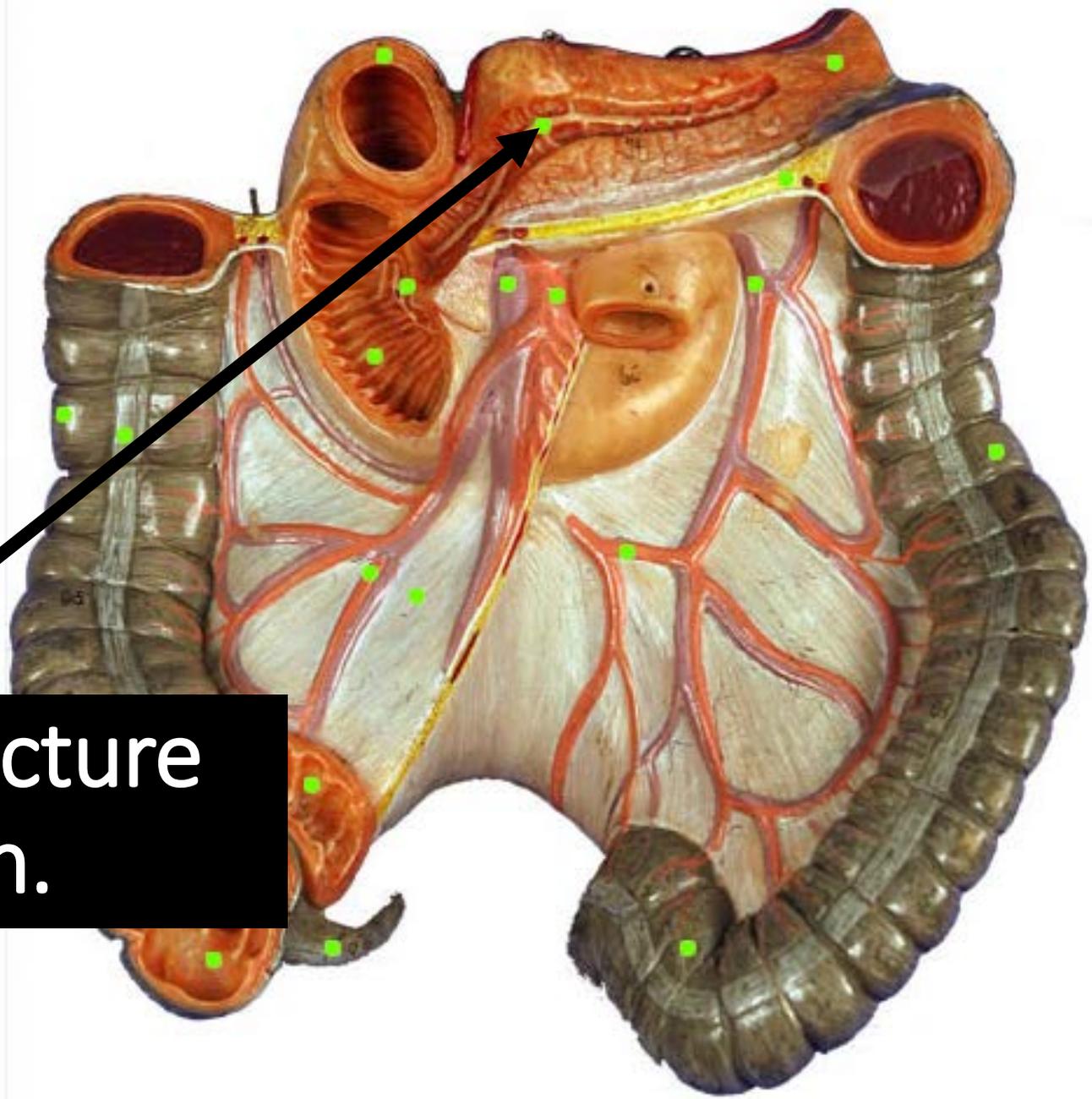
The PANCREAS functions produce digestive enzymes that are secreted into the small intestine to further break down food after it has left the stomach.

*FYI: The pancreas is also an endocrine gland because it produces the hormone insulin and secretes it into the bloodstream in order to regulate the body's glucose or sugar level*

Pancreas



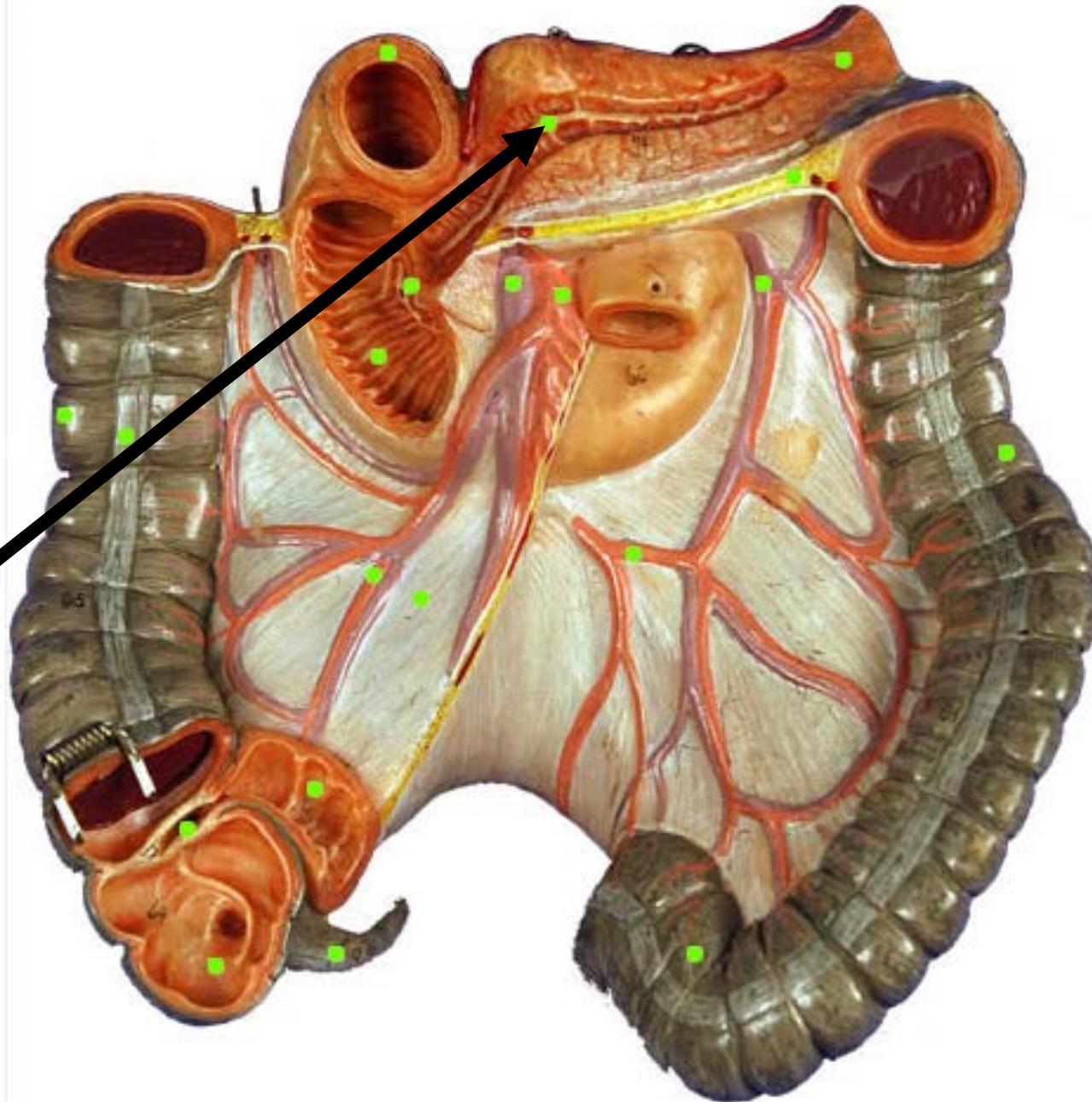
Identify the Structure and the Function.

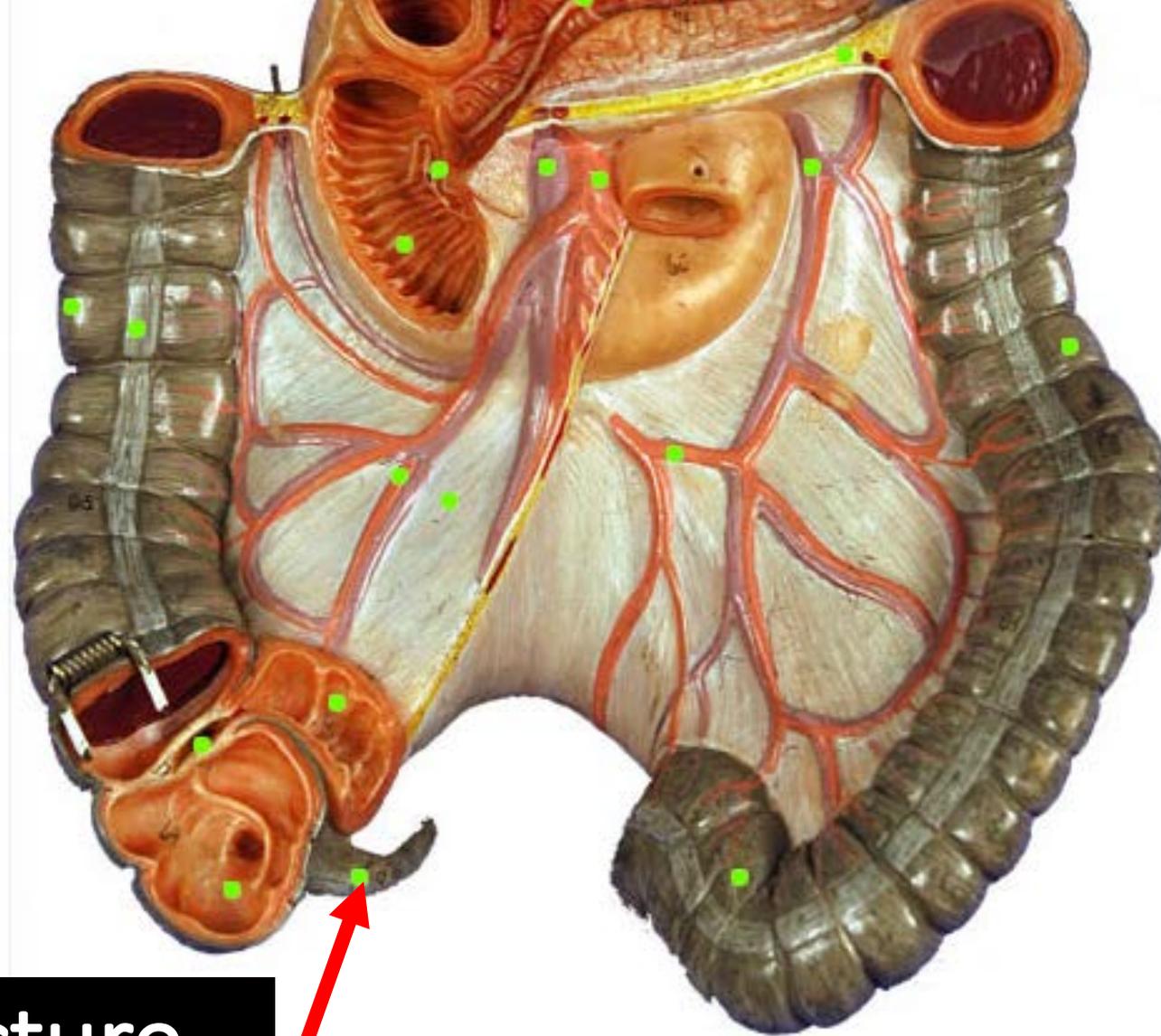


The PANCREATIC DUCT functions to deliver the digestive enzymes from the pancreas (where they are produced) to the duodenum of the small intestine. *These enzymes act to further break down food after it has left the stomach.*

*FYI: The pancreas is also an endocrine gland because it produces the hormone insulin that is secreted into the bloodstream to regulate glucose levels in the body.*

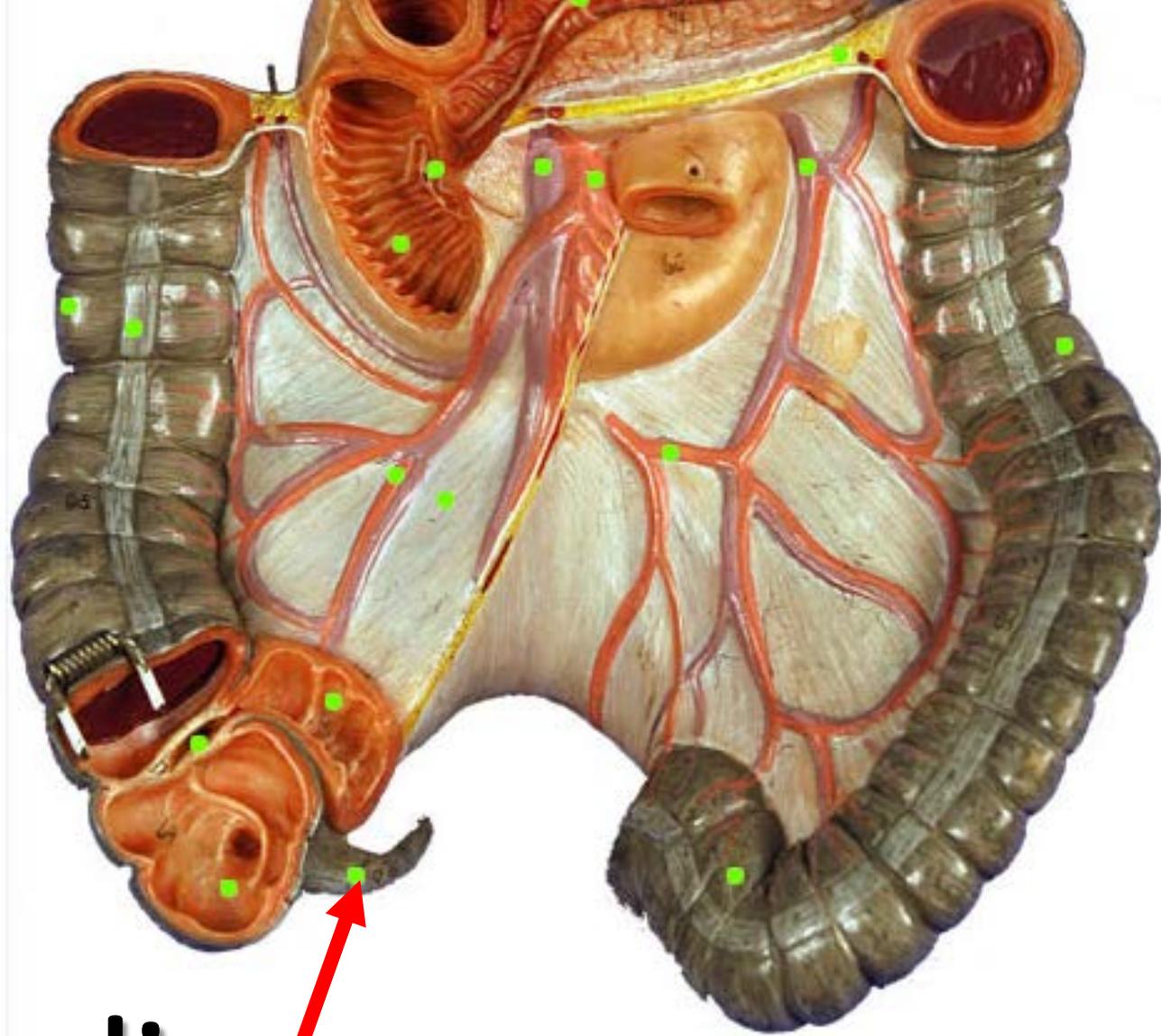
**Pancreatic  
Duct**



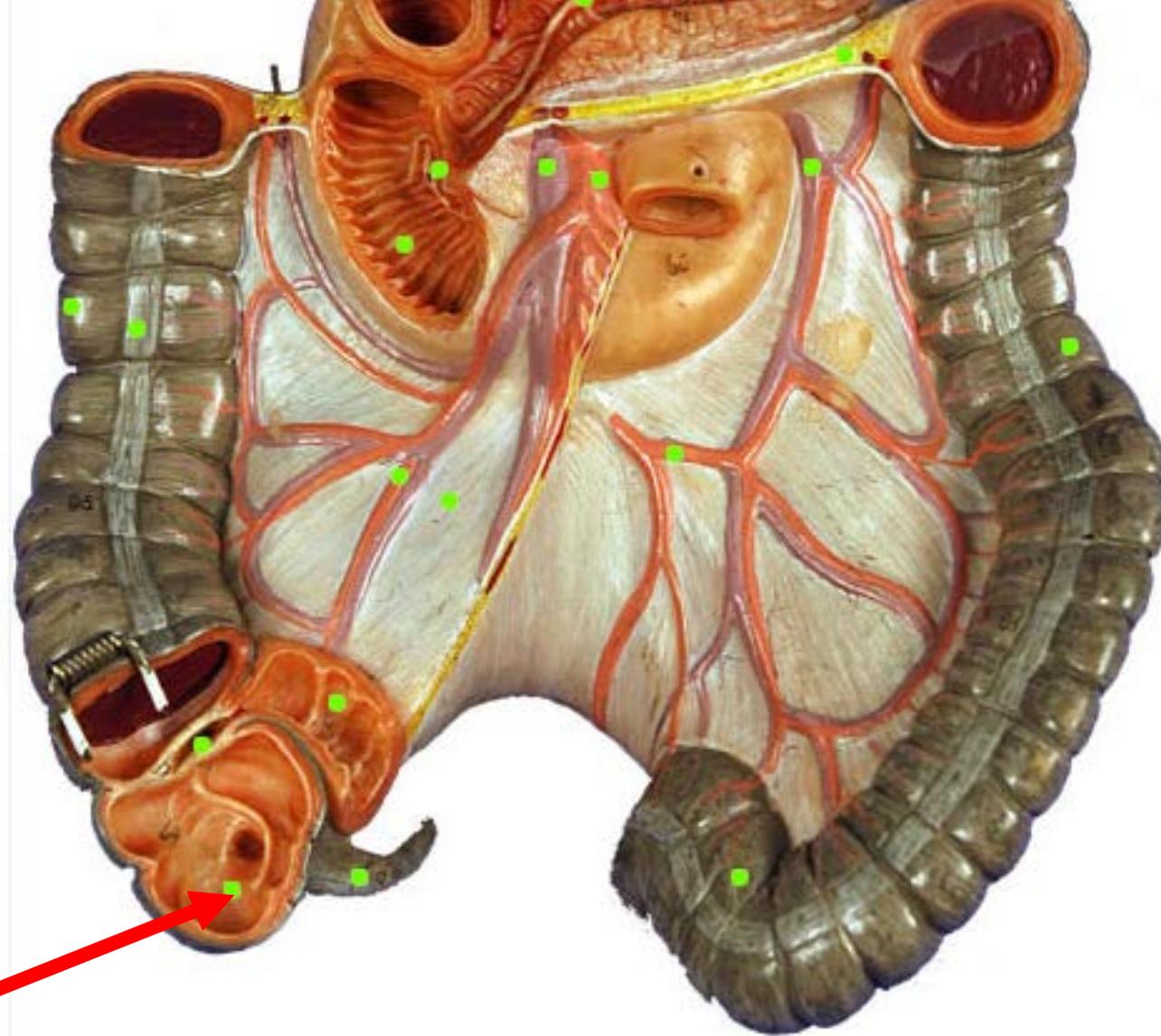


Identify the Structure and Function.

Has immune function to house and release lymphocytes.

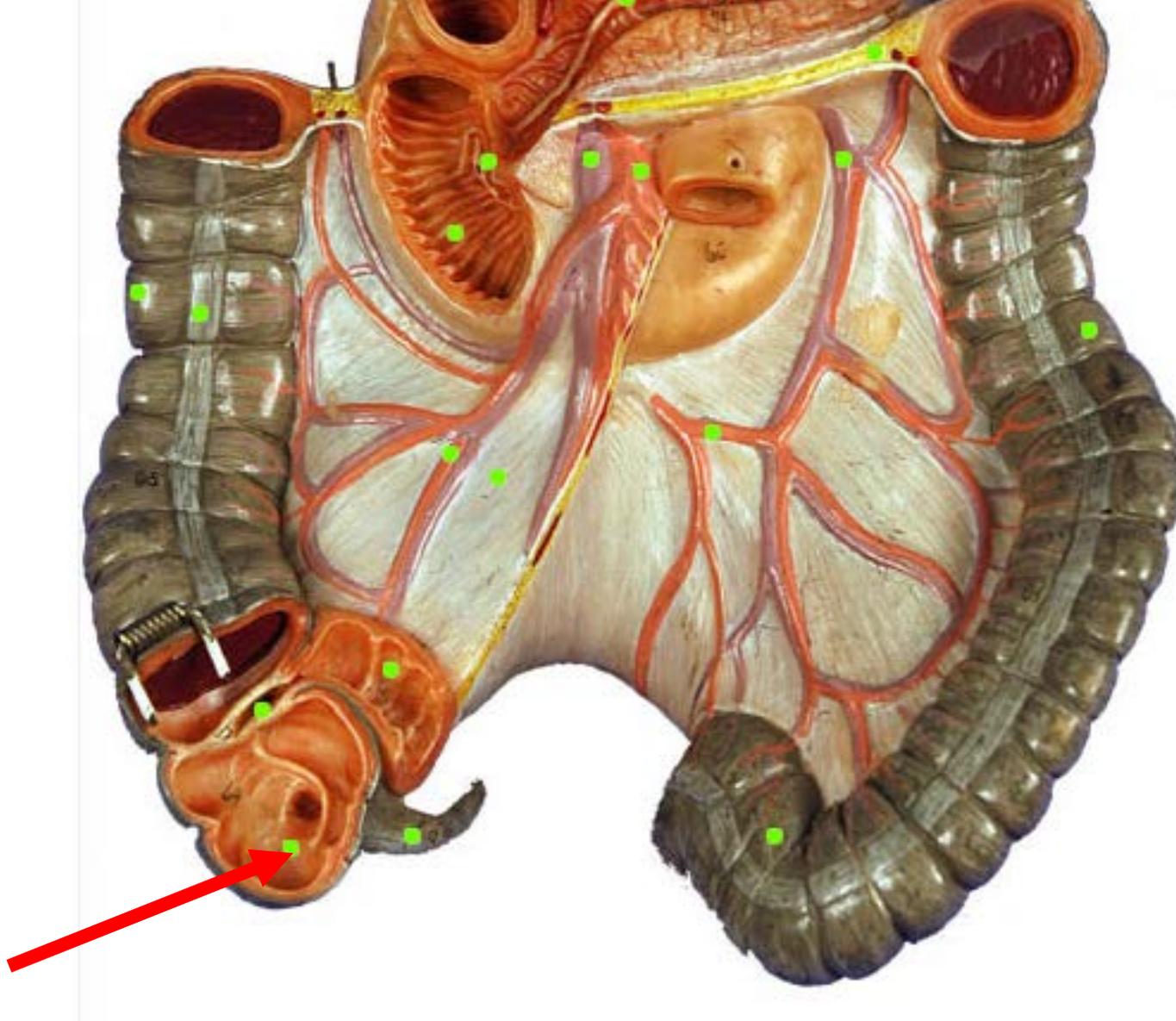


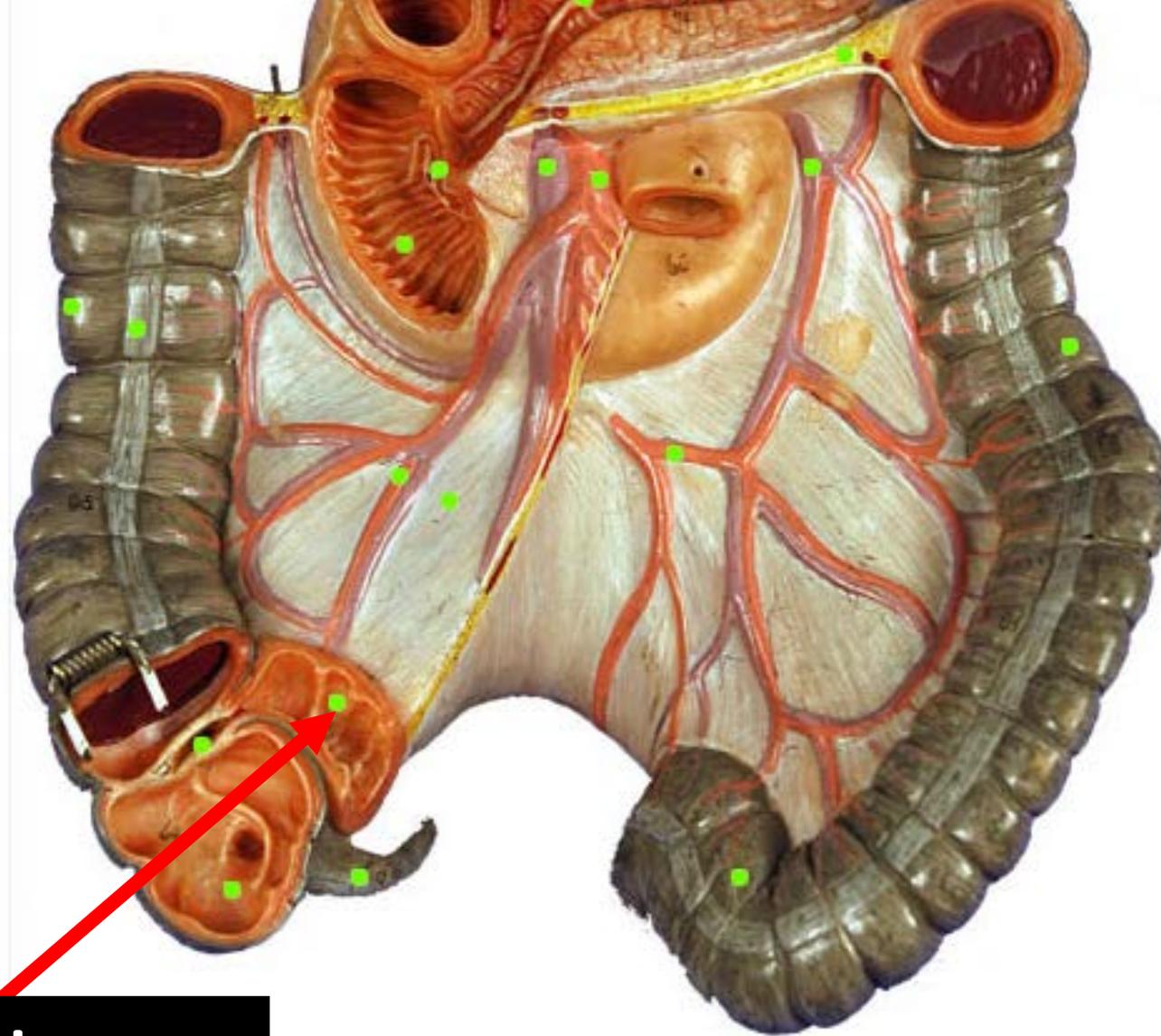
Appendix



Identify the  
Structure.

Cecum

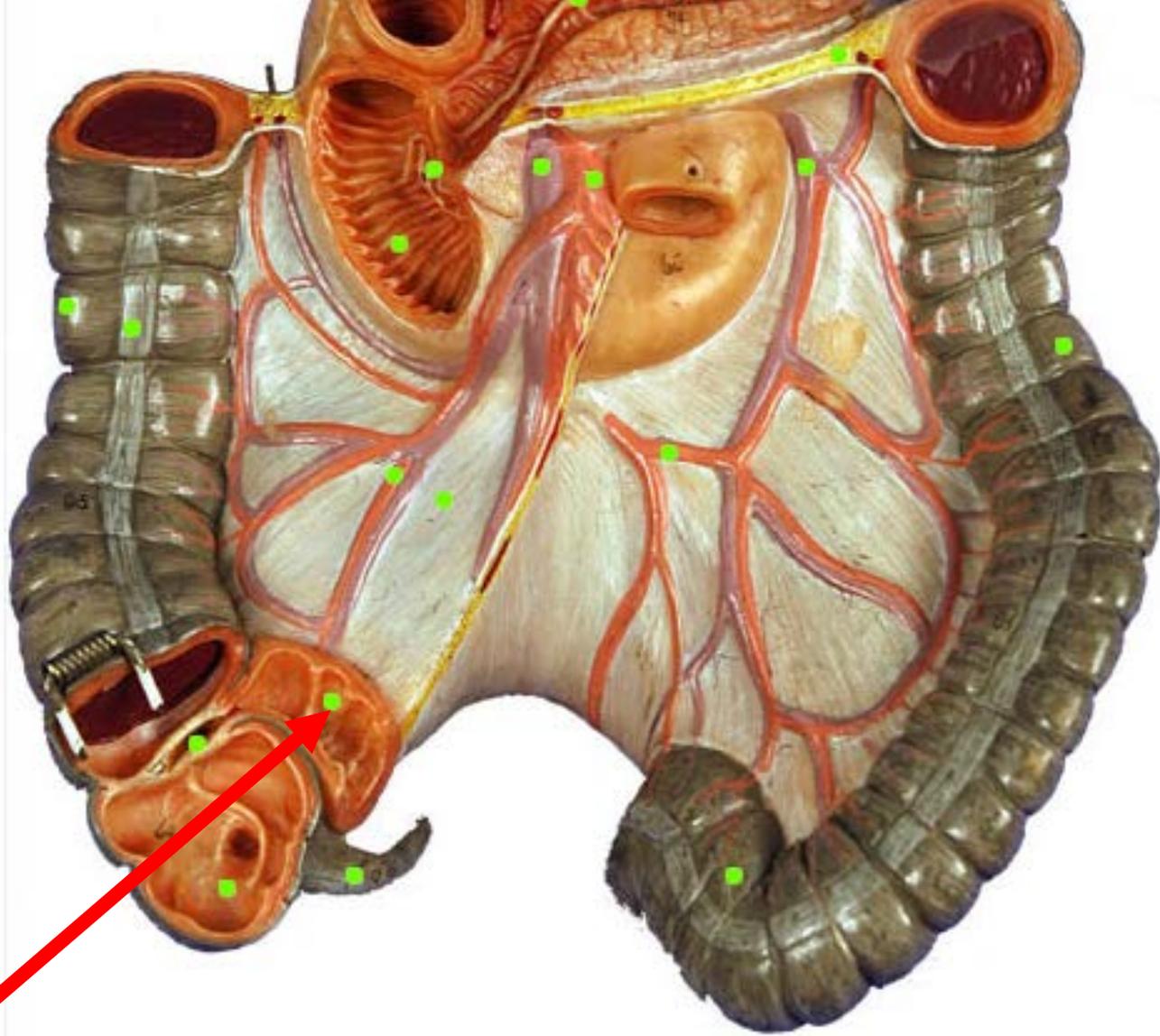




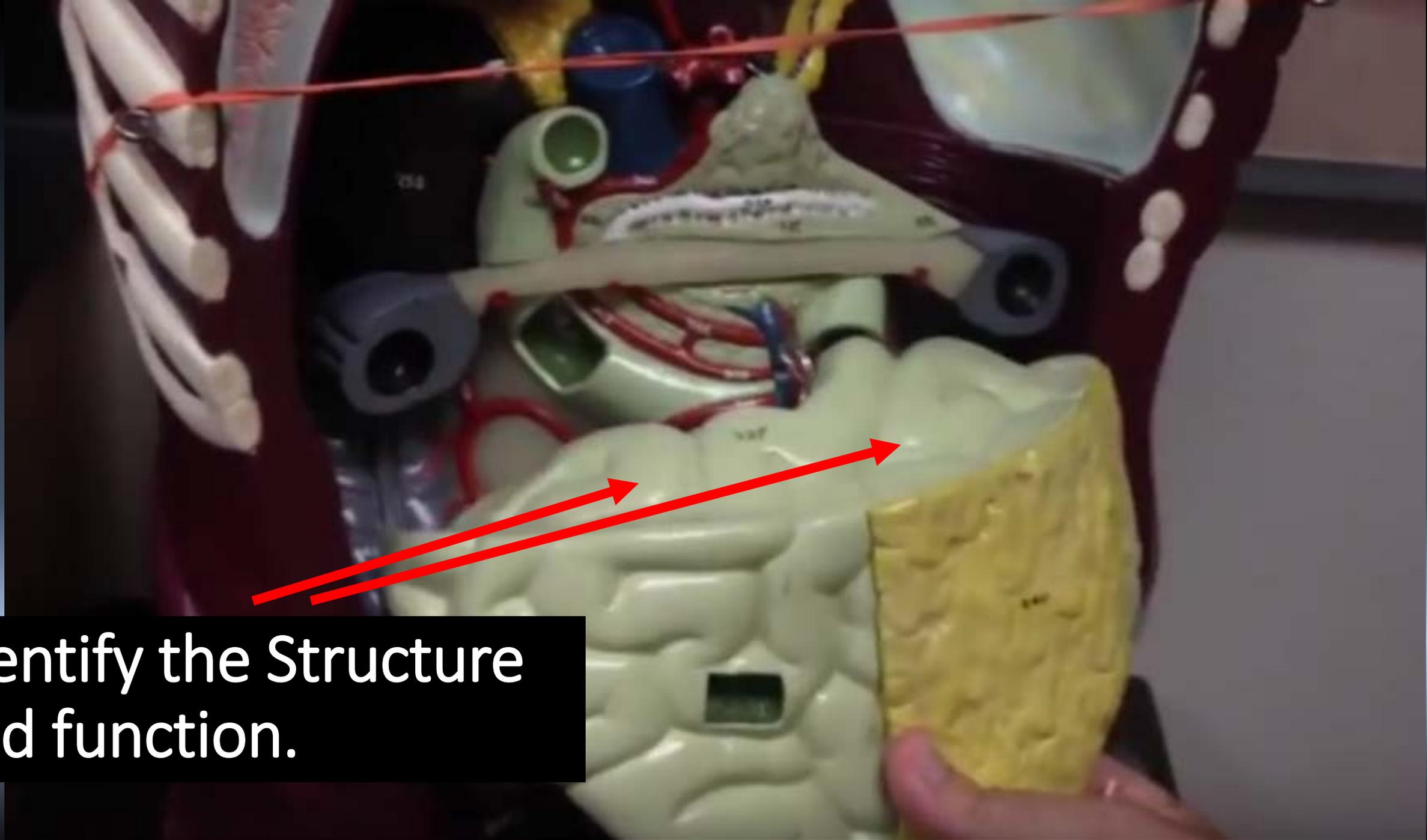
Identify the Structure  
and function.

The ileocecal valve functions to prevent substances flowing back into the ileum once they have reached the cecum.

# Ileocecal Valve



Identify the Structure  
and function.

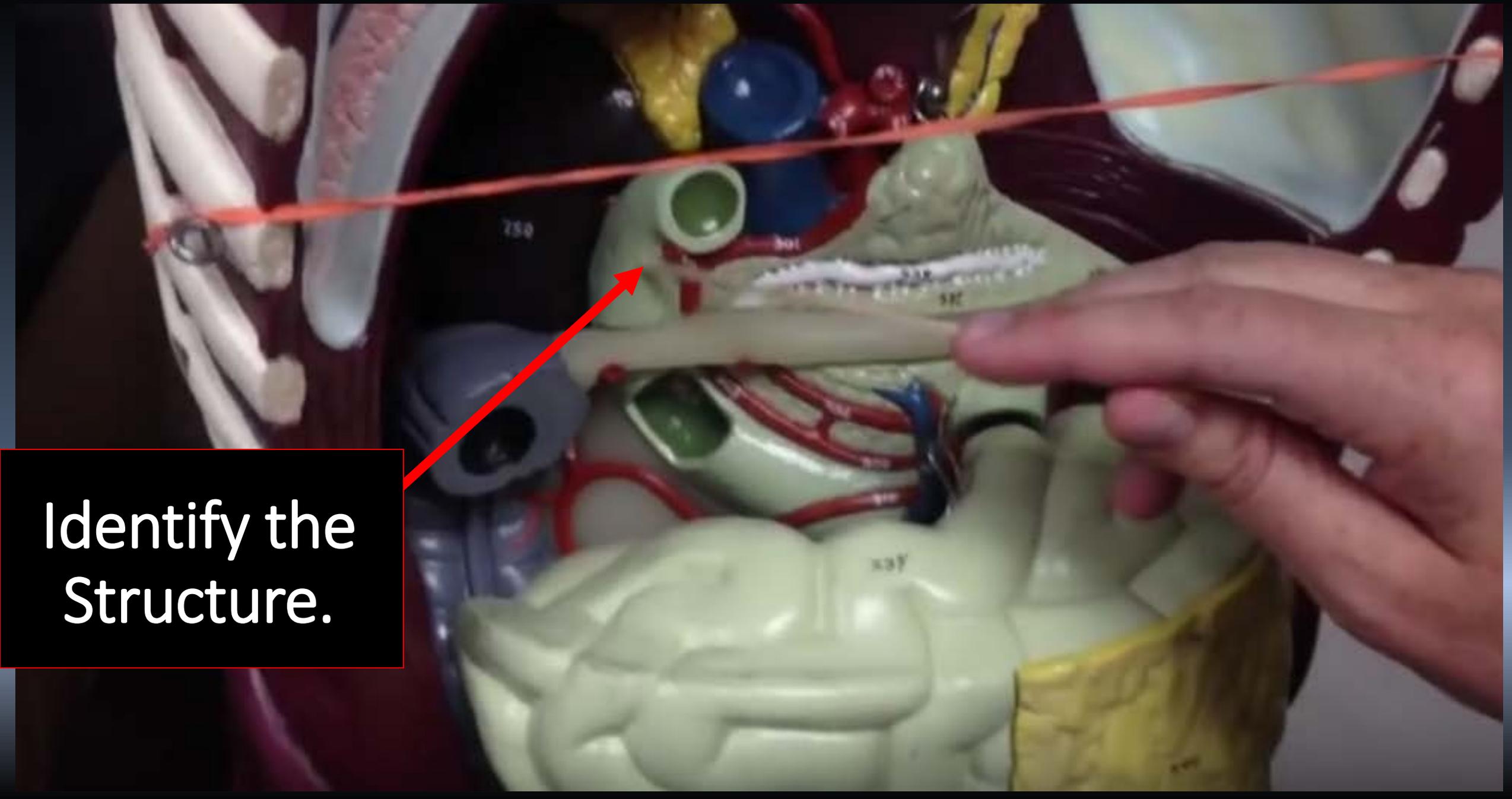


Digestion and absorption of nutrients.

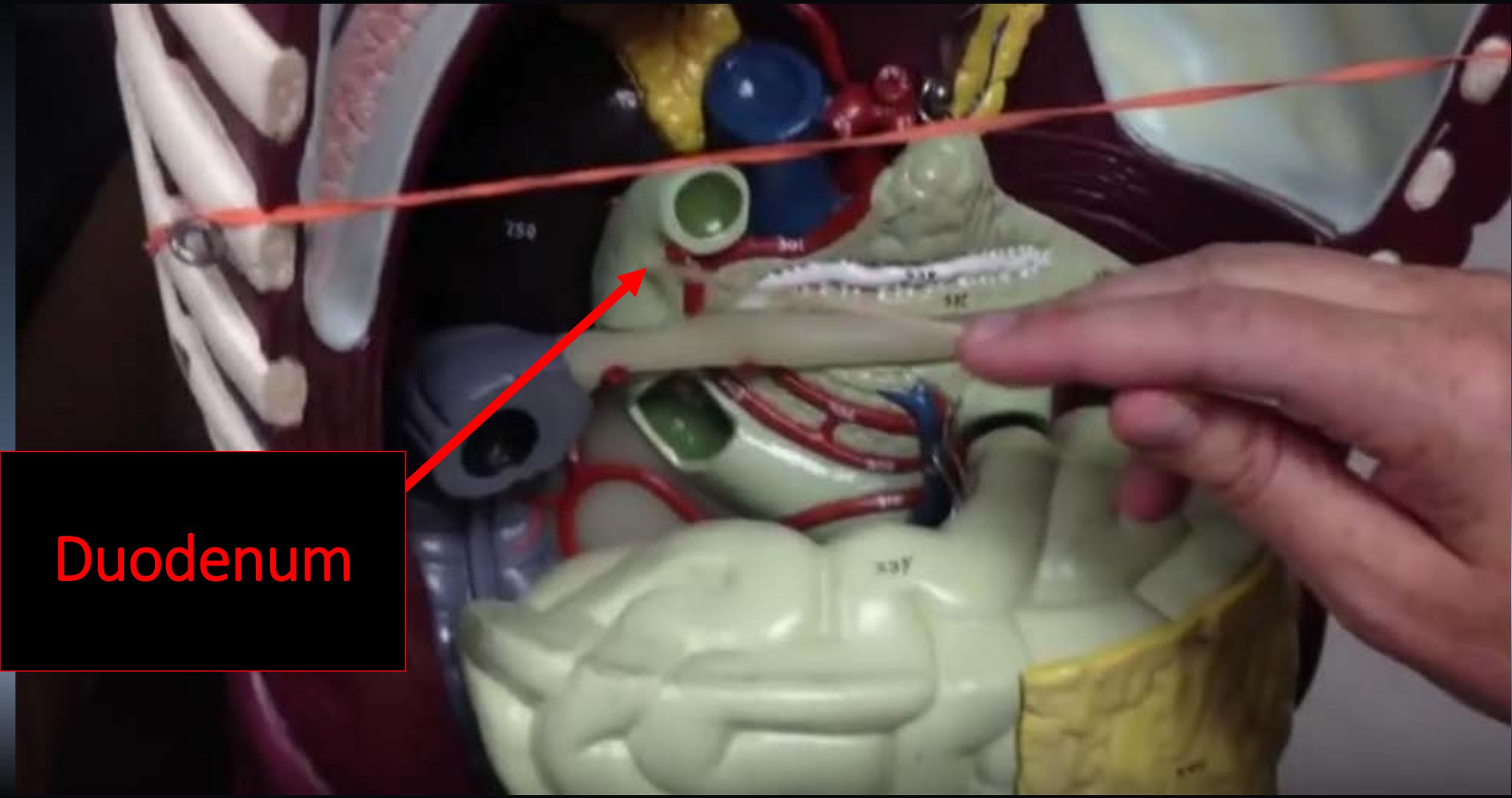
*The **small intestine** is the part of the **intestine** is where 90% of the digestion and absorption of food occurs.*

Jejunum



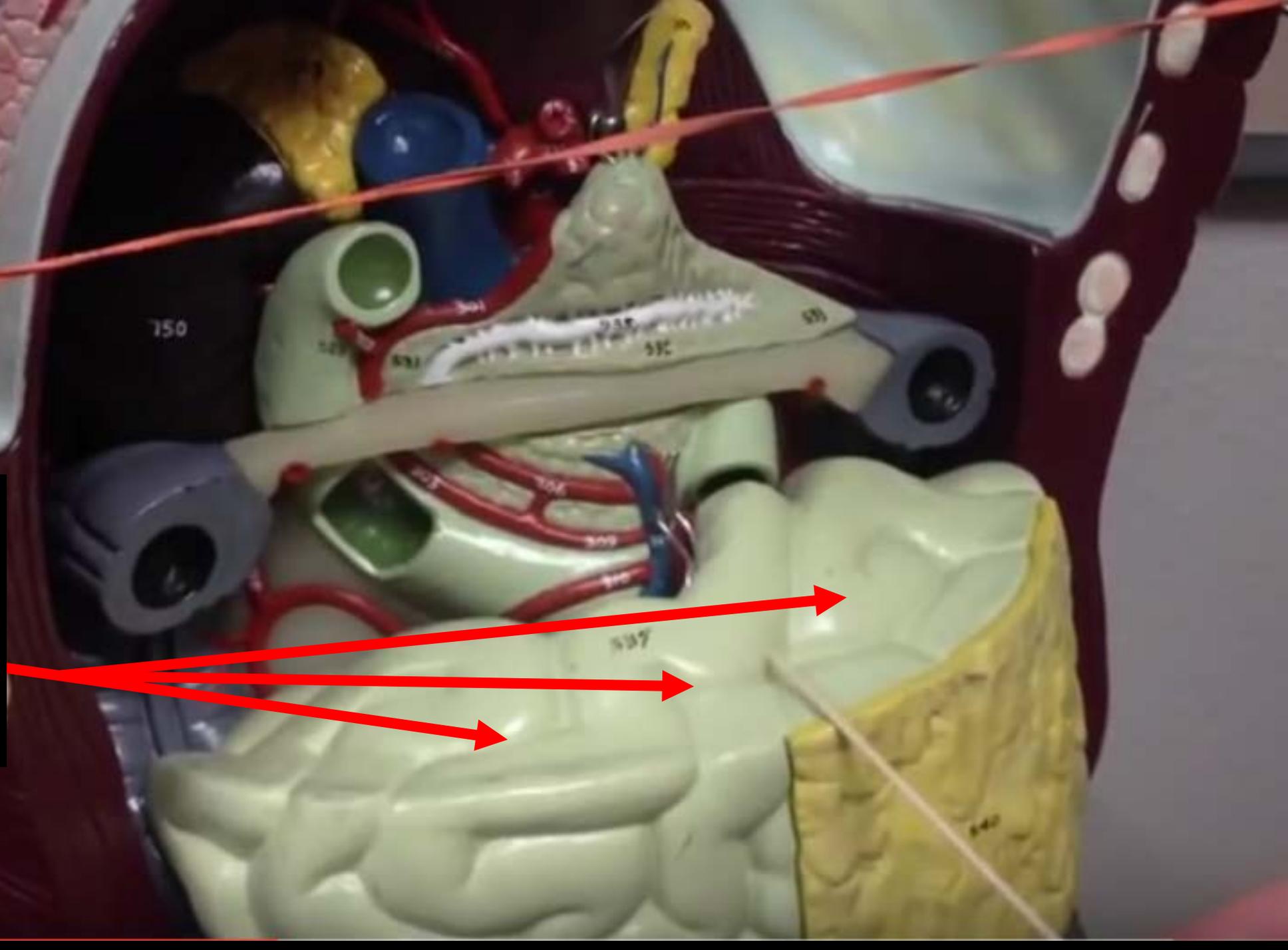


Identify the Structure.



Duodenum

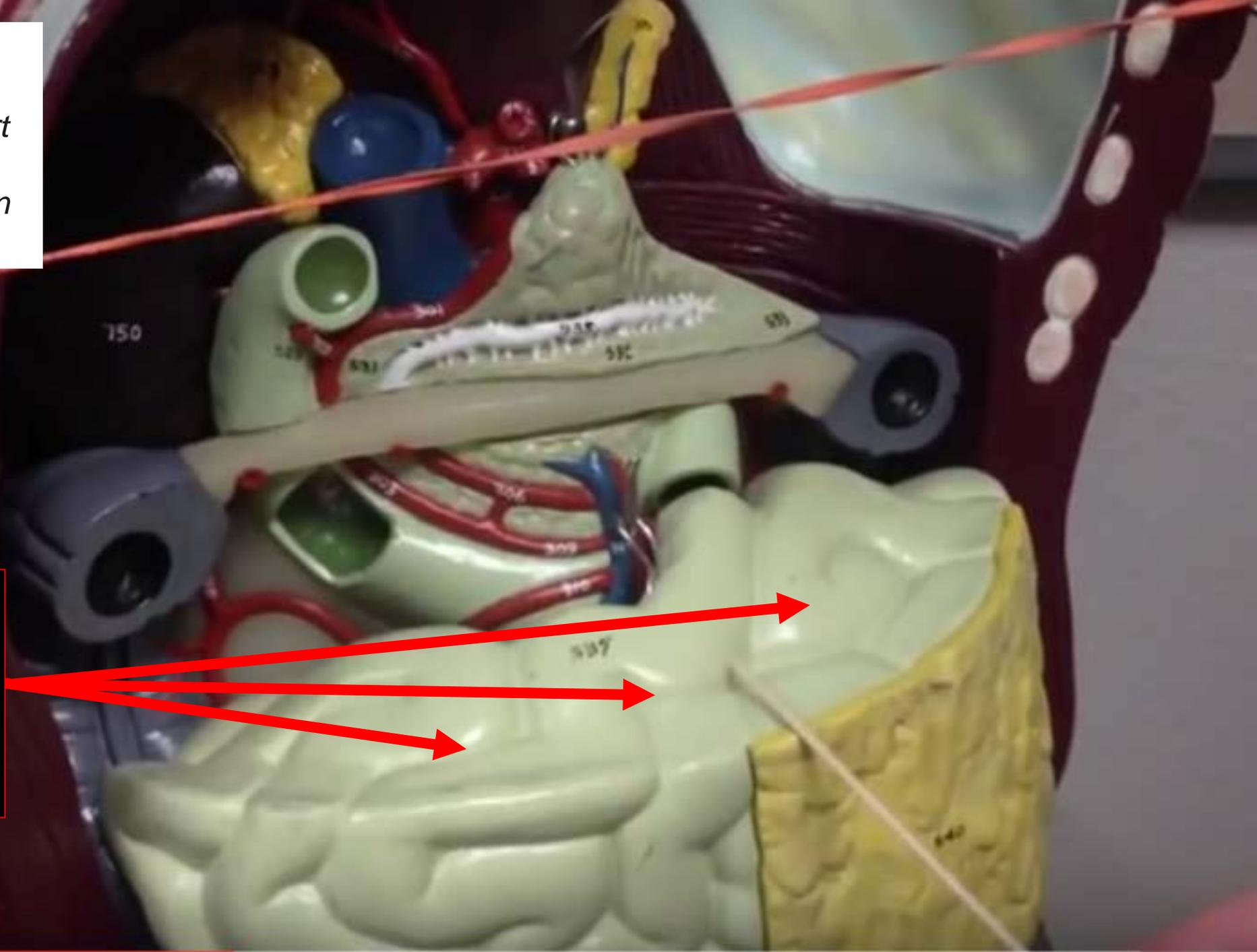
Identify the Structure and function.



Digestion and absorption of nutrients.

*The **small intestine** is the part of the **intestine** is where 90% of the digestion and absorption of food occurs.*

Jejunum

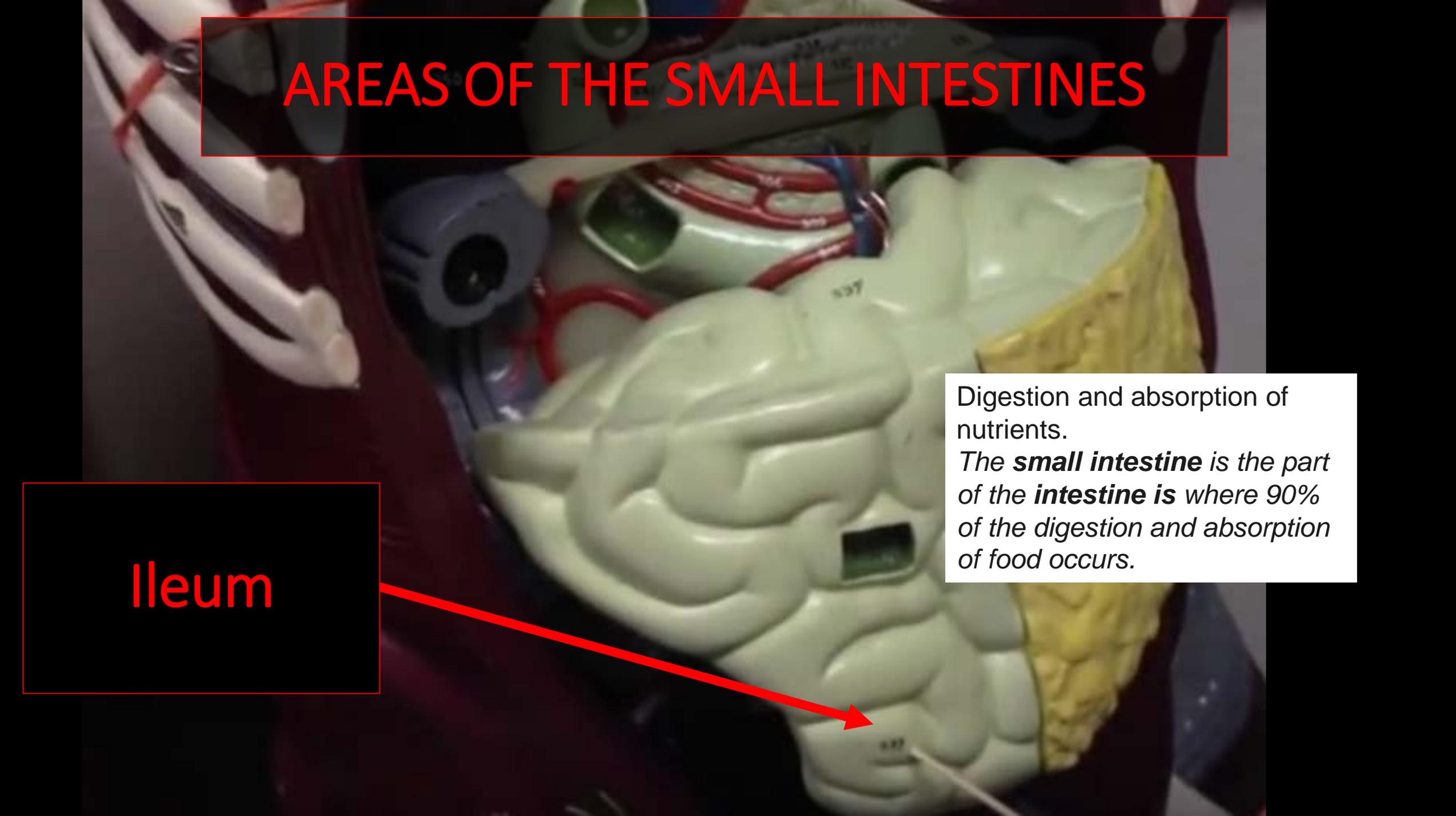


# AREAS OF THE SMALL INTESTINES

Identify the  
Structure and  
function.



# AREAS OF THE SMALL INTESTINES

An anatomical model of the human small intestine. The duodenum is shown as a C-shaped structure at the top, with the jejunum and ileum extending downwards. The jejunum is characterized by its coiled appearance, while the ileum is more straight and ends in a terminal ileum. The model is color-coded: the duodenum is light green, the jejunum is yellow, and the ileum is white. A red arrow points from the label 'Ileum' to the terminal ileum. A white text box on the right provides information about the function of the small intestine.

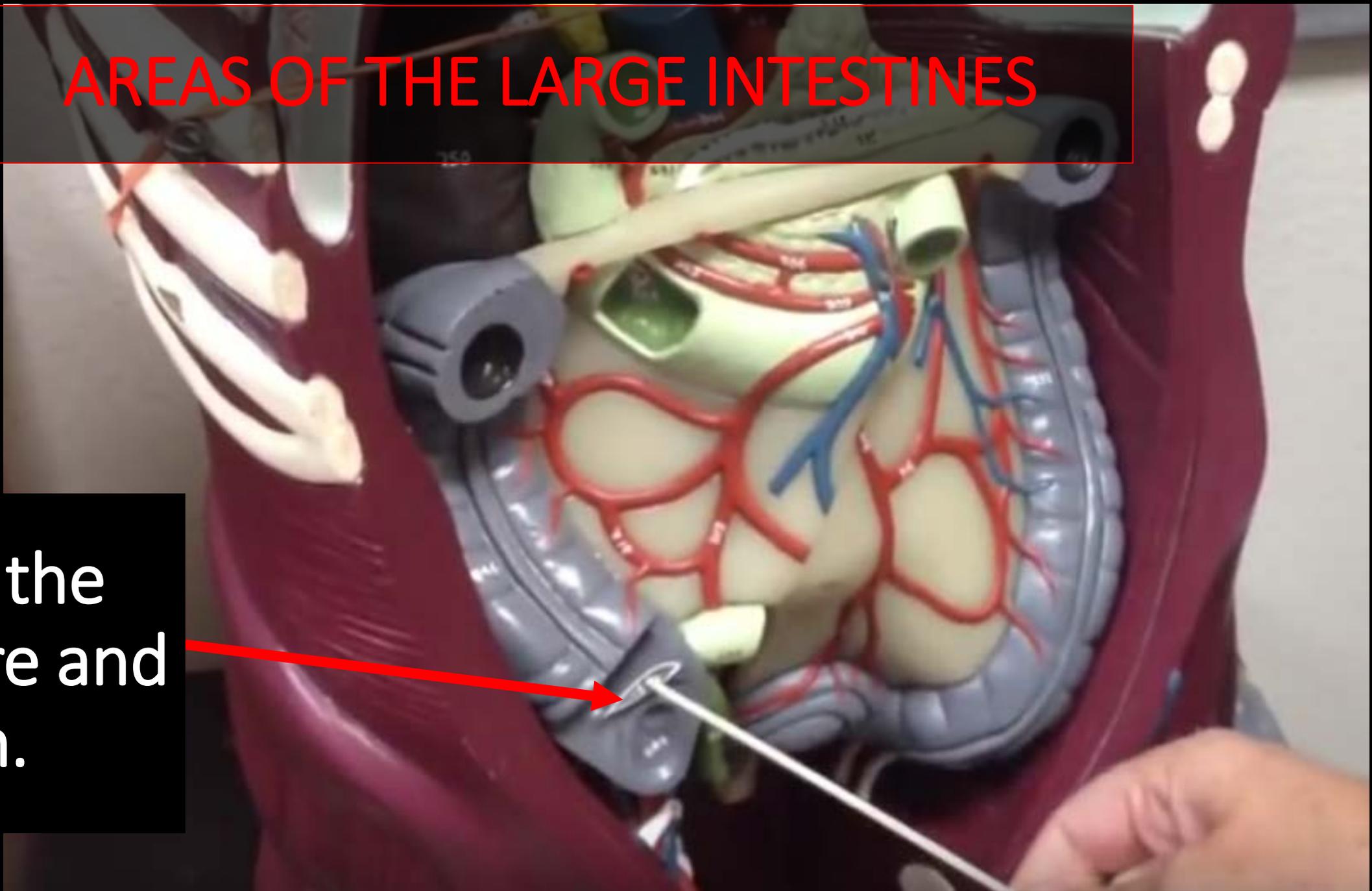
Ileum

Digestion and absorption of nutrients.

*The **small intestine** is the part of the **intestine** is where 90% of the digestion and absorption of food occurs.*

# AREAS OF THE LARGE INTESTINES

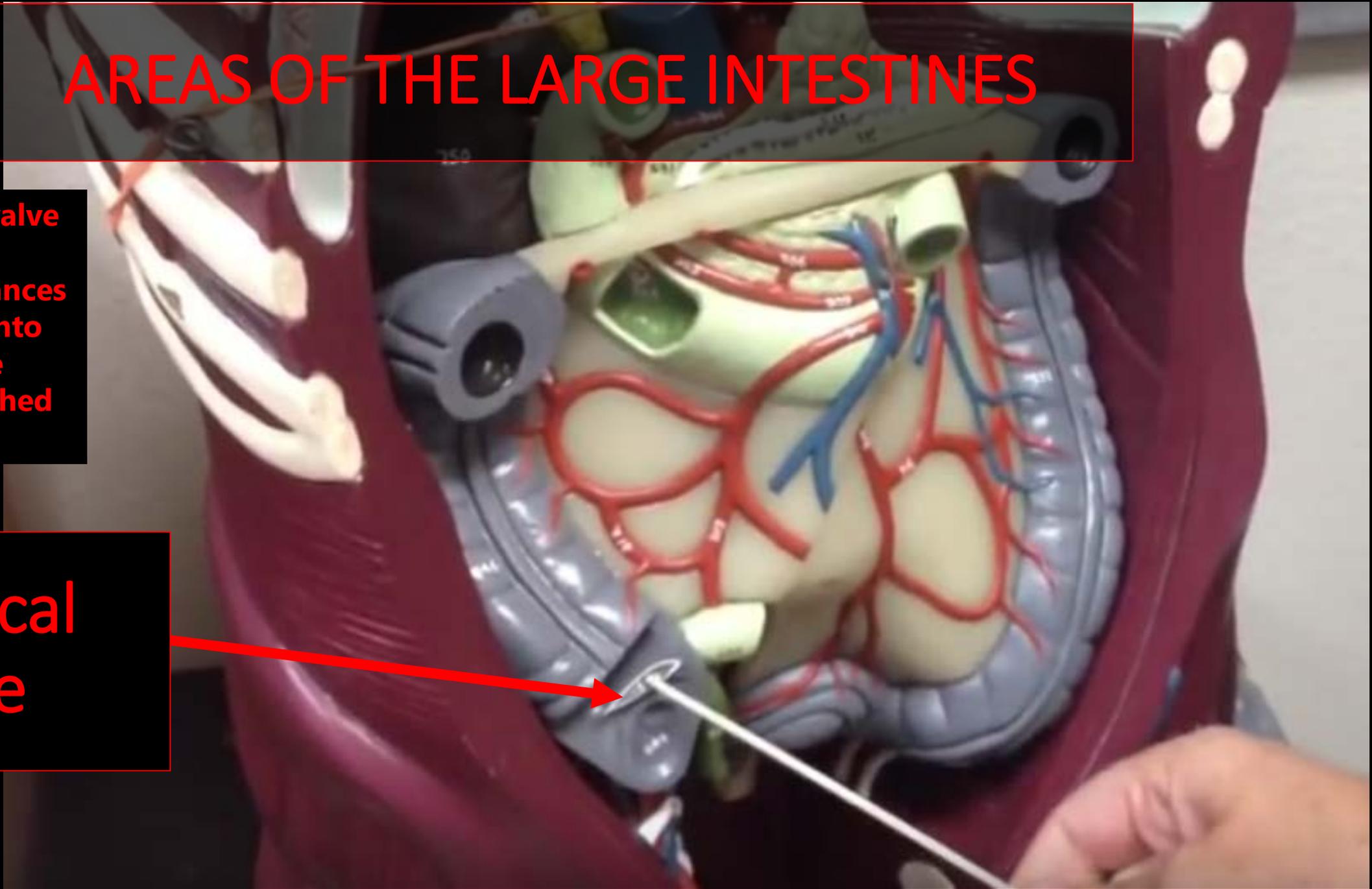
Identify the  
Structure and  
function.



# AREAS OF THE LARGE INTESTINES

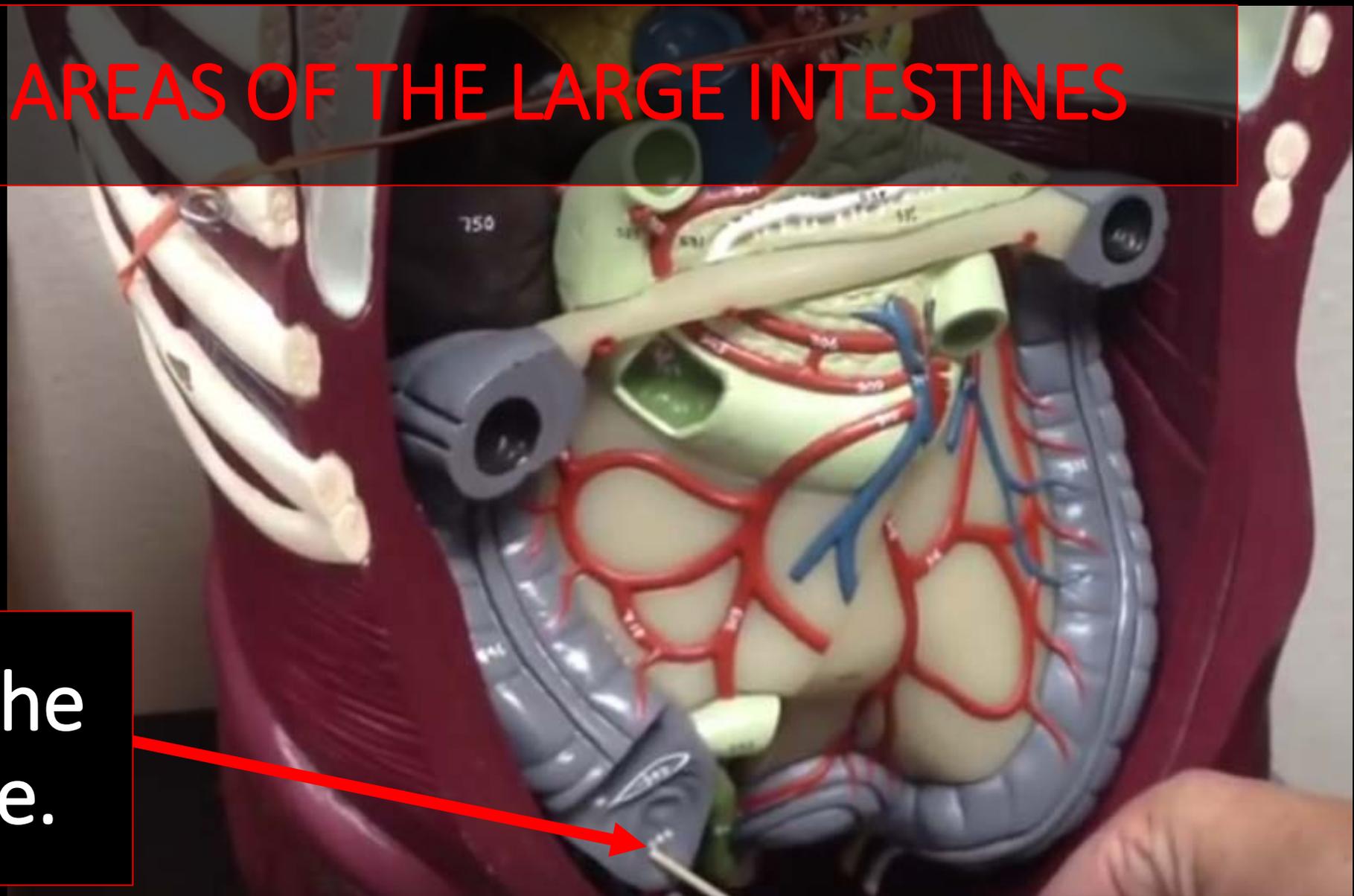
The ileocecal valve functions to prevent substances flowing back into the ileum once they have reached the cecum.

Ileocecal Valve



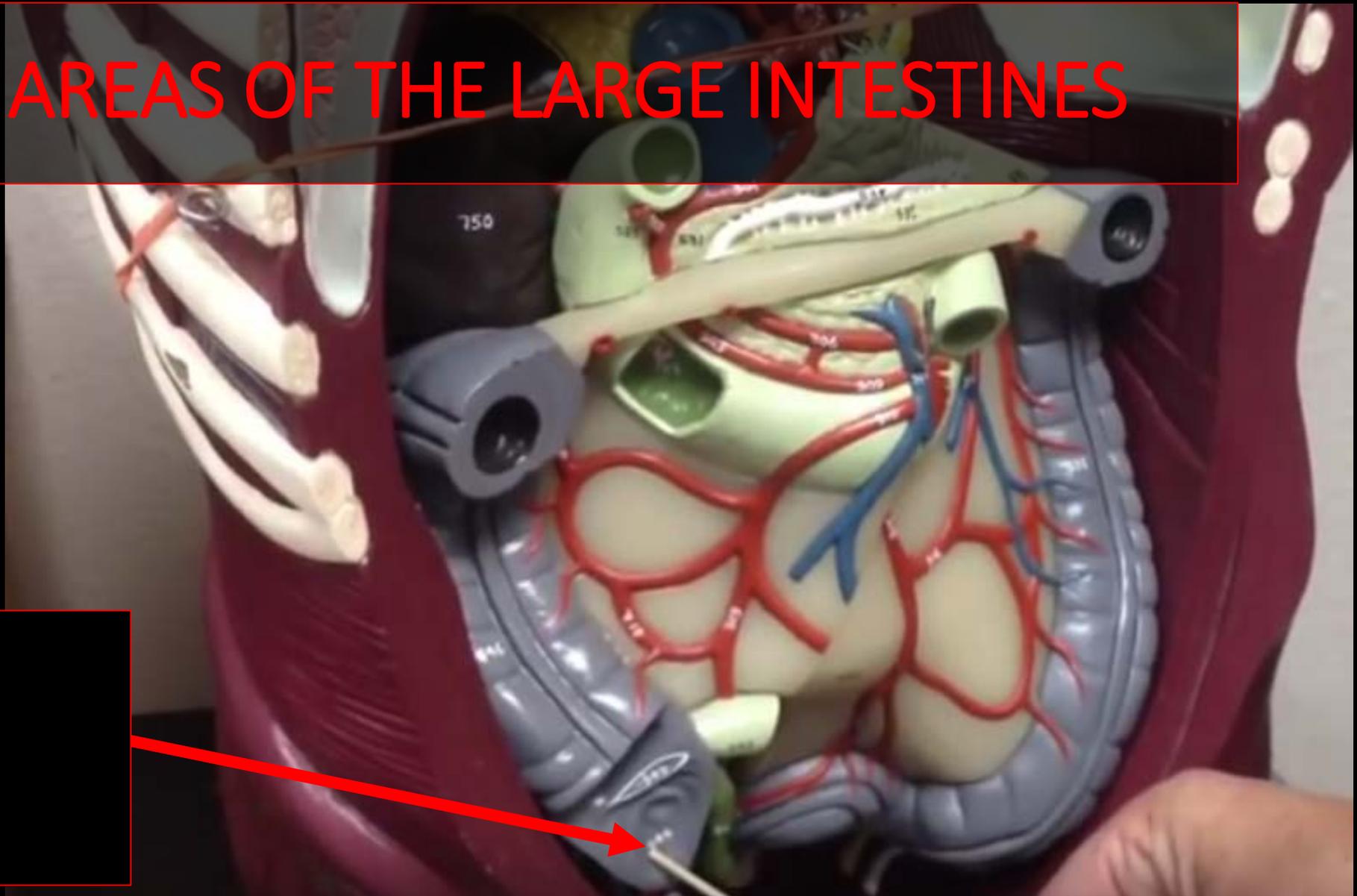
# AREAS OF THE LARGE INTESTINES

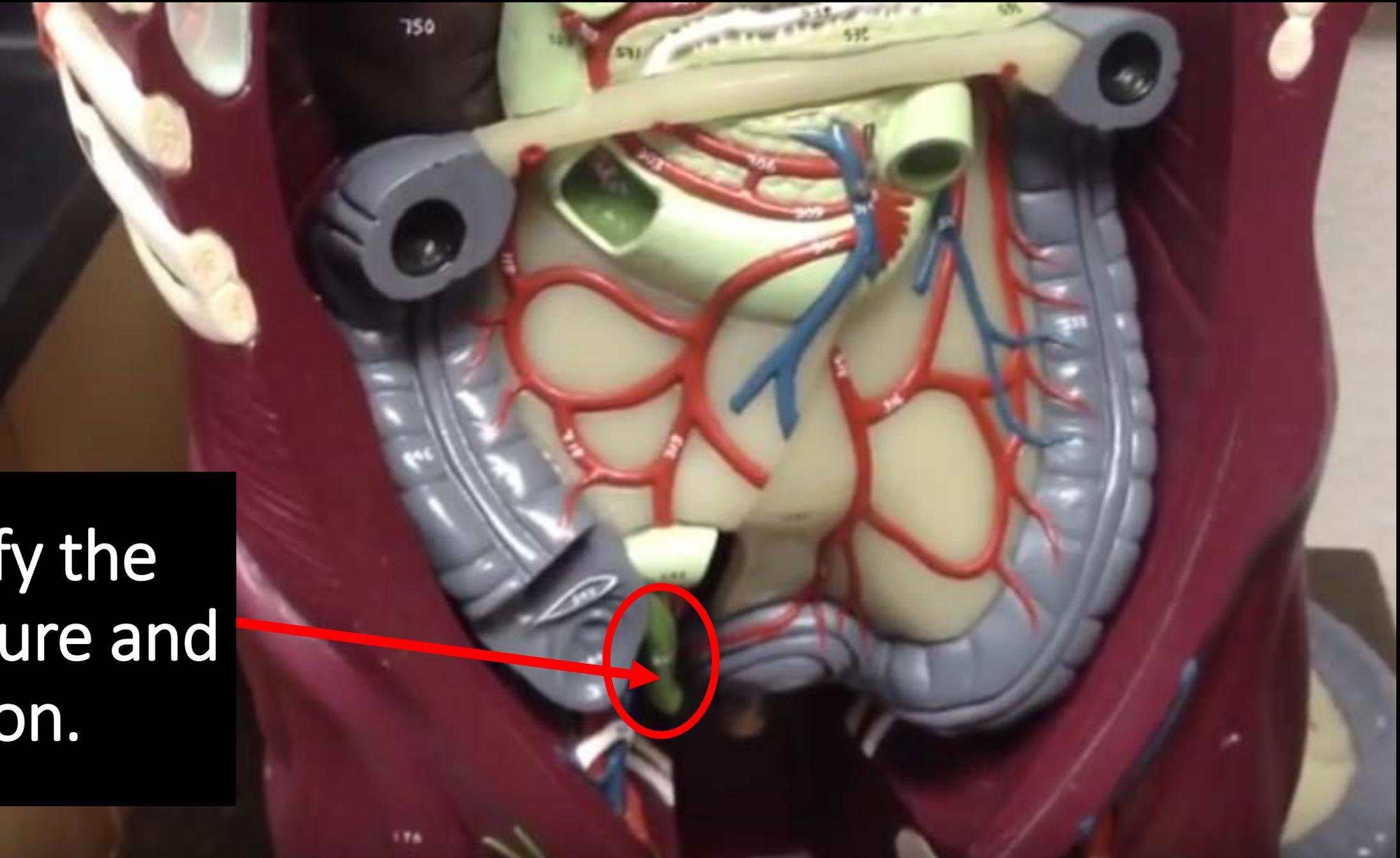
Identify the  
Structure.



# AREAS OF THE LARGE INTESTINES

Cecum

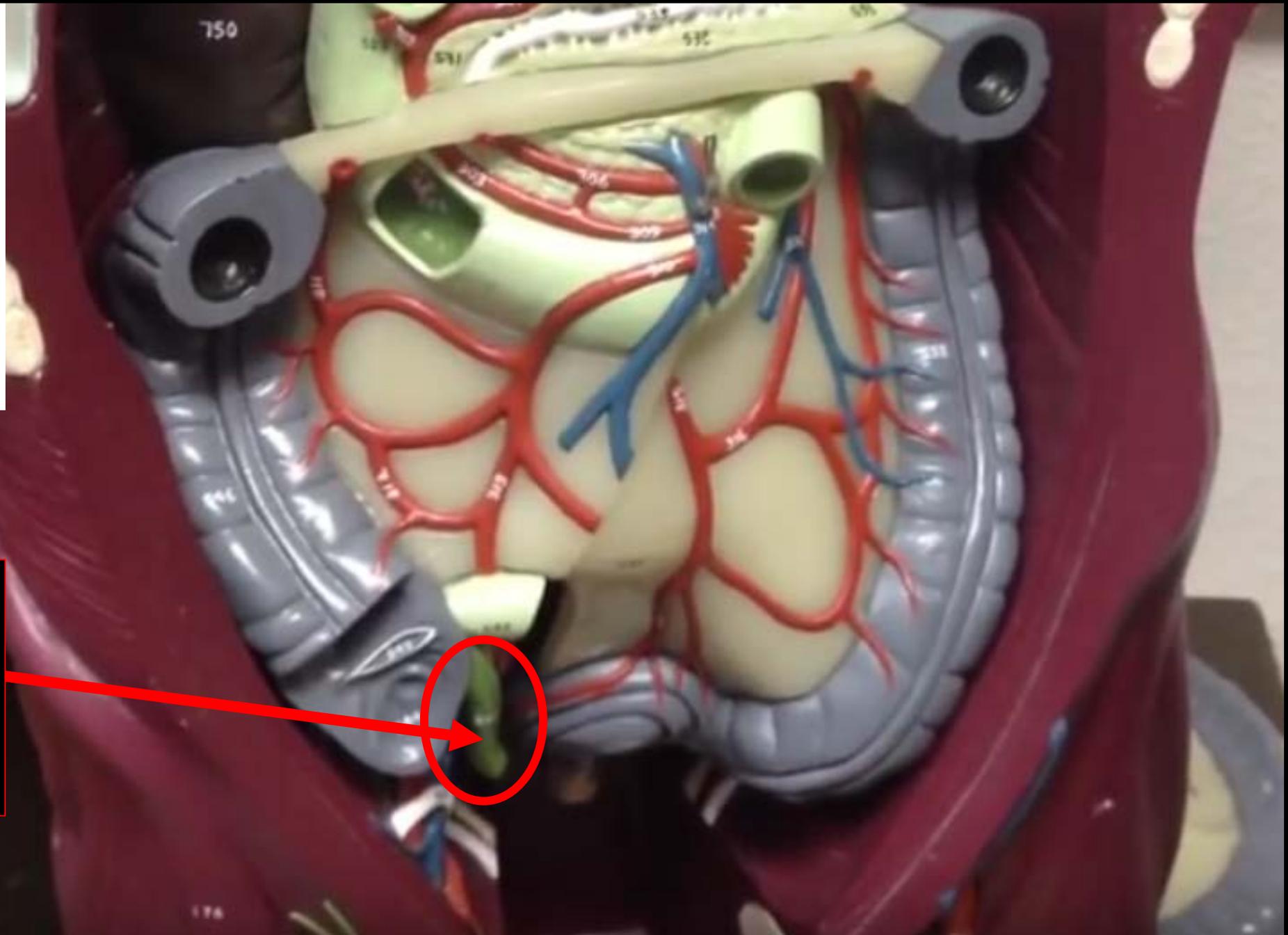


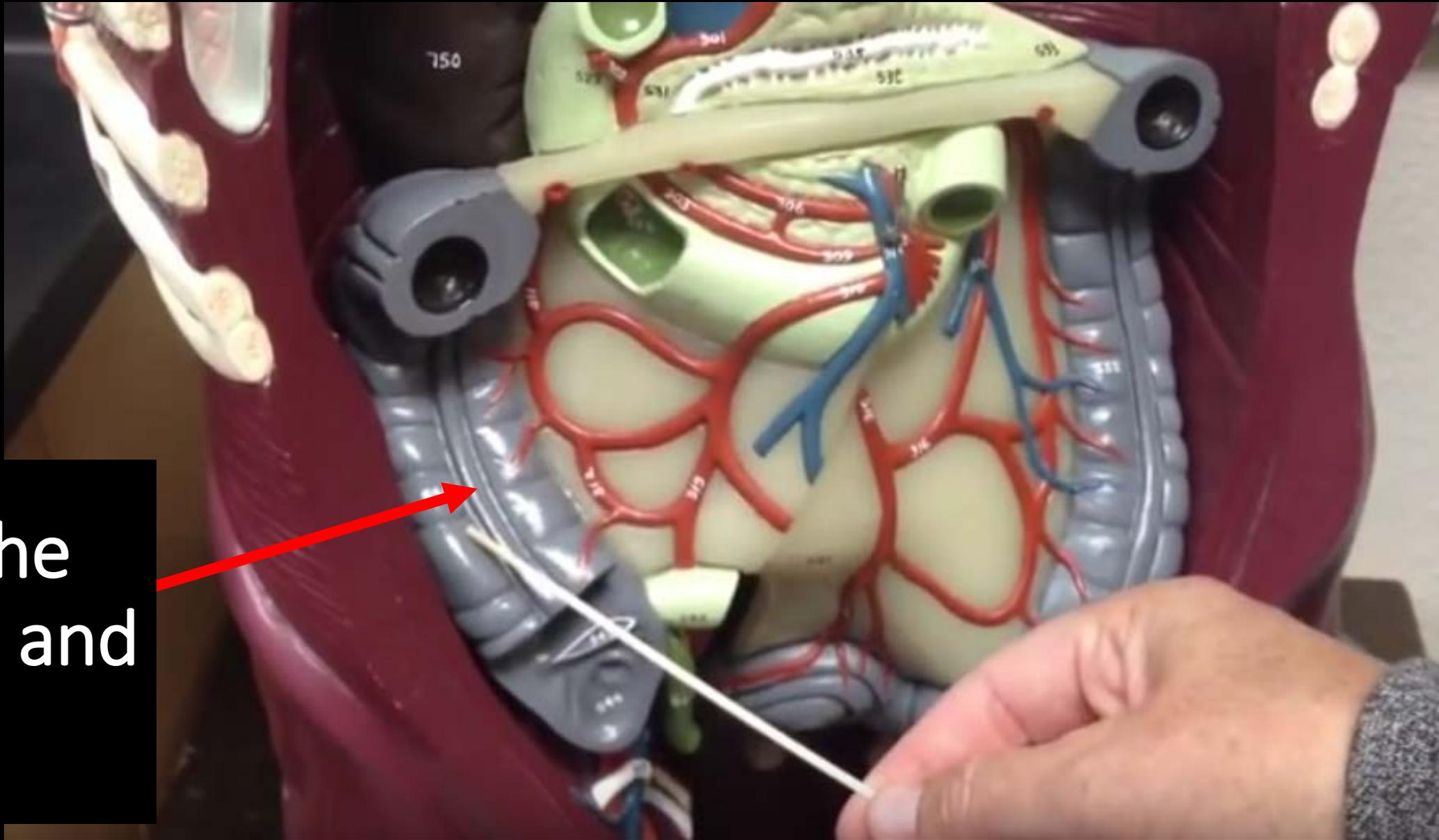


Identify the Structure and function.

Has immune function to house and release lymphocytes.

**Appendix**  
(the thing in green)



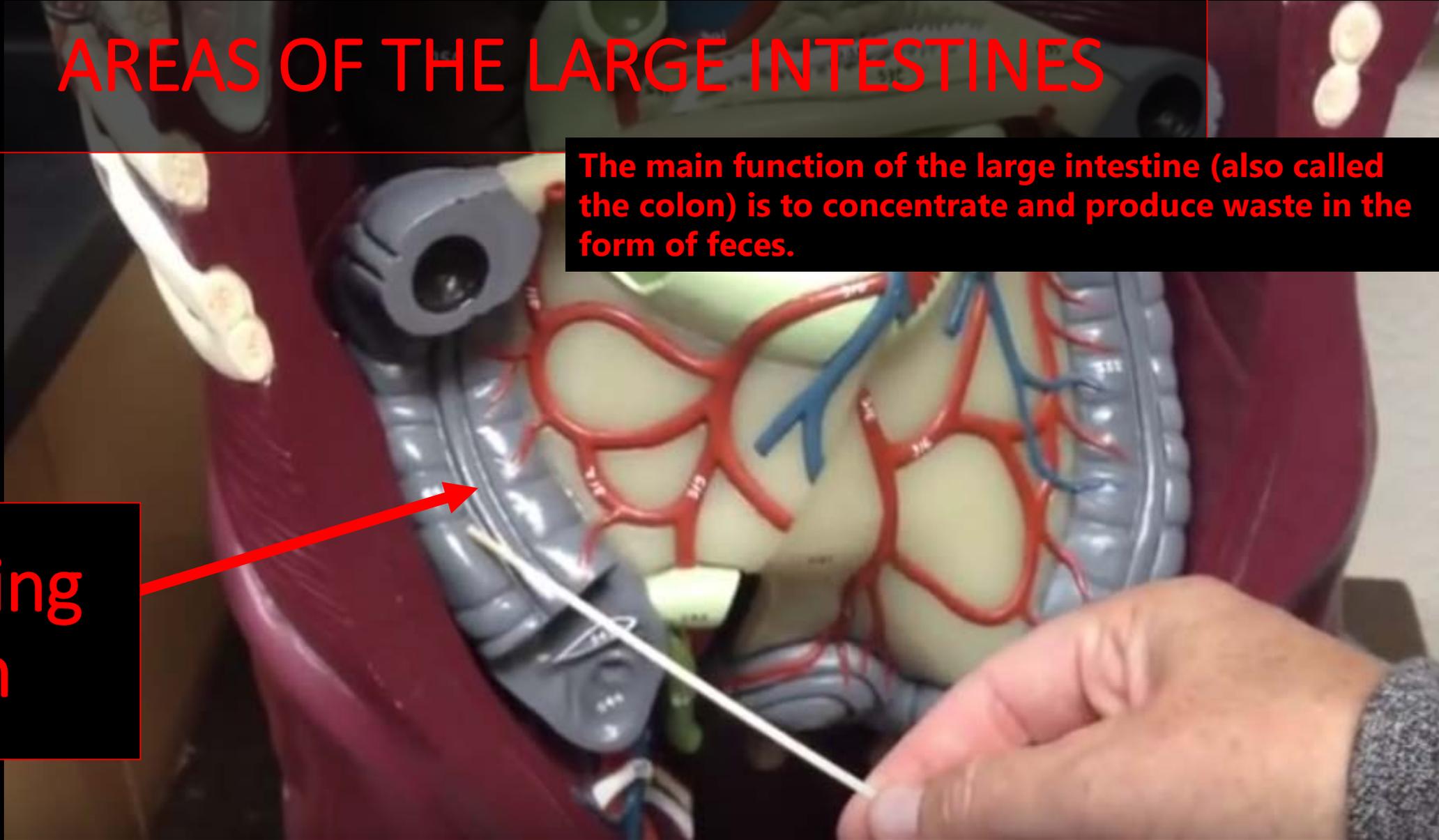


Identify the Structure and function.

# AREAS OF THE LARGE INTESTINES

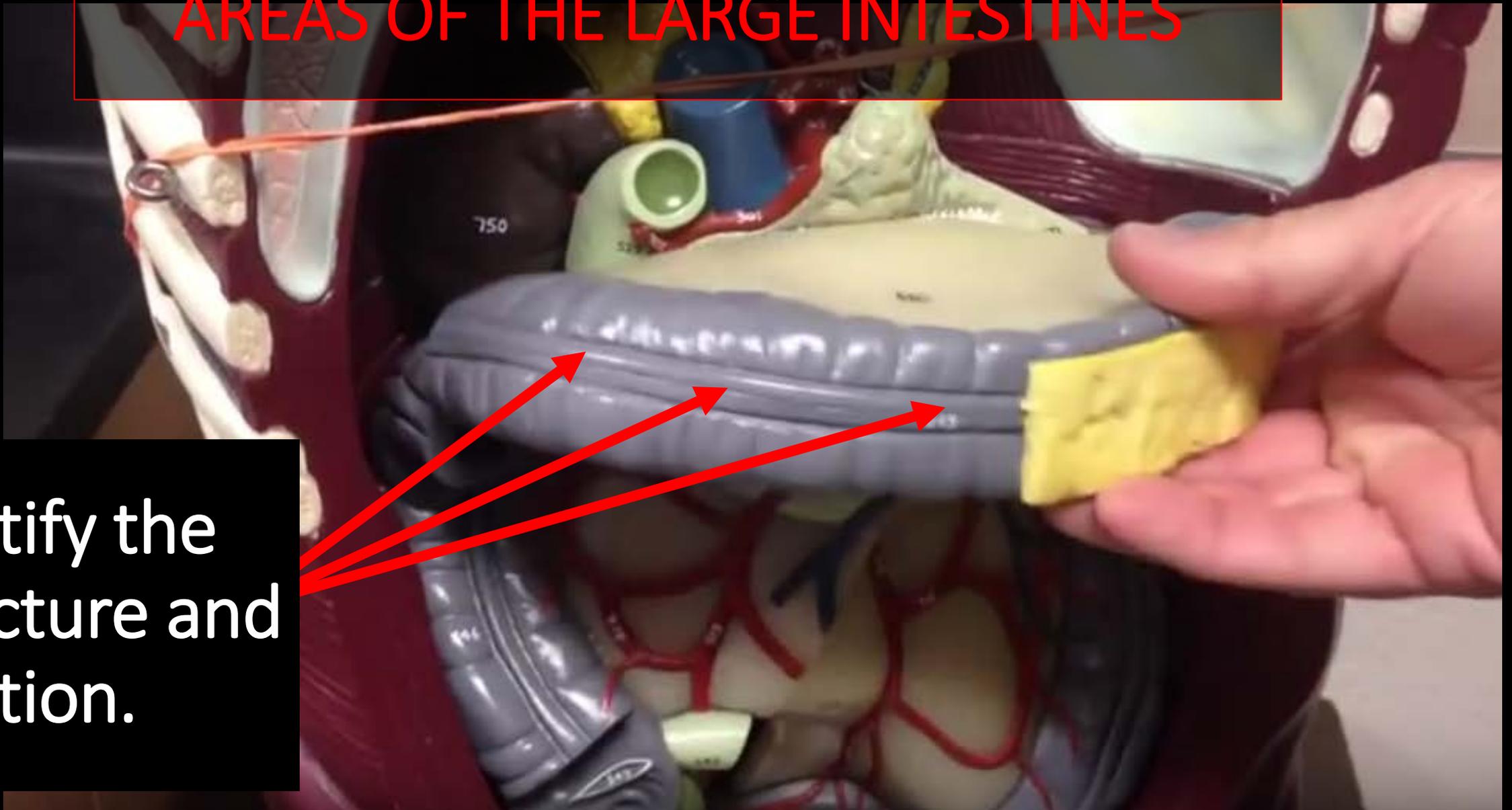
The main function of the large intestine (also called the colon) is to concentrate and produce waste in the form of feces.

Ascending  
Colon



# AREAS OF THE LARGE INTESTINES

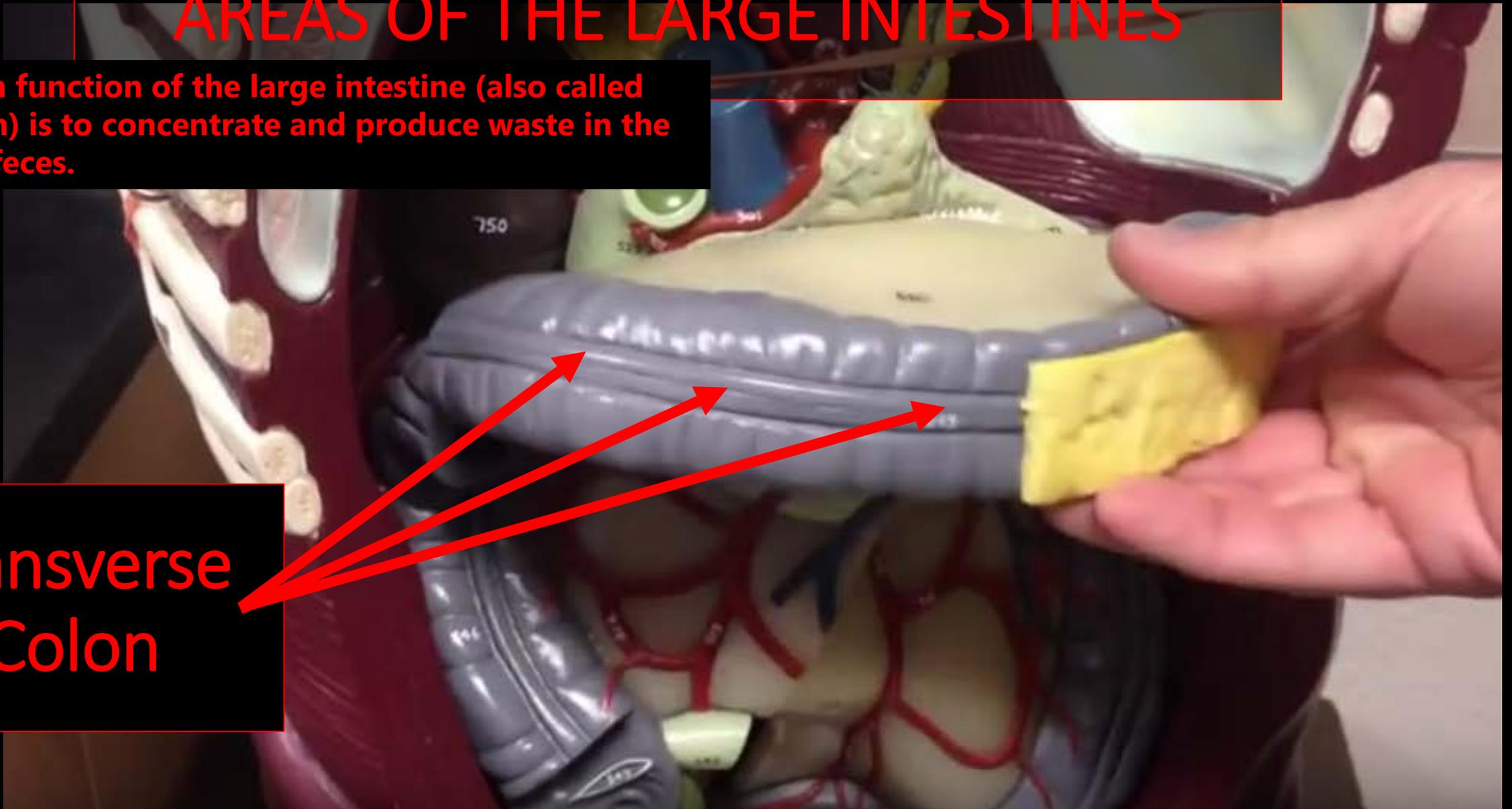
Identify the  
Structure and  
function.

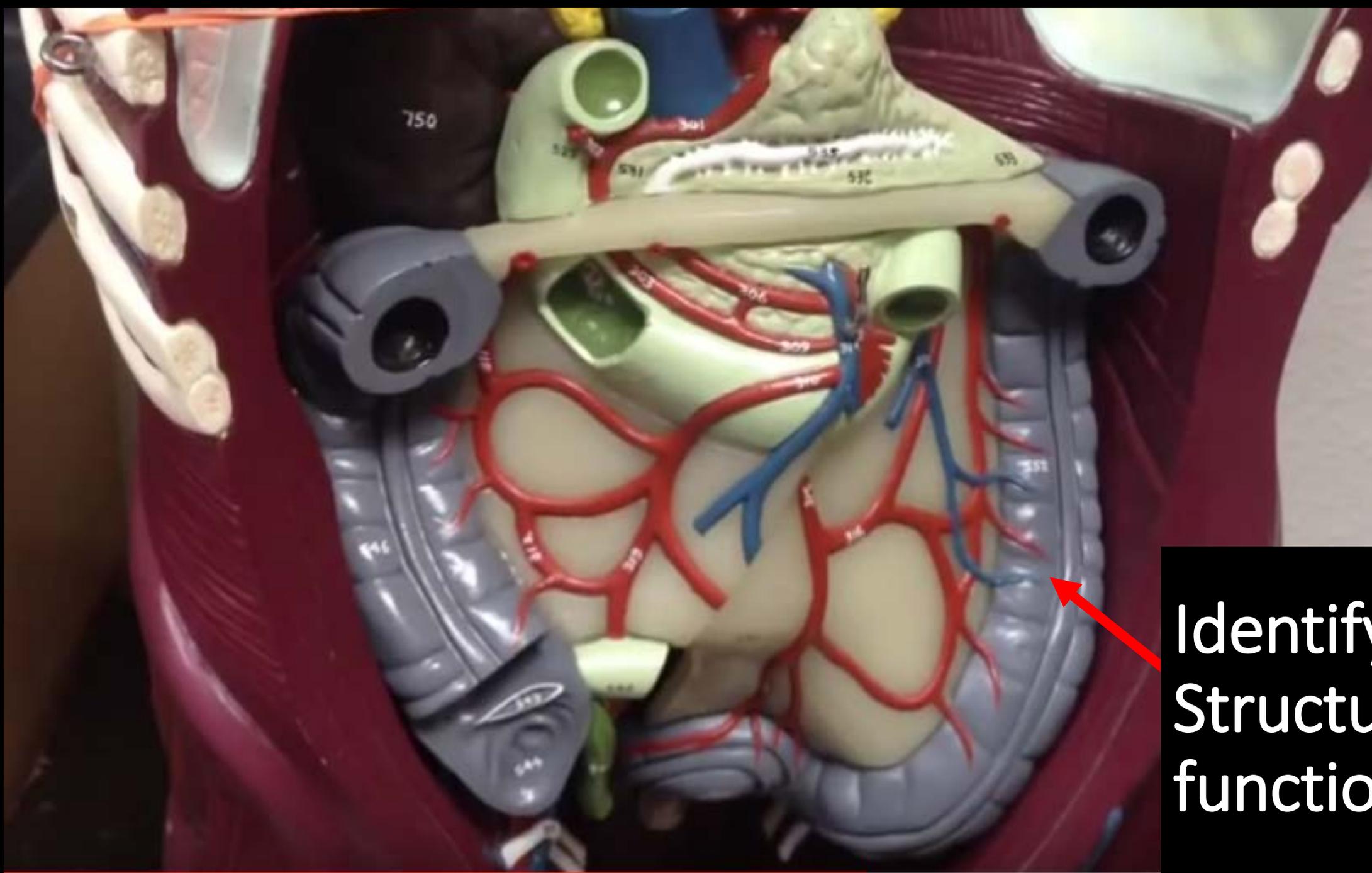


# AREAS OF THE LARGE INTESTINES

The main function of the large intestine (also called the colon) is to concentrate and produce waste in the form of feces.

Transverse  
Colon

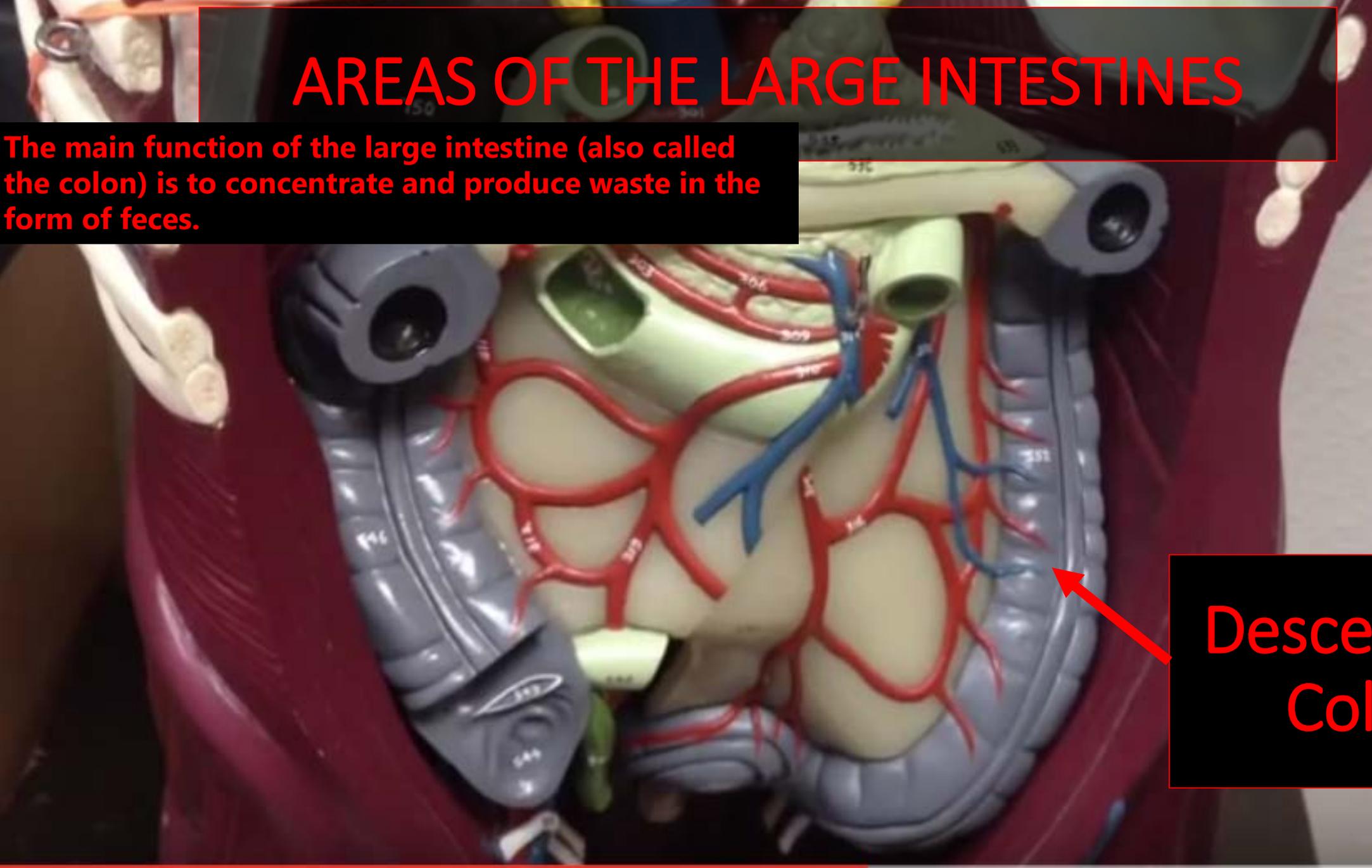




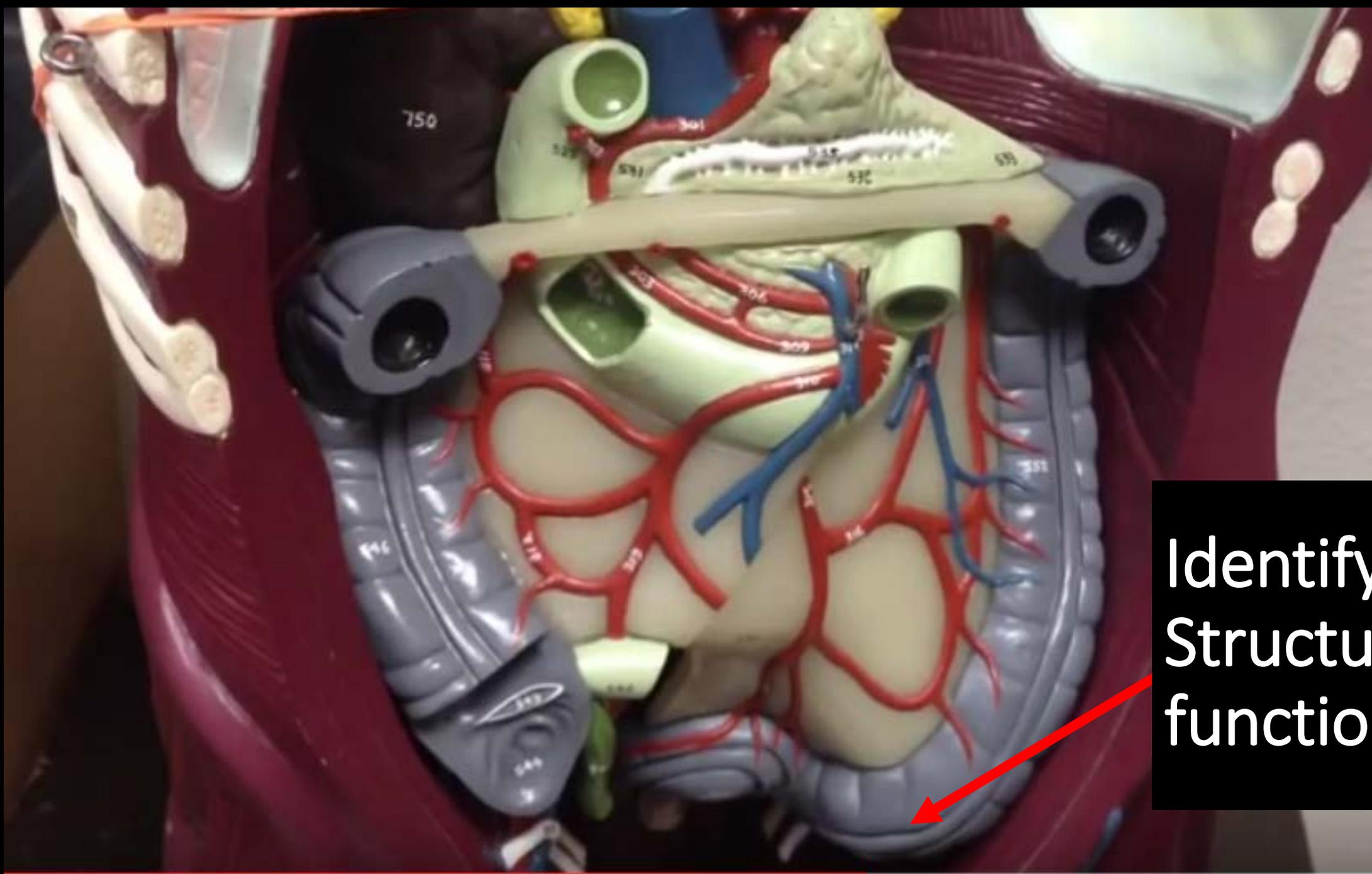
Identify the Structure and function.

# AREAS OF THE LARGE INTESTINES

The main function of the large intestine (also called the colon) is to concentrate and produce waste in the form of feces.

An anatomical model of the human large intestine (colon) and its associated blood supply. The large intestine is shown in a light tan color, with its characteristic haustra. A network of red arteries and blue veins is visible, branching out to supply the colon. The model is set against a dark red background representing the abdominal wall and other organs. A red arrow points from the text box to the descending colon.

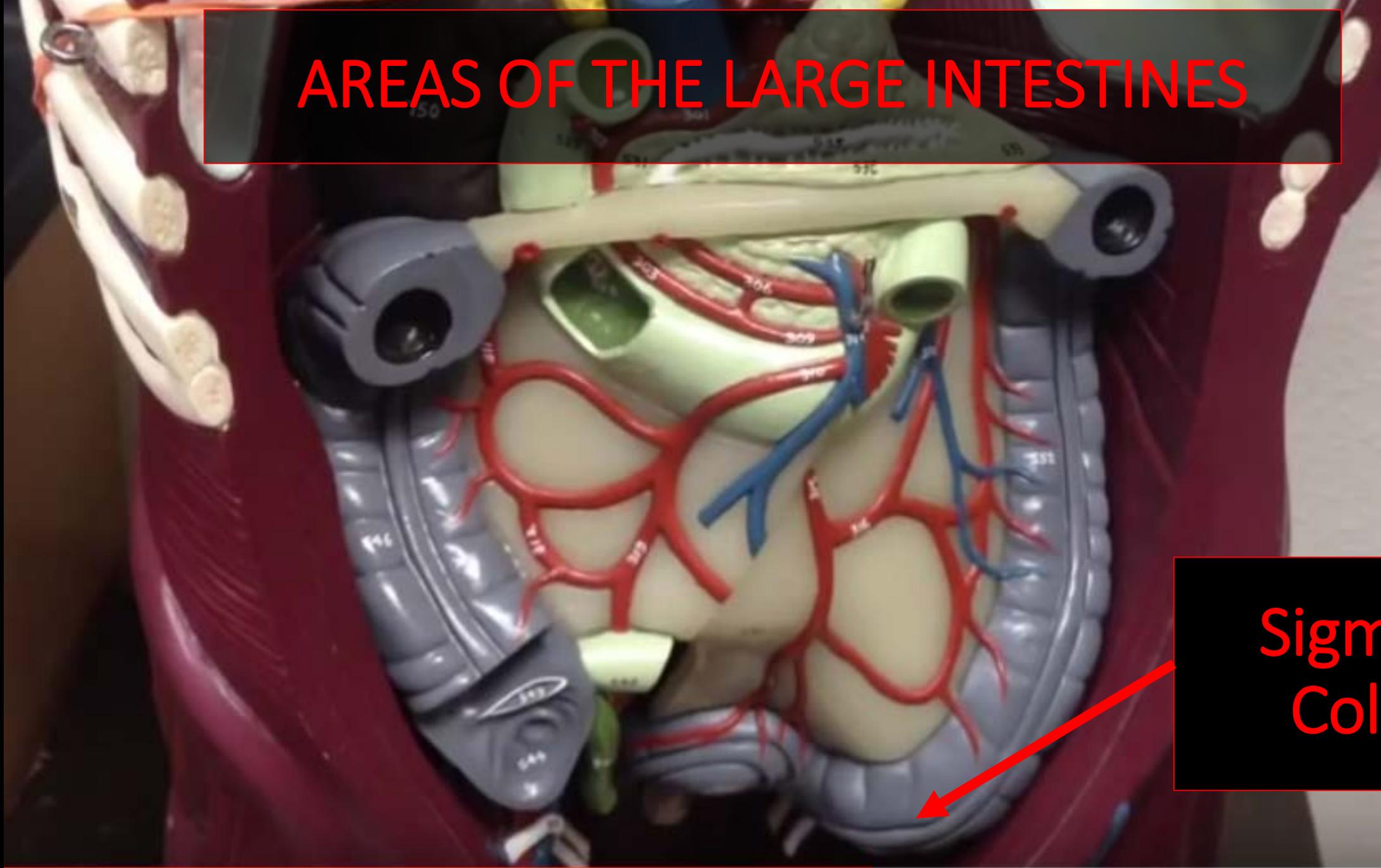
Descending  
Colon

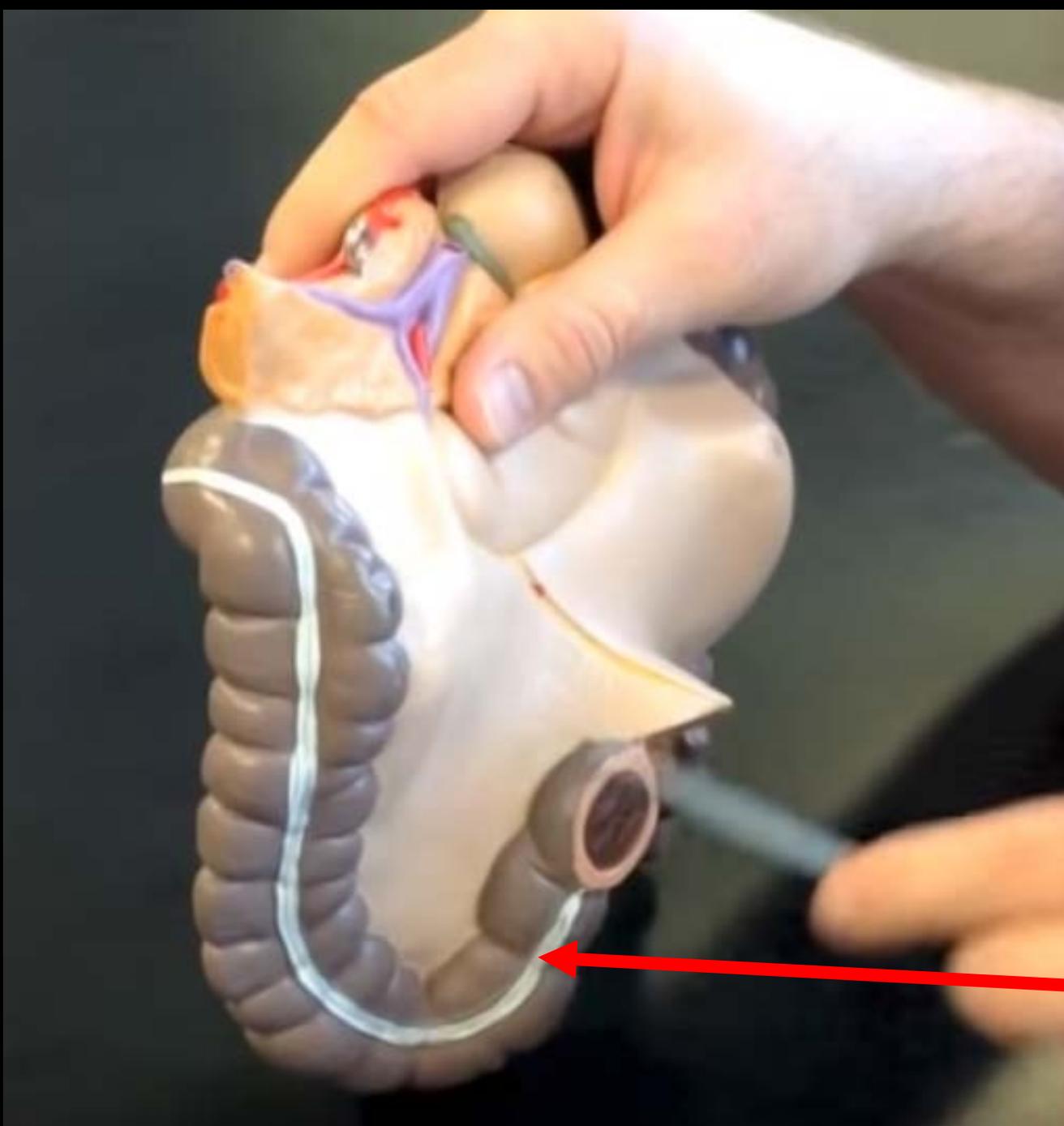


Identify the Structure and function.

# AREAS OF THE LARGE INTESTINES

Sigmoid  
Colon



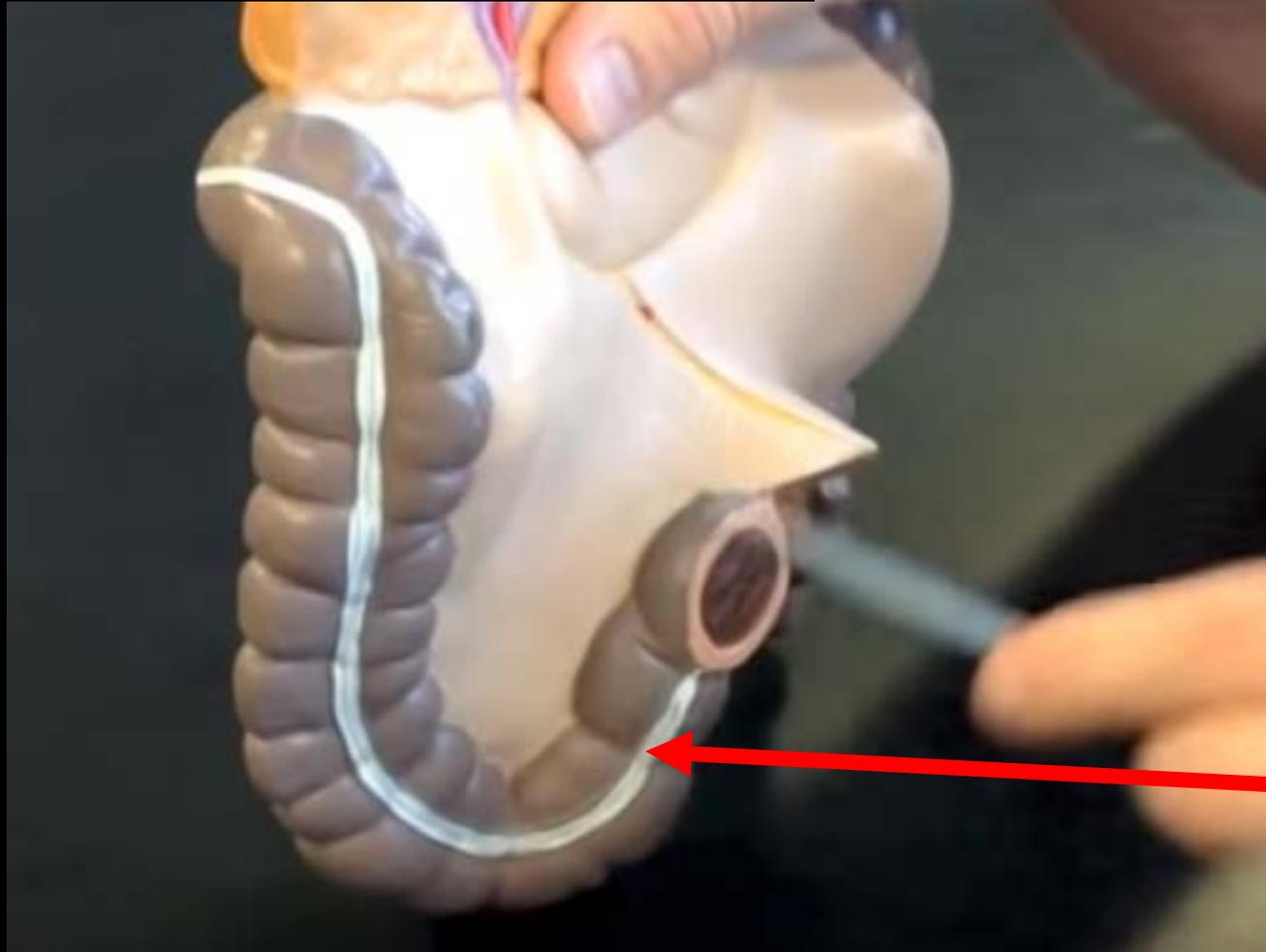


Identify the  
Structure and  
function.

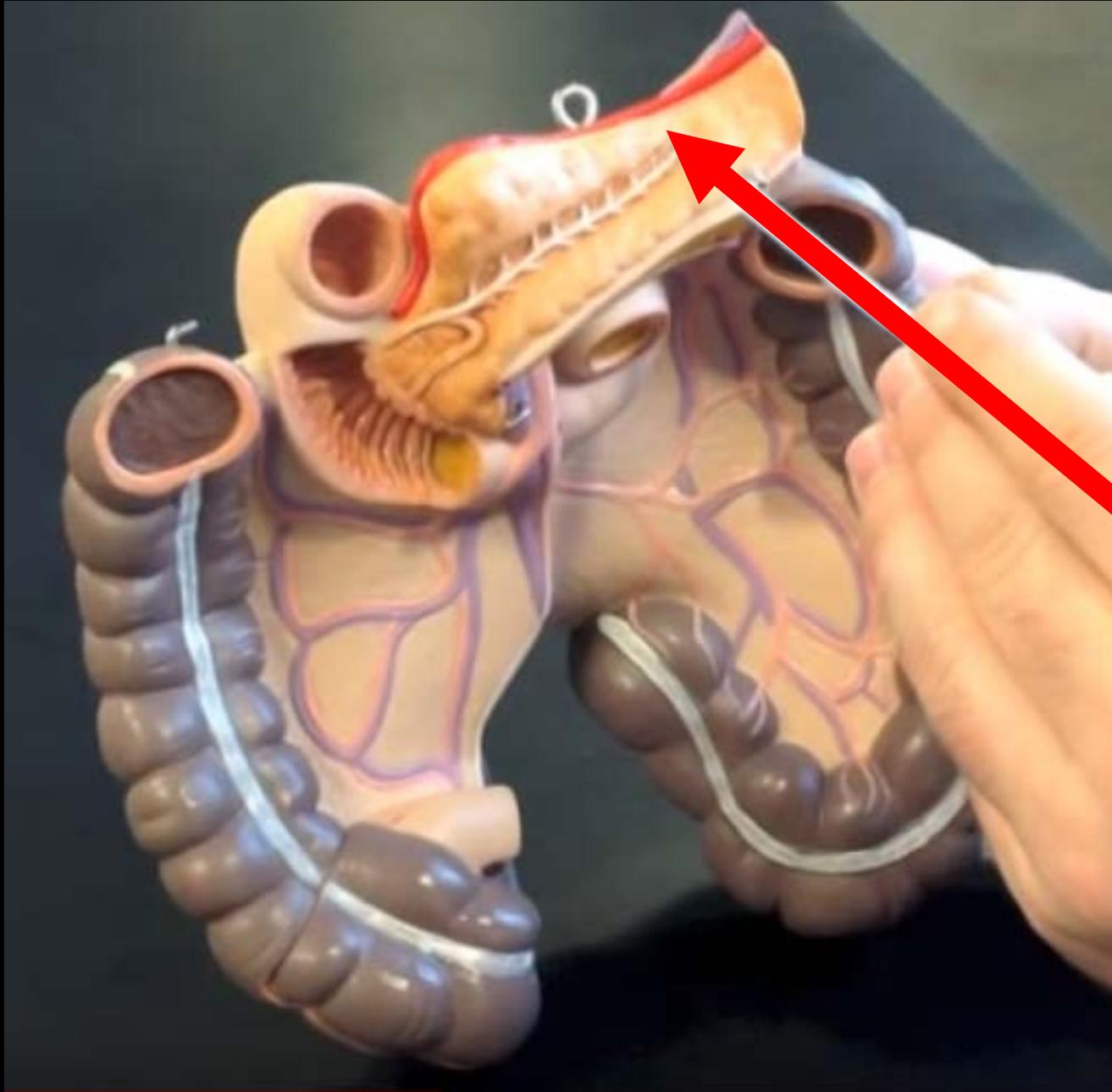
# AREAS OF THE LARGE INTESTINES

The main function of the large intestine (also called the colon) is to concentrate and produce waste in the form of feces.

*\*The sigmoid colon starts at the bottom of the descending colon and wraps around back.*

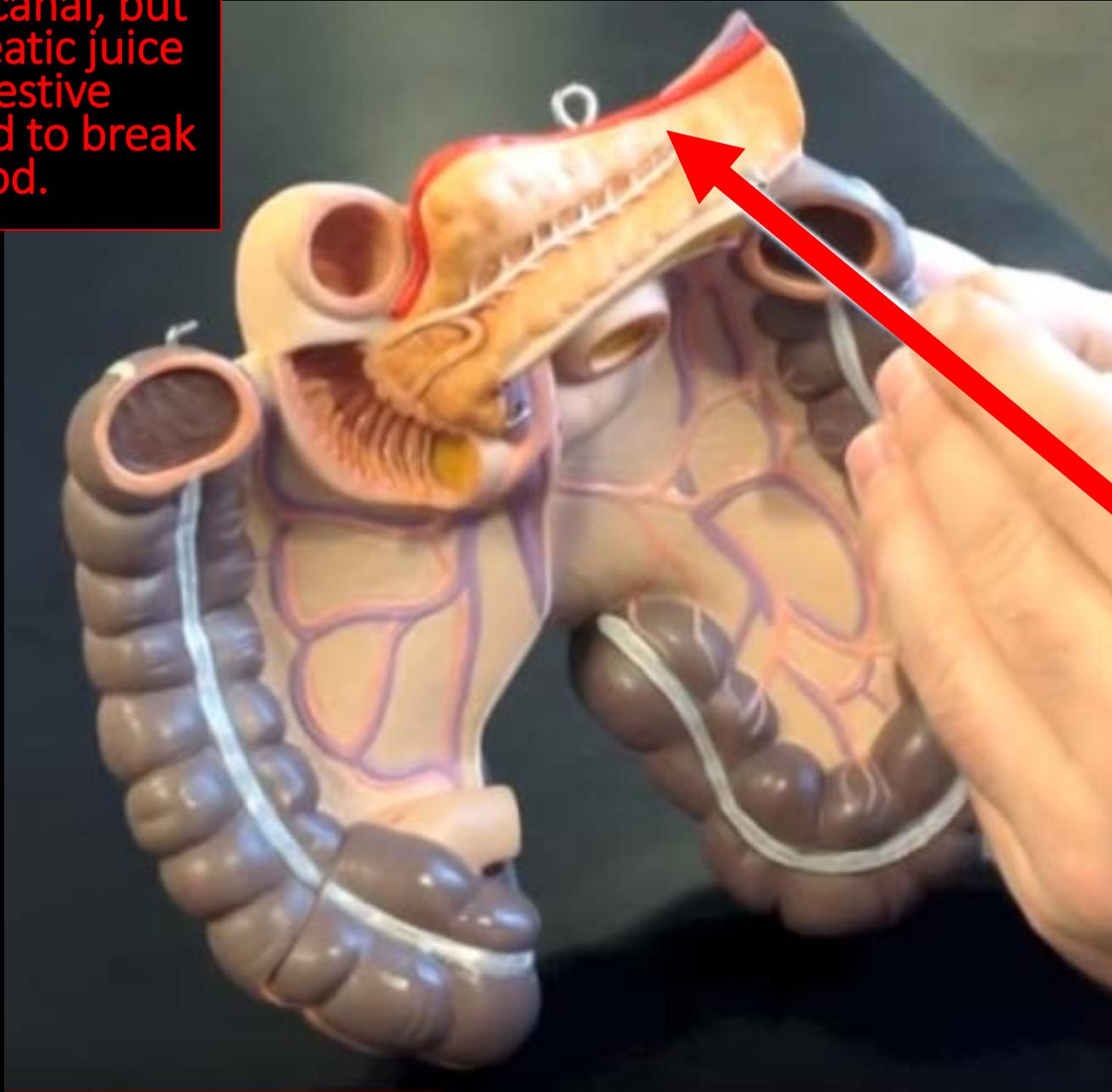


Sigmoid  
Colon

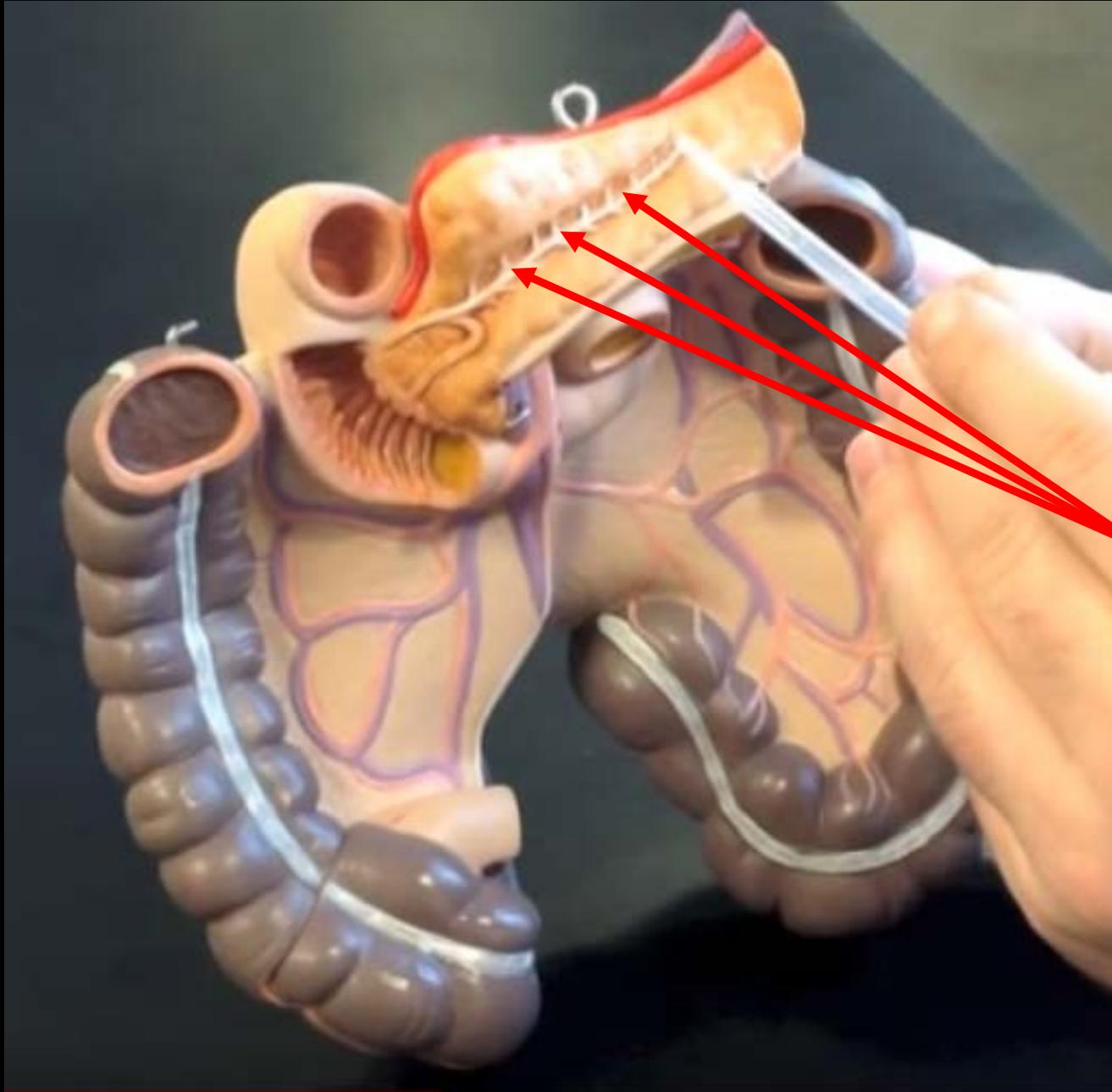


Identify the  
Structure and  
Function.

The pancreas is not part of the alimentary canal, but it makes pancreatic juice that has digestive enzymes needed to break down food.

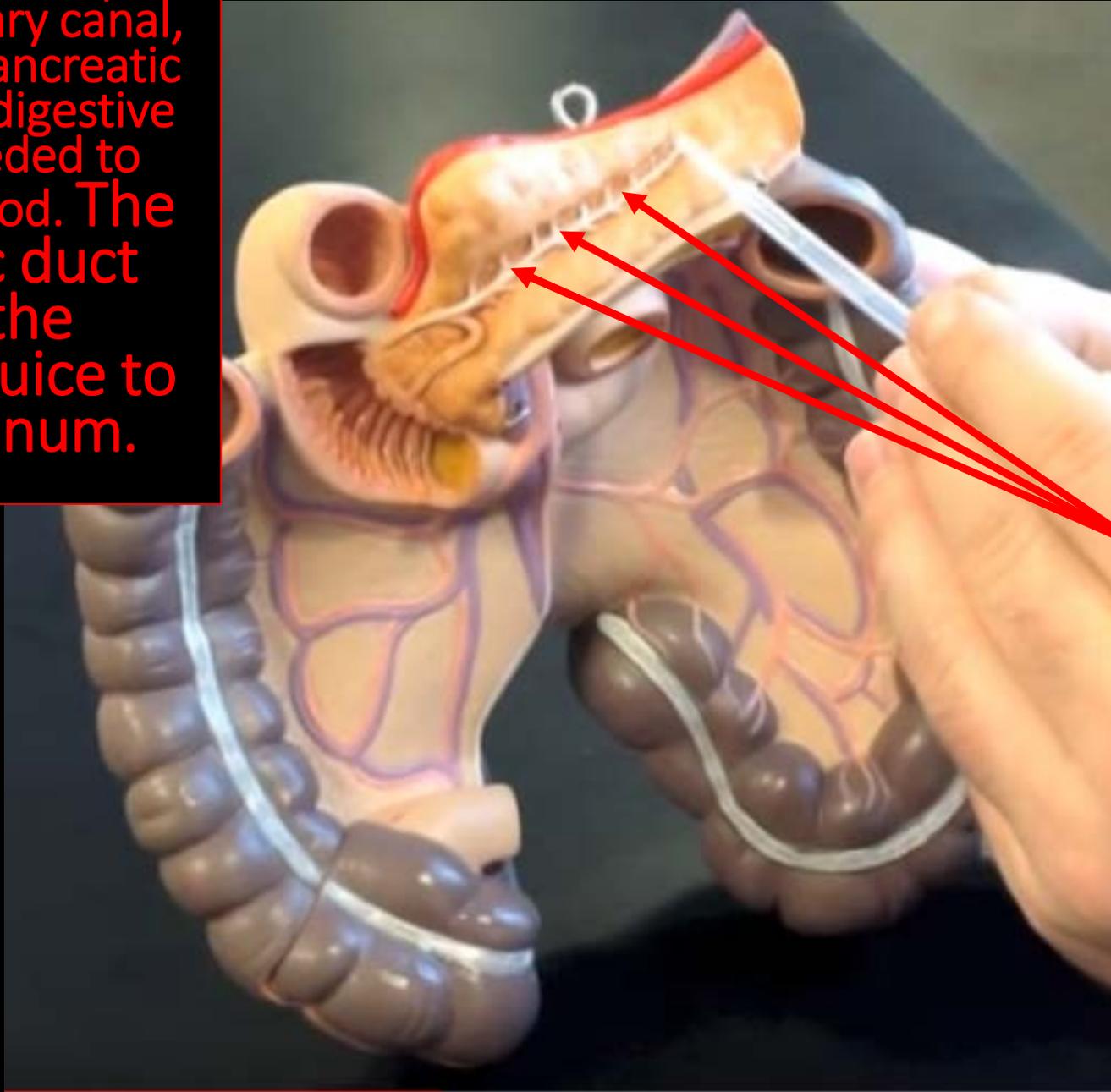


Pancreas

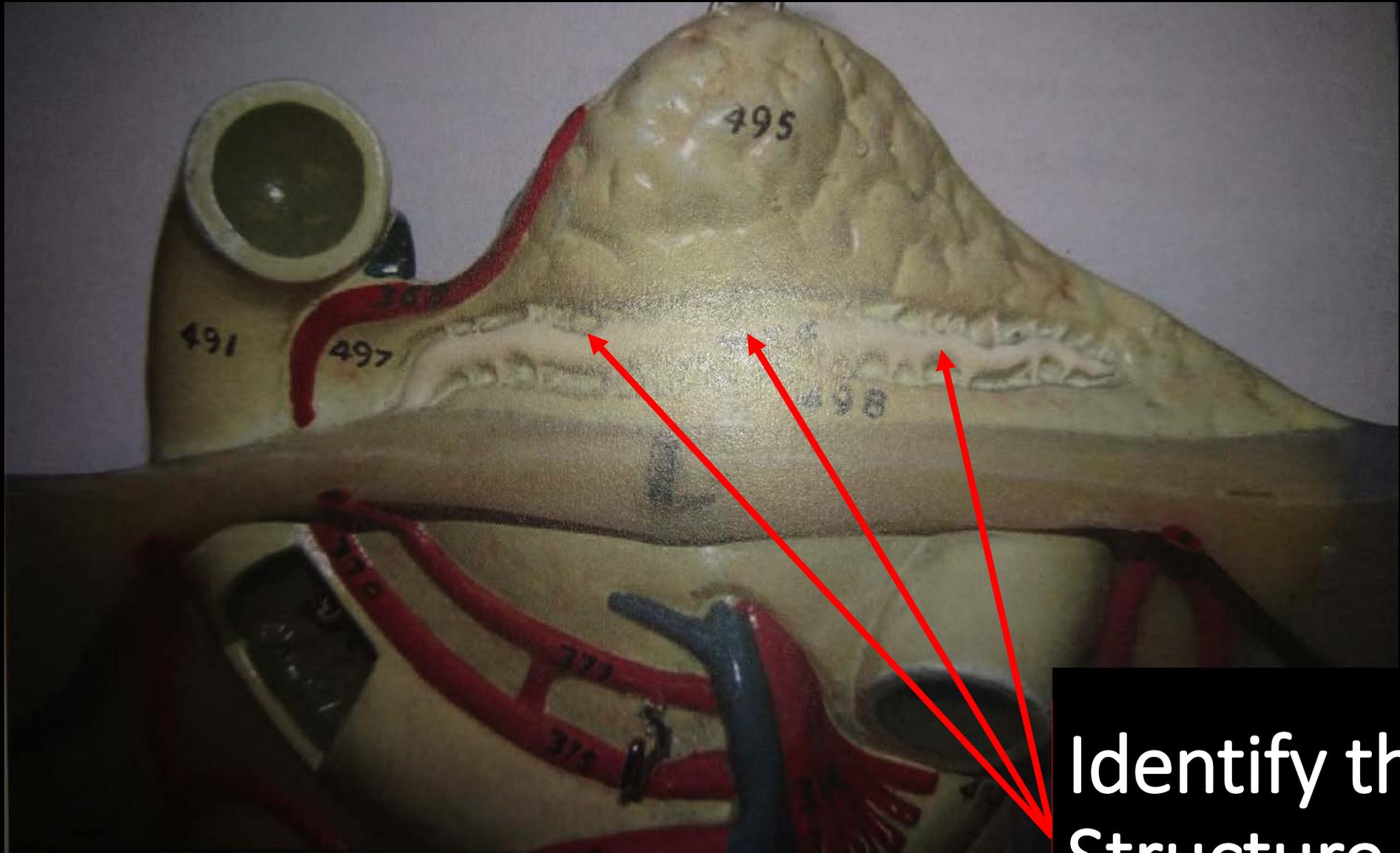


Identify the Structure and Function.

The pancreas is not part of the alimentary canal, but it makes pancreatic juice that has digestive enzymes needed to break down food. The pancreatic duct carries the pancreatic juice to the duodenum.



Pancreatic  
Duct



Identify the Structure and function.



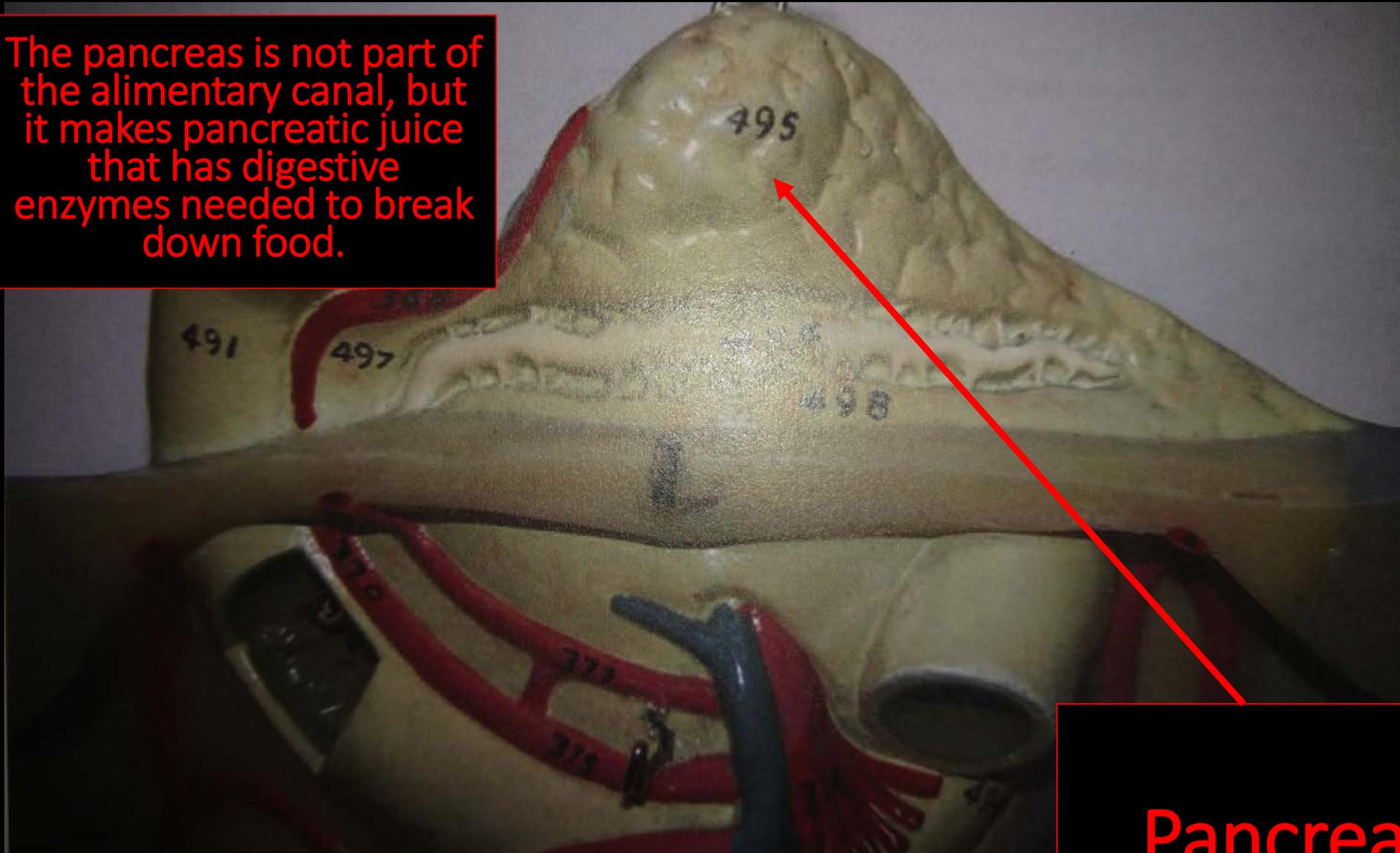
The pancreas is not part of the alimentary canal, but it makes pancreatic juice that has digestive enzymes needed to break down food. The pancreatic duct carries the pancreatic juice to the duodenum.

**Pancreatic Duct**

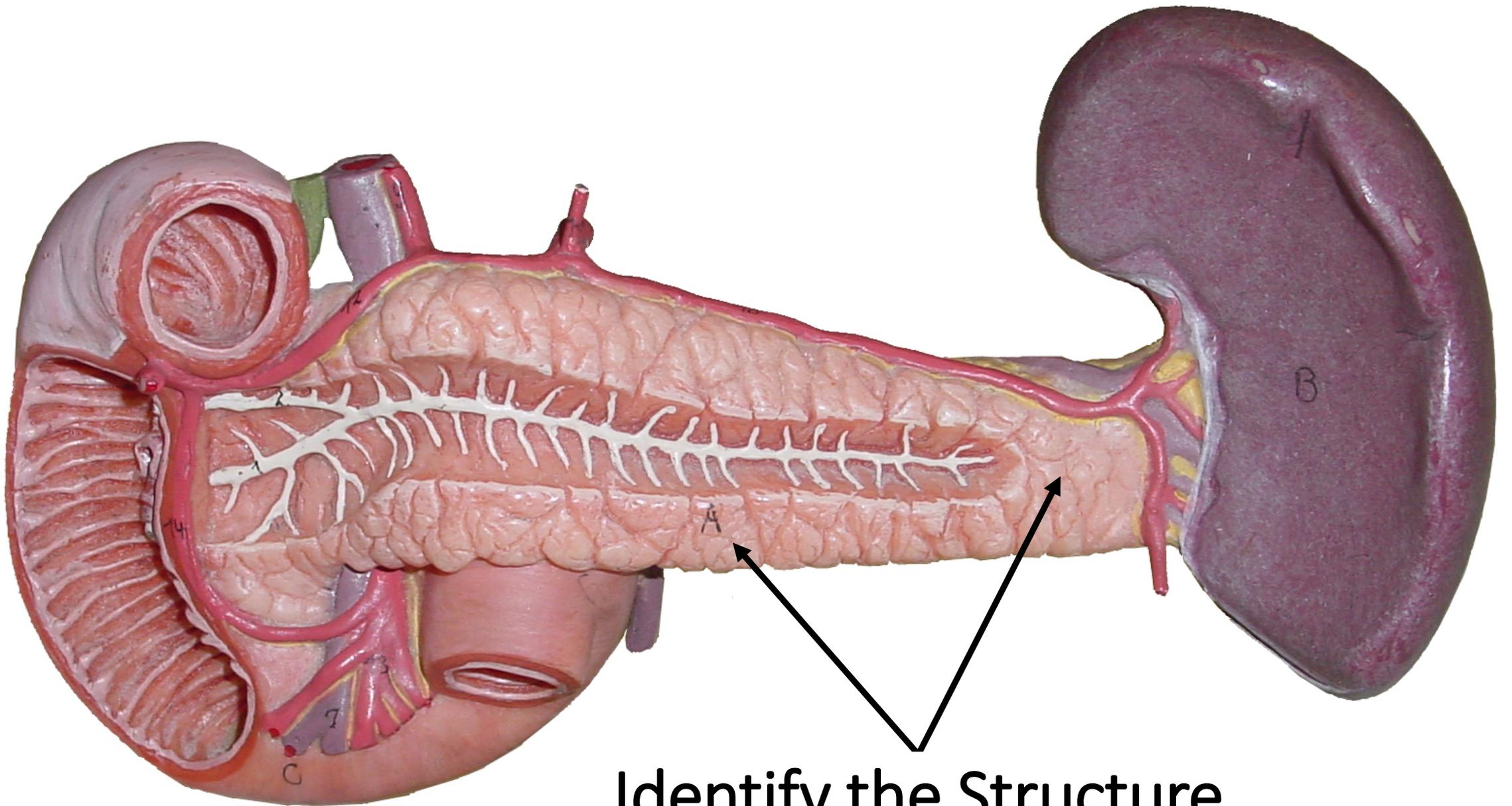


Identify the Structure and Function.

The pancreas is not part of the alimentary canal, but it makes pancreatic juice that has digestive enzymes needed to break down food.

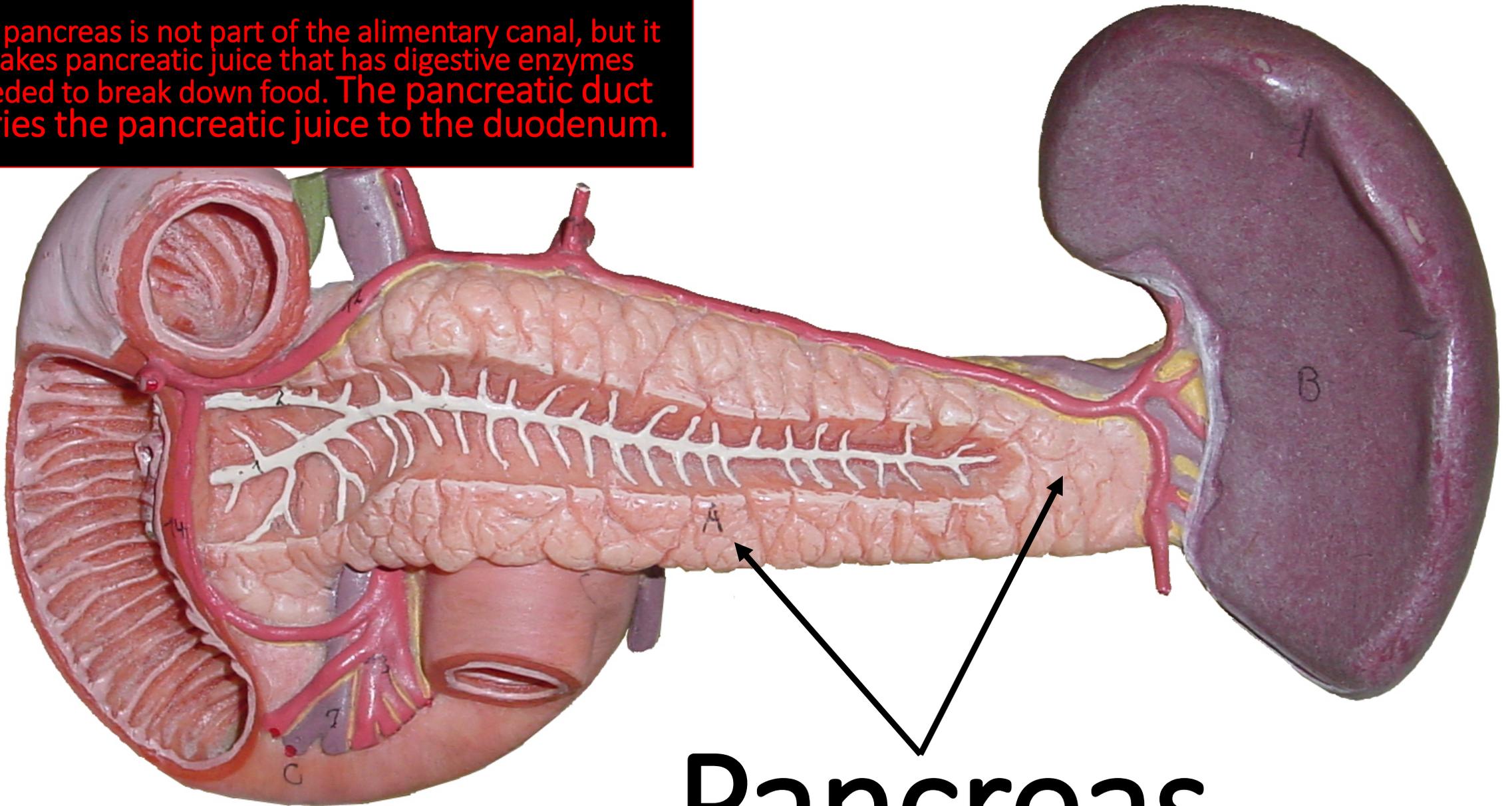


Pancreas

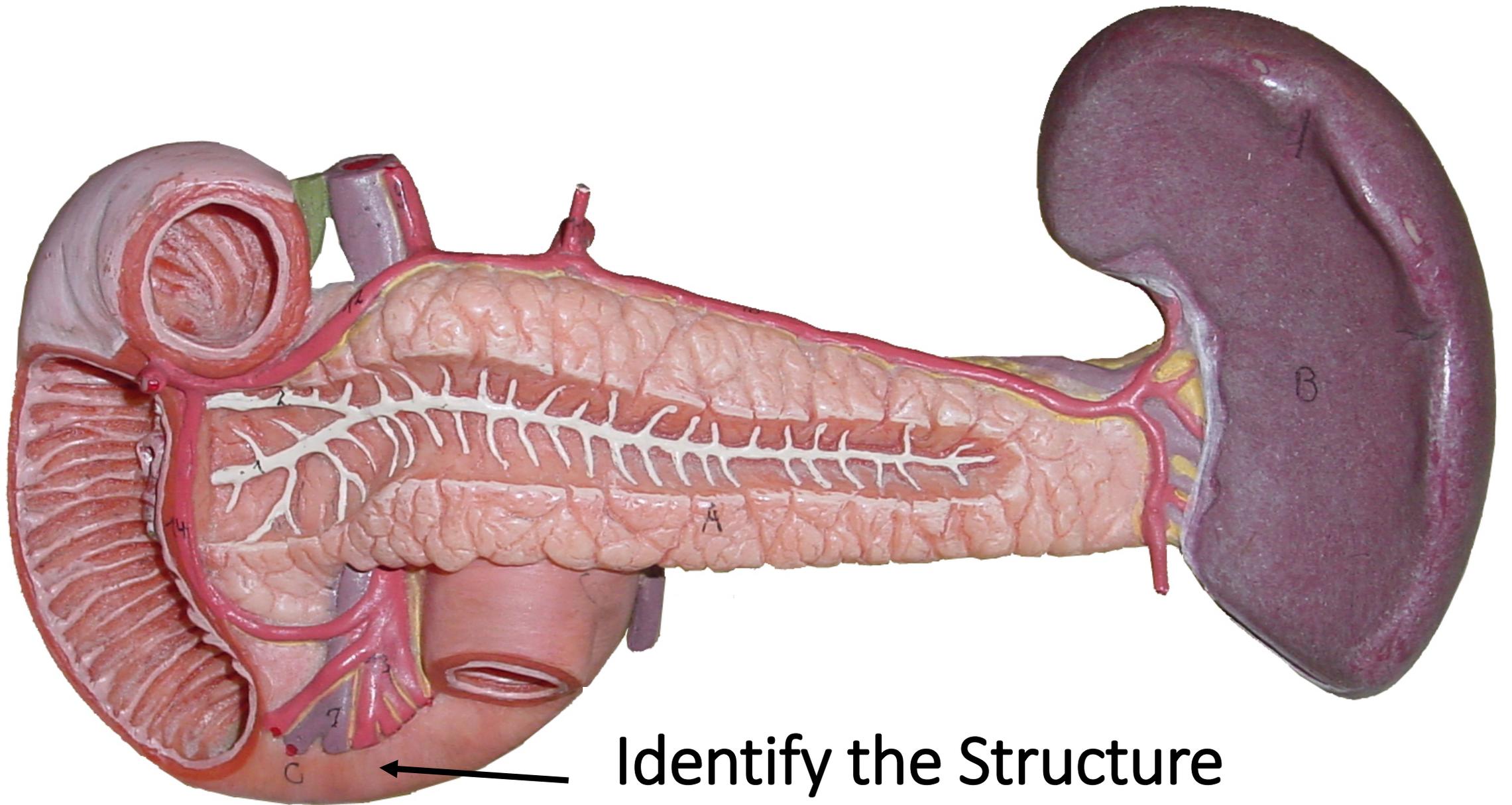


Identify the Structure  
and Function.

The pancreas is not part of the alimentary canal, but it makes pancreatic juice that has digestive enzymes needed to break down food. The pancreatic duct carries the pancreatic juice to the duodenum.

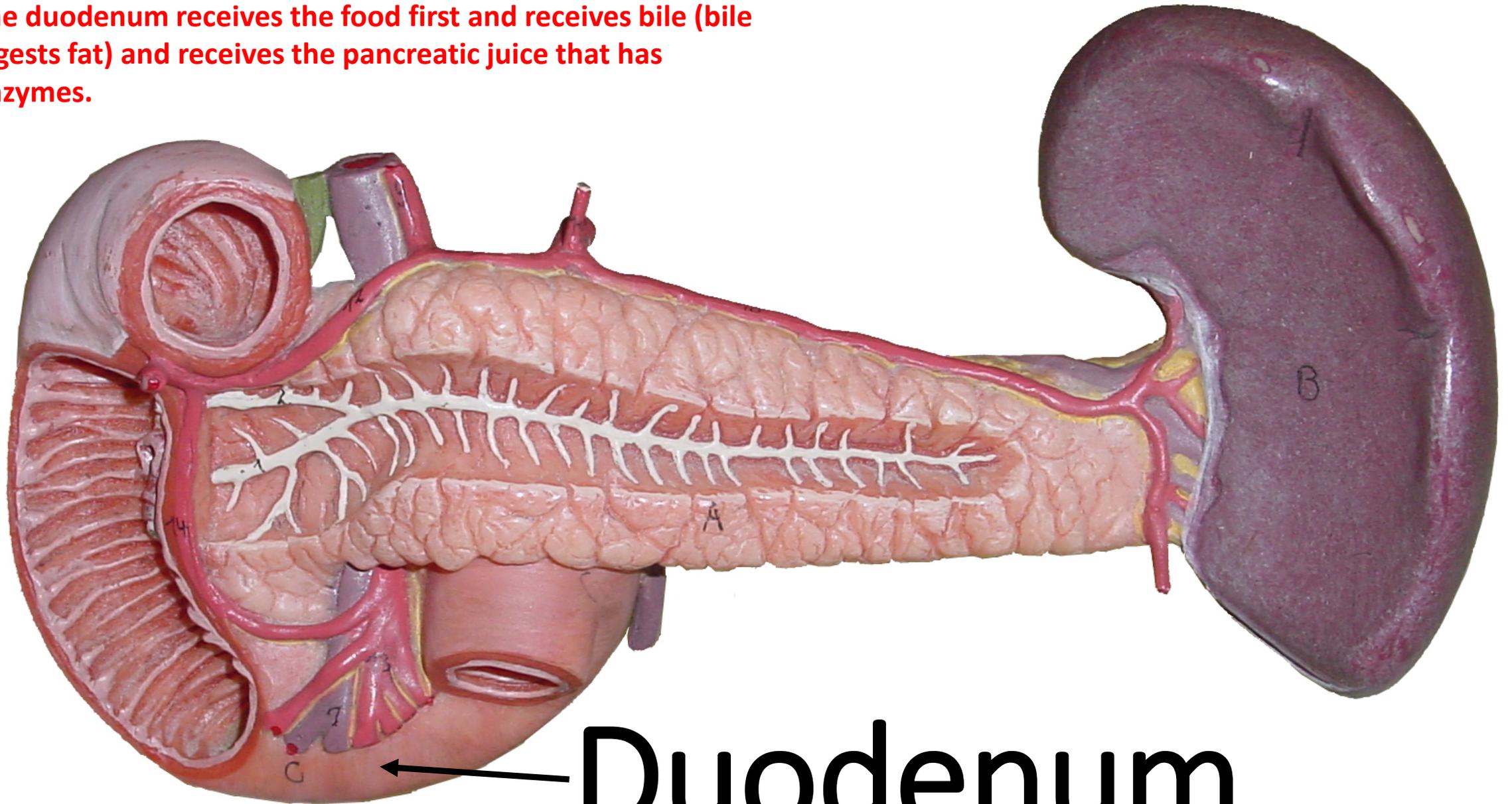


**Pancreas**

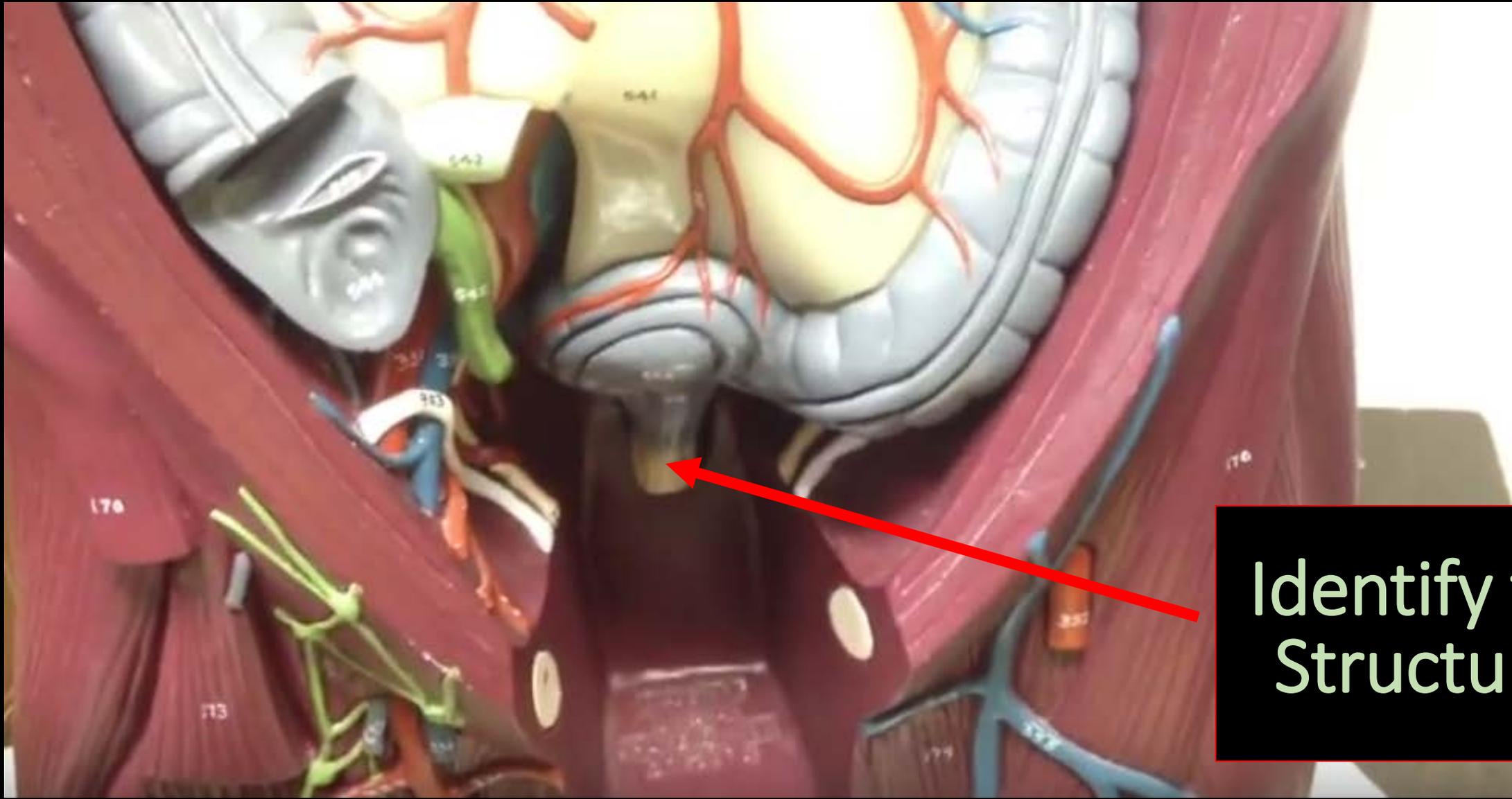


Identify the Structure and Function.

The duodenum receives the food first and receives bile (bile digests fat) and receives the pancreatic juice that has enzymes.

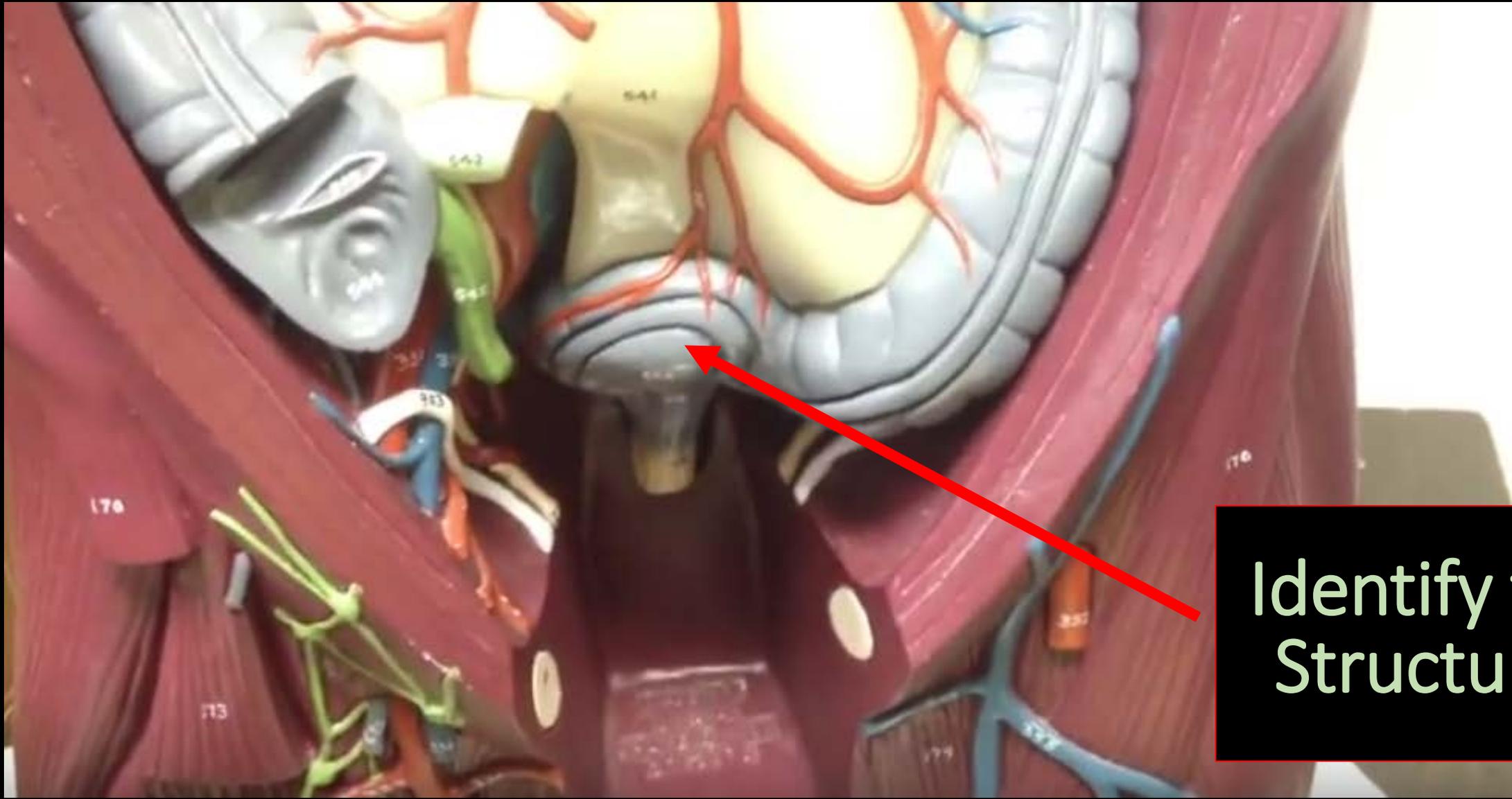


Duodenum

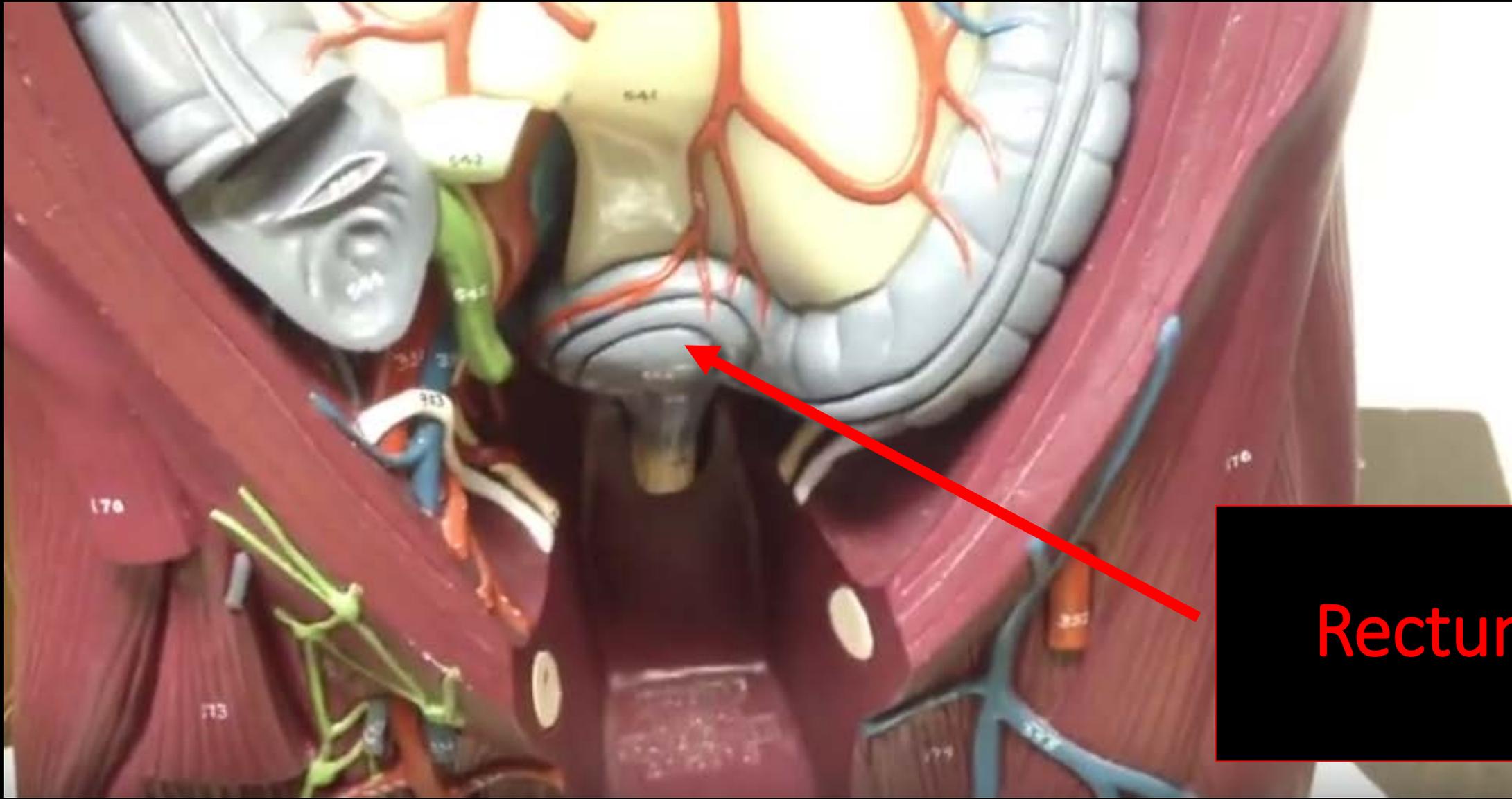


Identify the Structure.



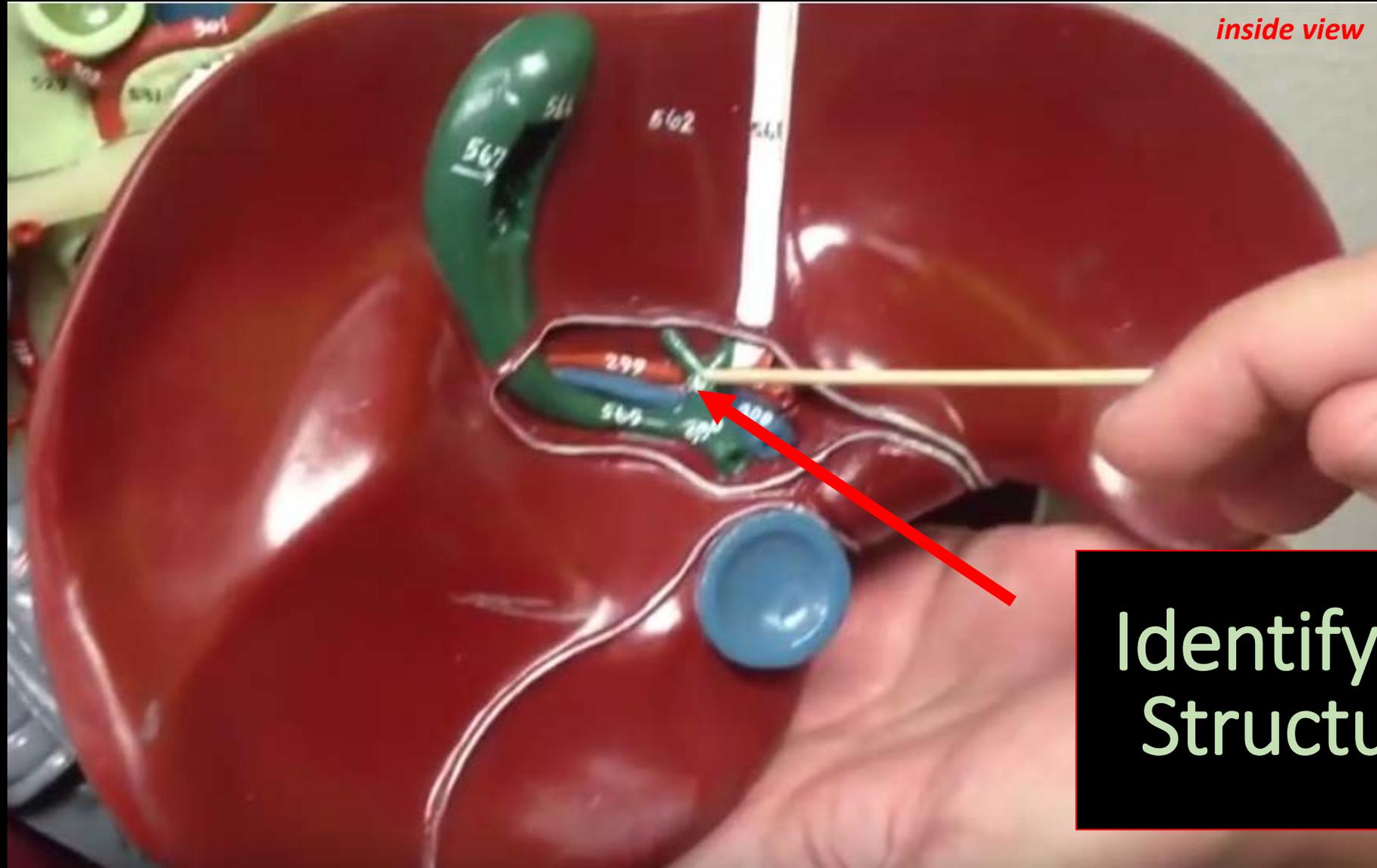


Identify the Structure.



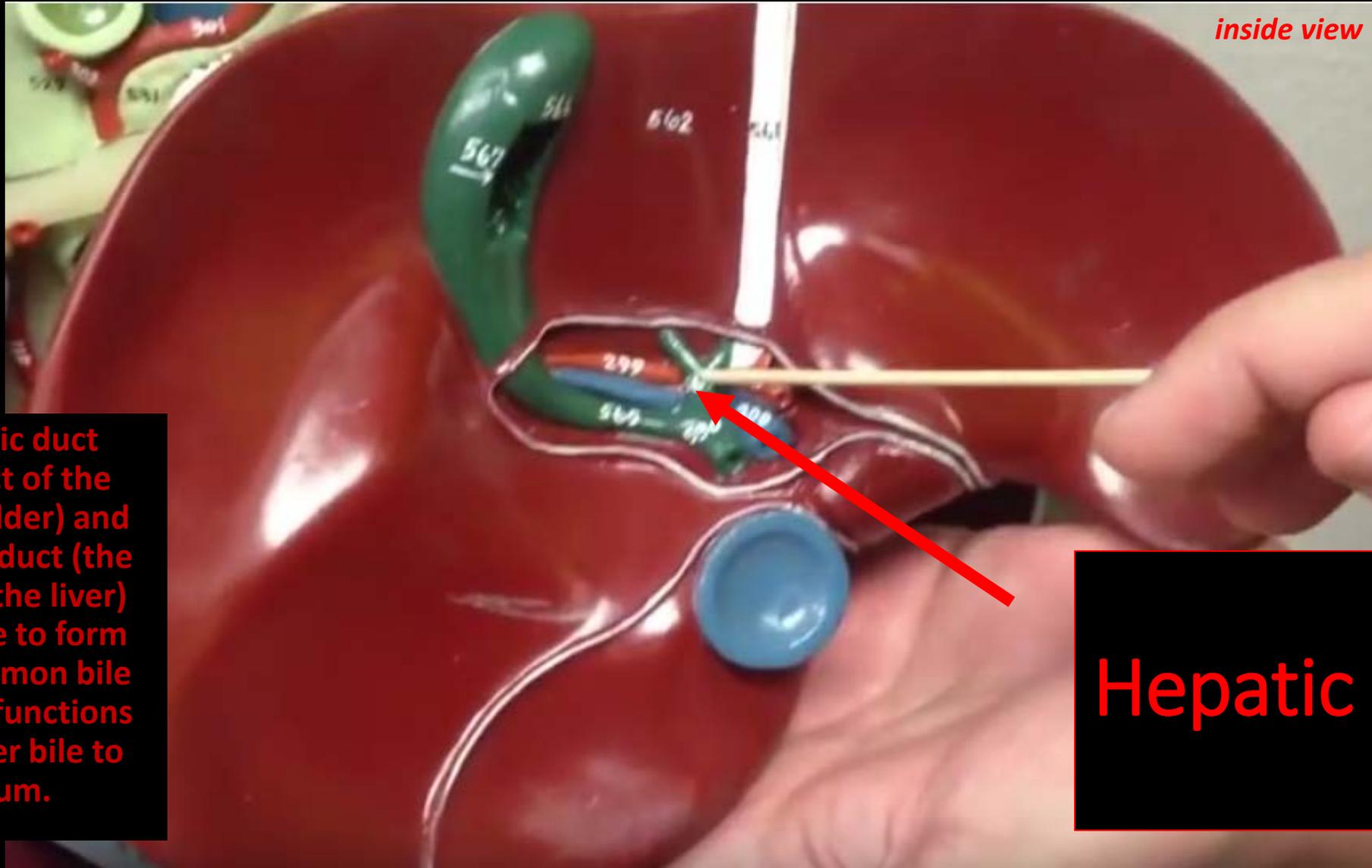
Rectum

# LIVER



Identify the  
Structure.

# LIVER



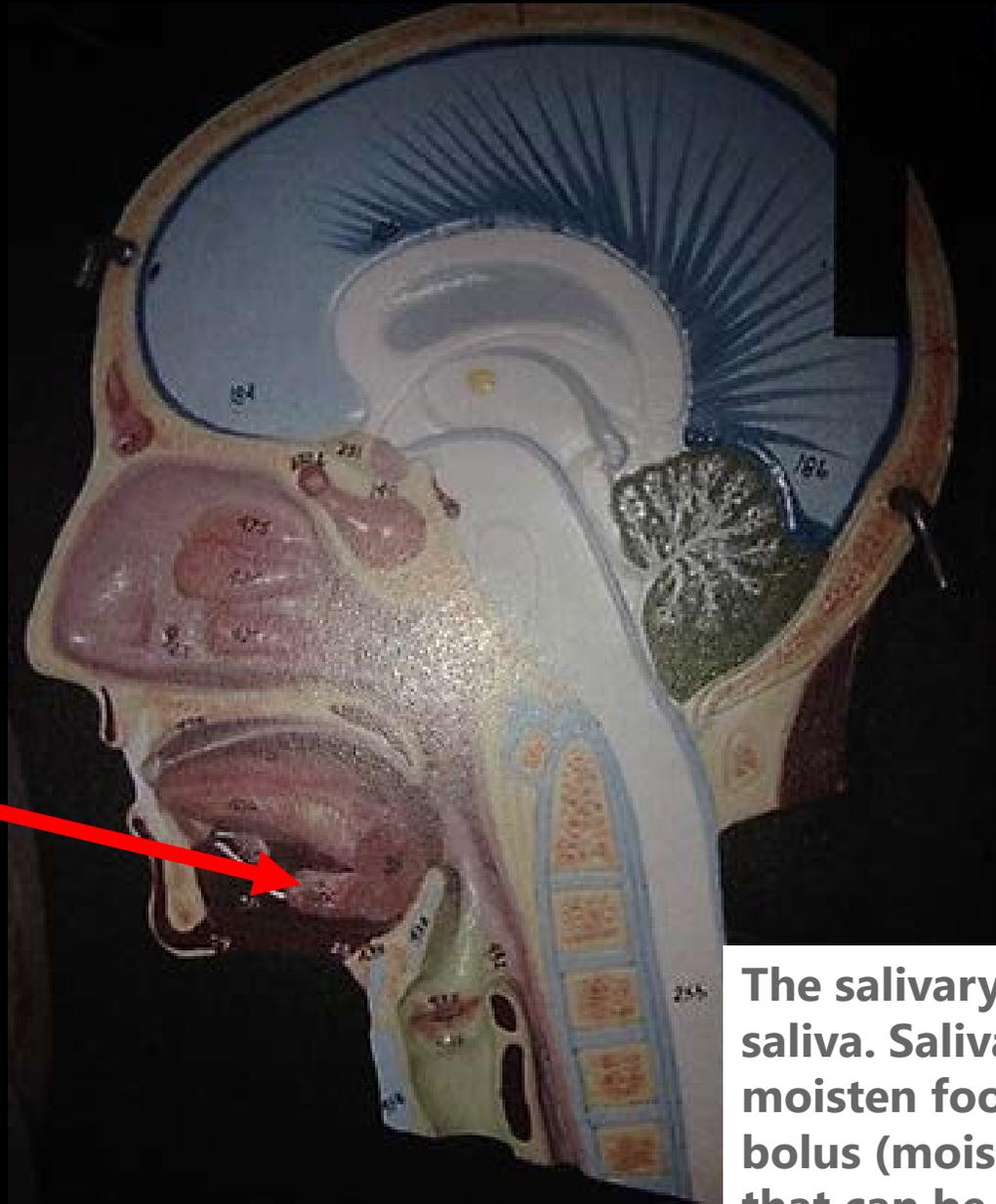
The cystic duct (the duct of the gall bladder) and hepatic duct (the duct of the liver) combine to form the common bile duct. It functions to deliver bile to duodenum.

Hepatic Duct

Identify the Structure  
and Function.

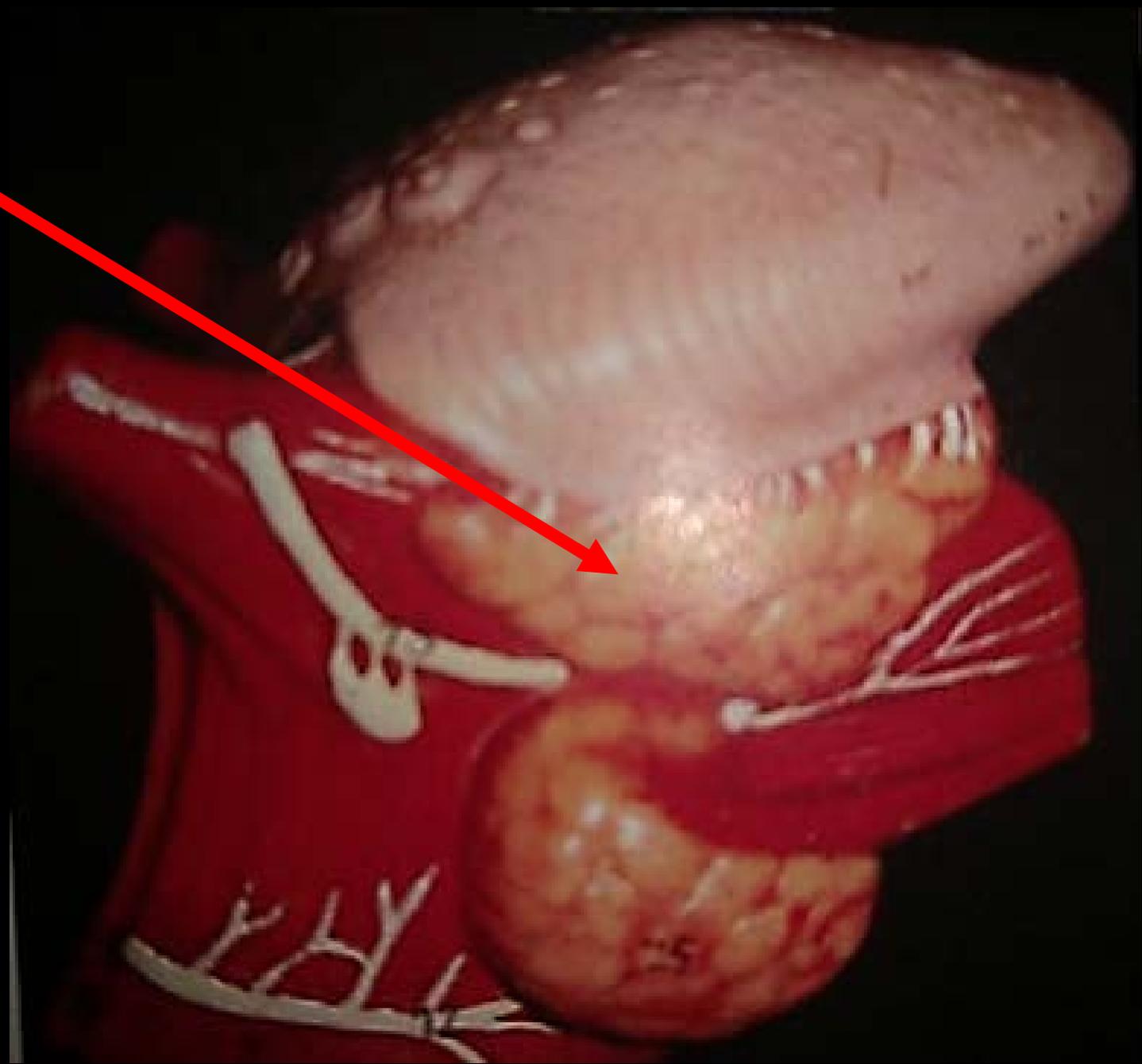


# Sublingual Gland

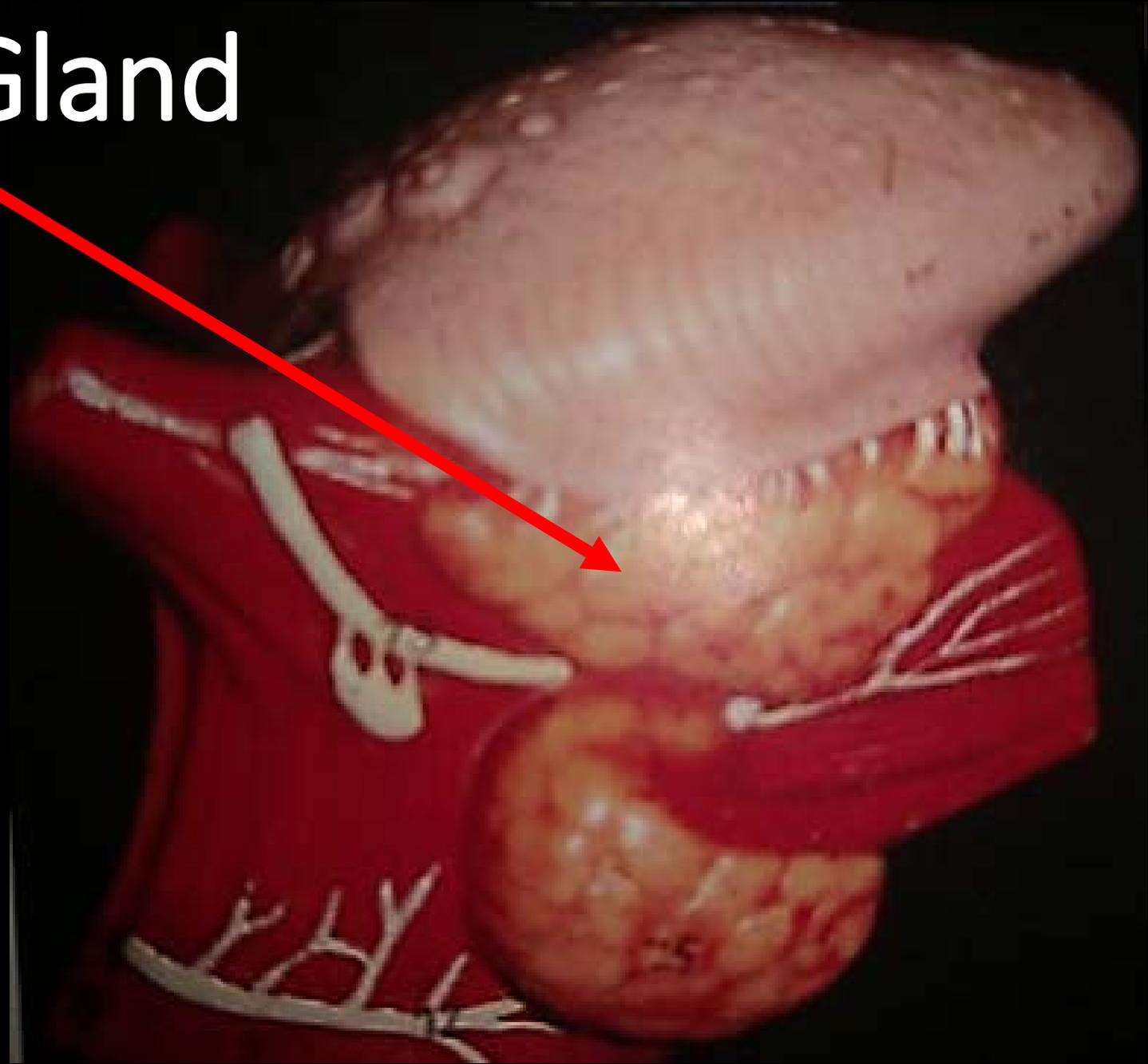


The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).

Identify the  
Structure and  
function.



# Sublingual Gland



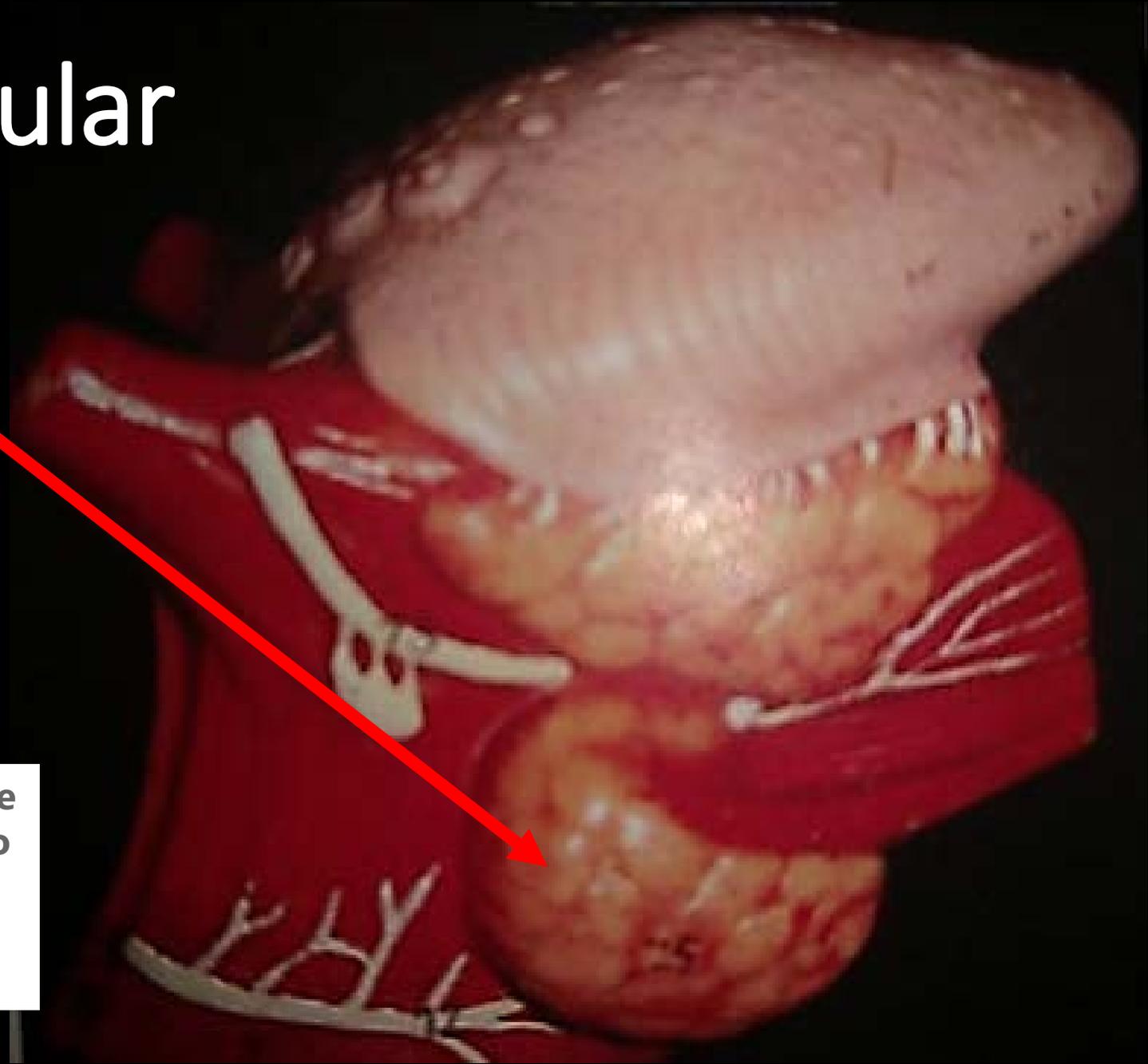
The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).

Identify the  
Structure and  
function.



# Submandibular Gland

The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).



Identify the  
Structure and  
Function.



# Parotid Gland



The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).

Identify the Structure  
and Function.

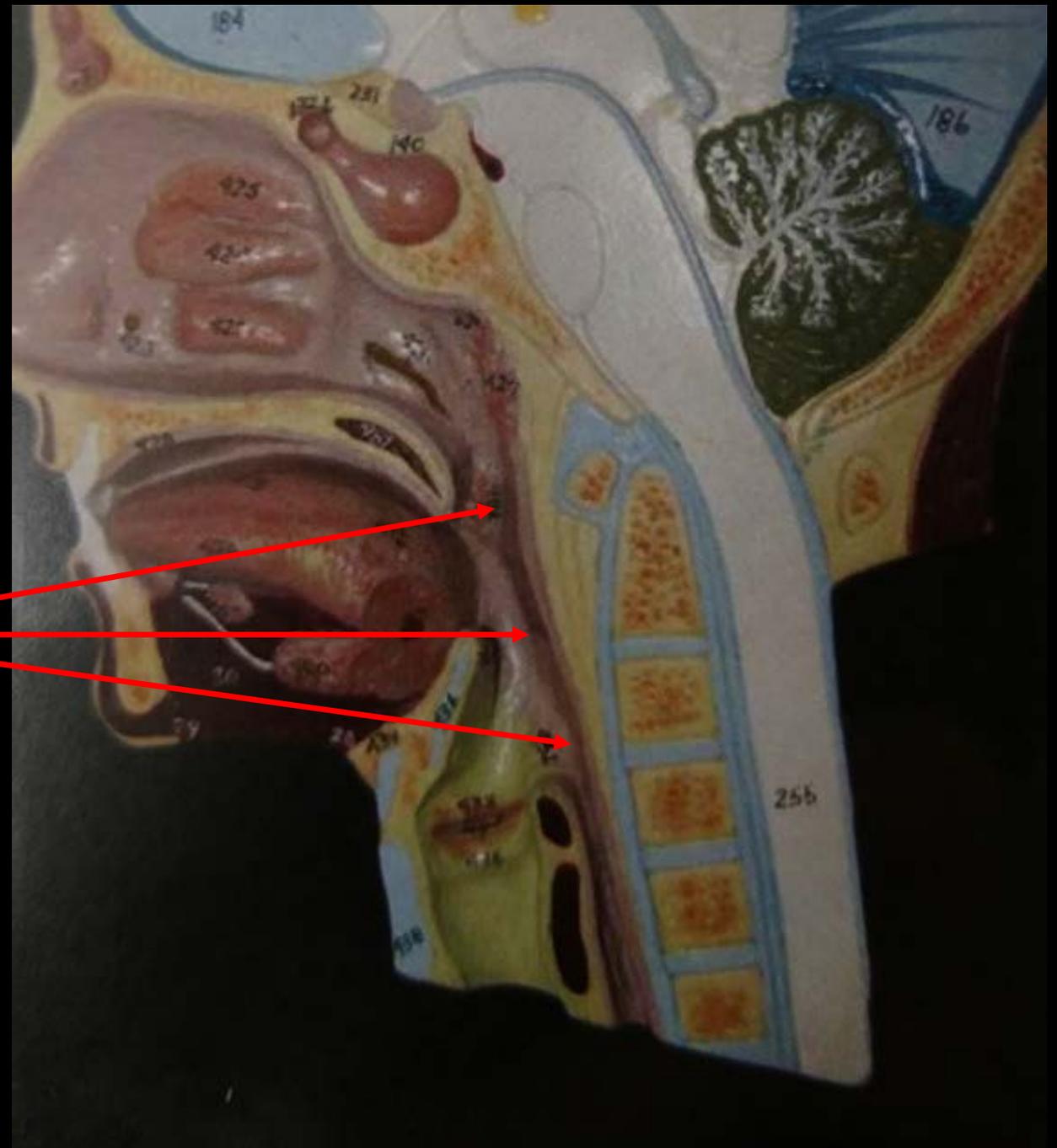


# Submandibular Gland



**The salivary glands produce saliva. Saliva is necessary to moisten food to create a bolus (moist ball of food that can be swallowed).**

Identify the Structure  
and Function.



# Pharynx (Throat)

The function of the **pharynx** is to

1. Transfer food from the mouth to the esophagus
2. Warm, moisten and filter air before it moves into the trachea



Identify the  
Structure and  
Function.

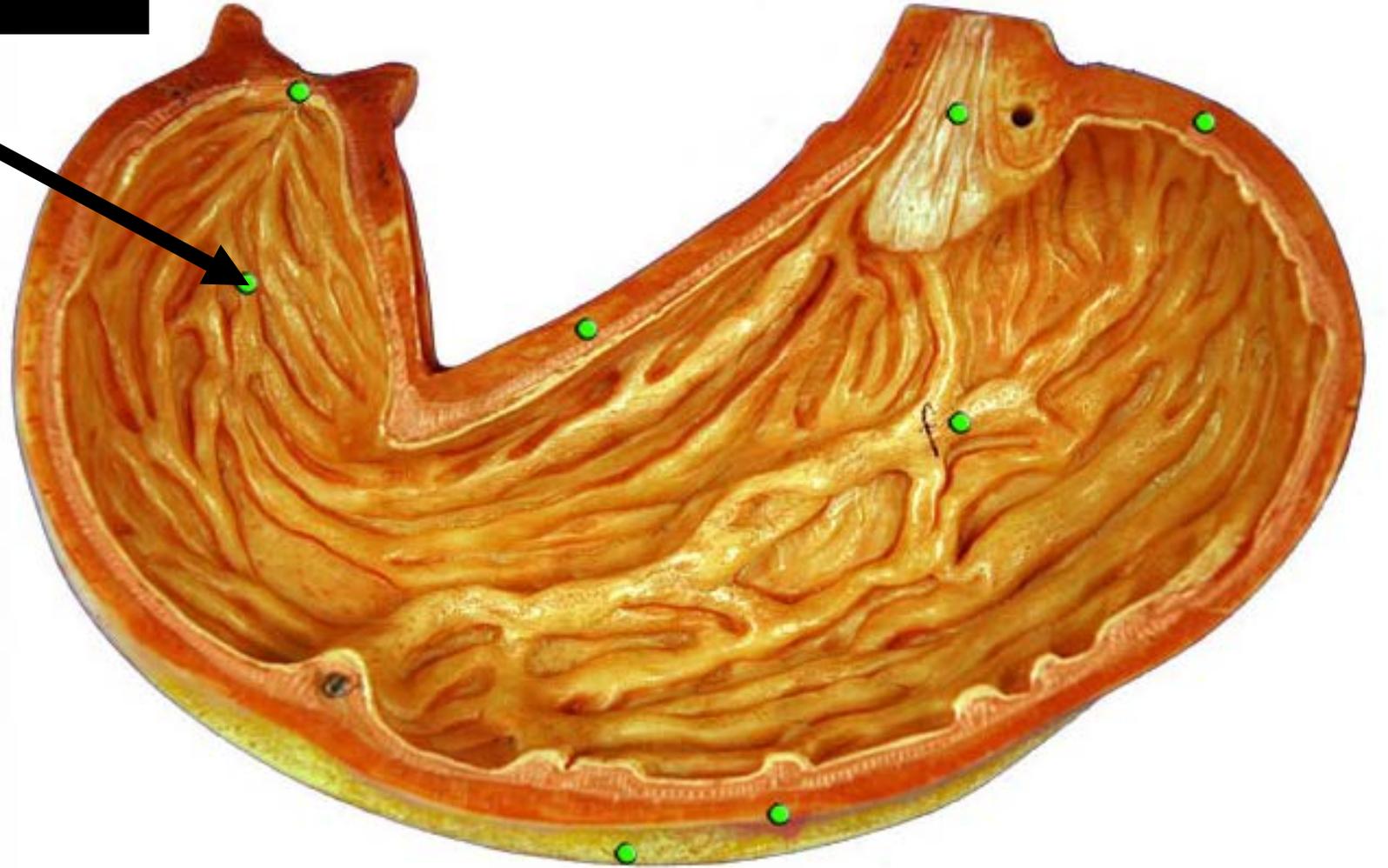


# Esophagus

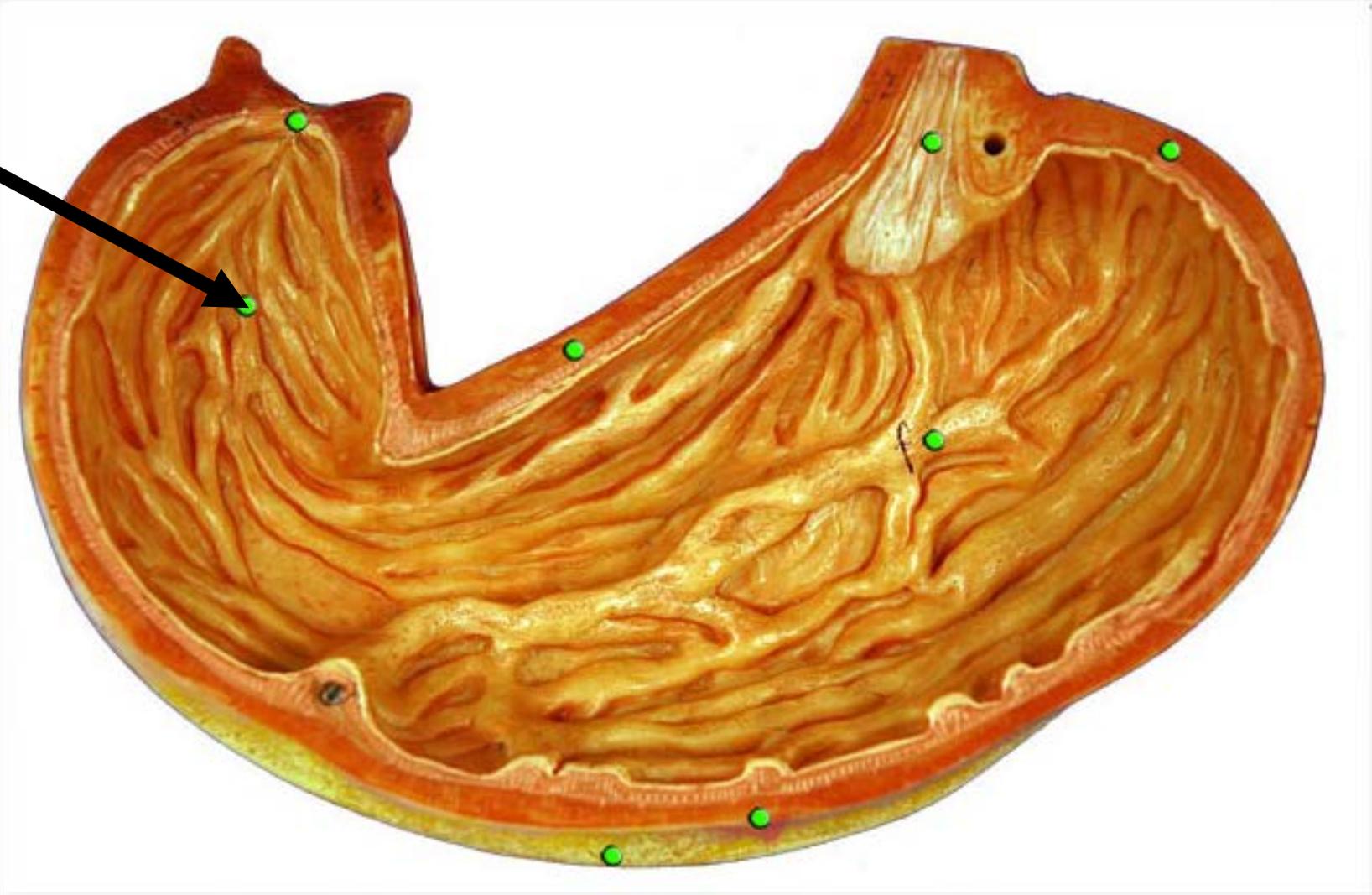
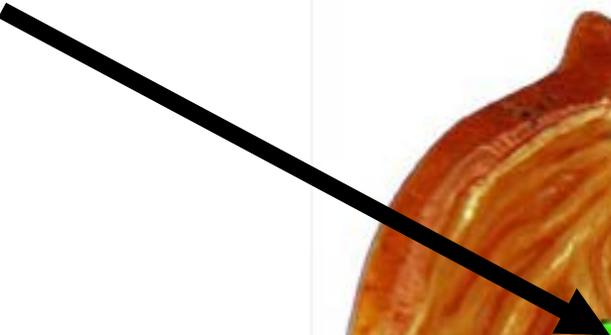
**The function of the esophagus is to carry food, liquids, and saliva from the pharynx to the stomach.**



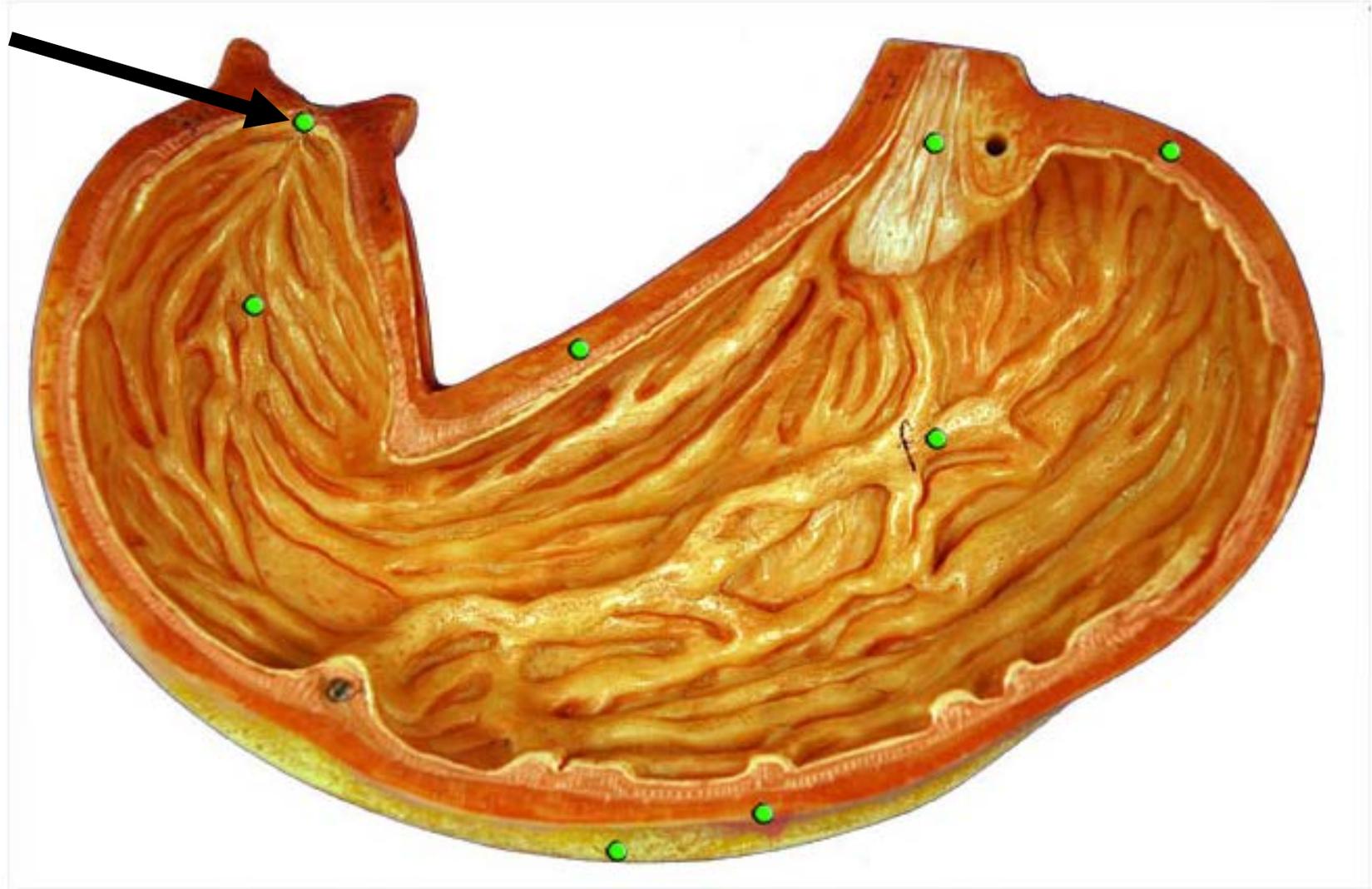
Identify the  
Structure.



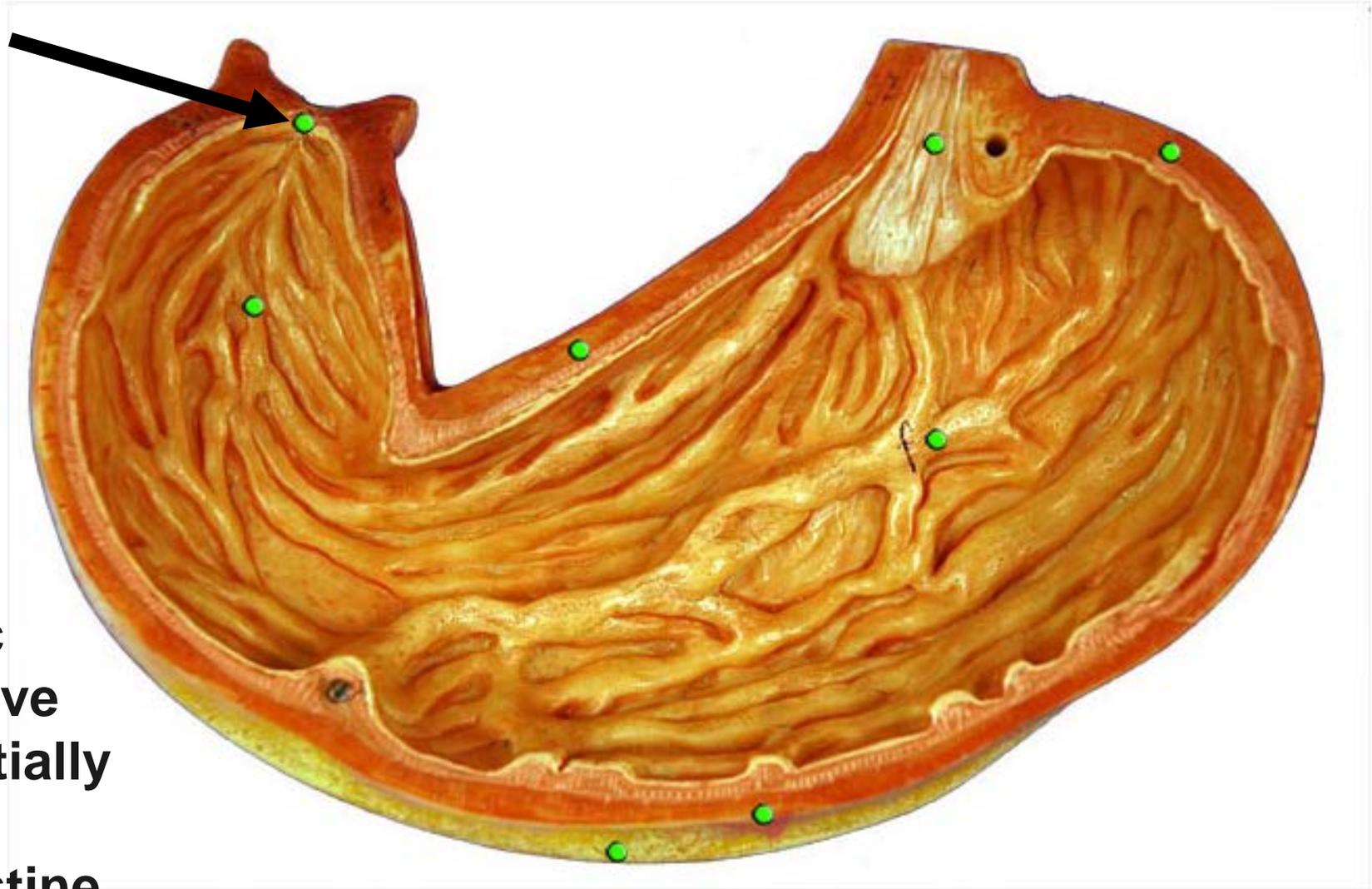
# Pyloric Region



Identify the  
Structure and  
Function.

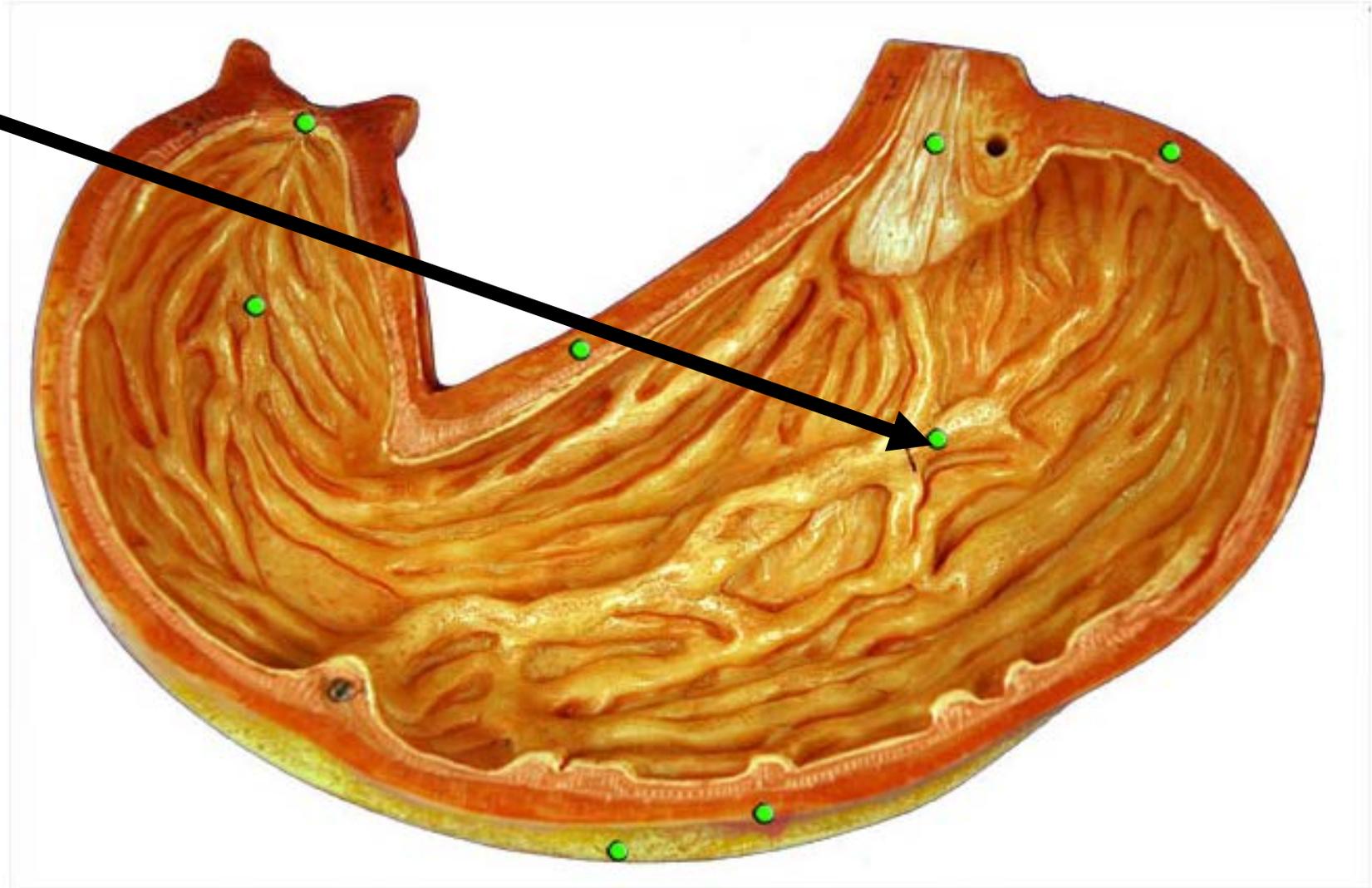


# Pyloric Sphincter



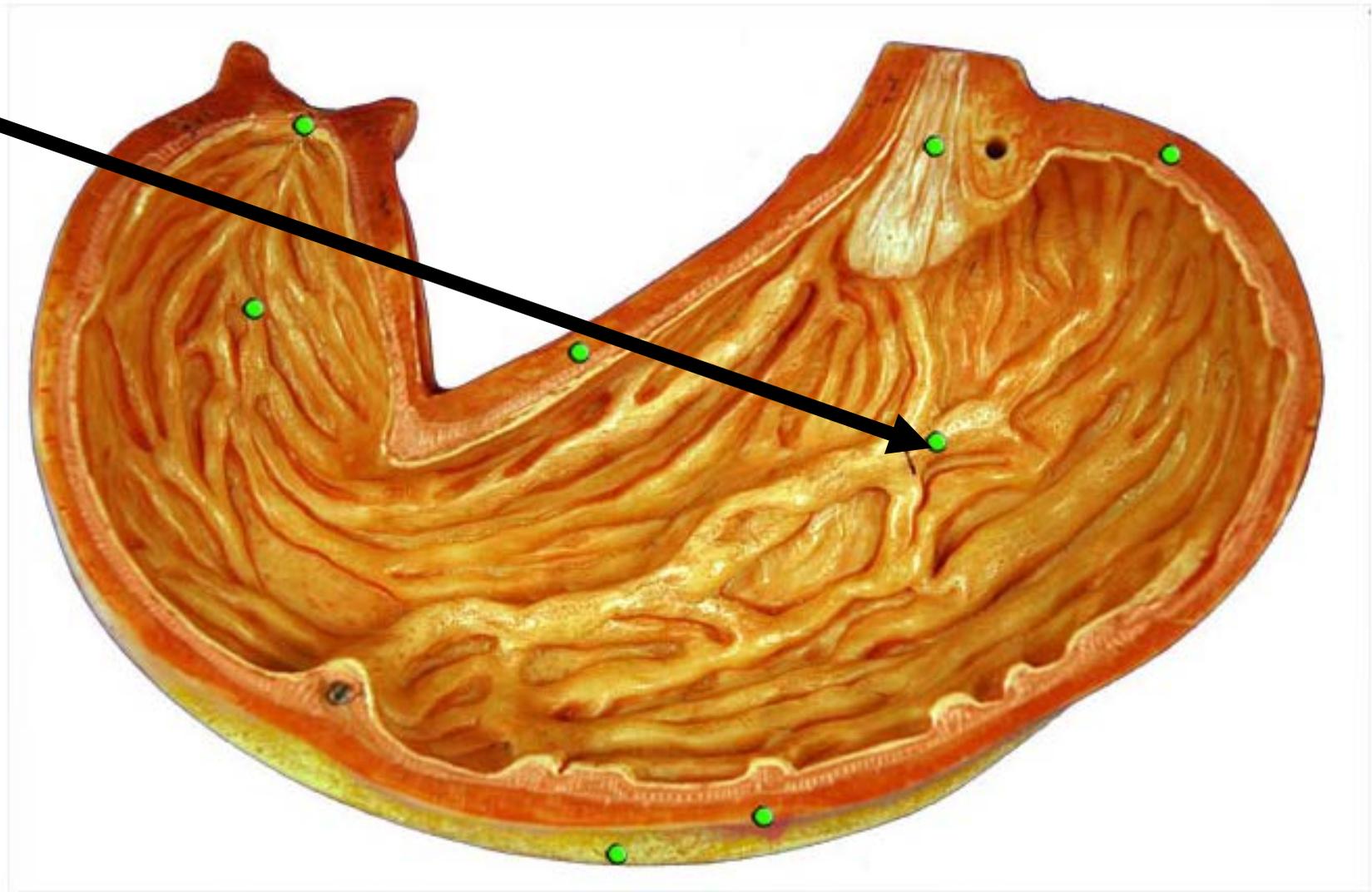
The function of the pyloric sphincter is to act as a valve to controls the flow of partially digested food from the stomach to the small intestine.

Identify the  
Structure.  
*(large folds)*

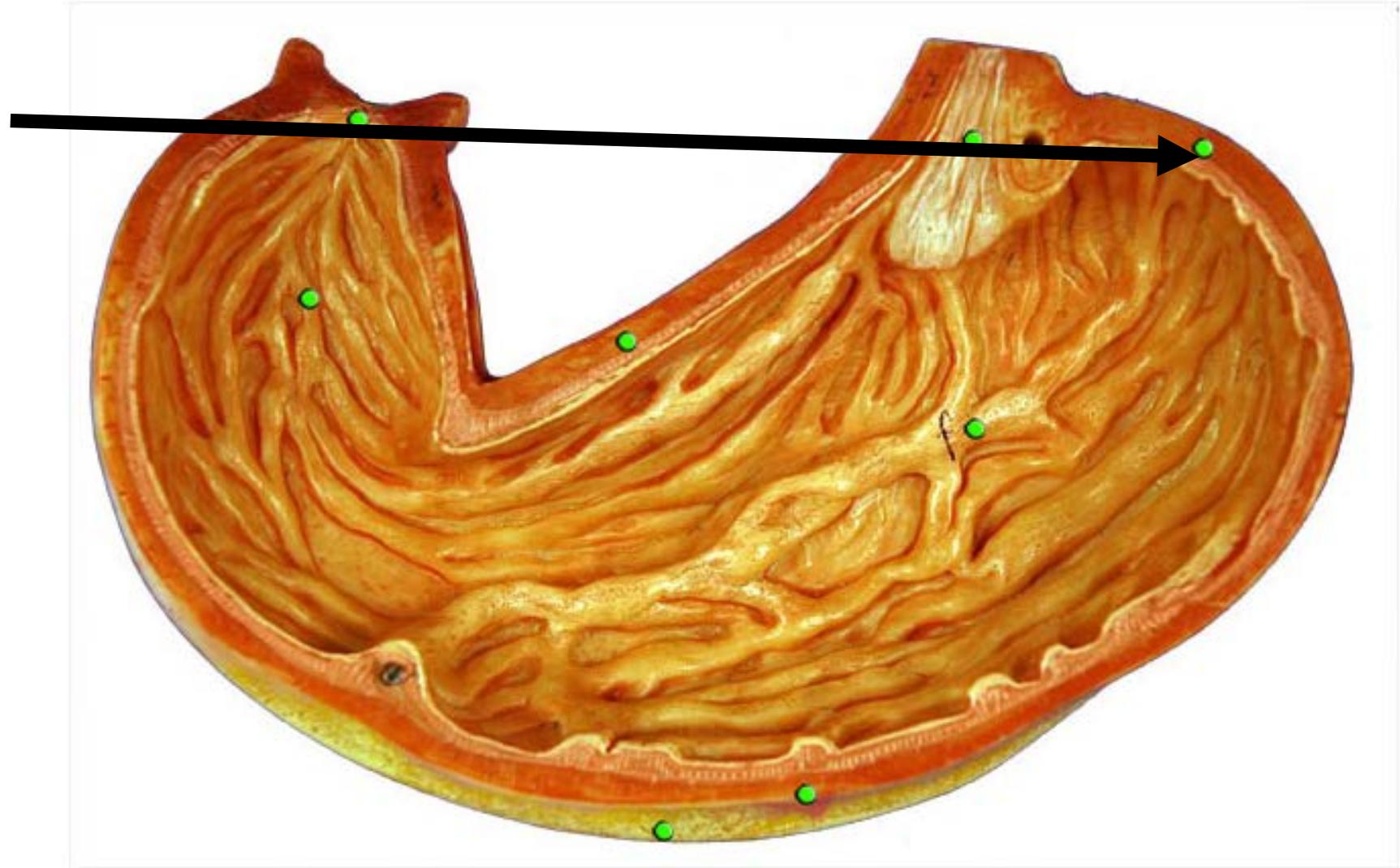


Muscles that  
Allow Churning  
of the Stomach

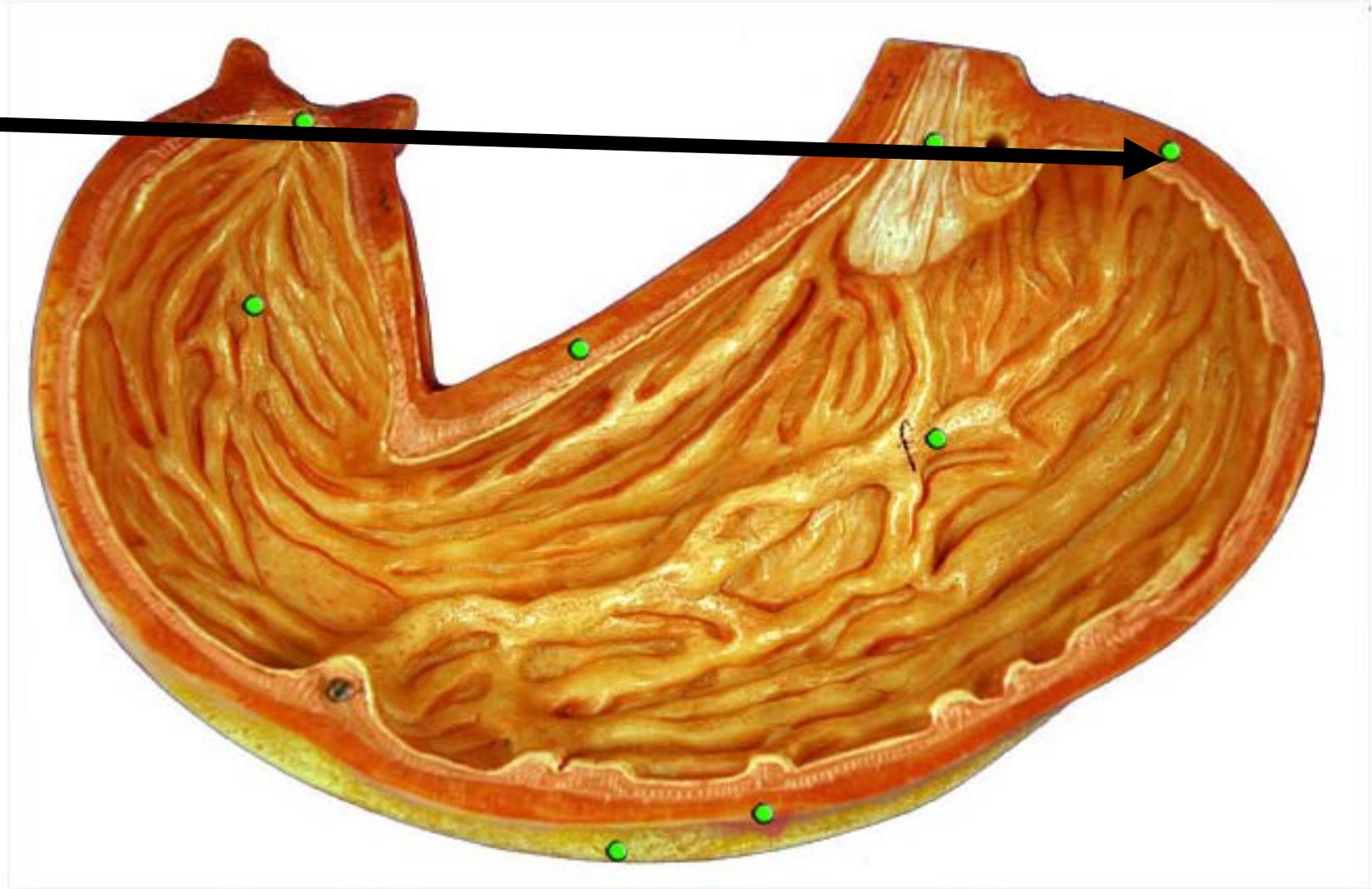
Rugae  
*(large folds)*



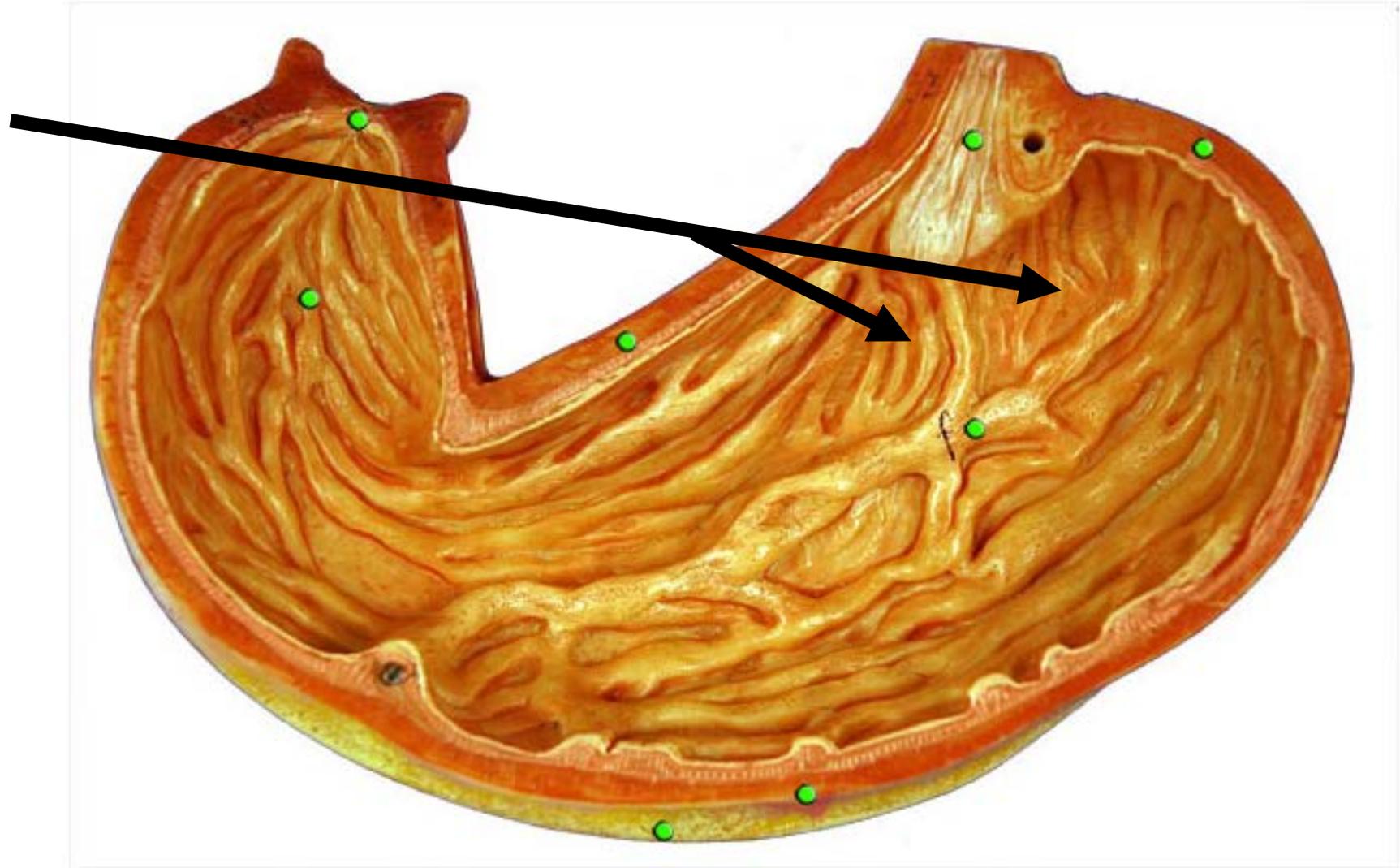
Identify the  
Structure.



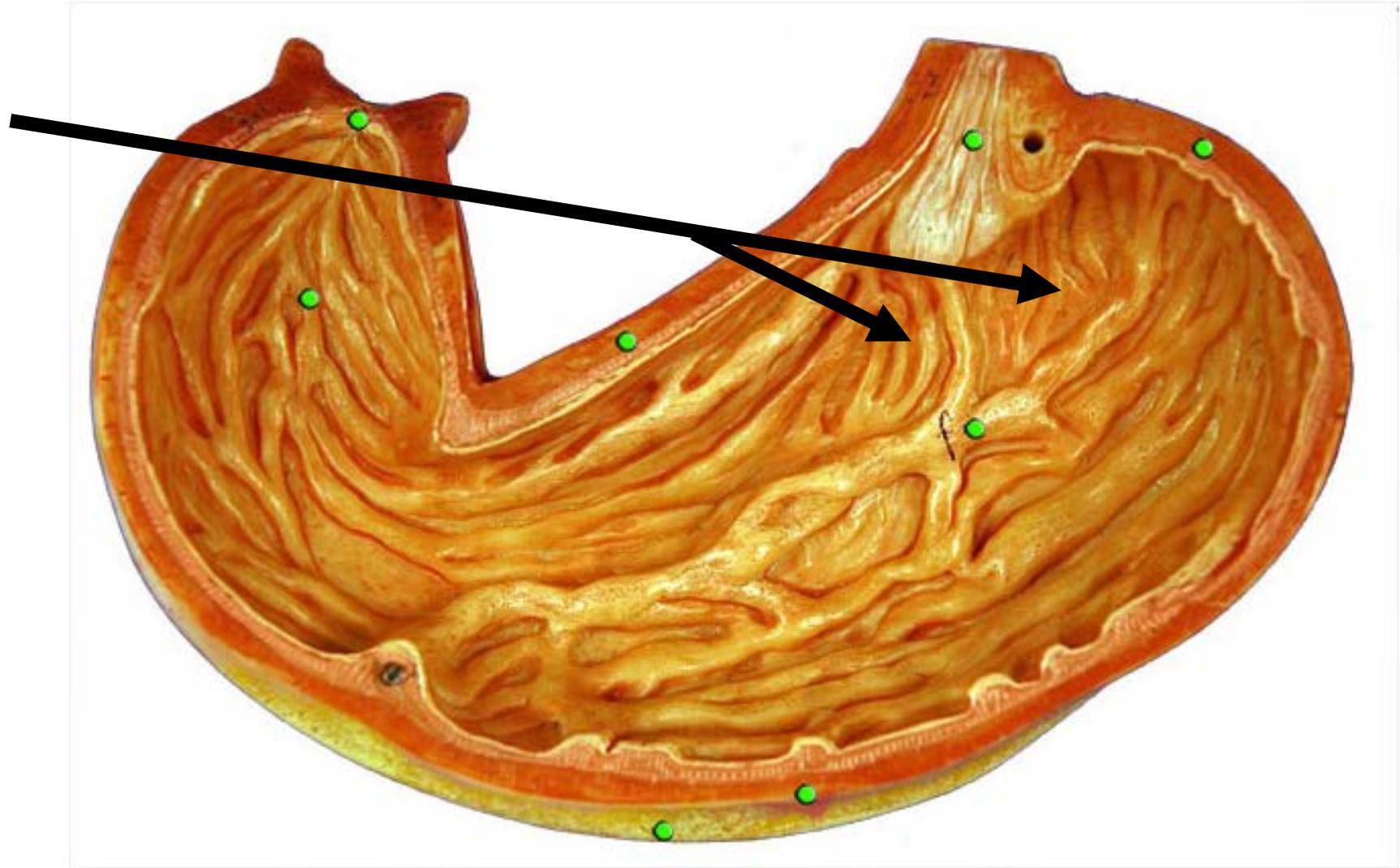
Fundus (aka)  
Fundic  
Region



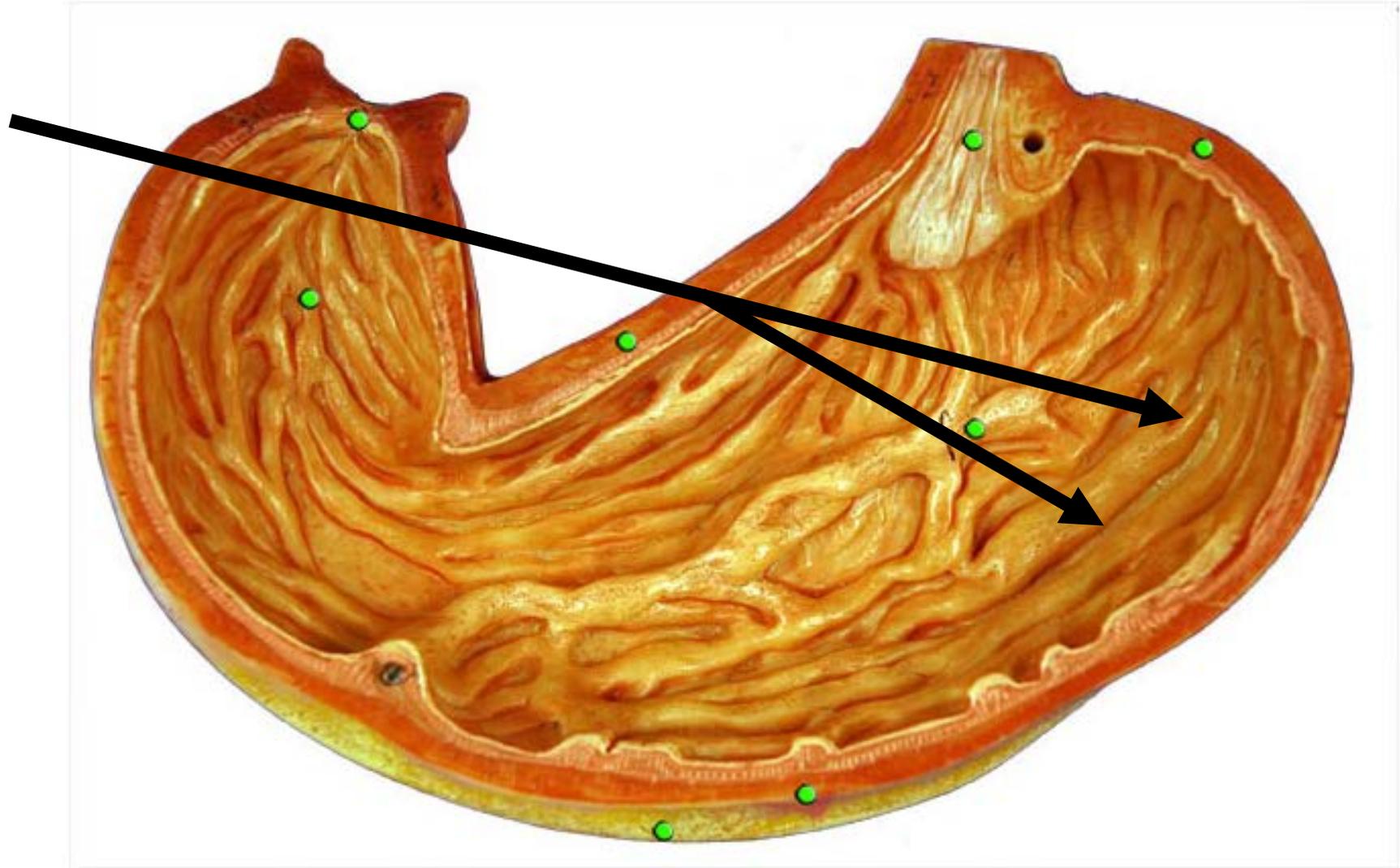
Identify the Structure.



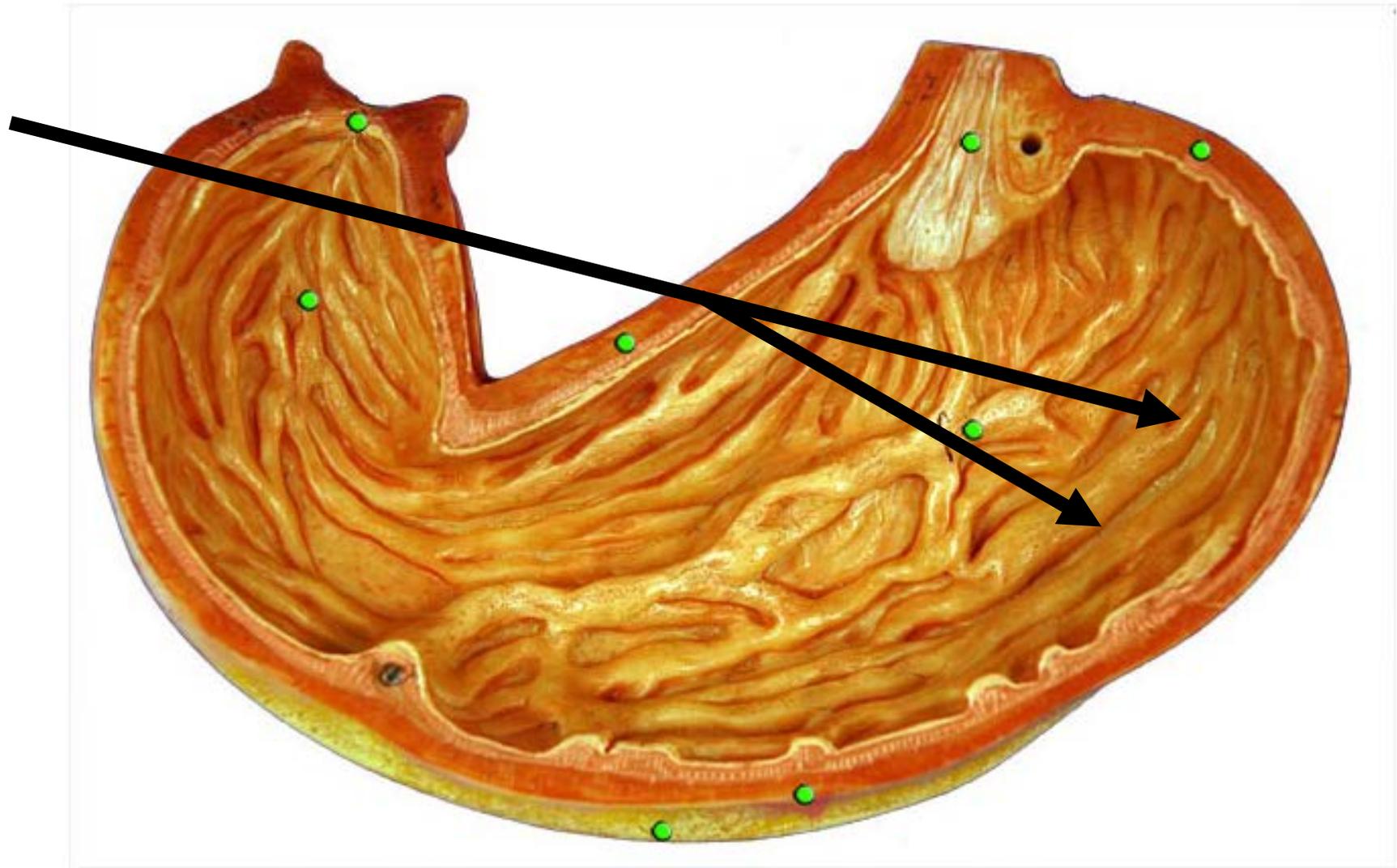
# Cardiac Region



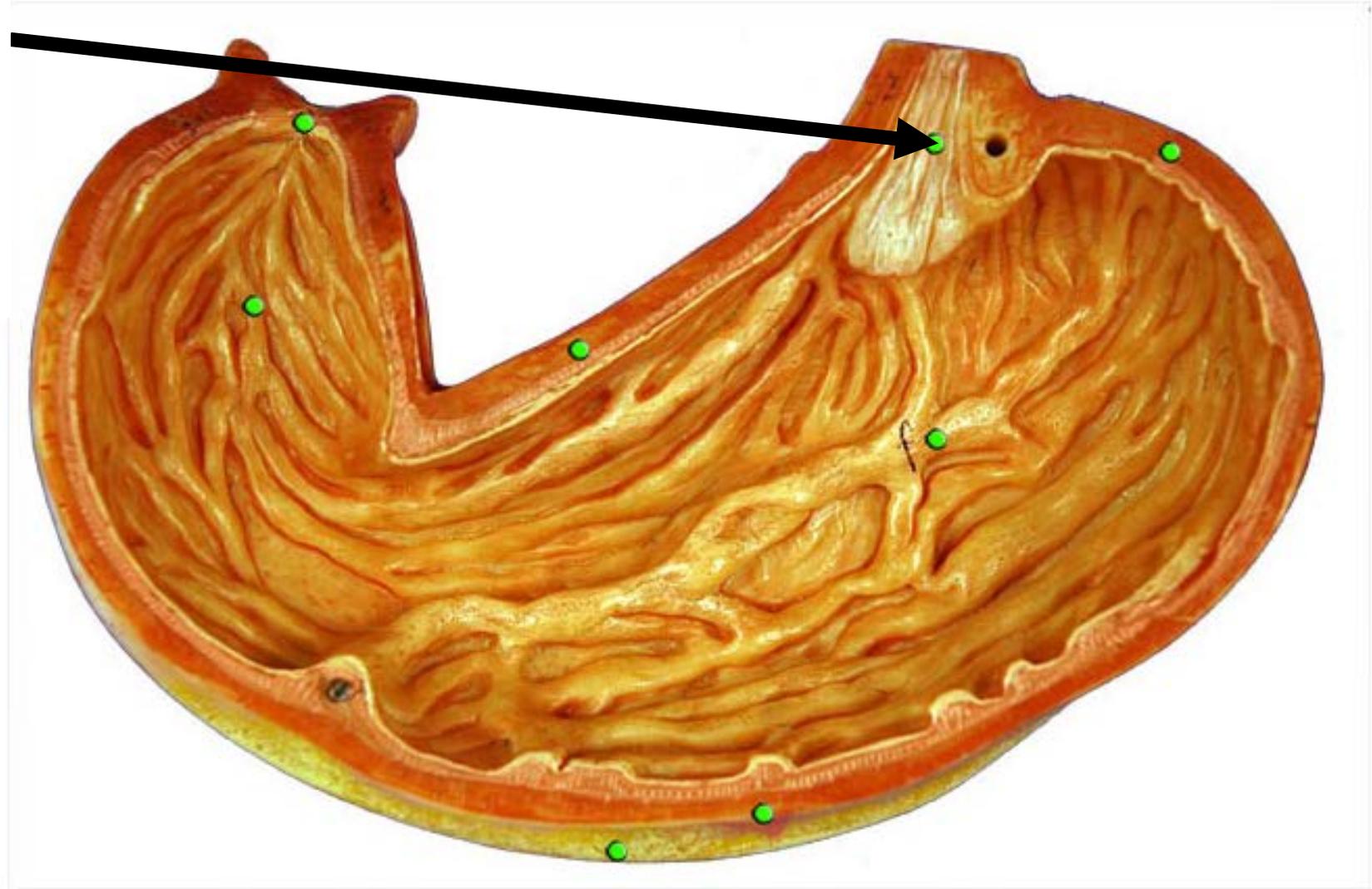
Identify the Structure.



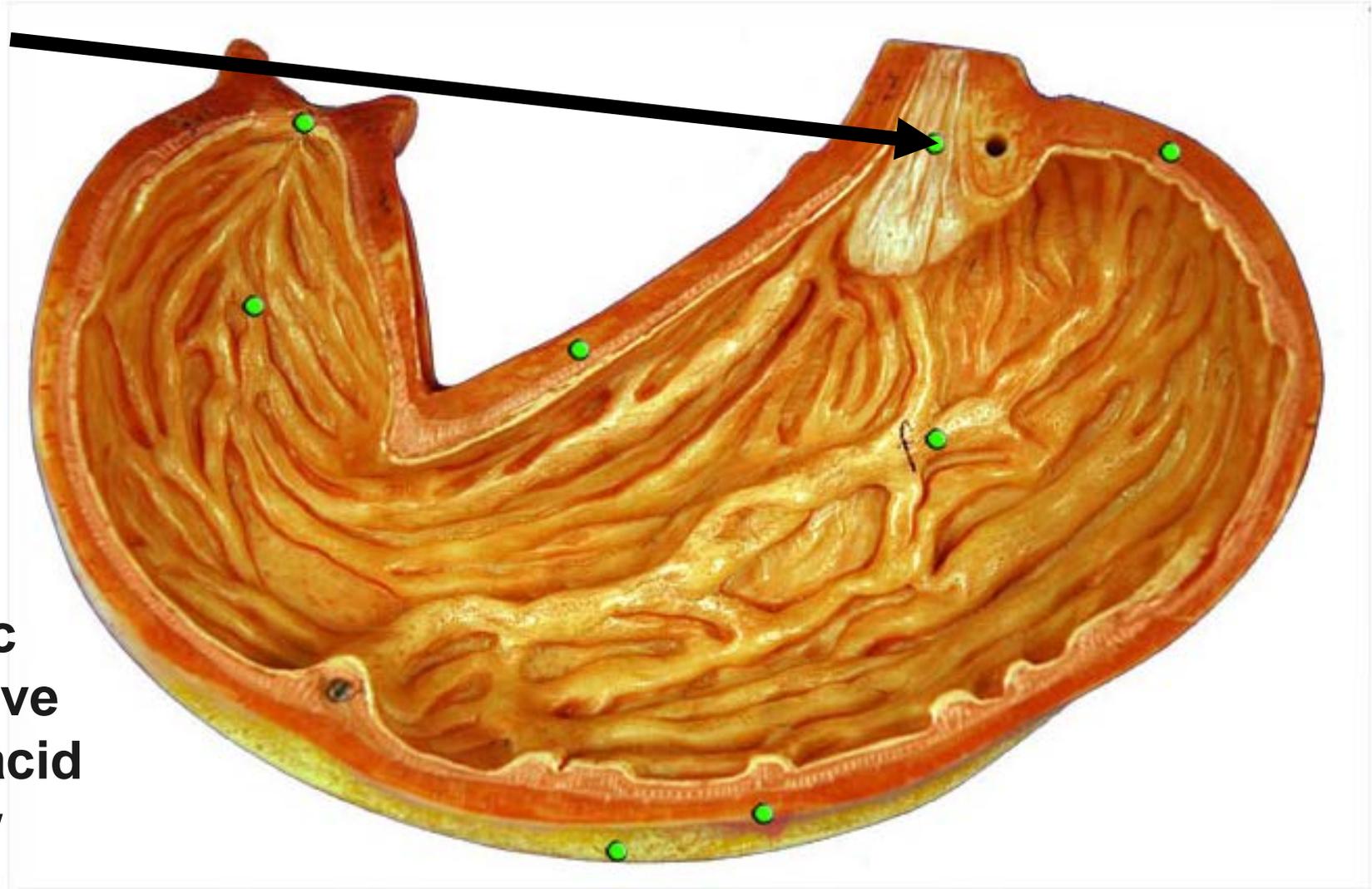
Body  
Region



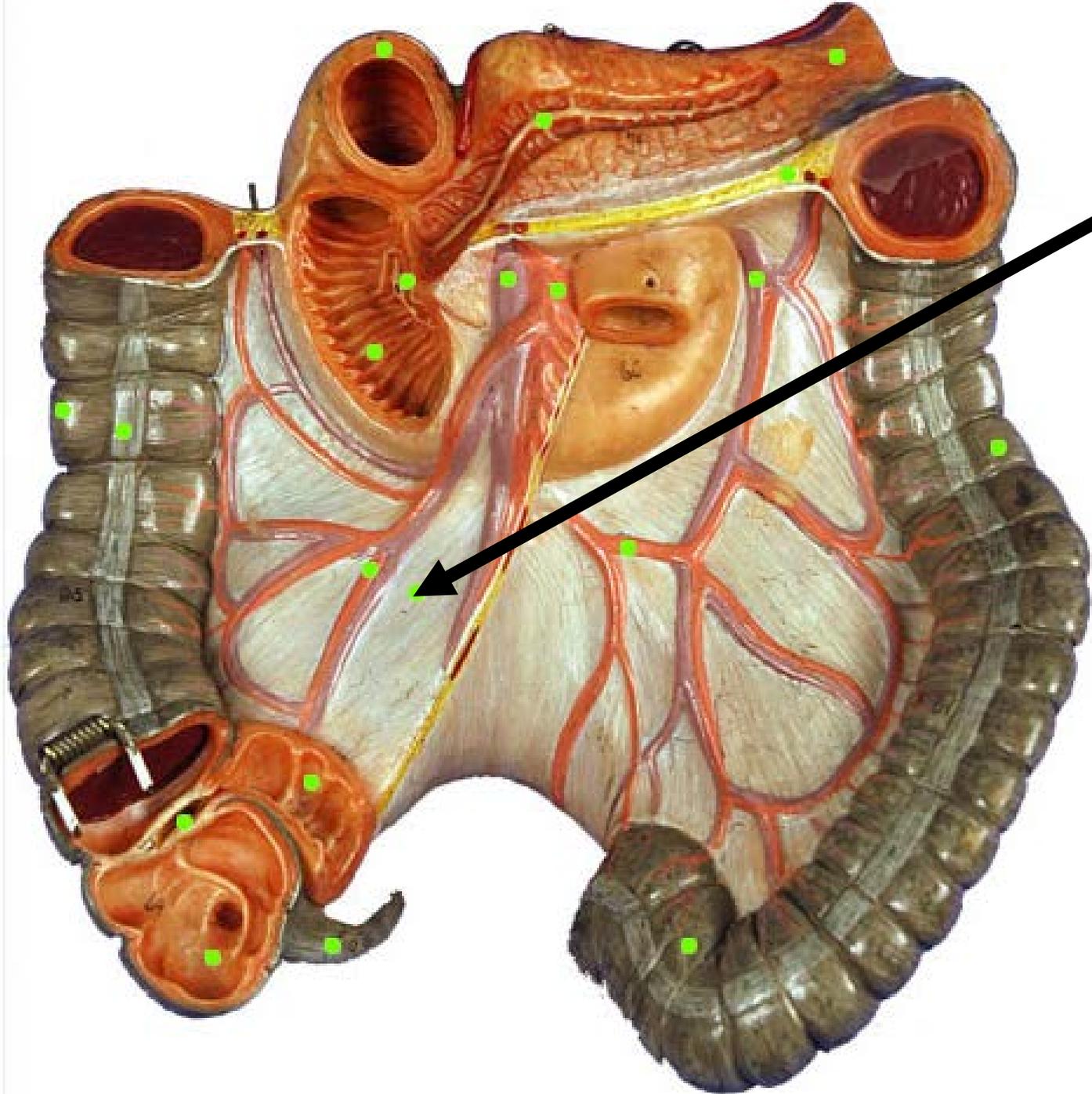
Identify the  
Structure and  
Function.



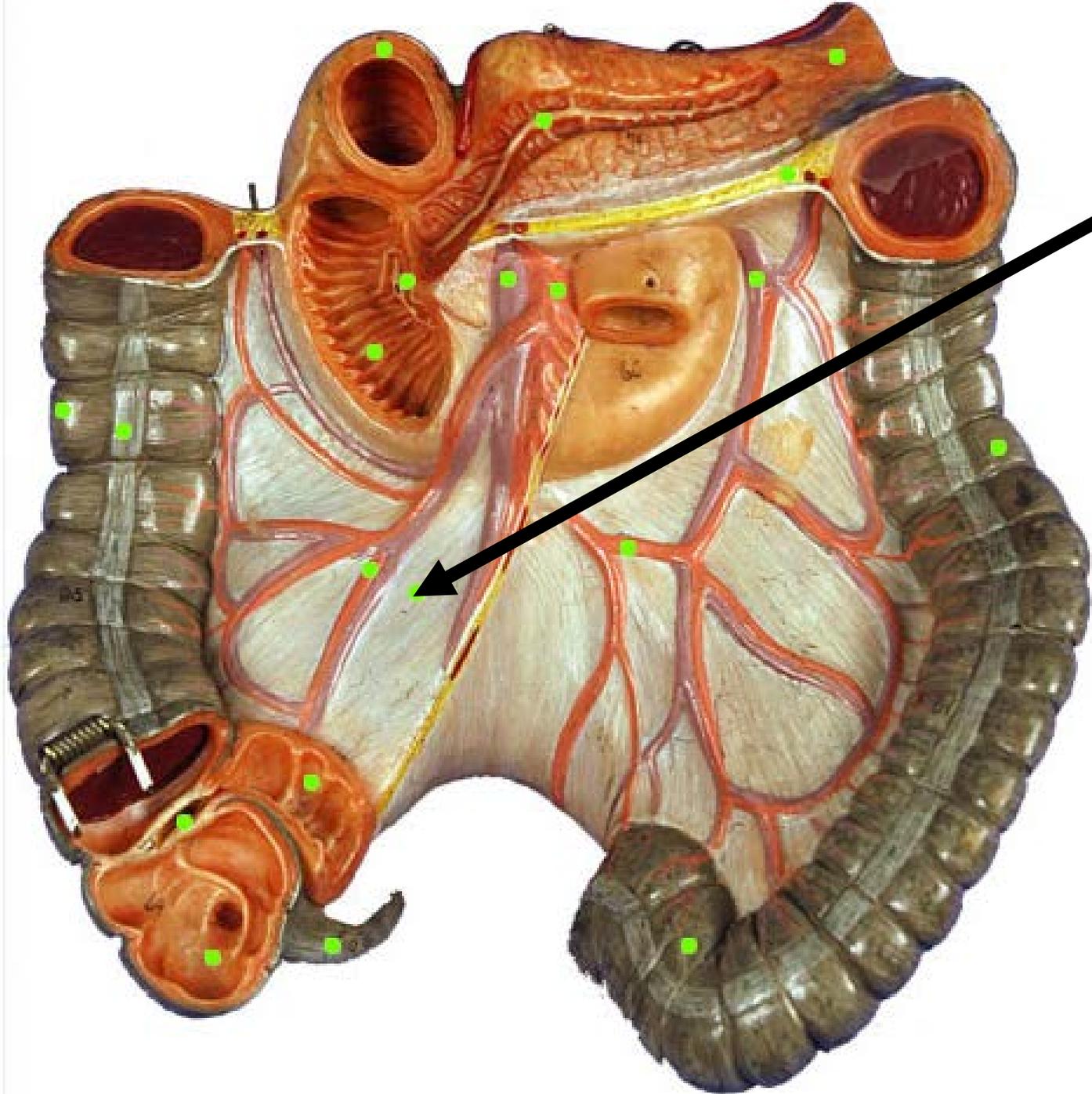
# Cardiac Sphincter



The function of the cardiac sphincter is to act as a valve that contracts to prevent acid reflux and relaxes to allow food to pass.

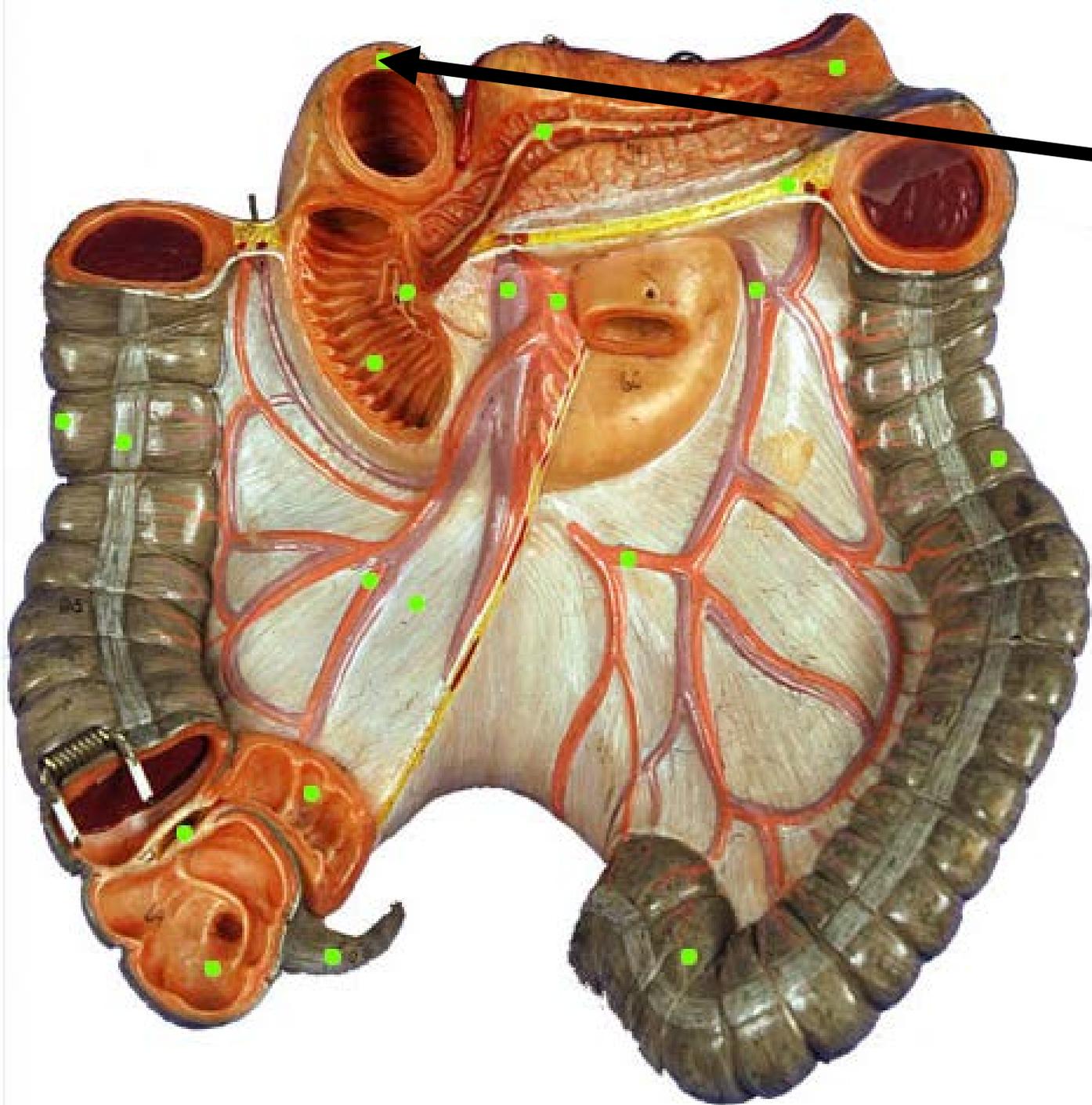


Identify the Structure.

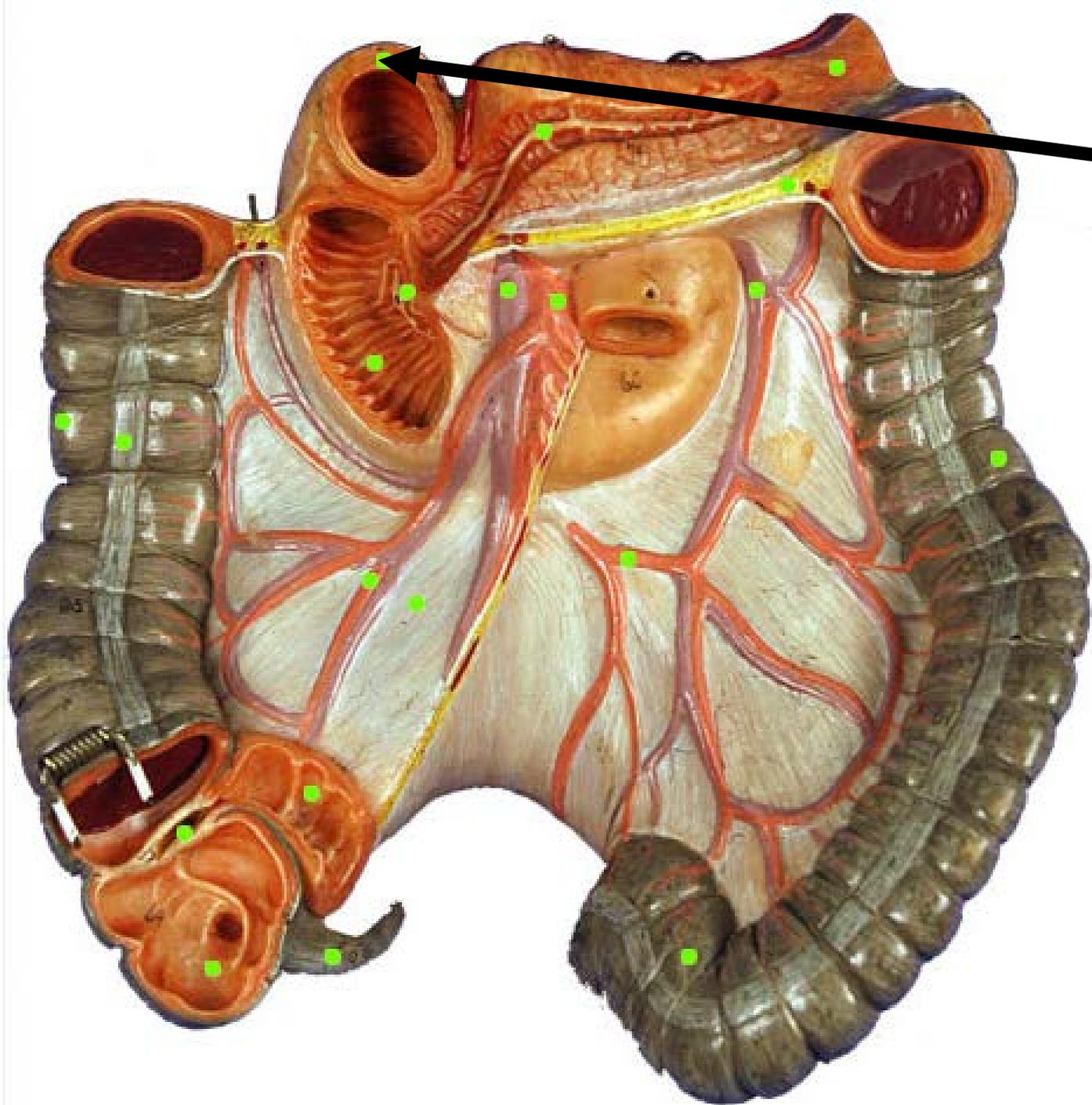


# Mesentery

Attaches the small intestine to the abdominal wall and covers visceral organs.

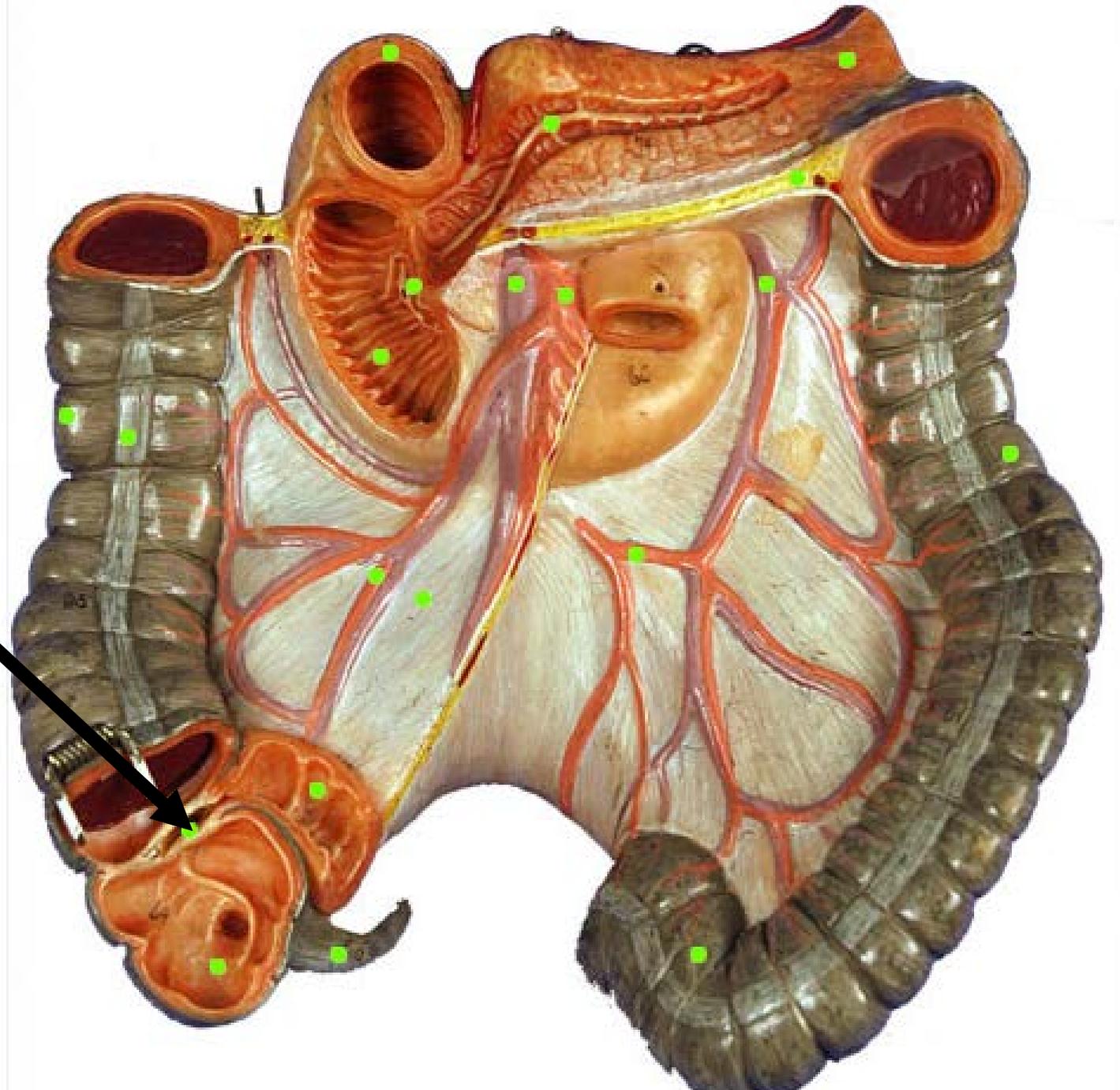
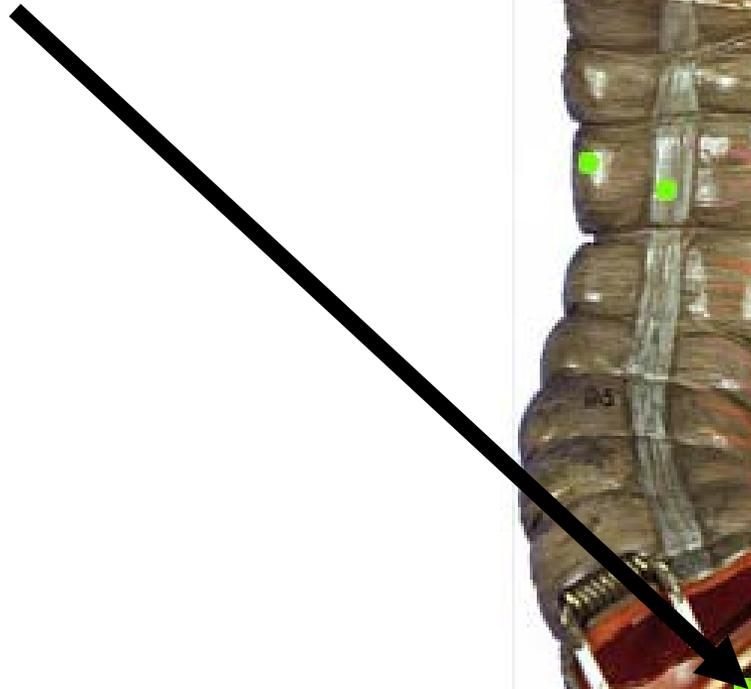


Identify the Structure (be specific).



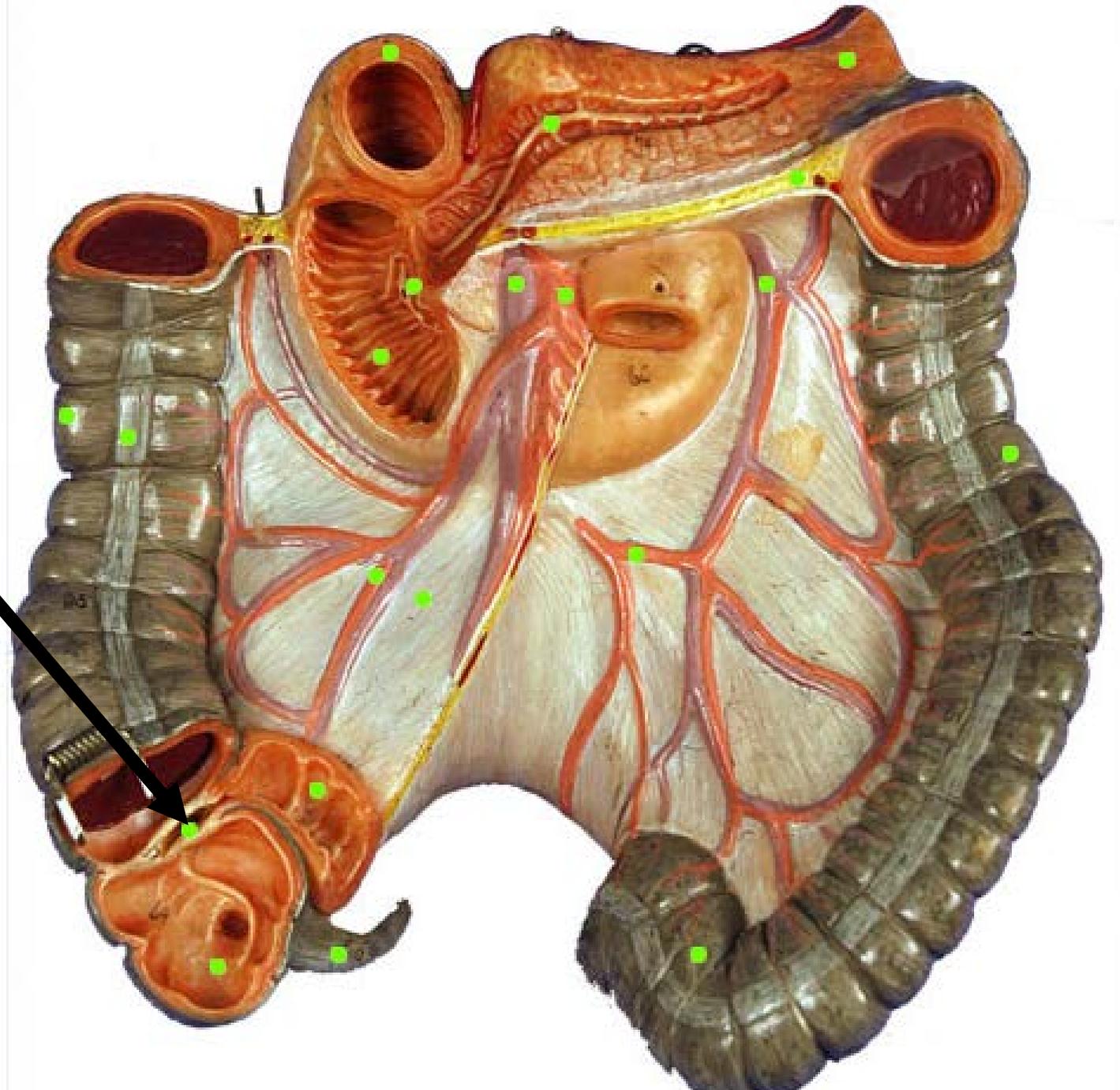
Pyloric Valve

Identify the Structure.

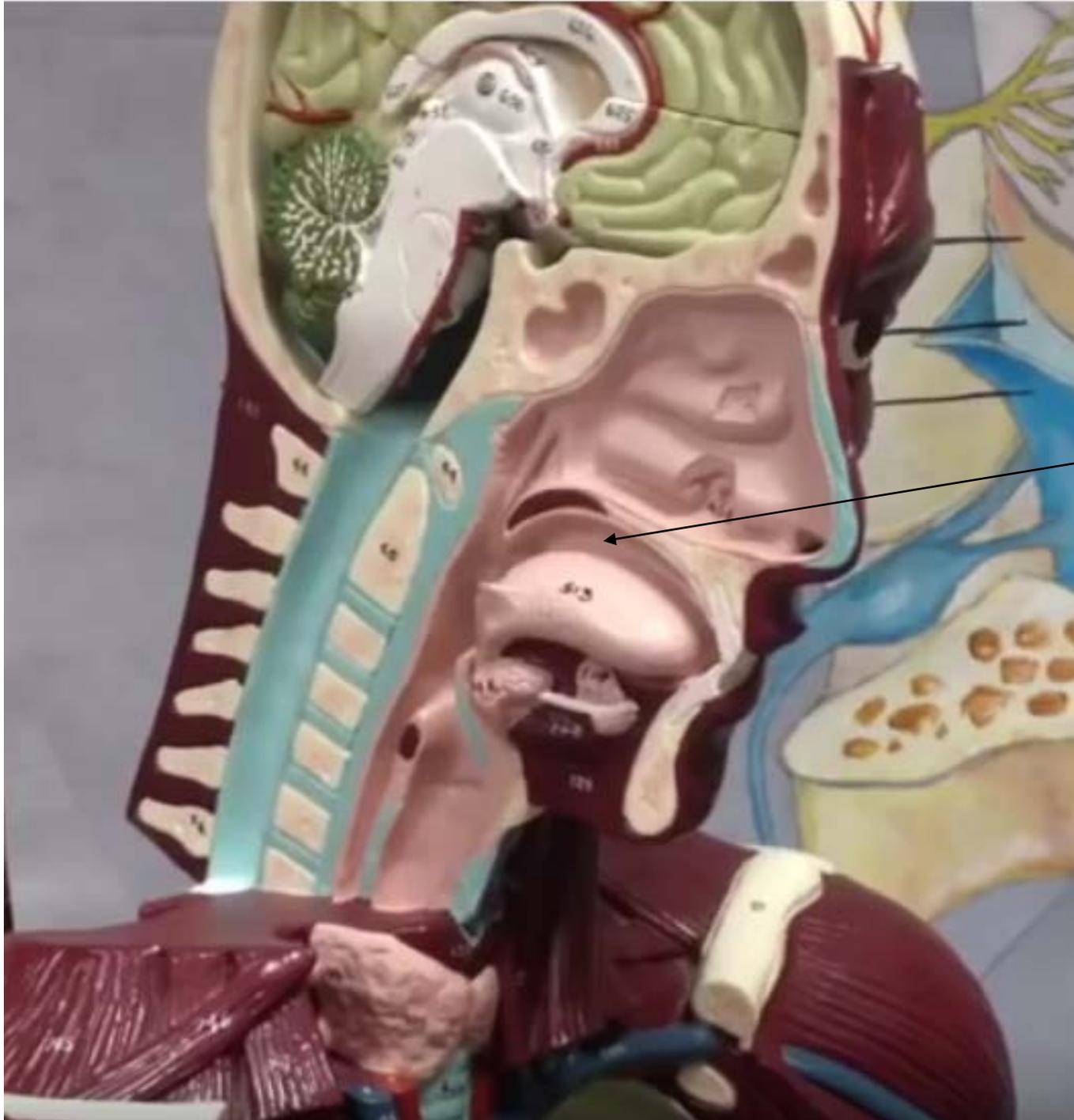


# Ileocecal Valve

**The ileocecal valve functions to prevent substances flowing back into the ileum once they have reached the cecum.**

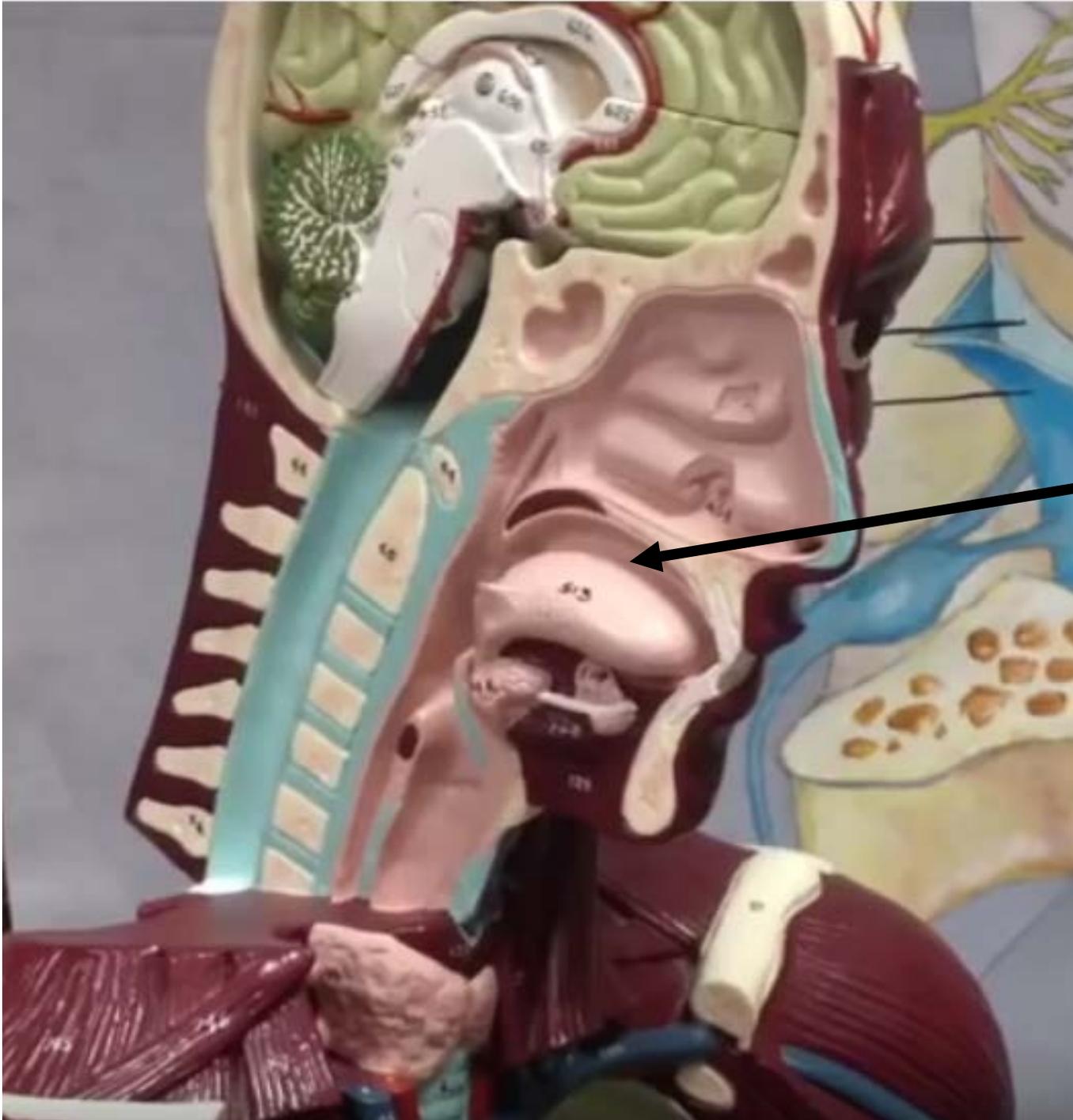


Identify the  
Structure and  
Function.

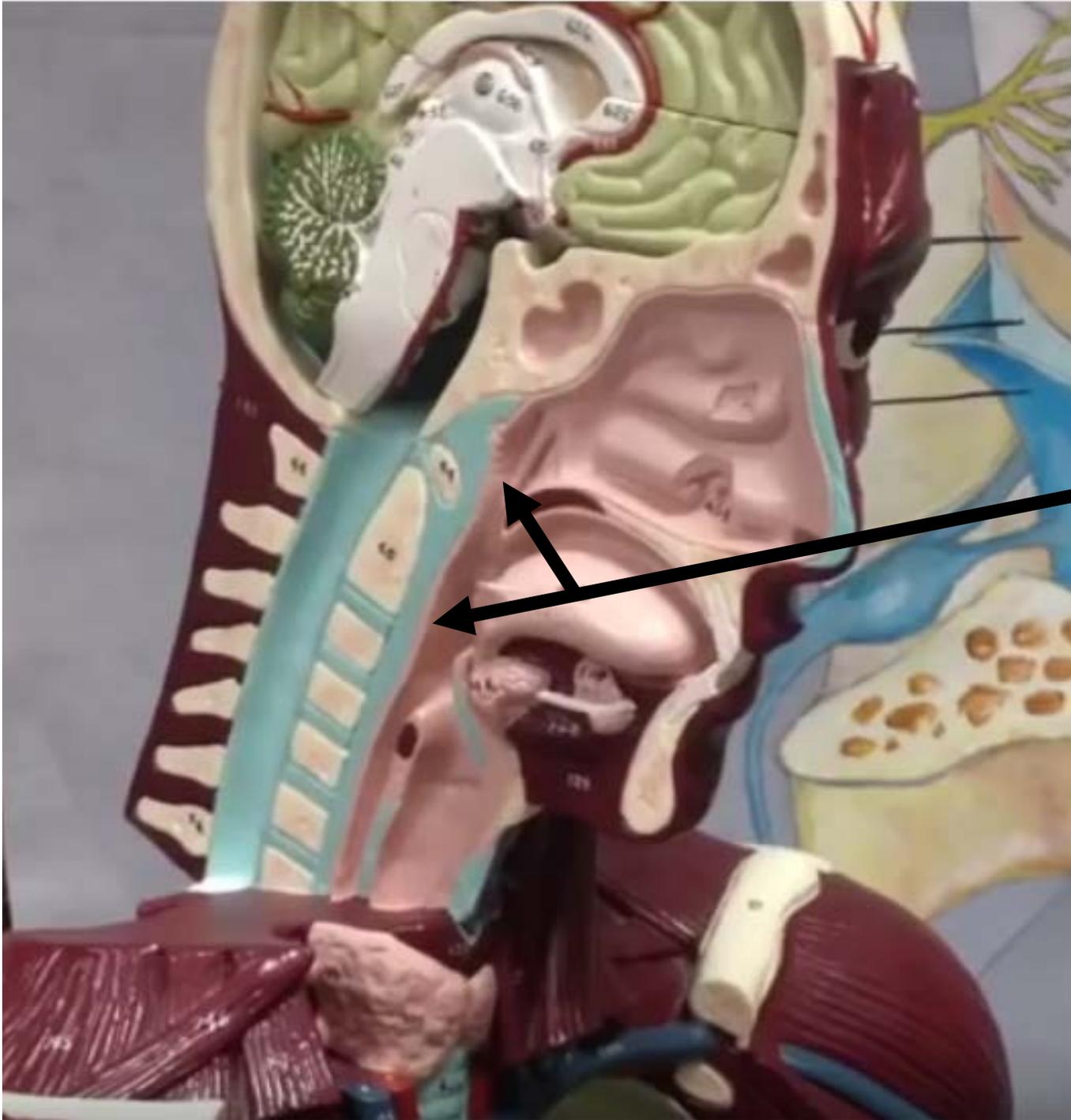


# Oral Cavity

The mouth functions to take in food and to contain structures needed for mastication (chewing).



Identify the General Structure and Function.

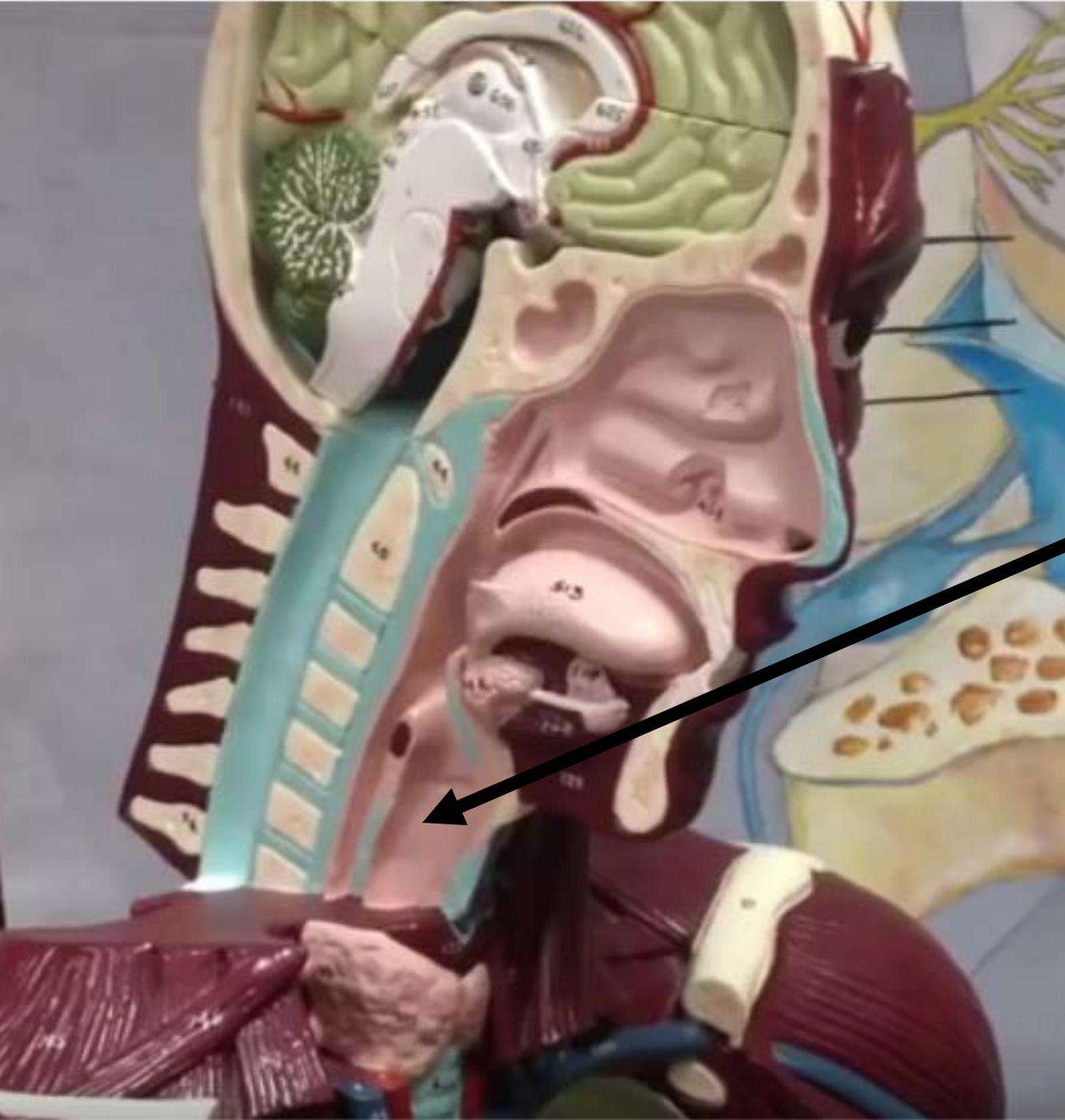


# Pharynx (throat)



- The function of the **pharynx** is to
1. Transfer food from the mouth to the esophagus
  2. Warm, moisten and filter air before it moves into the trachea

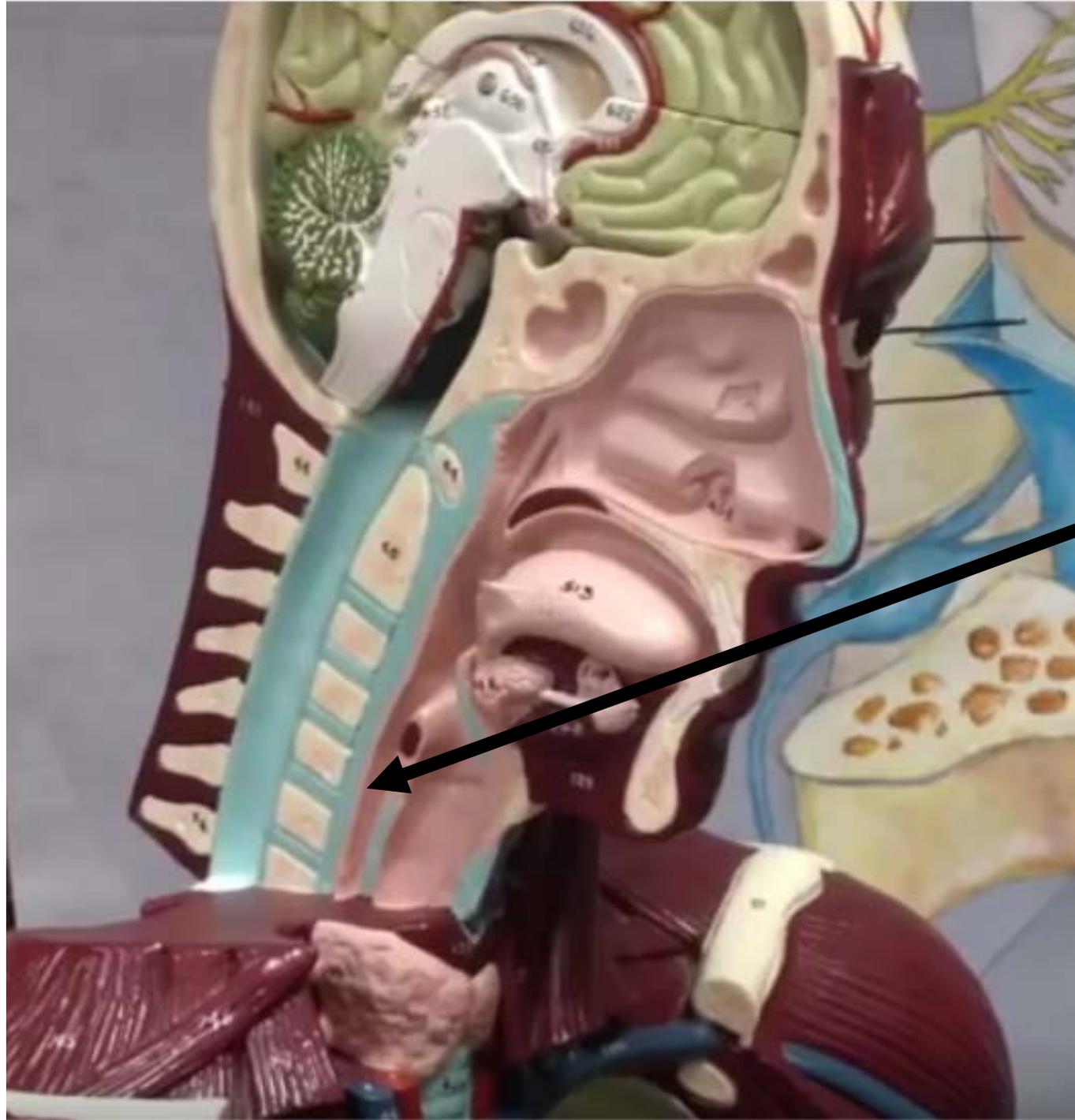
Identify the Structure.



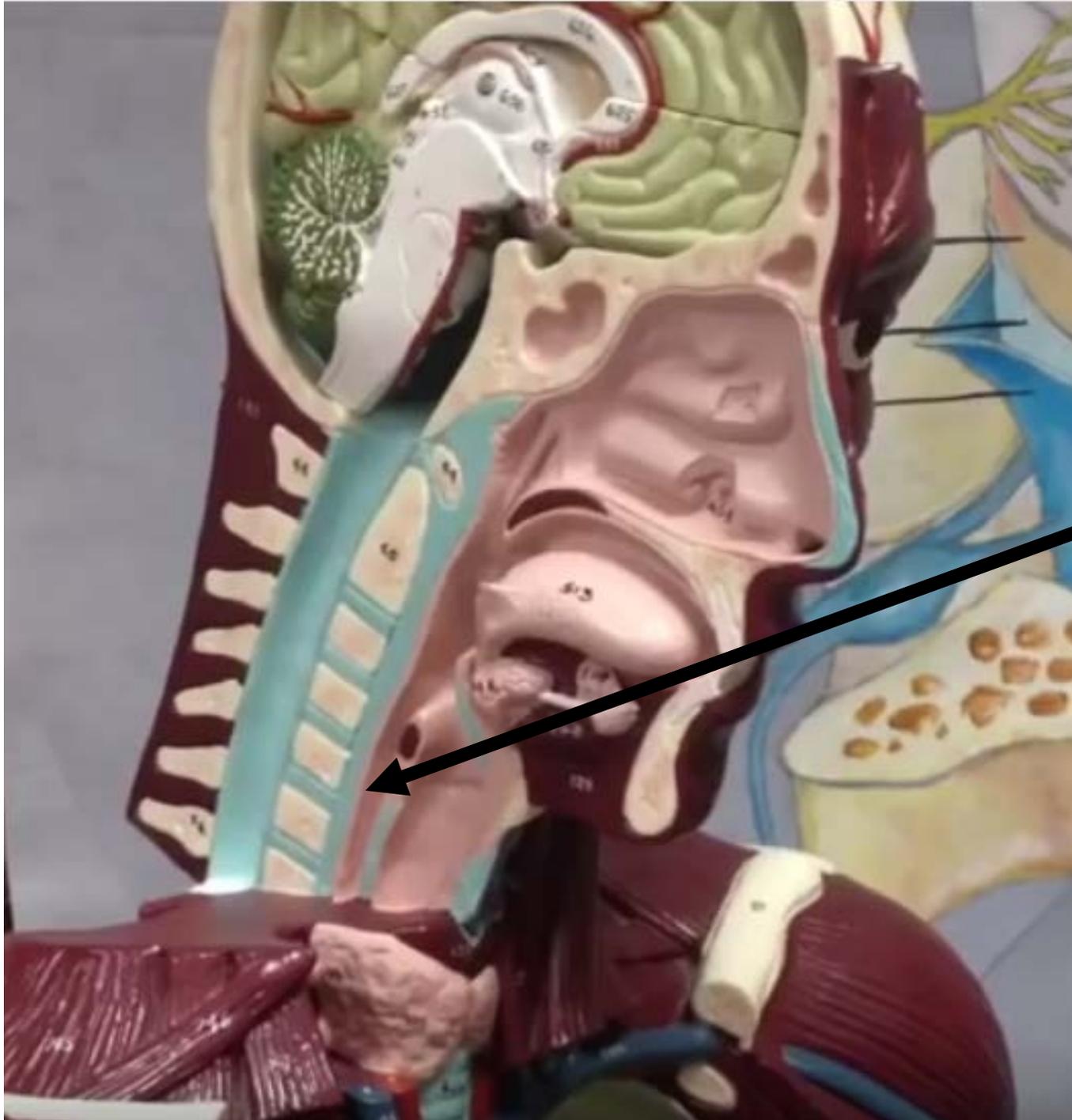
Trachea  
(wind pipe)



Identify the Structure.

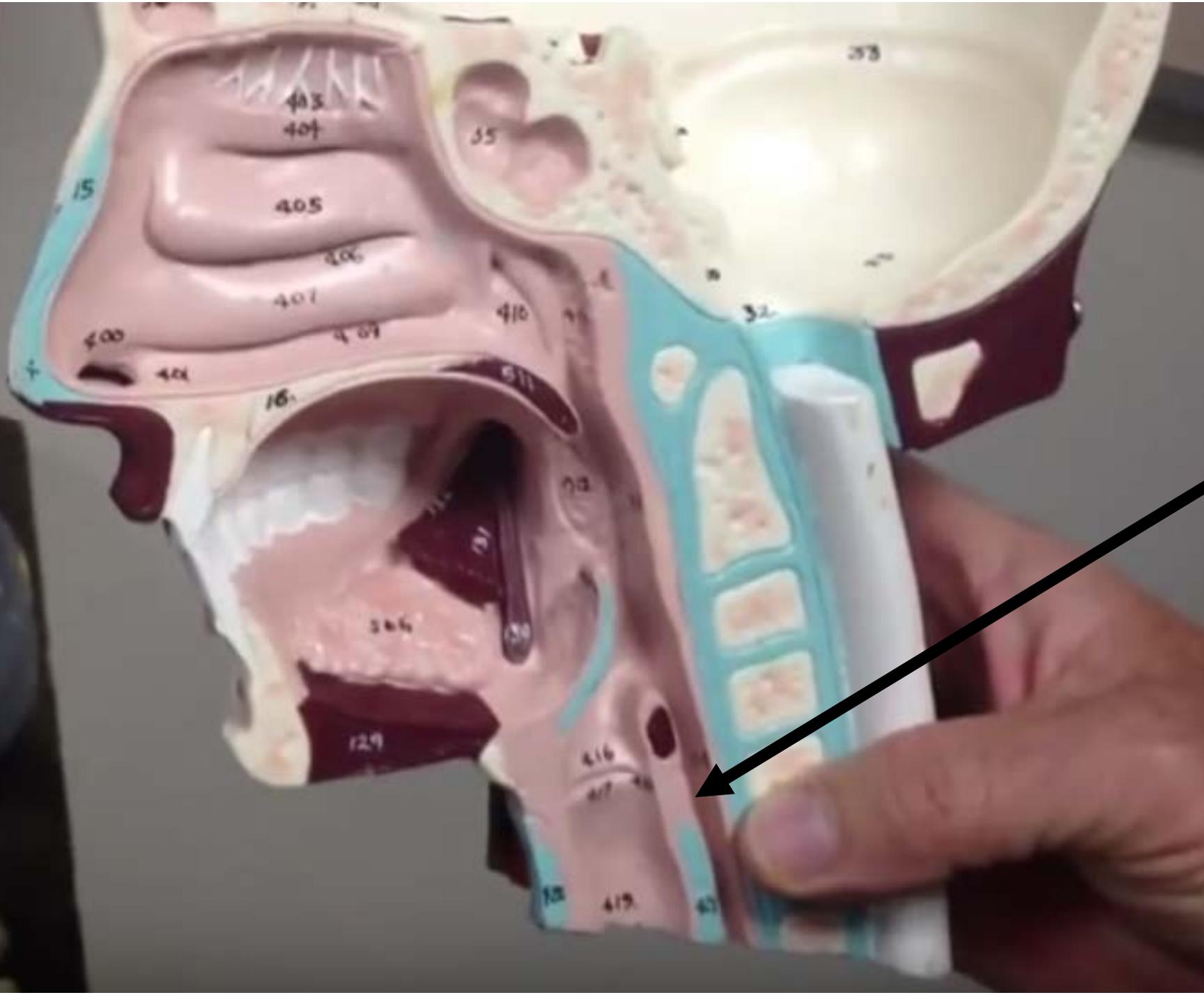


# Esophagus



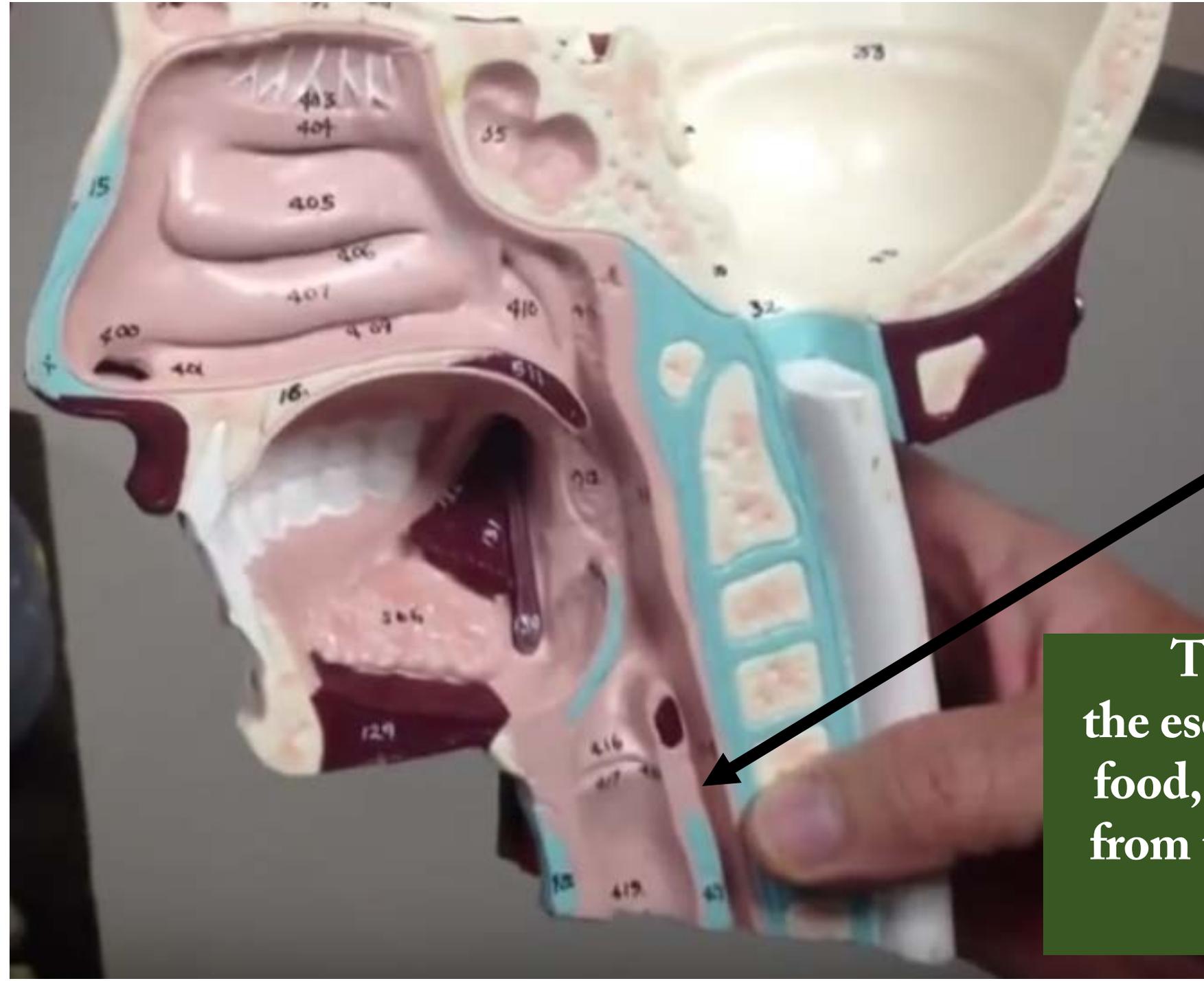
The function of the esophagus is to carry food, liquids, and saliva from the pharynx to the stomach.

Identify the Structure.

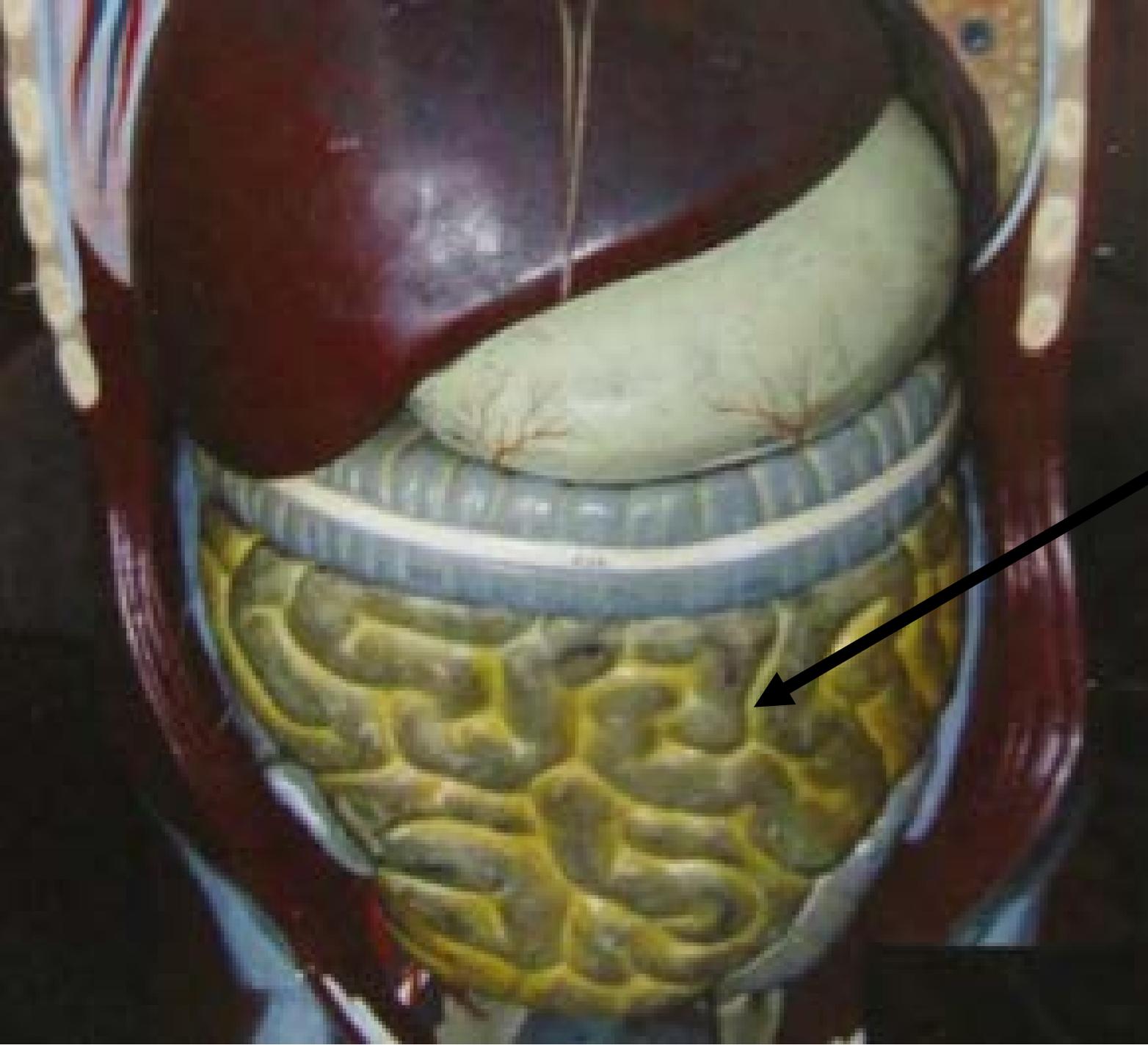


# Esophagus

The function of the esophagus is to carry food, liquids, and saliva from the pharynx to the stomach.



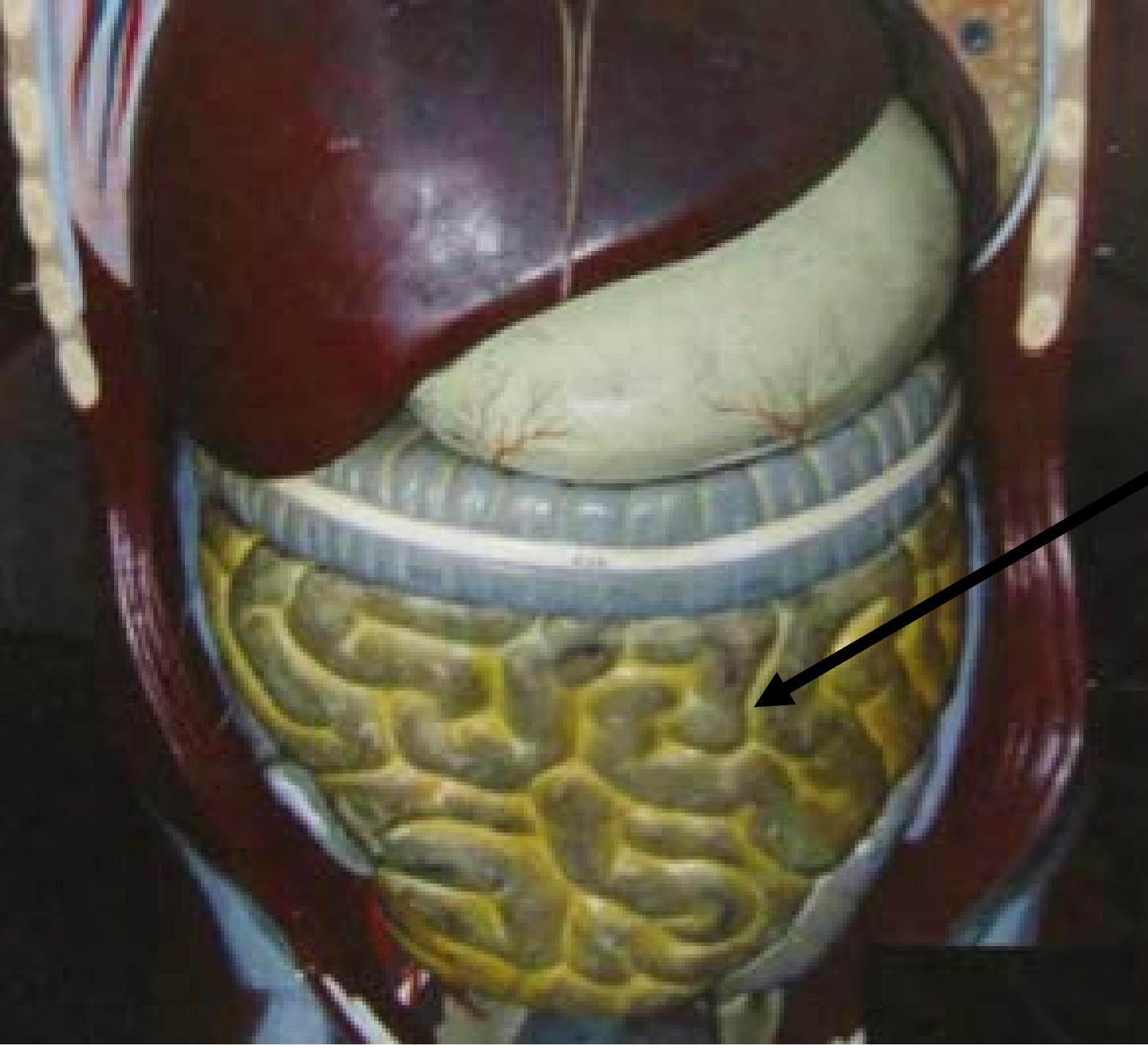
Identify the  
Structure and  
Function.

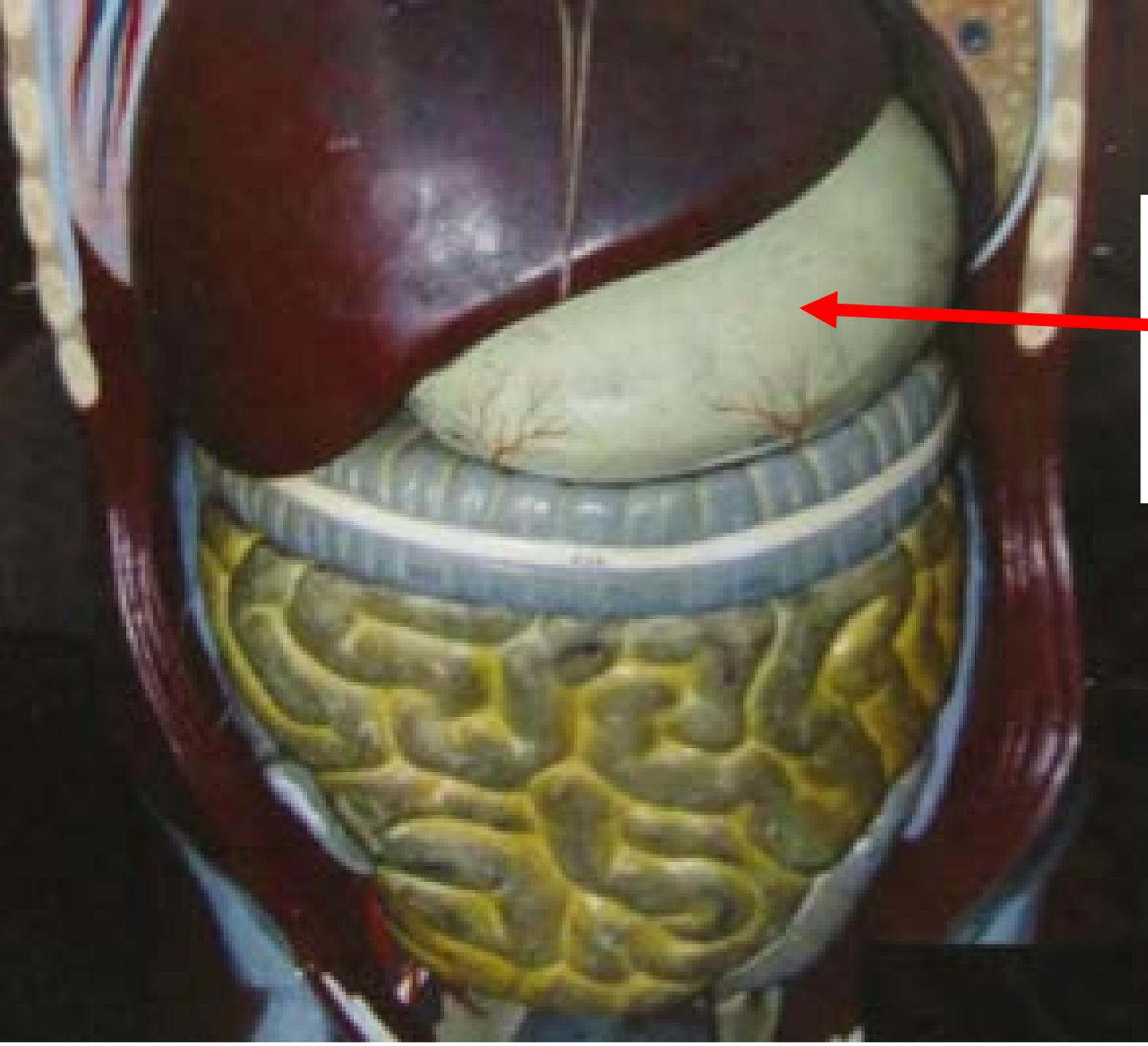


# Small Intestines (Jejunum)

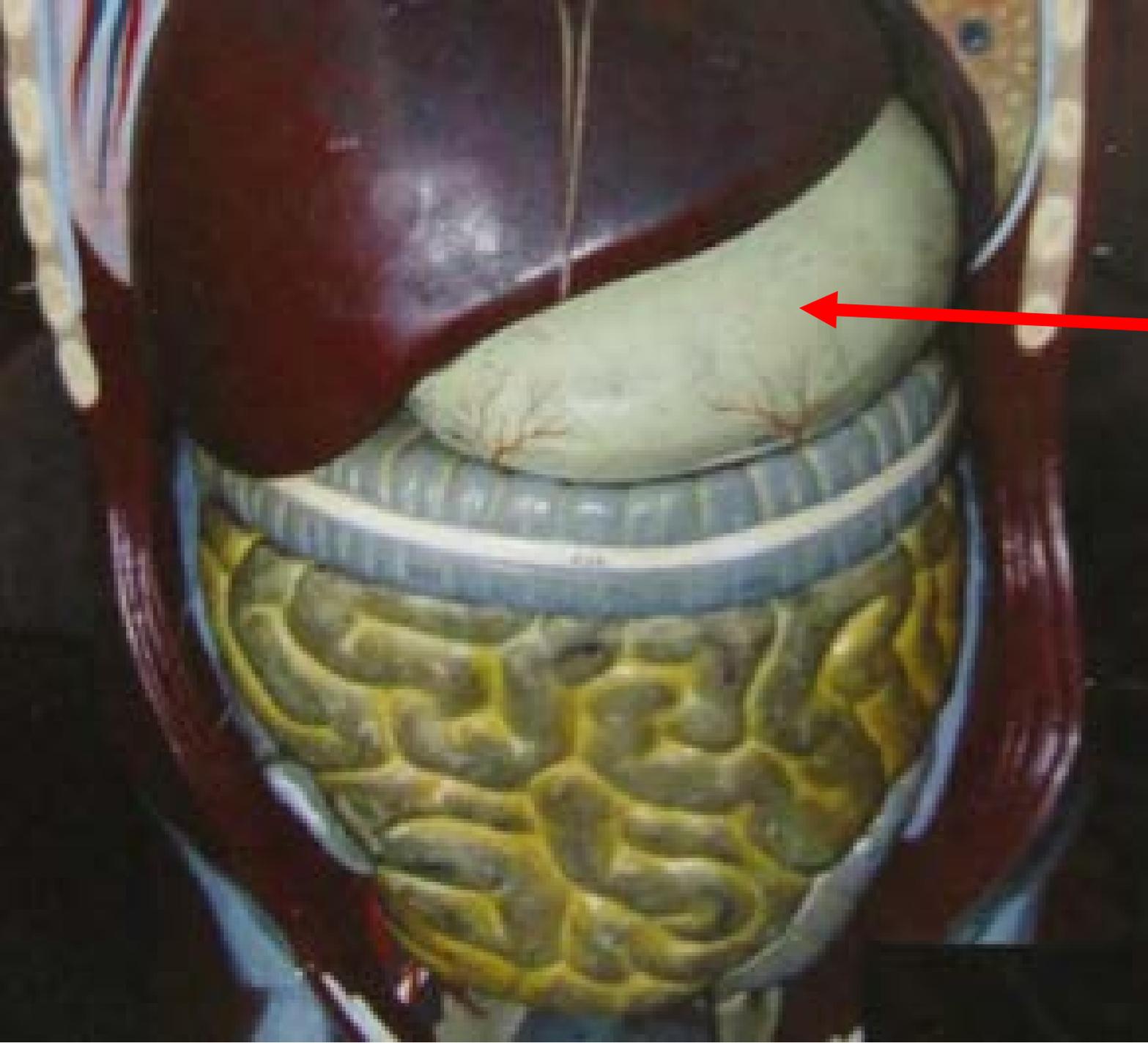
Digestion and absorption of nutrients.

*The **small intestine** is the part of the **intestine is** where 90% of the digestion and absorption of food occurs.*



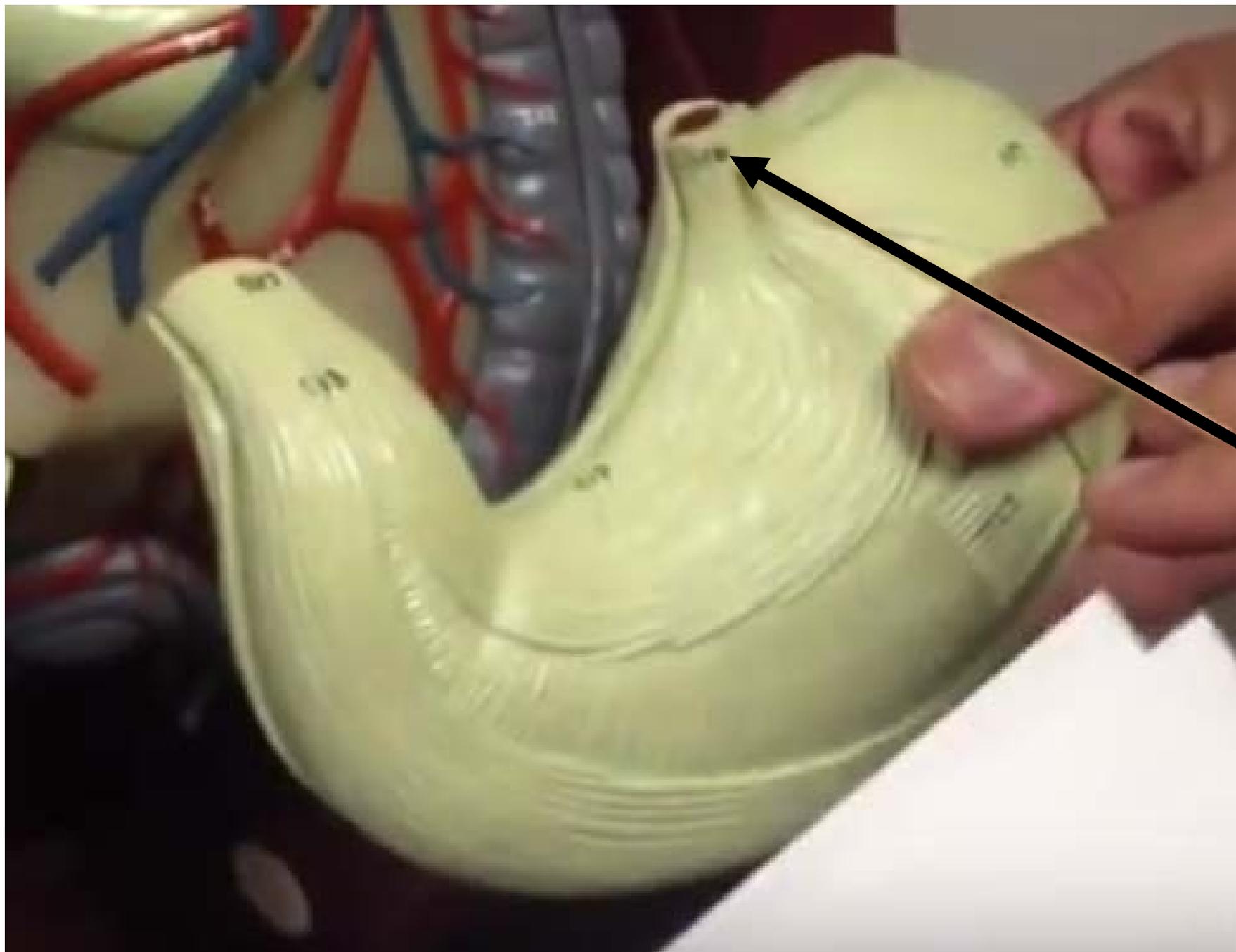


Identify the  
Structure.

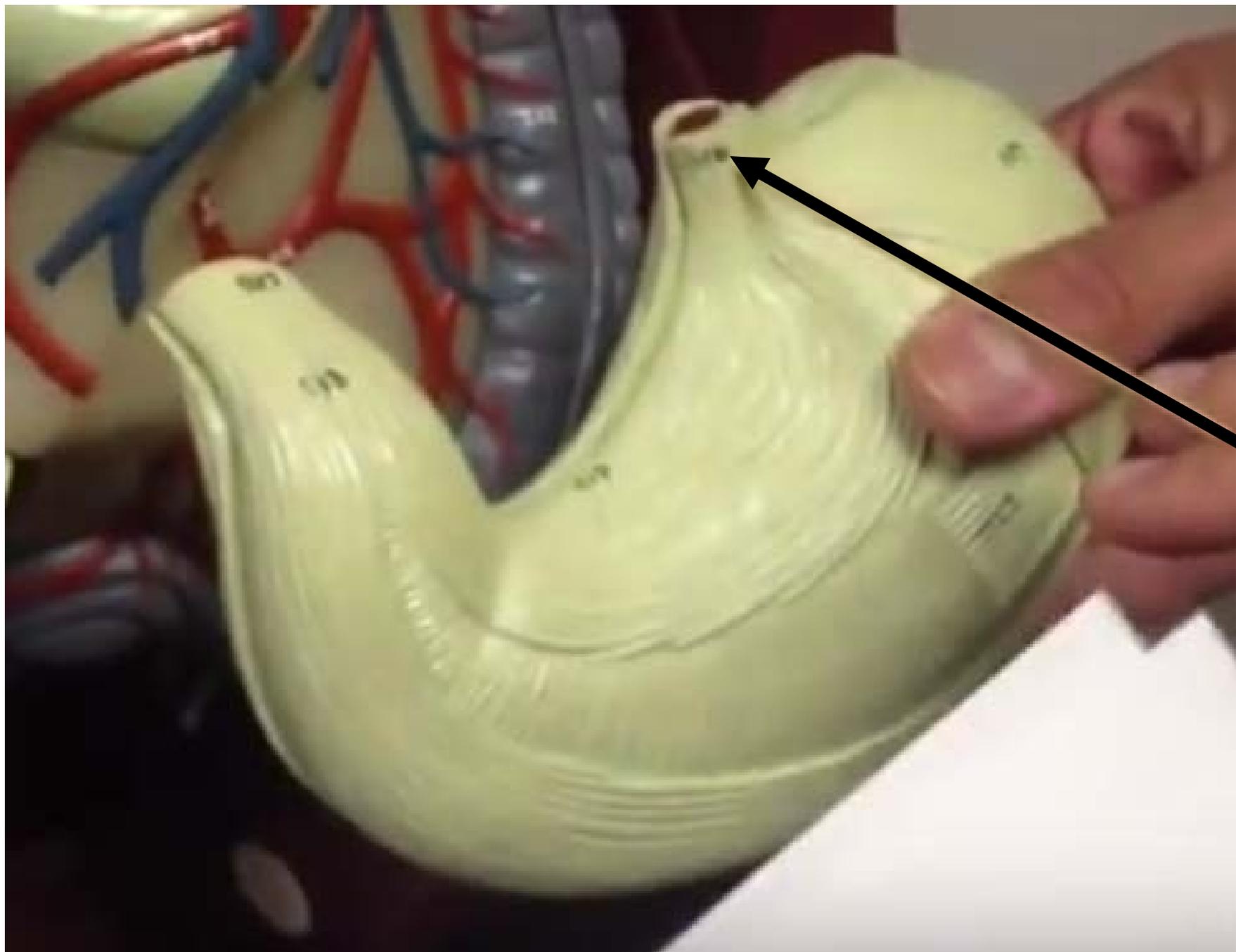


**Stomach**

Storage,  
Churning  
and Secretes  
Enzymes.

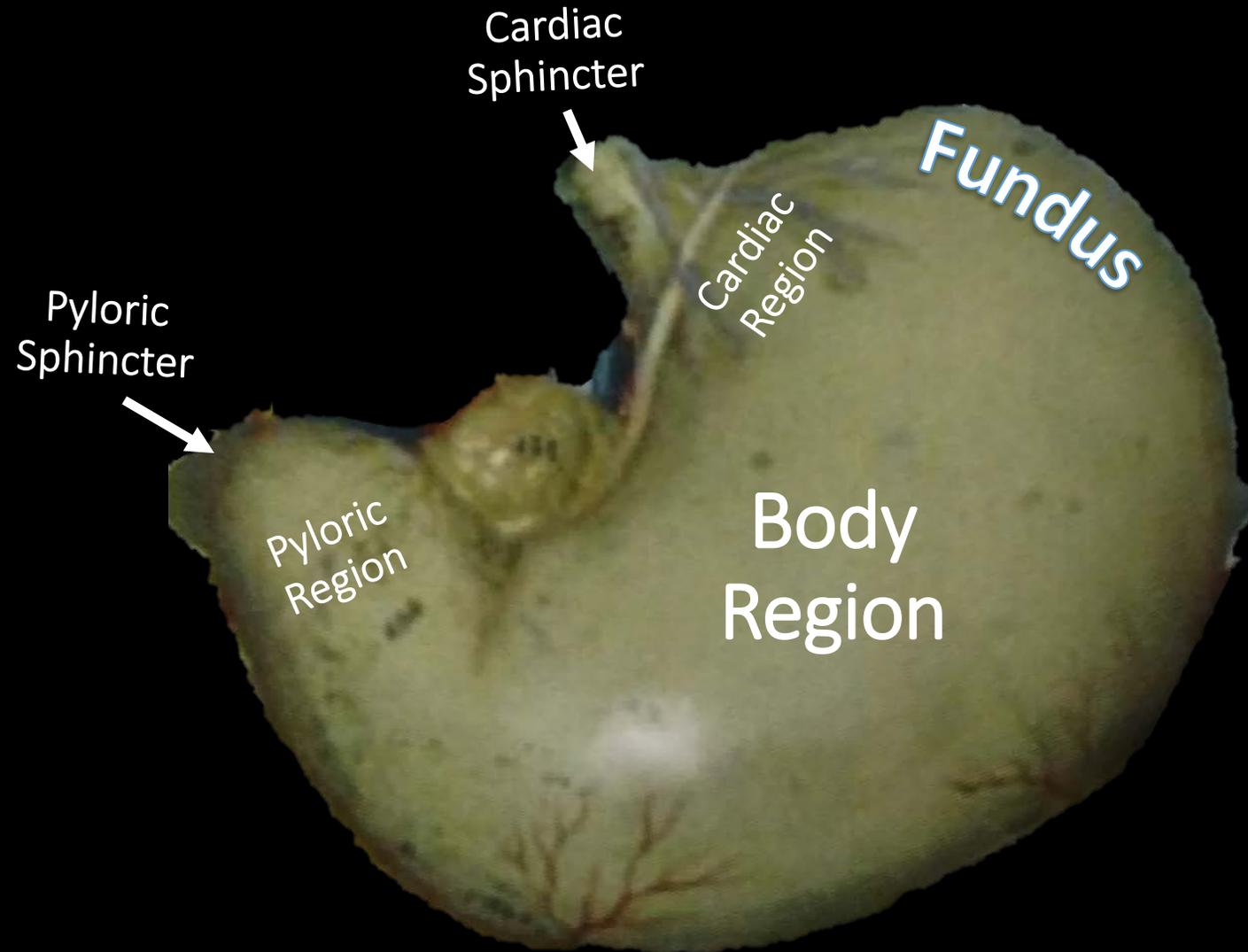


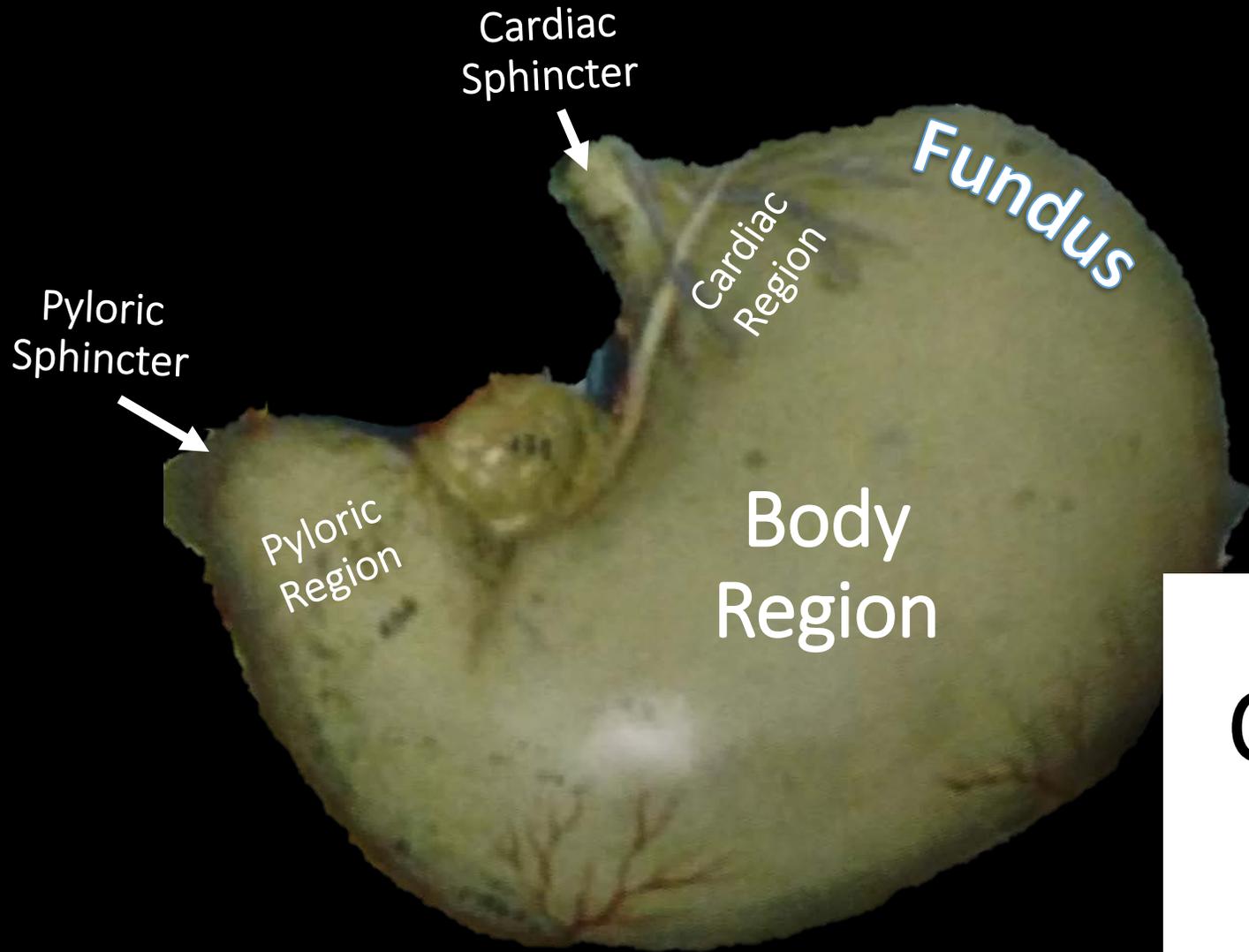
Identify the  
Structure.



**Cardiac  
Region**

# What is the FUNCTION of the stomach?





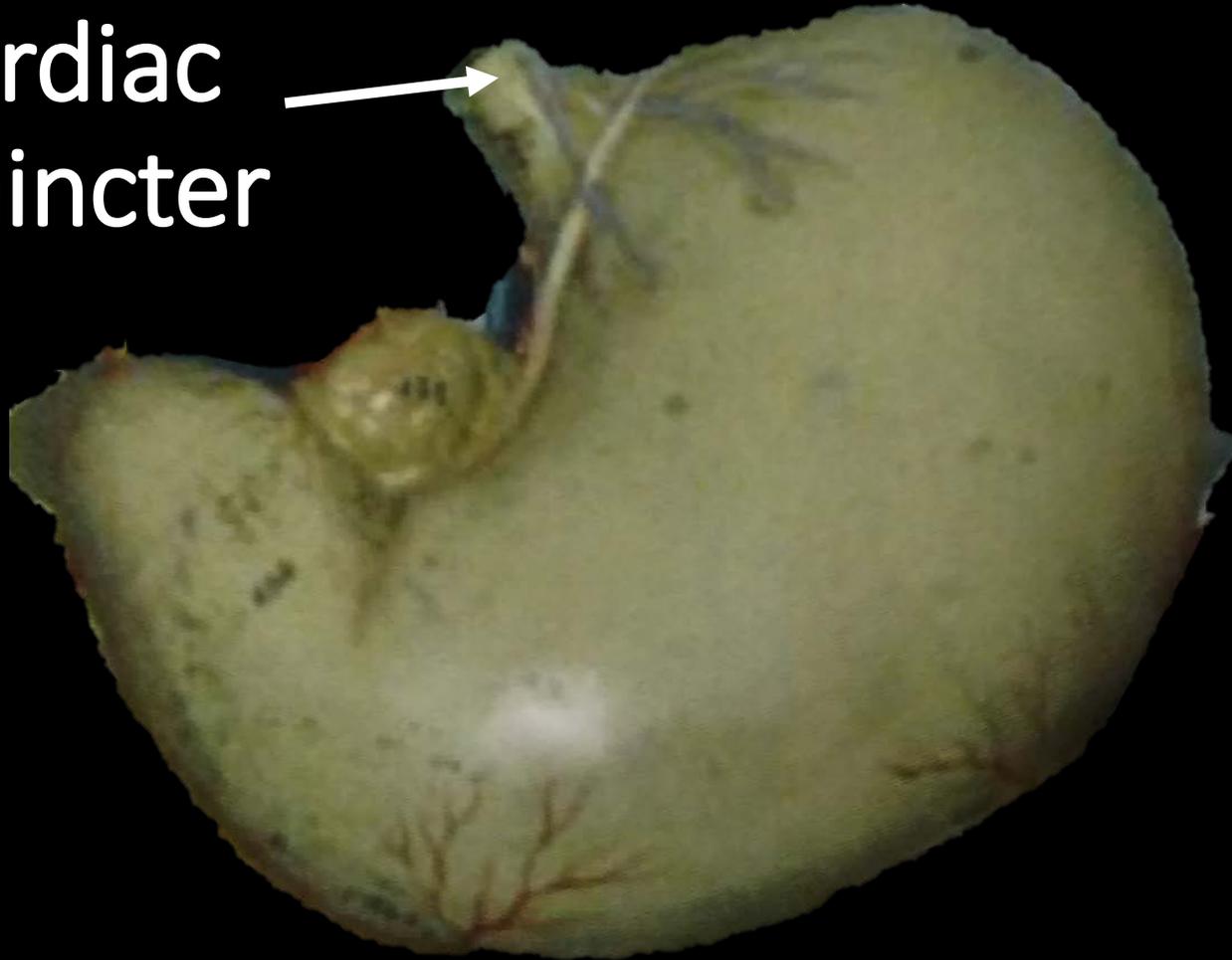
**Storage,  
Churning and  
Secretes  
Enzymes.**

Identify the Structure and Function.



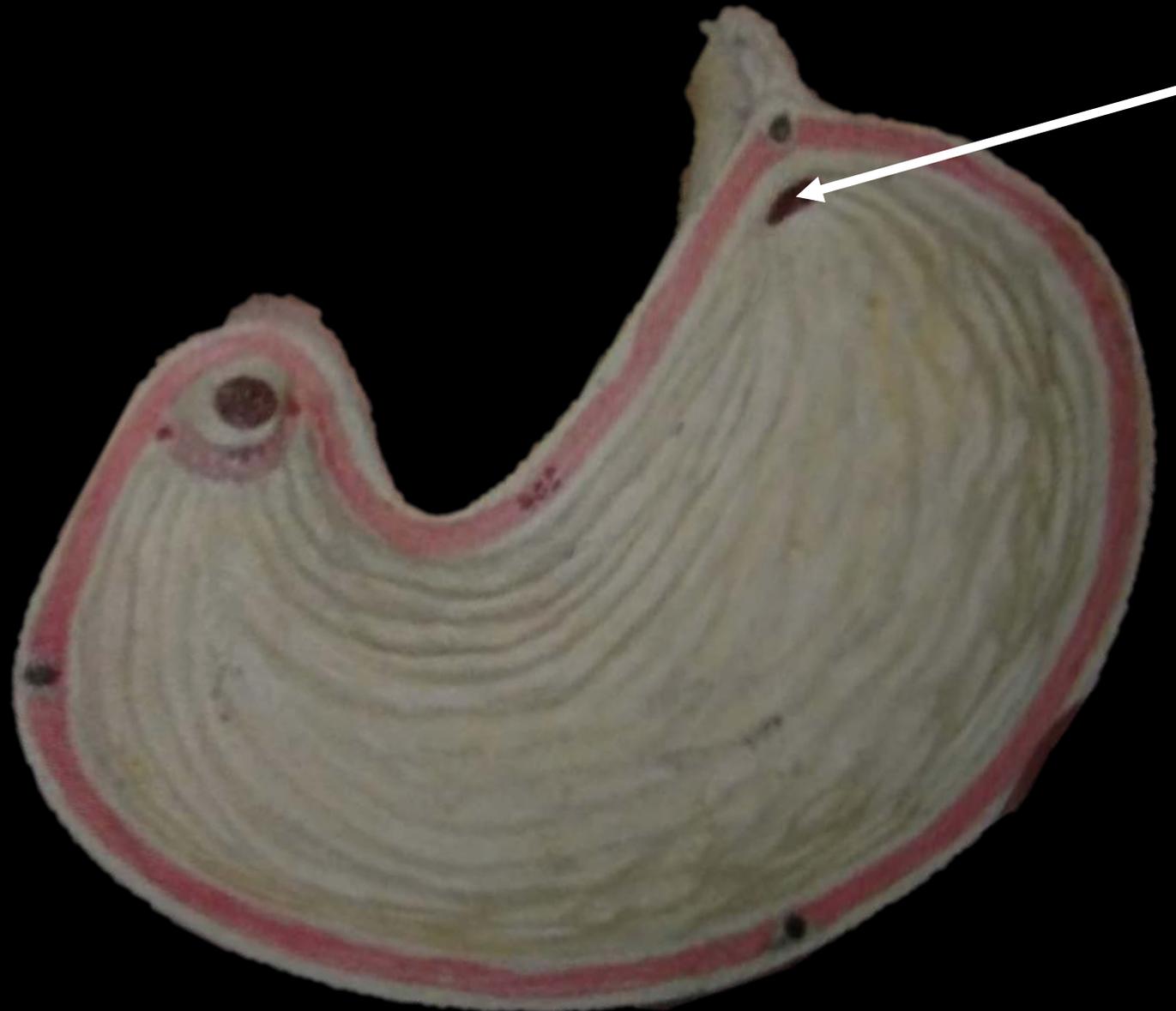
# Identify the Structure and Function.

Cardiac  
Sphincter



The **cardiac sphincter** prevents the acidic contents of the stomach from moving upward into the esophagus and allows food to pass into stomach when relaxed.

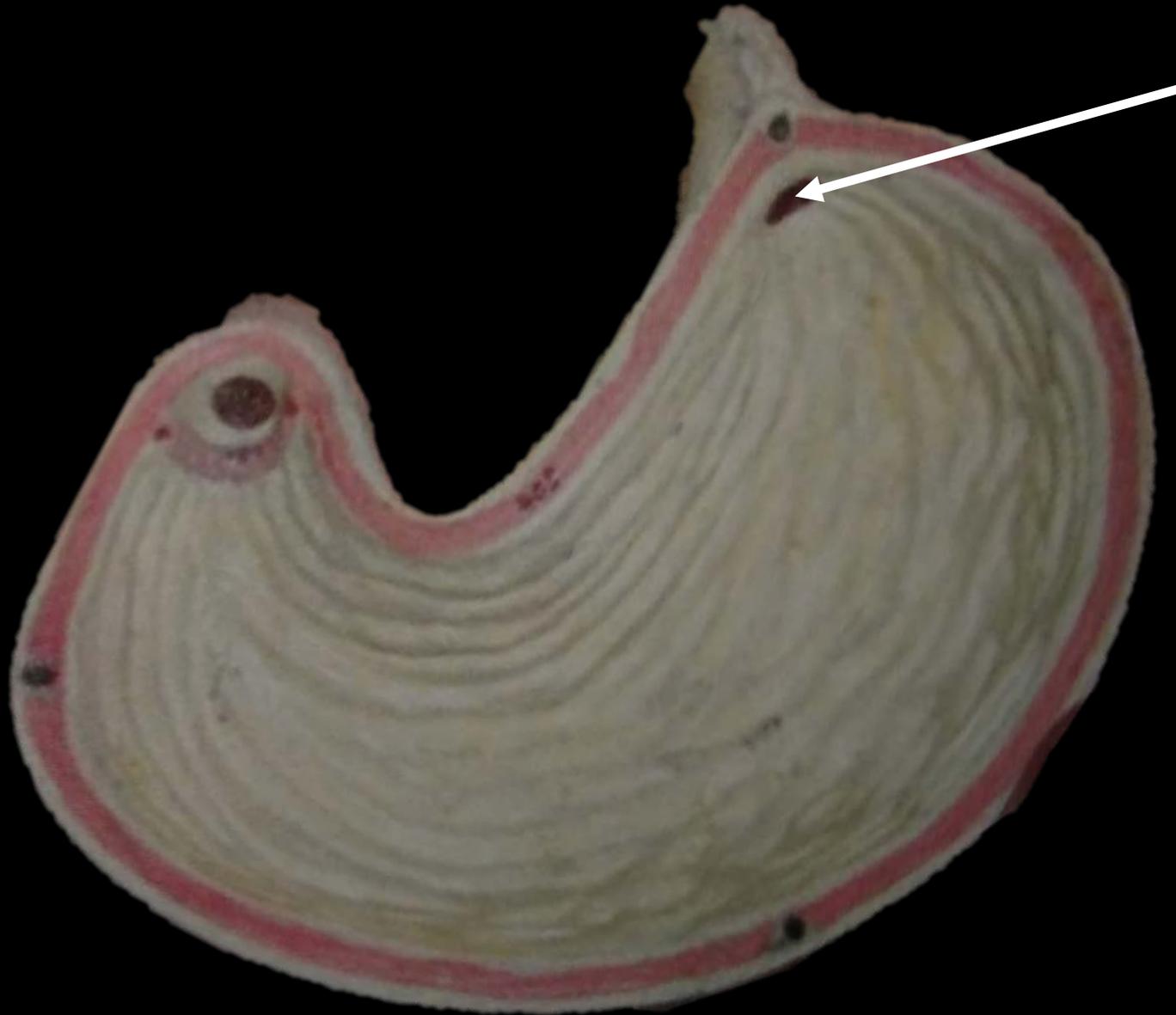
# Anatomy of the Stomach Model



Cardiac  
Sphincter

The cardiac sphincter prevents the acidic contents of the stomach from moving upward into the esophagus and allows food to pass into stomach when relaxed.

Identify the Structure and Function.



Identify the Structure and Function.



# Identify the Structure and Function.

Pyloric  
Sphincter



The pyloric sphincter acts as a valve to control the flow of partially digested food from the stomach to the small intestine.

Identify the Structure and Function.



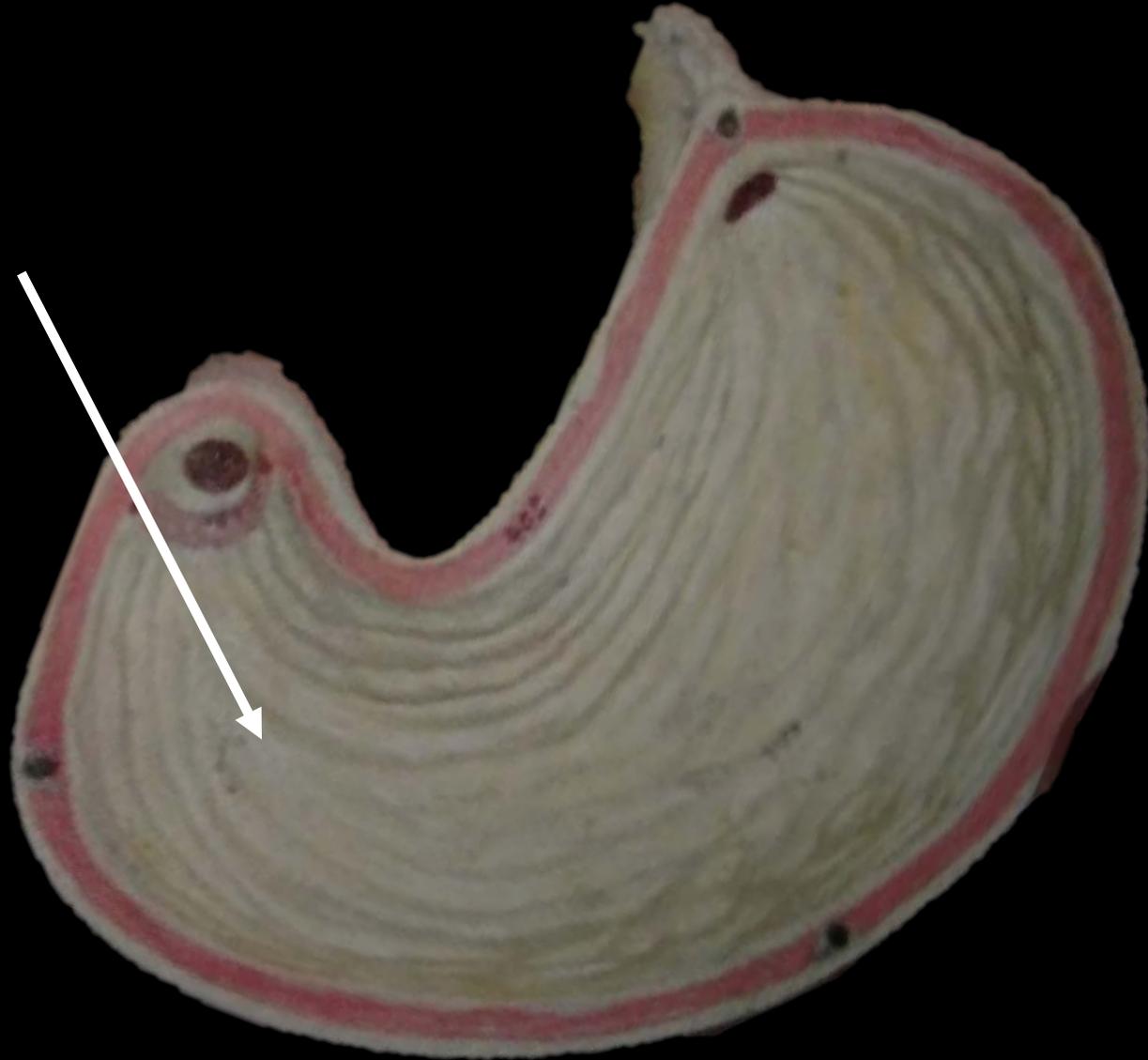
# Identify the Structure and Function.

Pyloric  
Sphincter



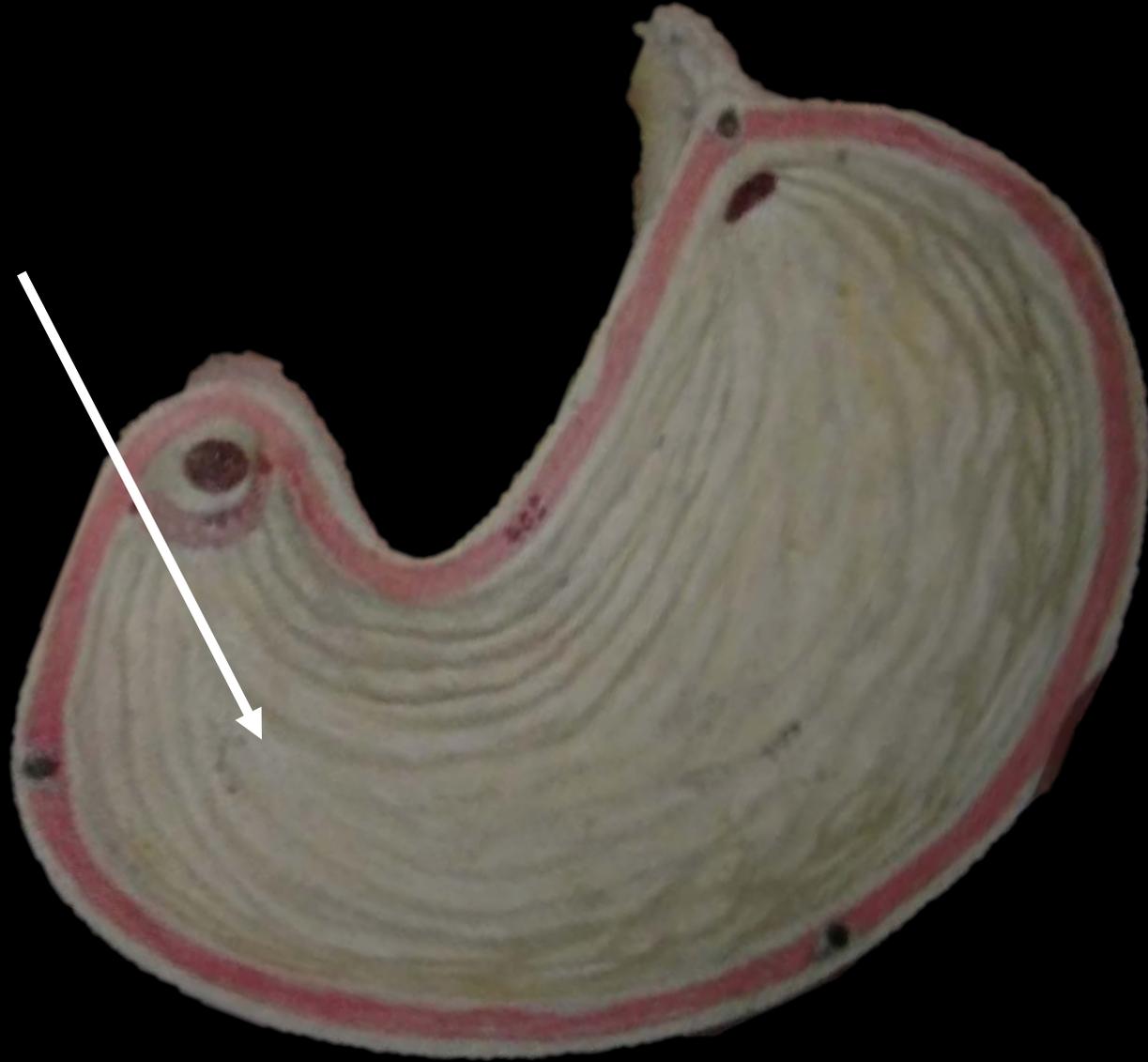
The pyloric sphincter acts as a valve to control the flow of partially digested food from the stomach to the small intestine.

Identify the Structure.

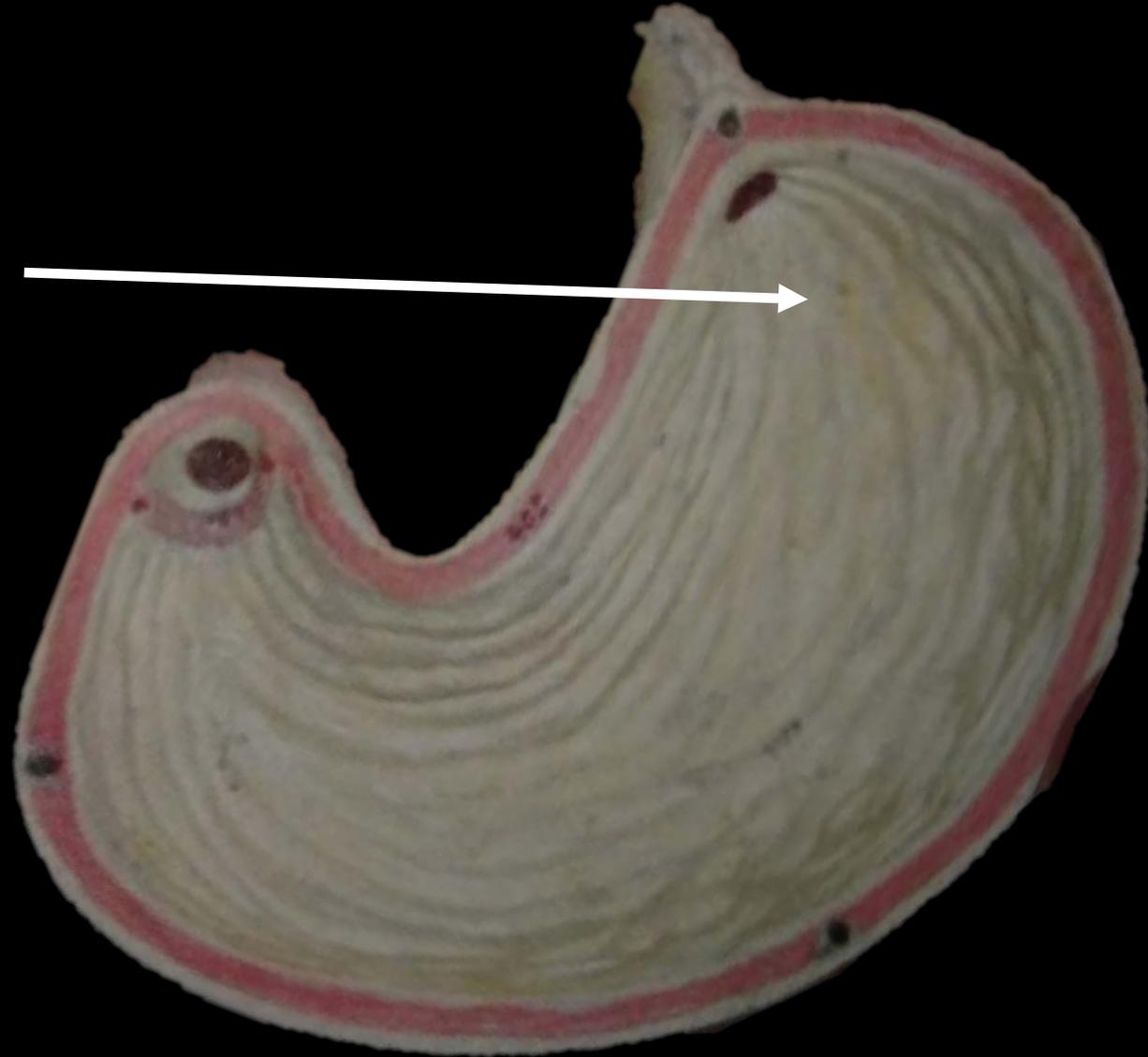


Identify the Structure.

Pyloric  
Region

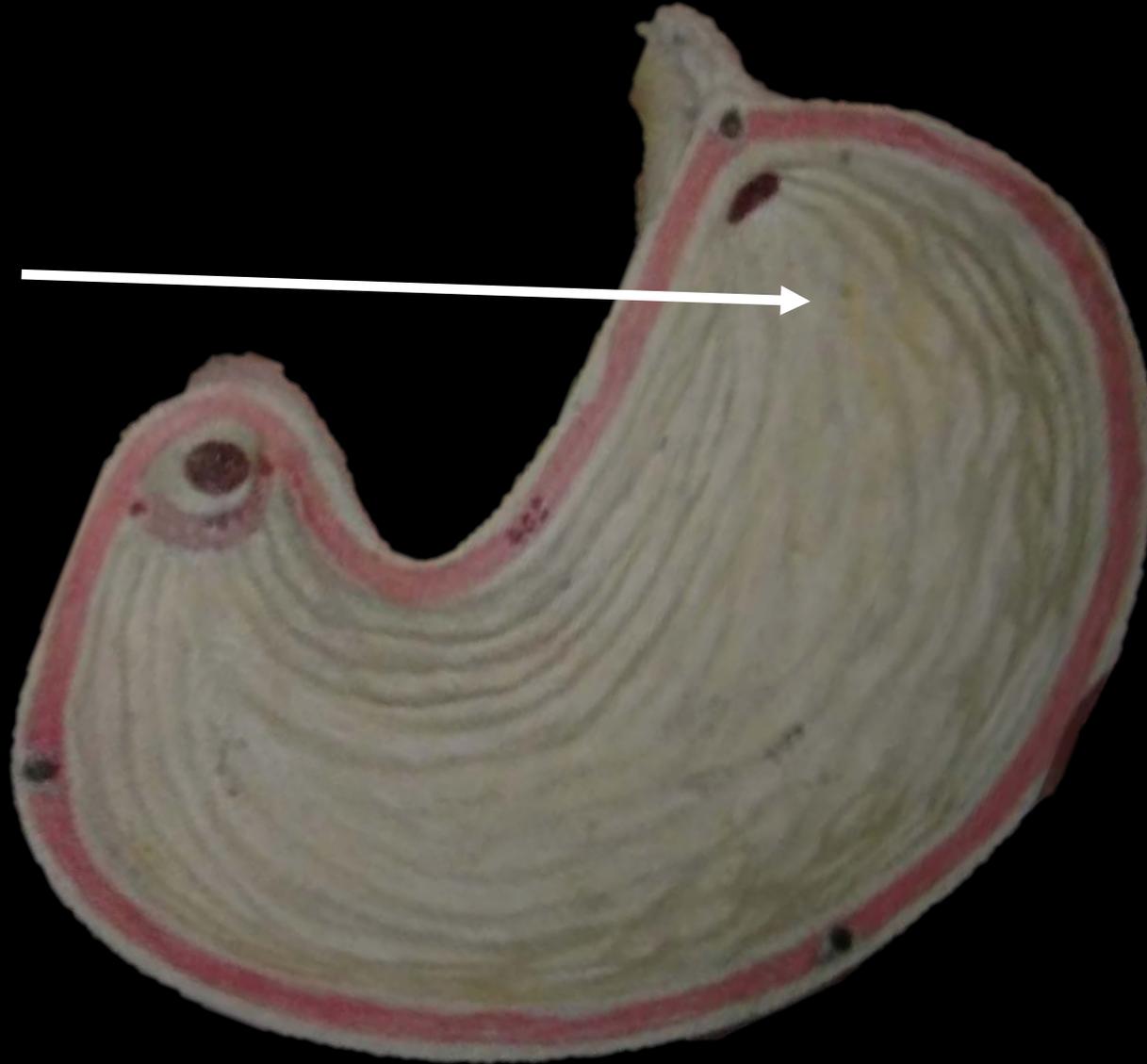


Identify the Structure.

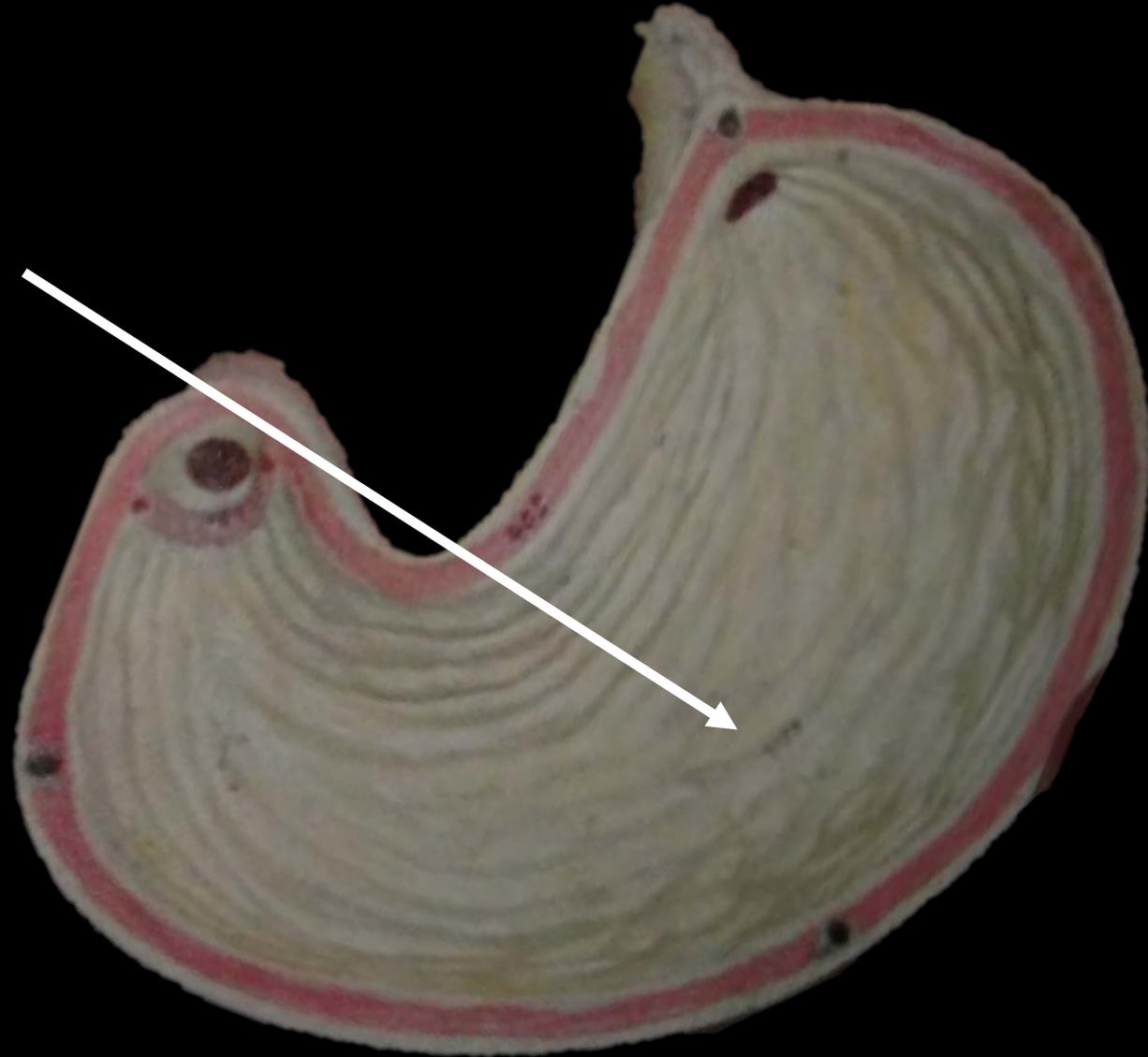


Identify the Structure.

Cardiac  
Region

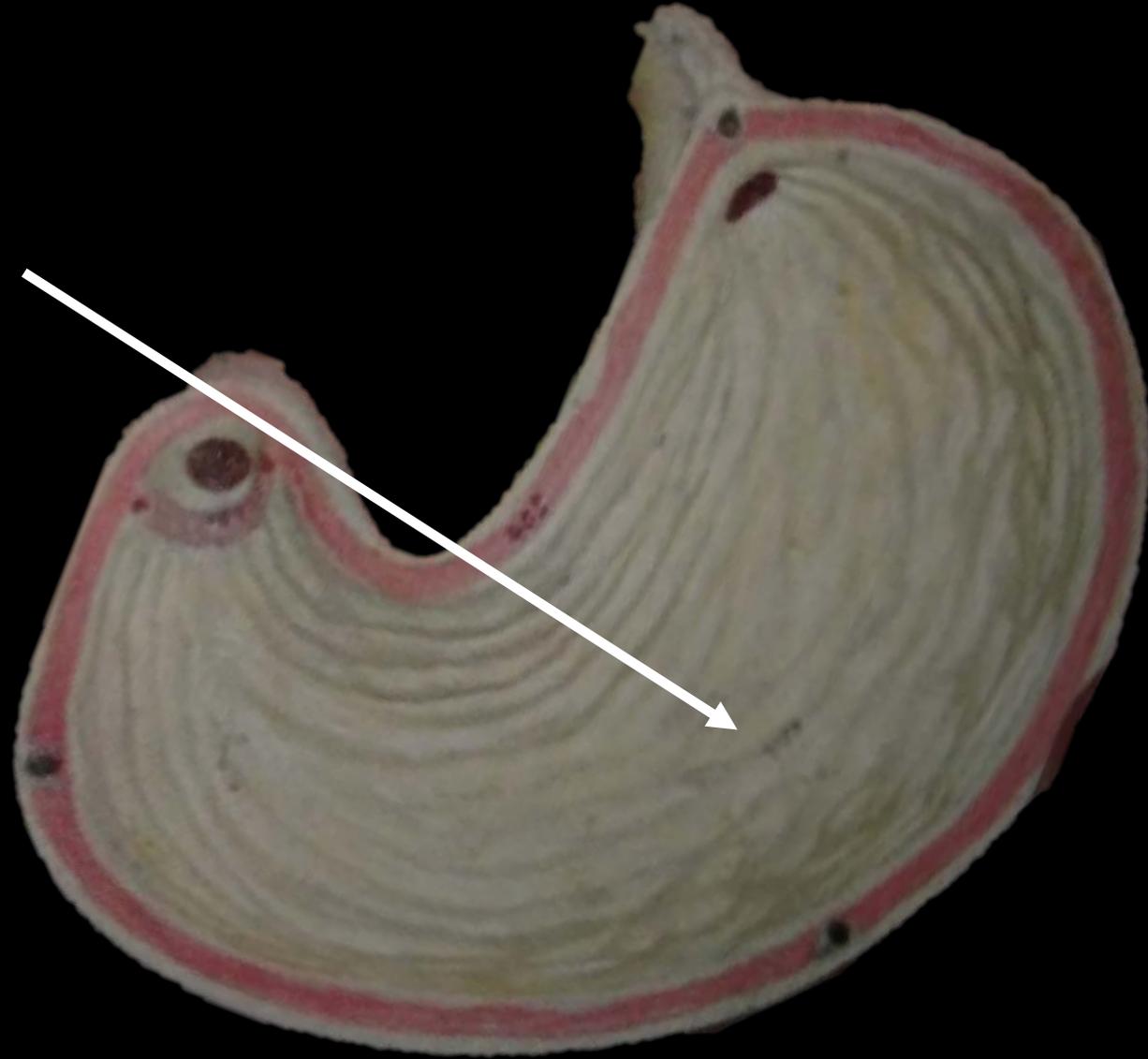


Identify the Structure.



Identify the Structure.

Body  
Region



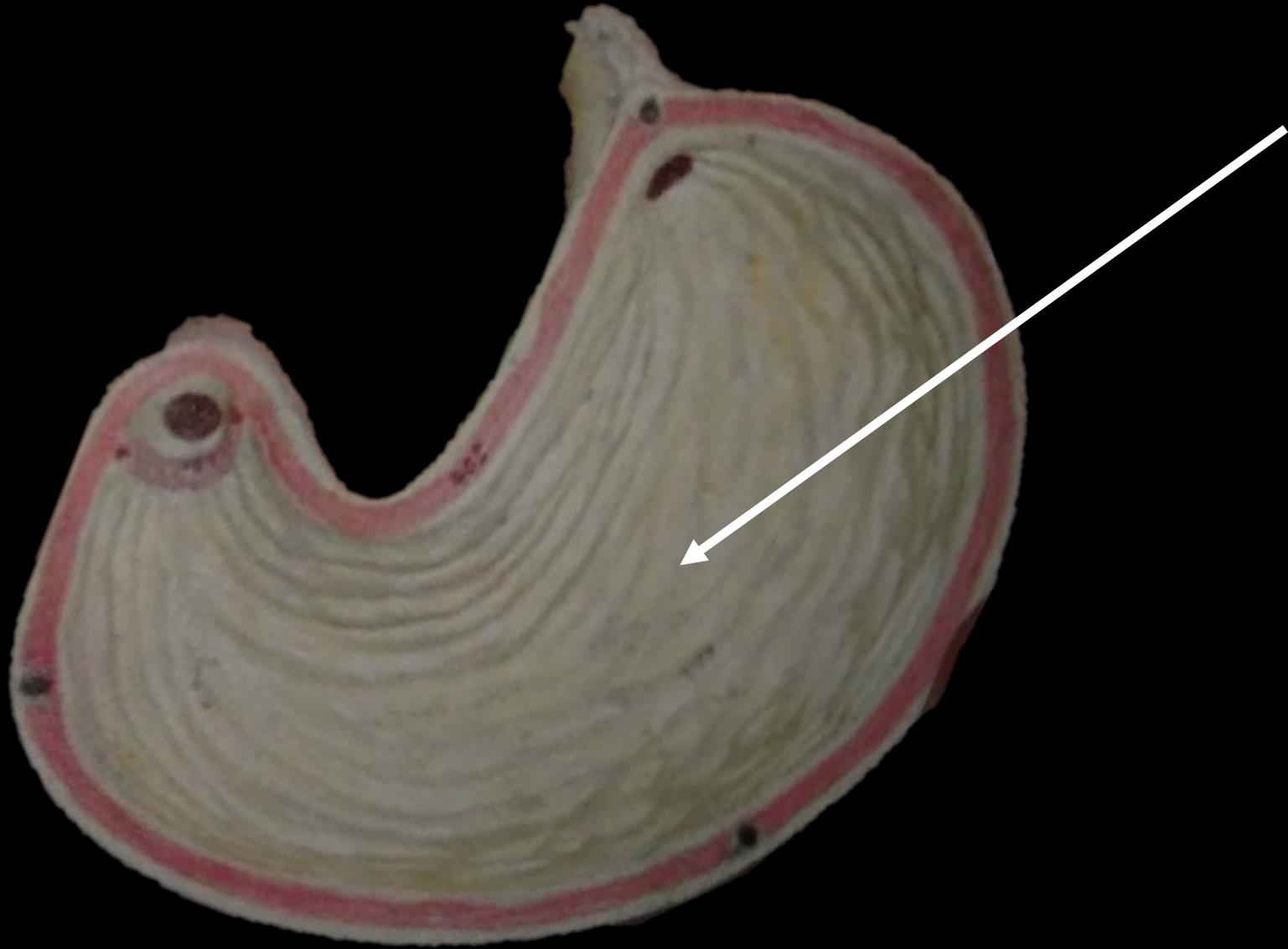
Identify the Structure.



Identify the Structure.



Identify the Structure.



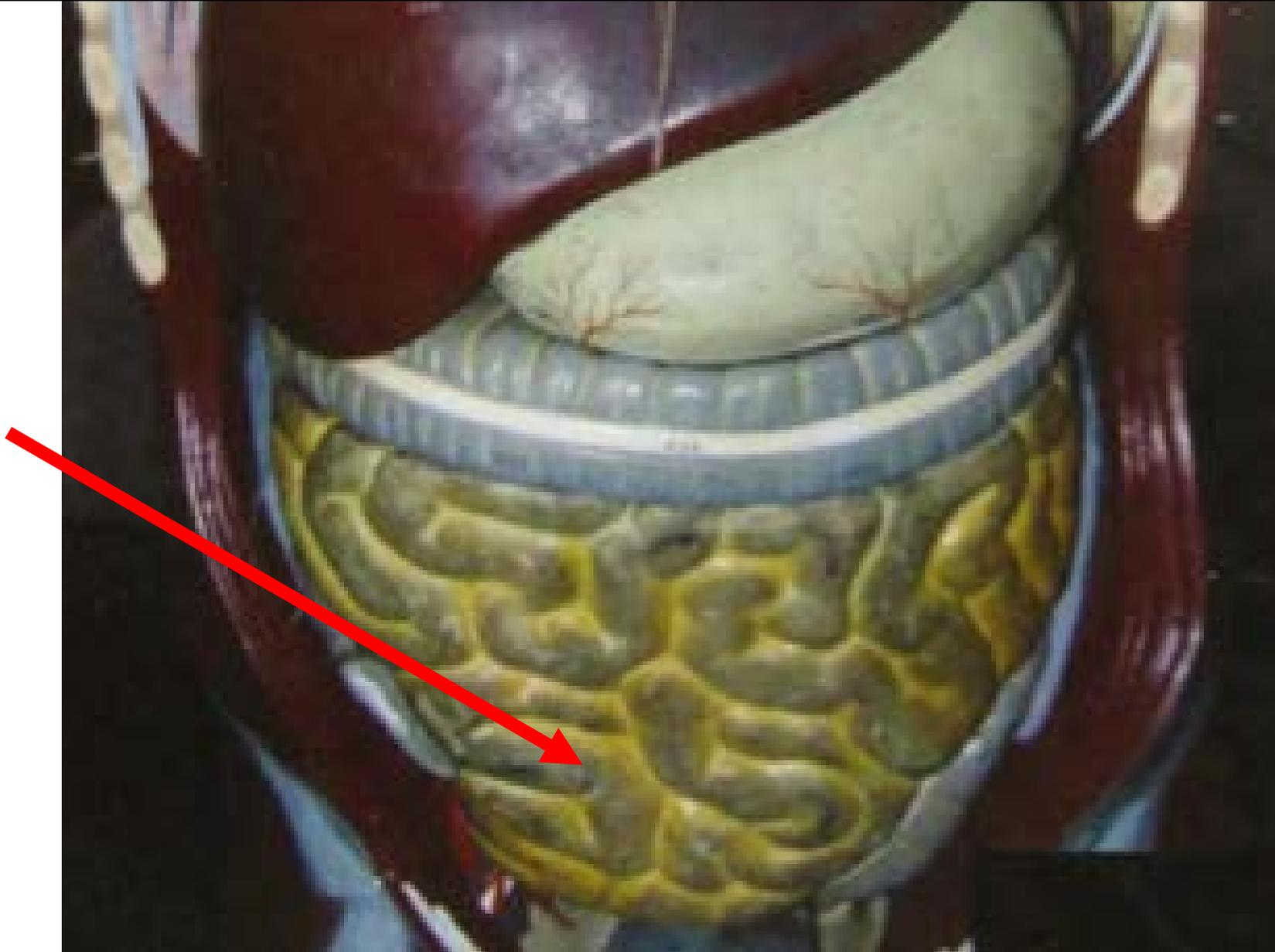
# Identify the Structure.



**Rugae**  
(deep ridges)

**Muscles that  
Allow Churning  
of the Stomach**

Identify the Structure.



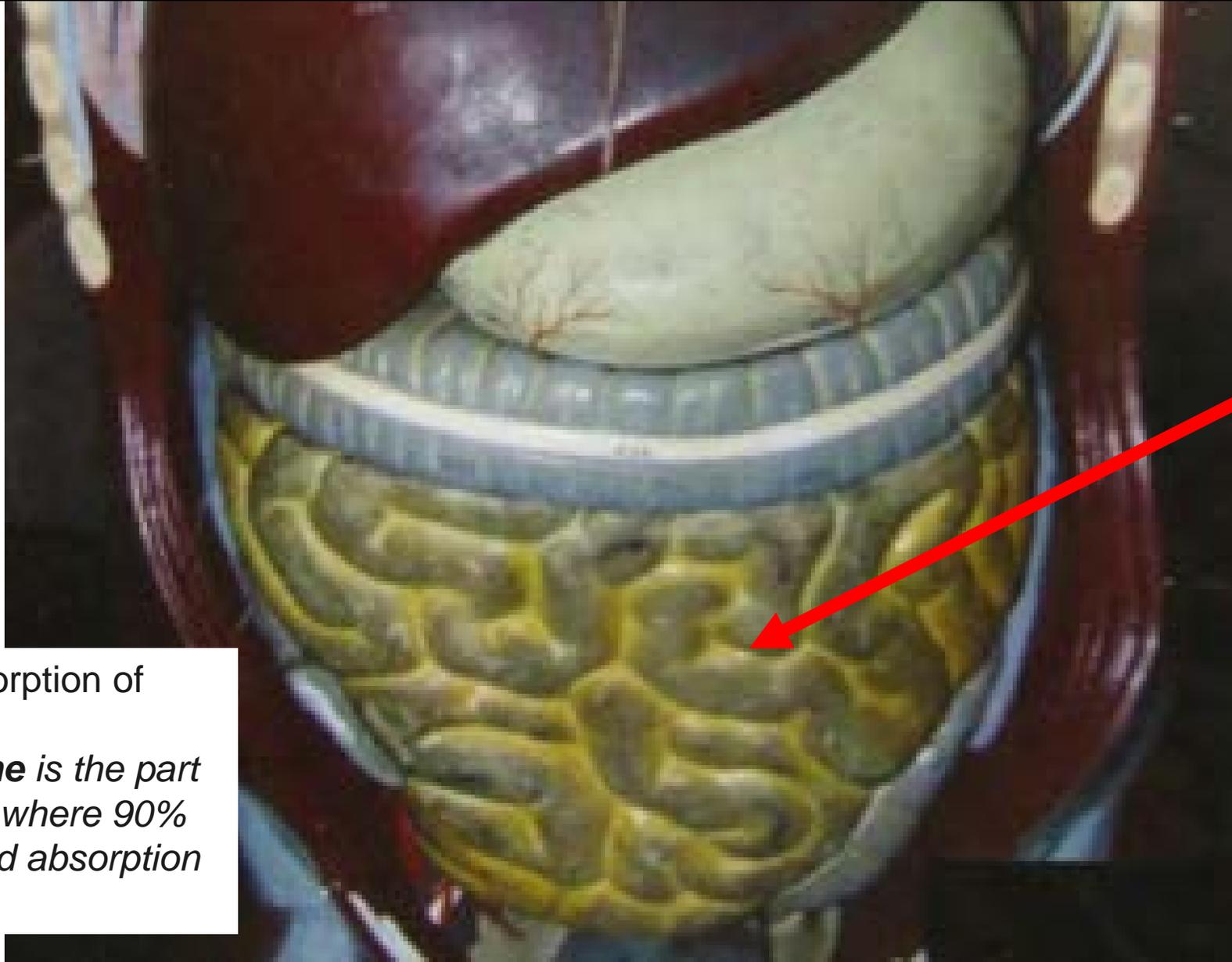
Ileum



Digestion and absorption of nutrients.

*The **small intestine** is the part of the **intestine** is where 90% of the digestion and absorption of food occurs.*

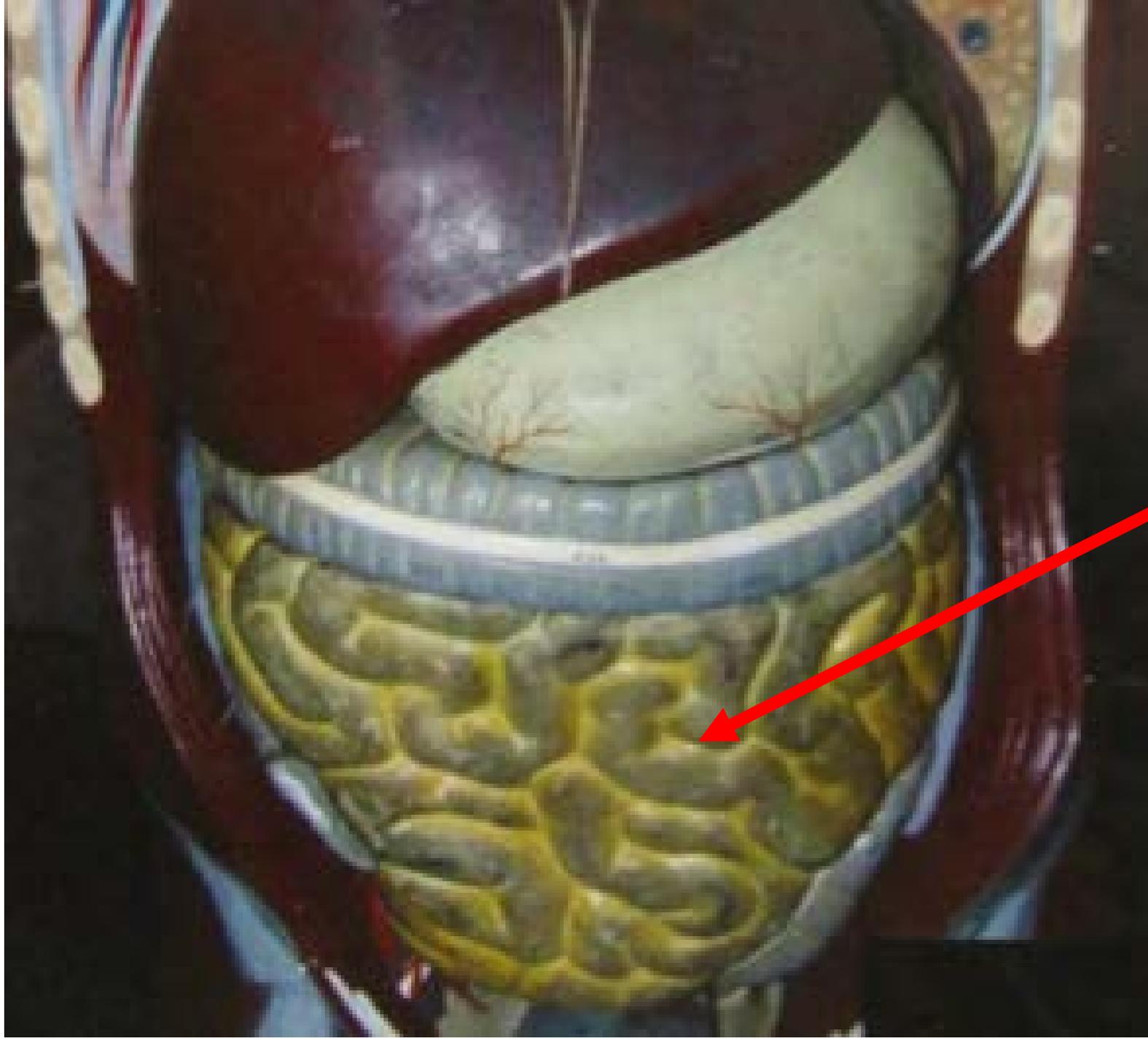
# Identify the Structure.



Jejunum

Digestion and absorption of nutrients.

*The **small intestine** is the part of the **intestine** is where 90% of the digestion and absorption of food occurs.*



Jejunum



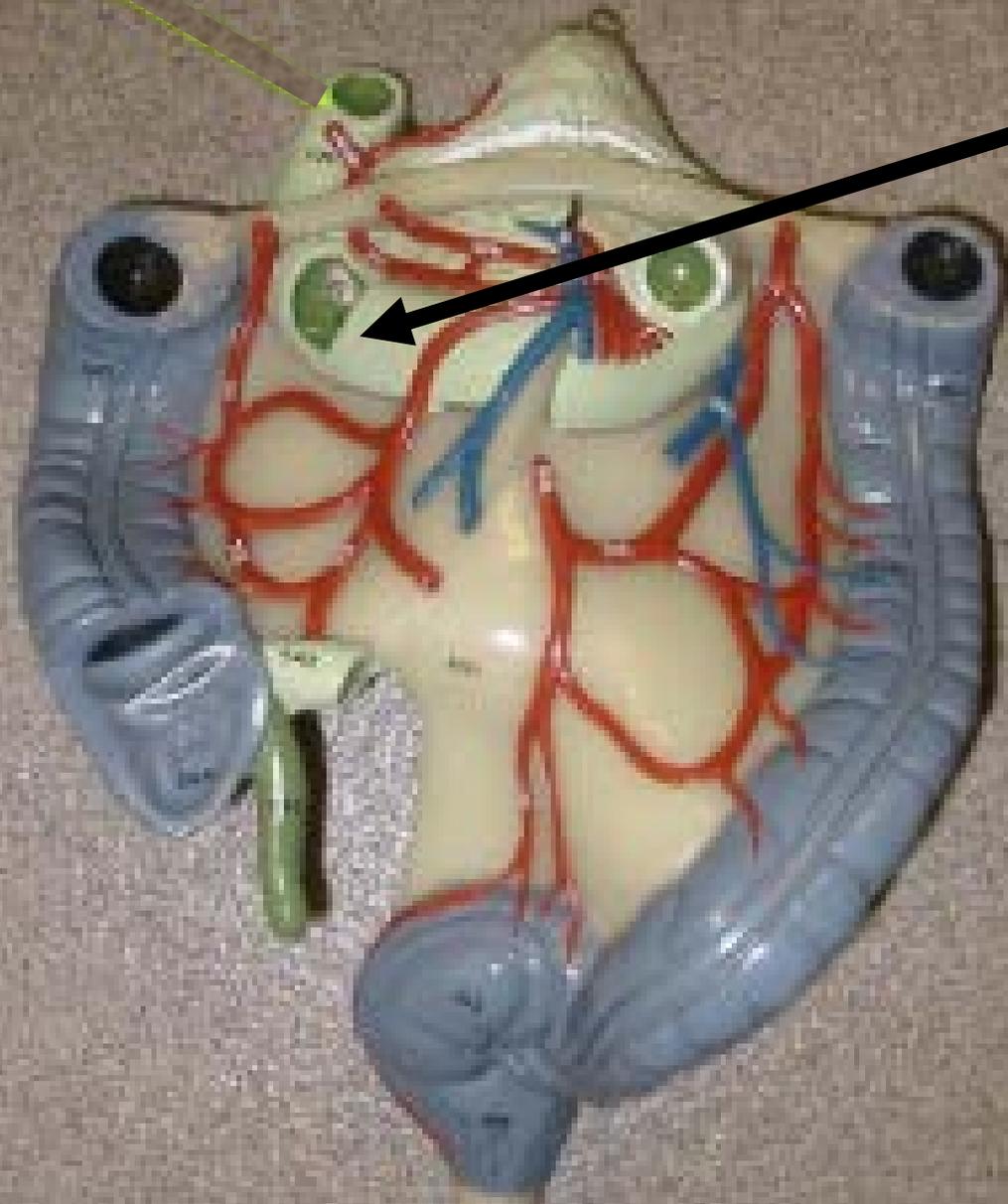
Identify the  
Structure.



**Pyloric Valve**

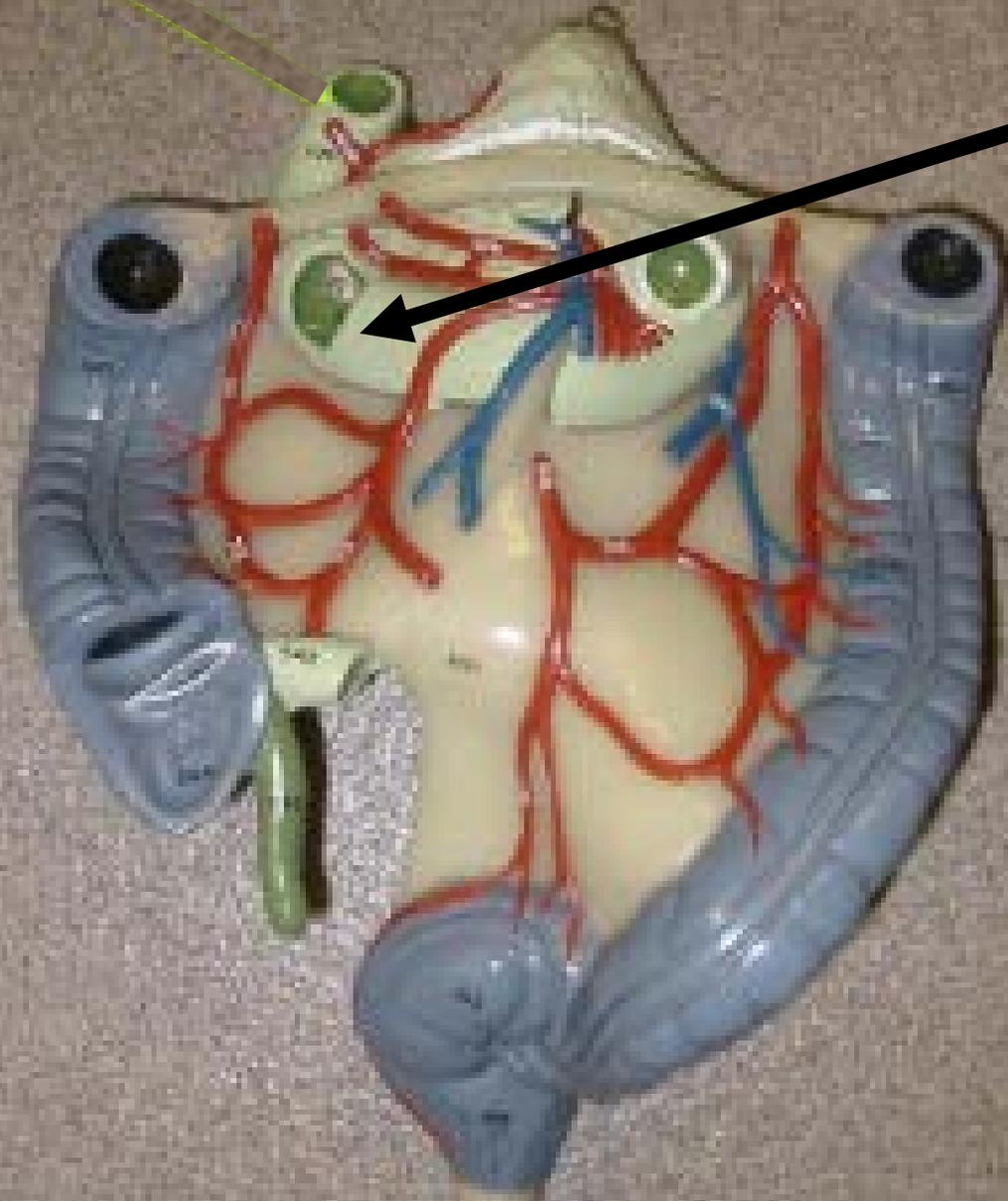


Identify the  
Structure.



# Duodenum

**The duodenum receives the food first and receives bile (bile digests fat) and receives the pancreatic juice that has enzymes.**

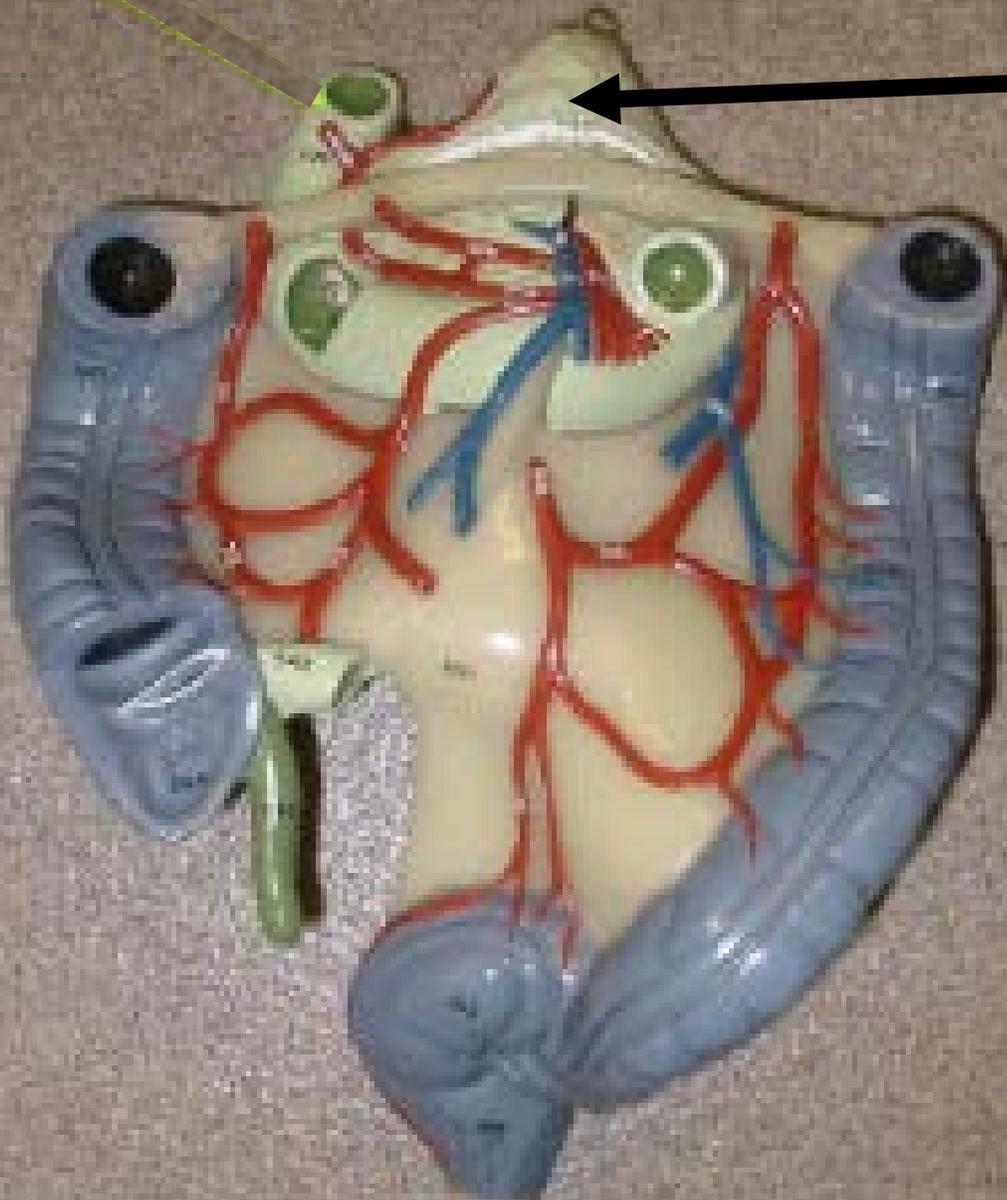


Identify the  
Structure and  
Function.

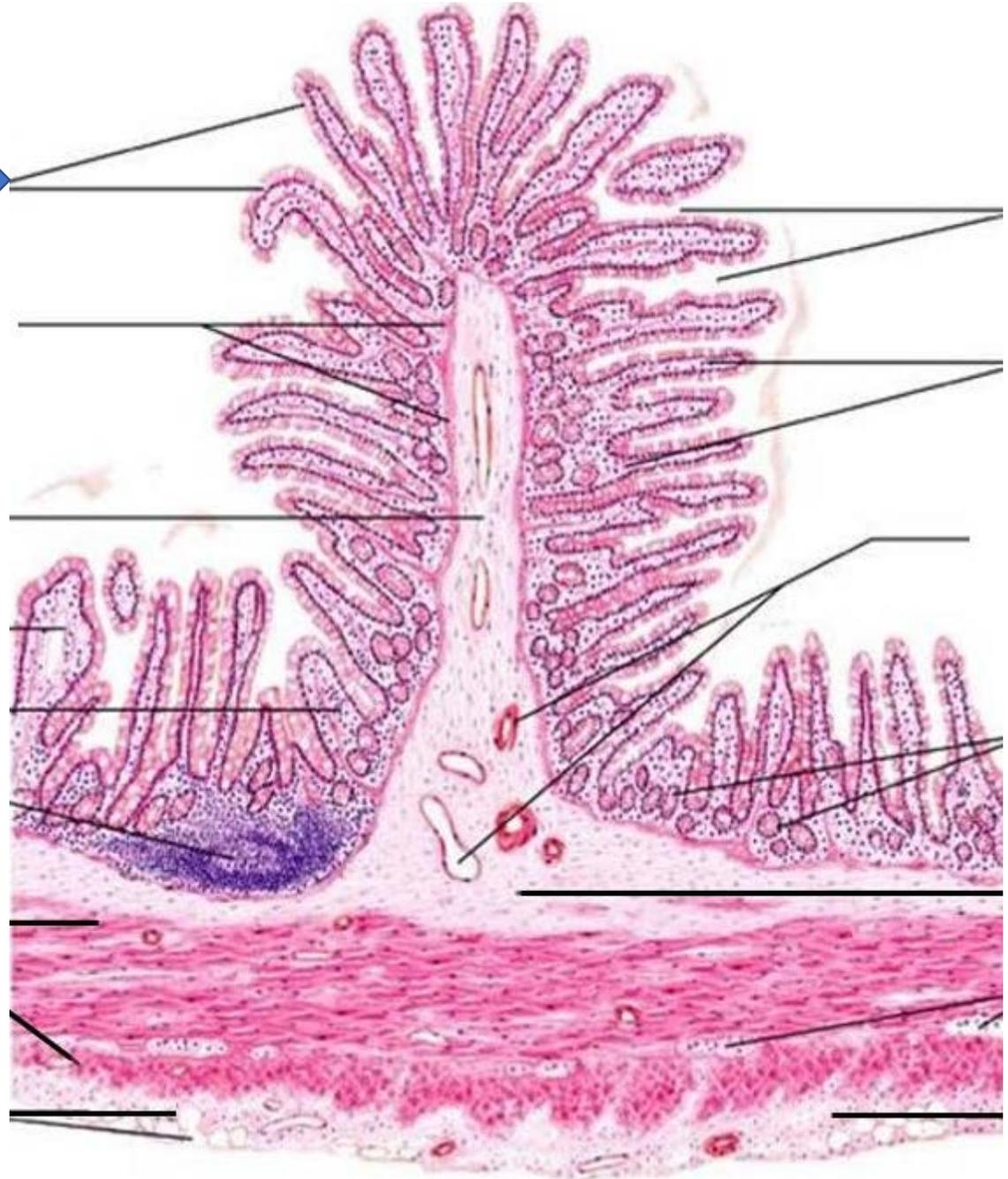


# Pancreas

The pancreas is not part of the alimentary canal, but it makes pancreatic juice that has digestive enzymes needed to break down food. The pancreatic duct carries the pancreatic juice to the duodenum.

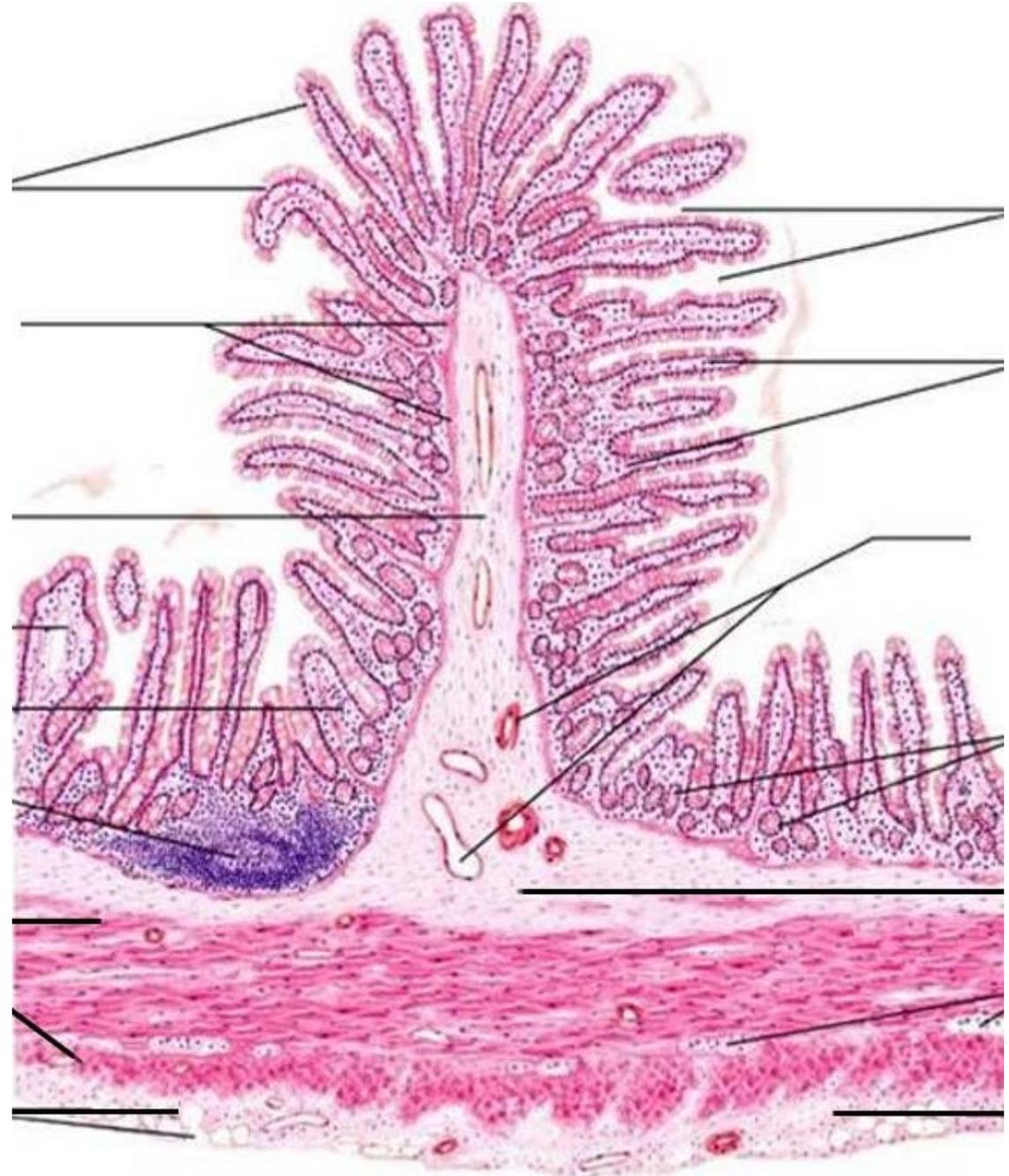


Identify the cell type.

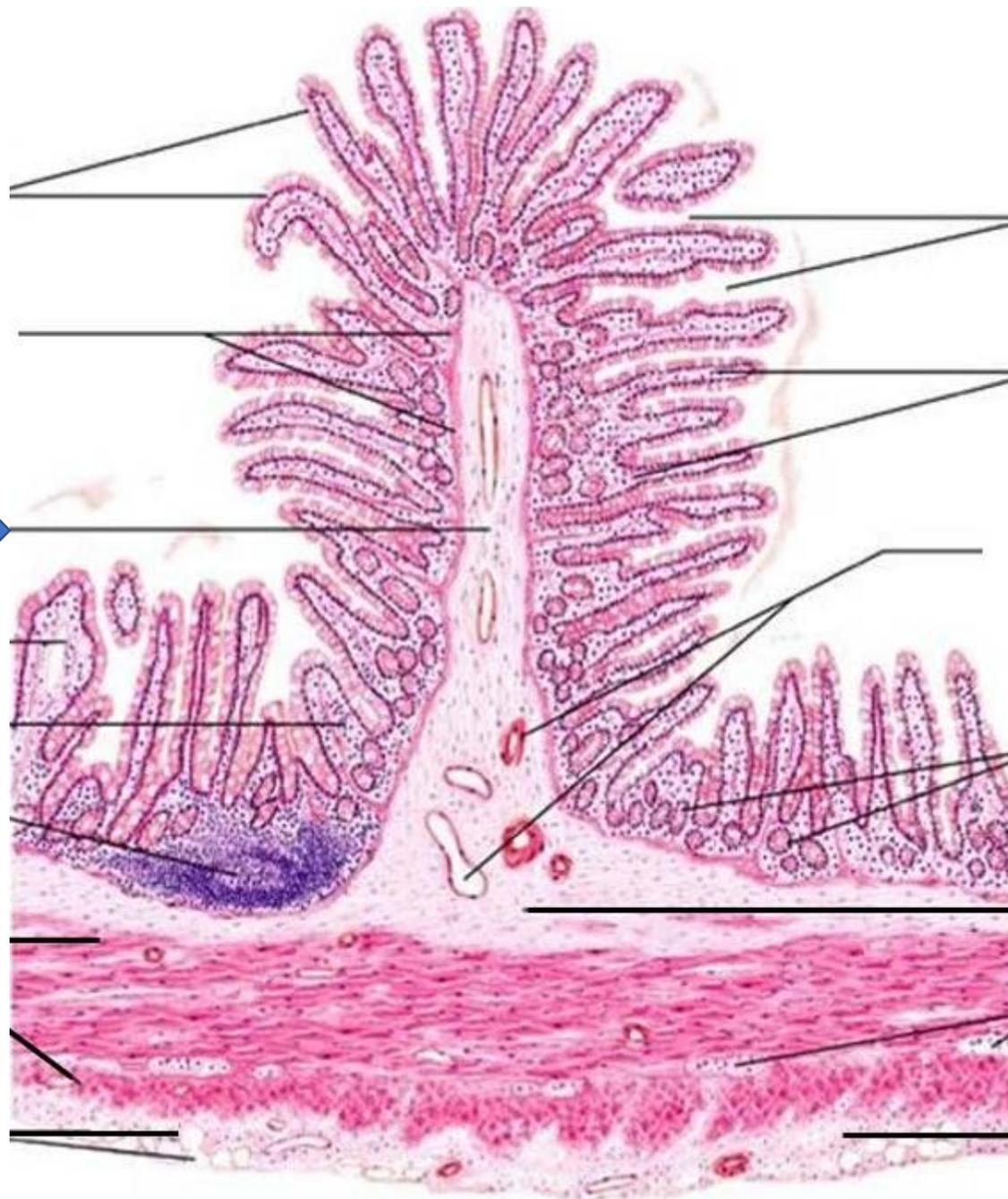


Identify the  
cell type.

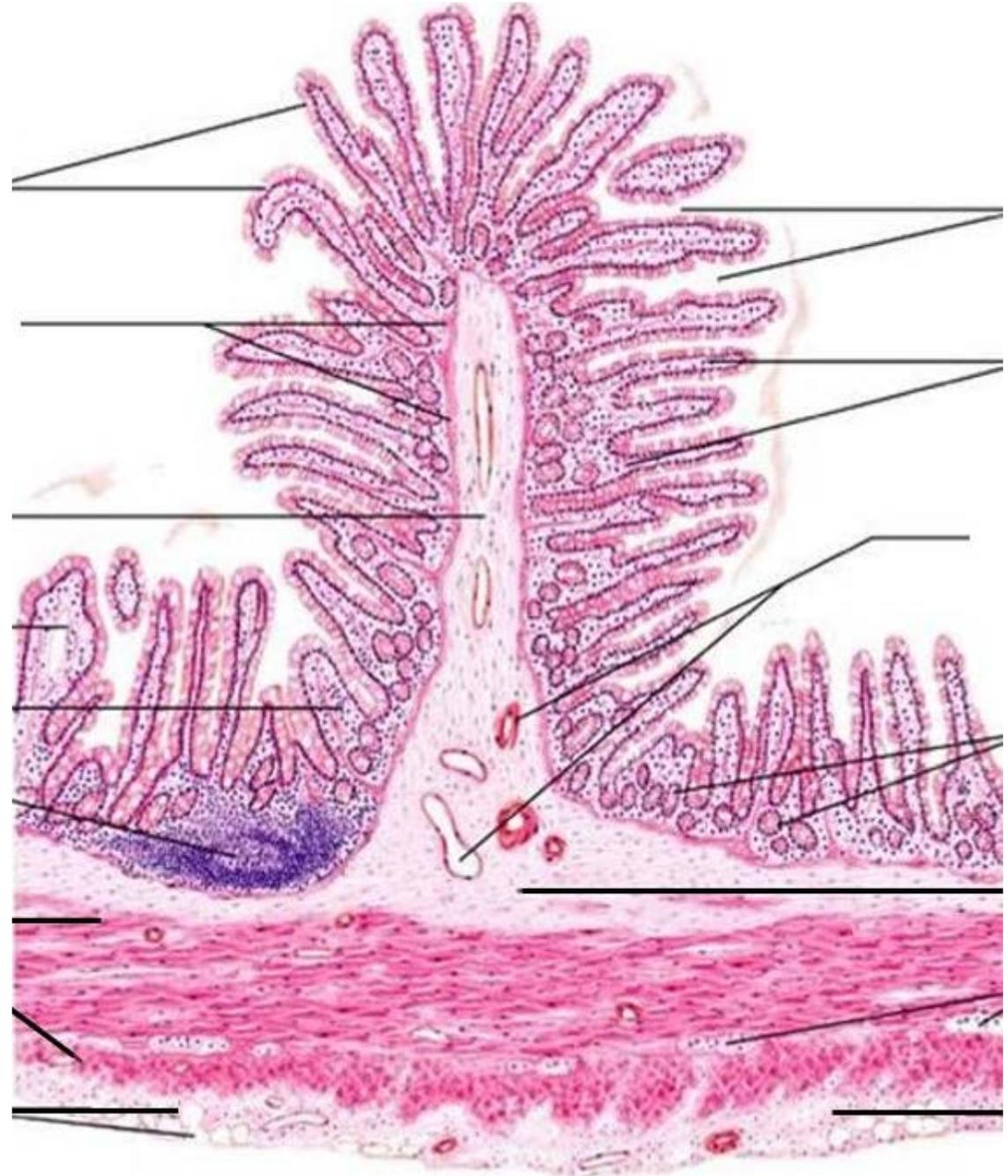
Columnar  
Epithelial  
Cells



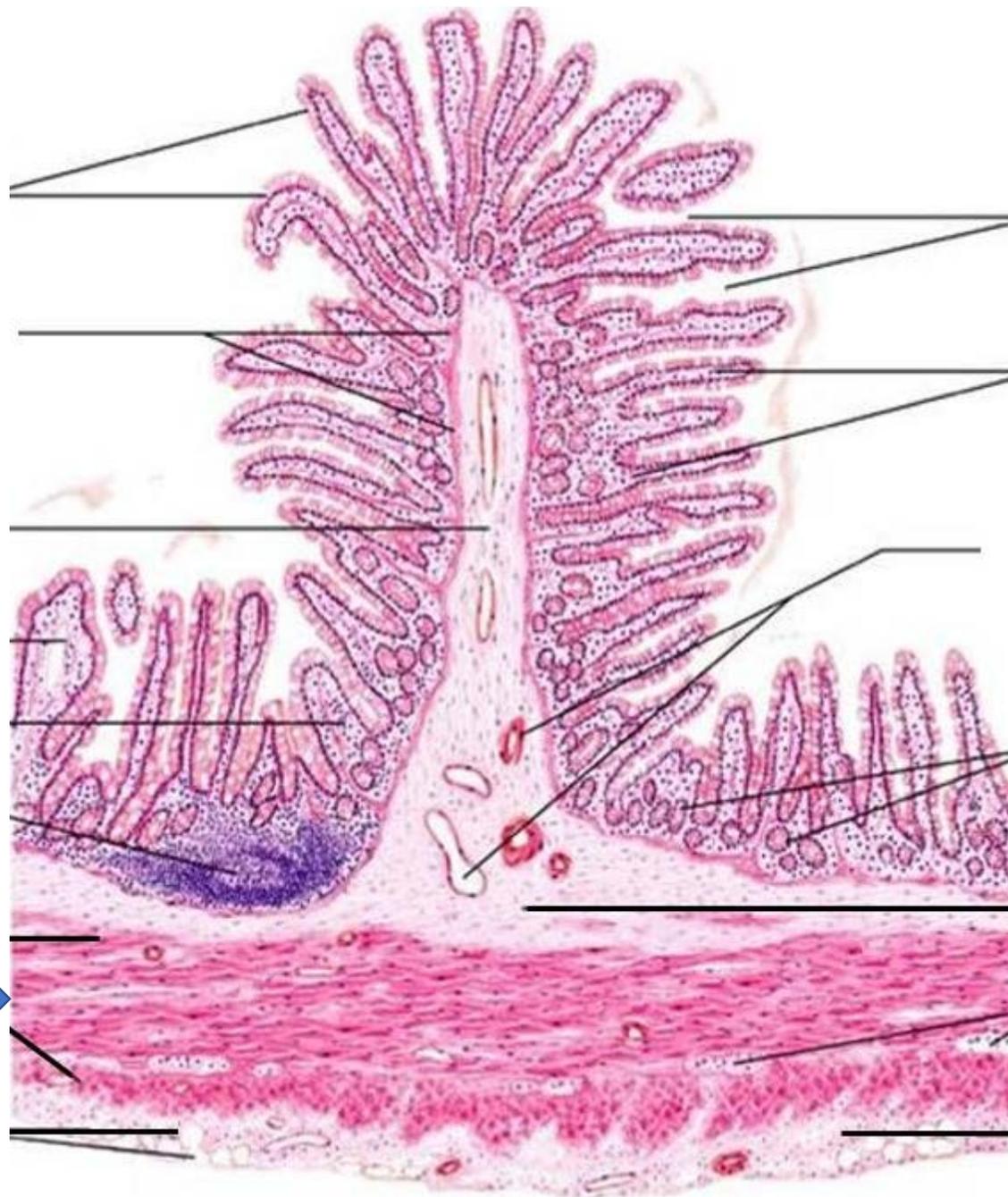
Identify this  
Layer



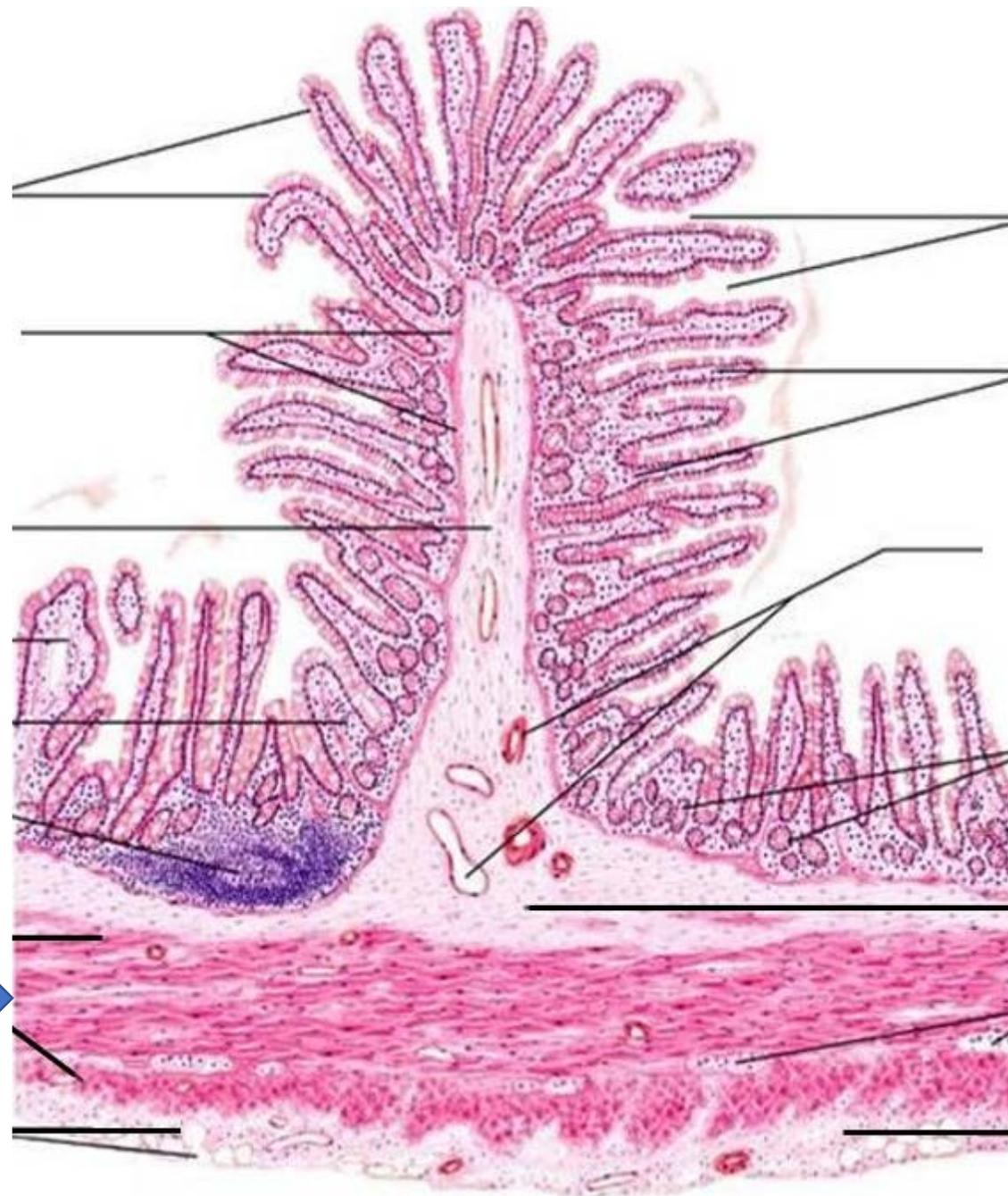
# Submucosal Layer



Identify this  
Layer



# Muscular Layers

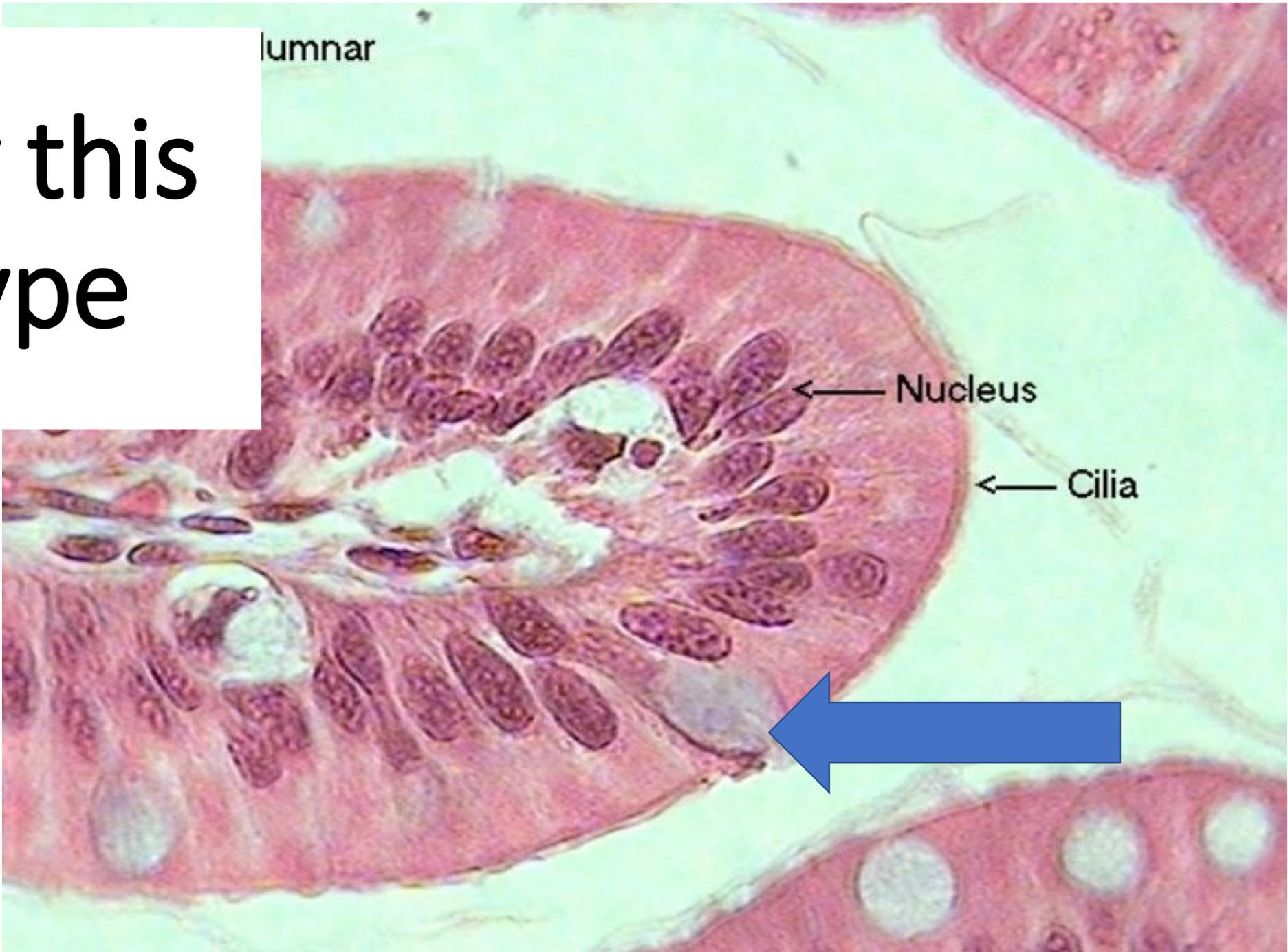


luminar

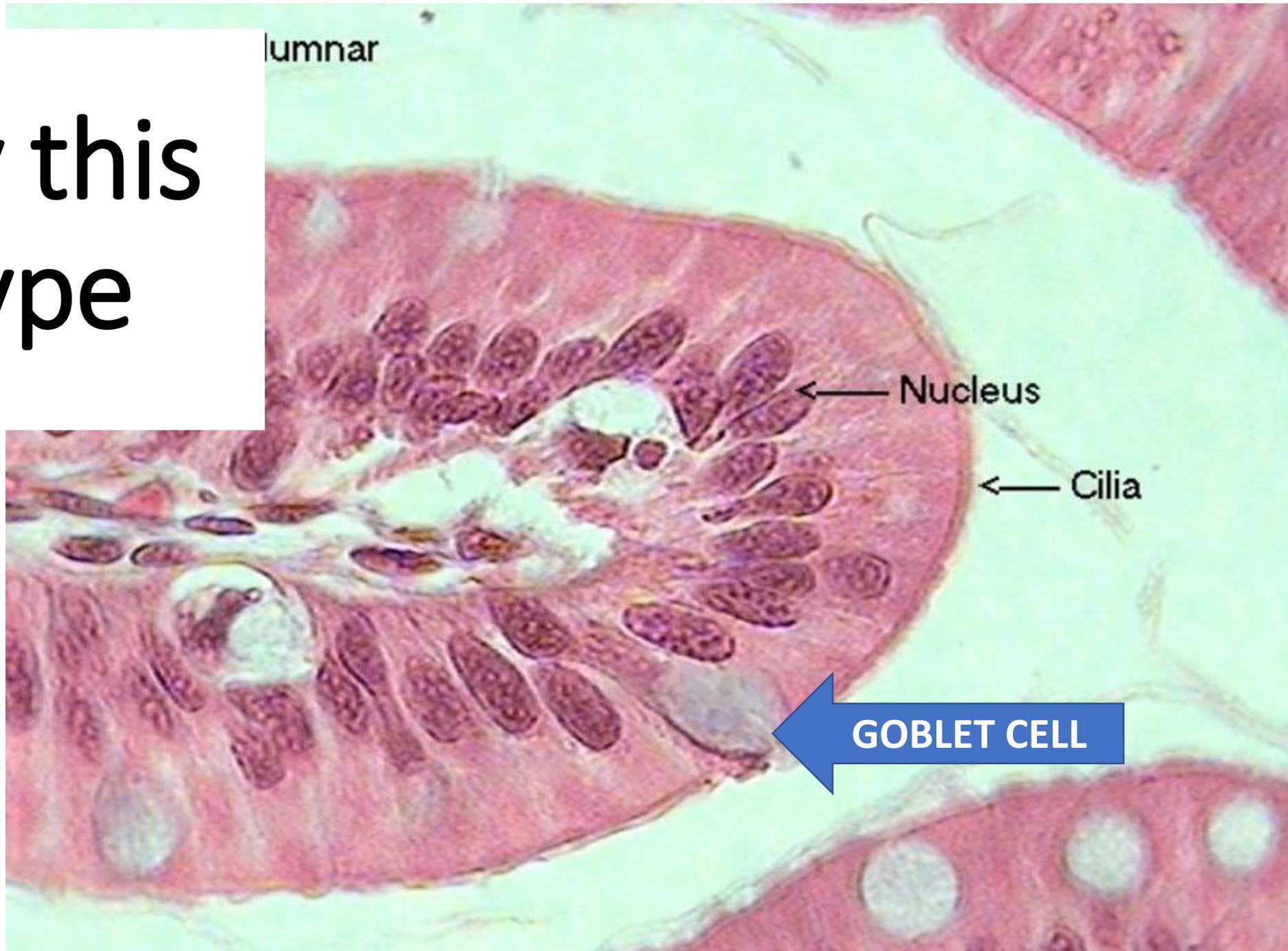
# Identify this Cell Type

← Nucleus

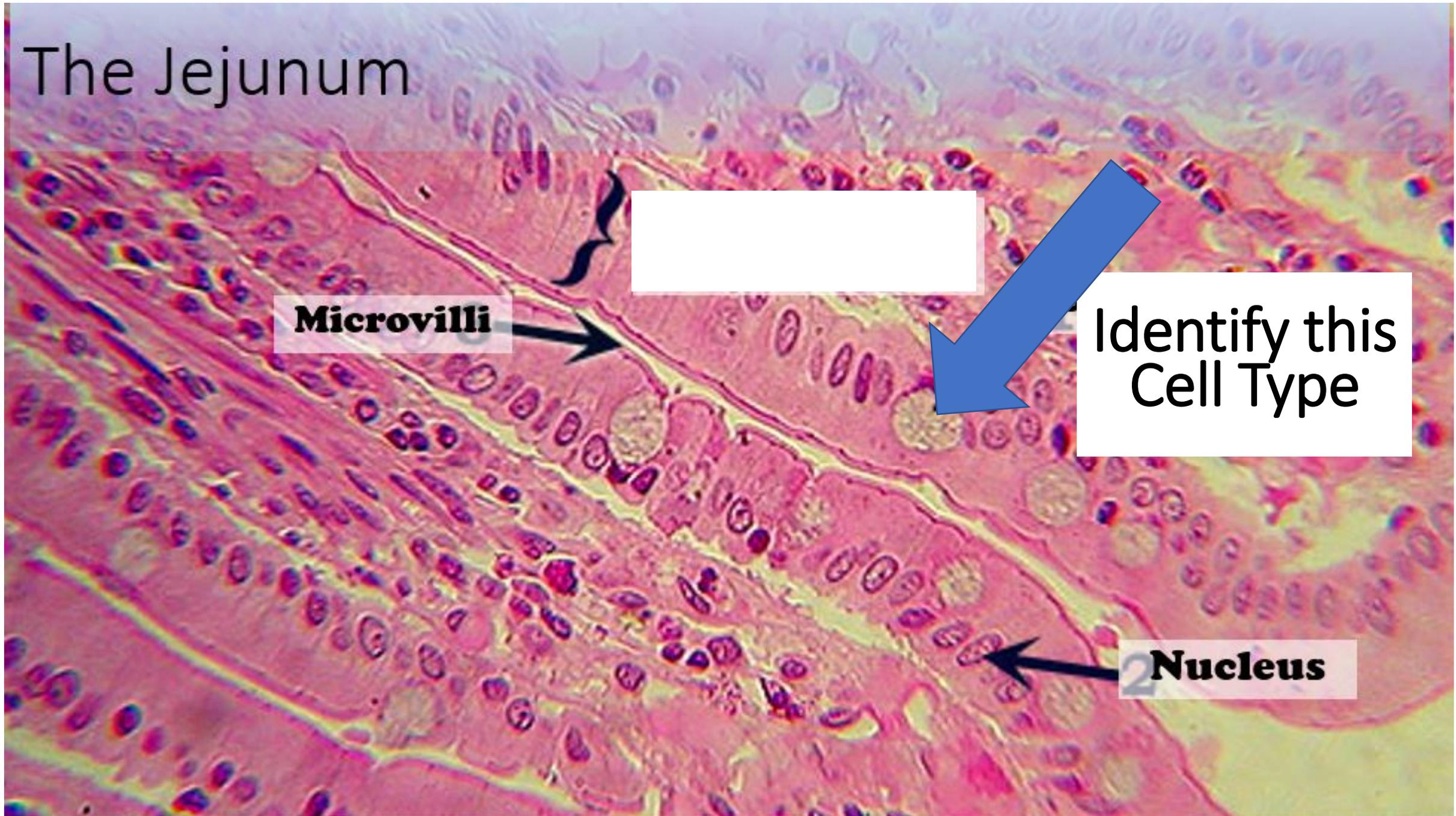
← Cilia



# Identify this Cell Type



# The Jejunum



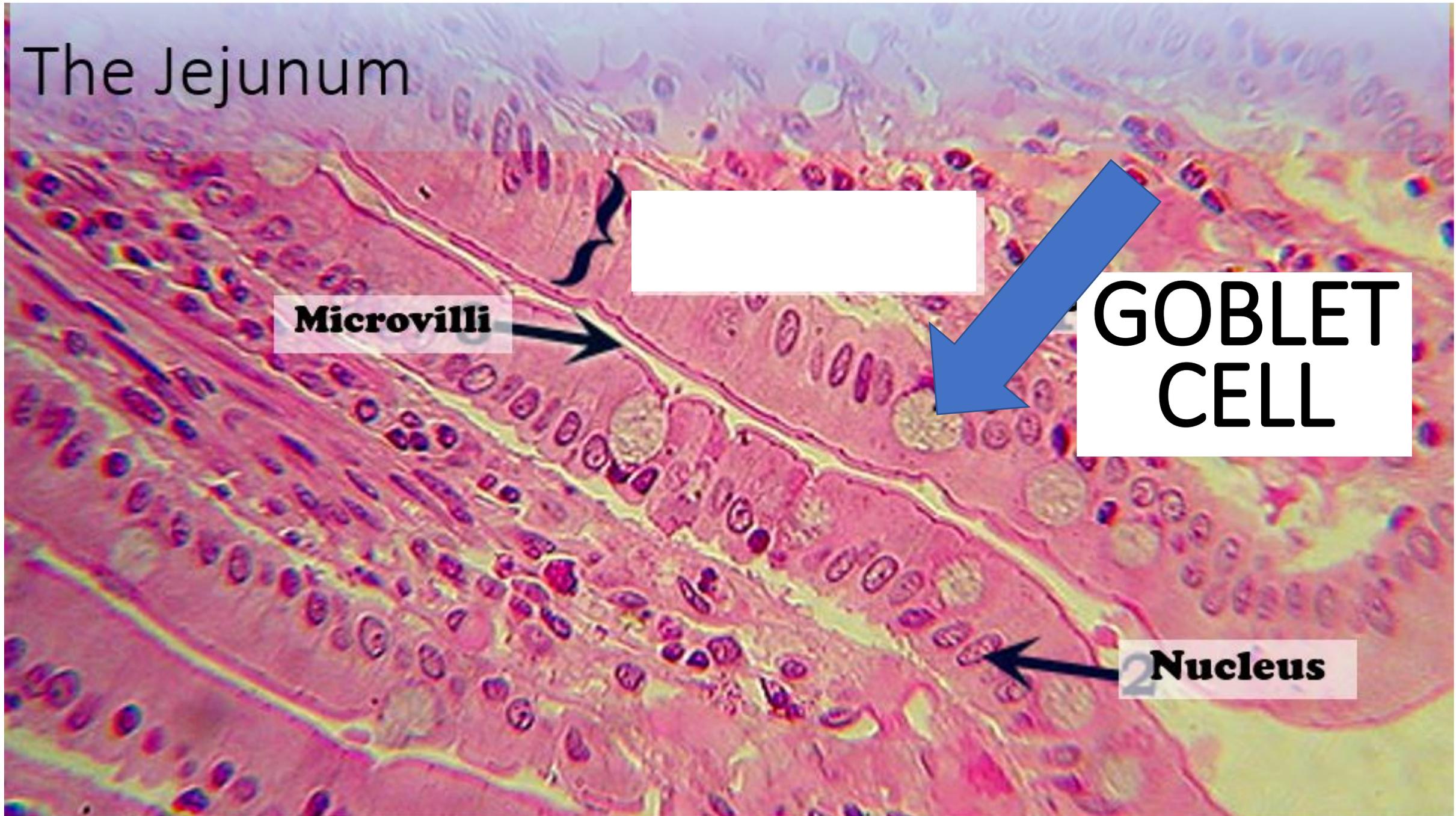
**Microvilli**

[Blank white box]

Identify this Cell Type

**Nucleus**

# The Jejunum



**Microvilli**

**GOBLET CELL**

**Nucleus**

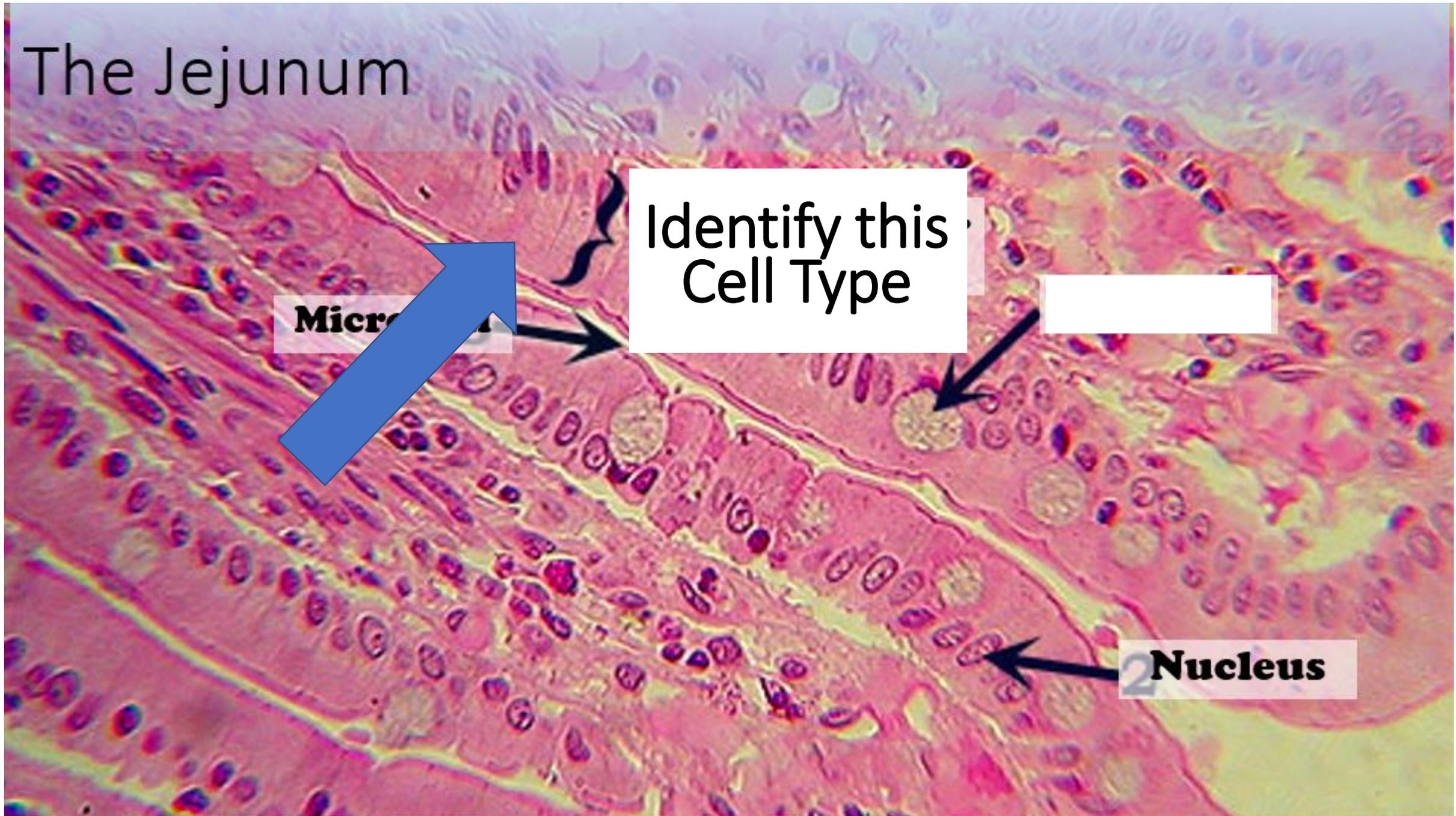


# The Jejunum

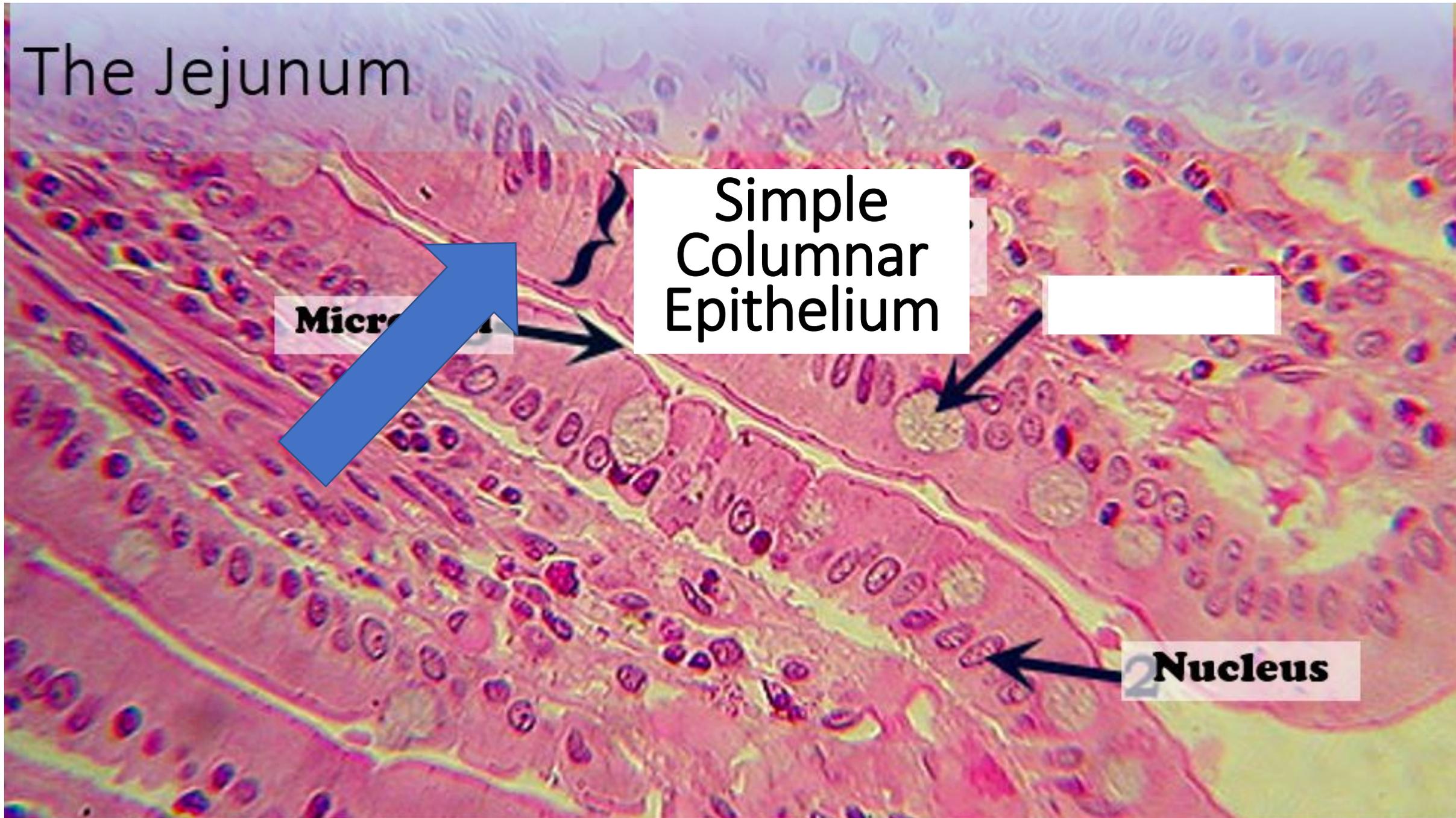
**Micro**

Identify this  
Cell Type

**Nucleus**



# The Jejunum



**Micro**

**Simple  
Columnar  
Epithelium**

**Nucleus**

**Lumen**

**Villi**

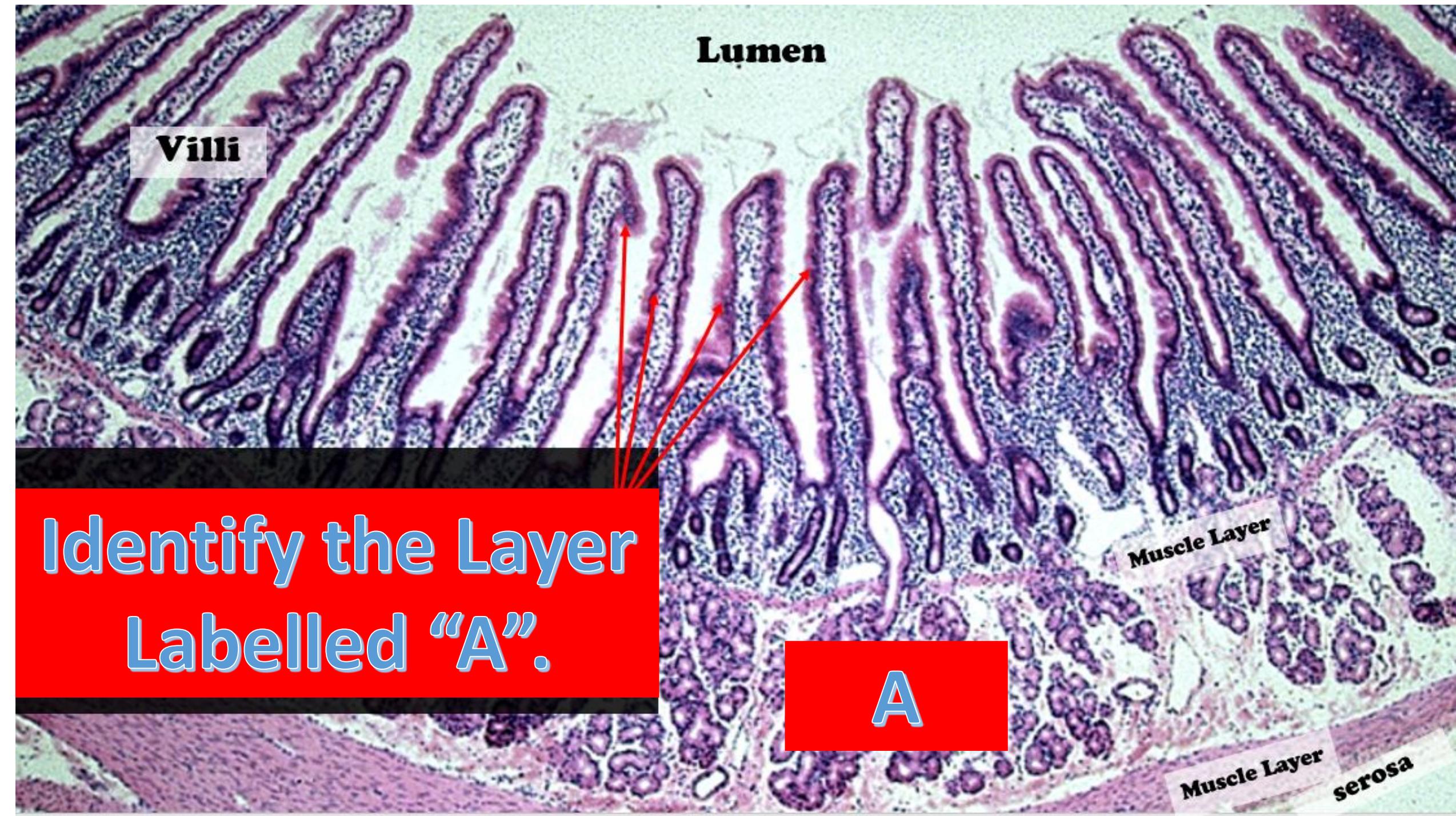
**Muscle Layer**

**Muscle Layer**

**serosa**

**Identify the Layer  
Labelled "A".**

**A**



**Lumen**

**Villi**

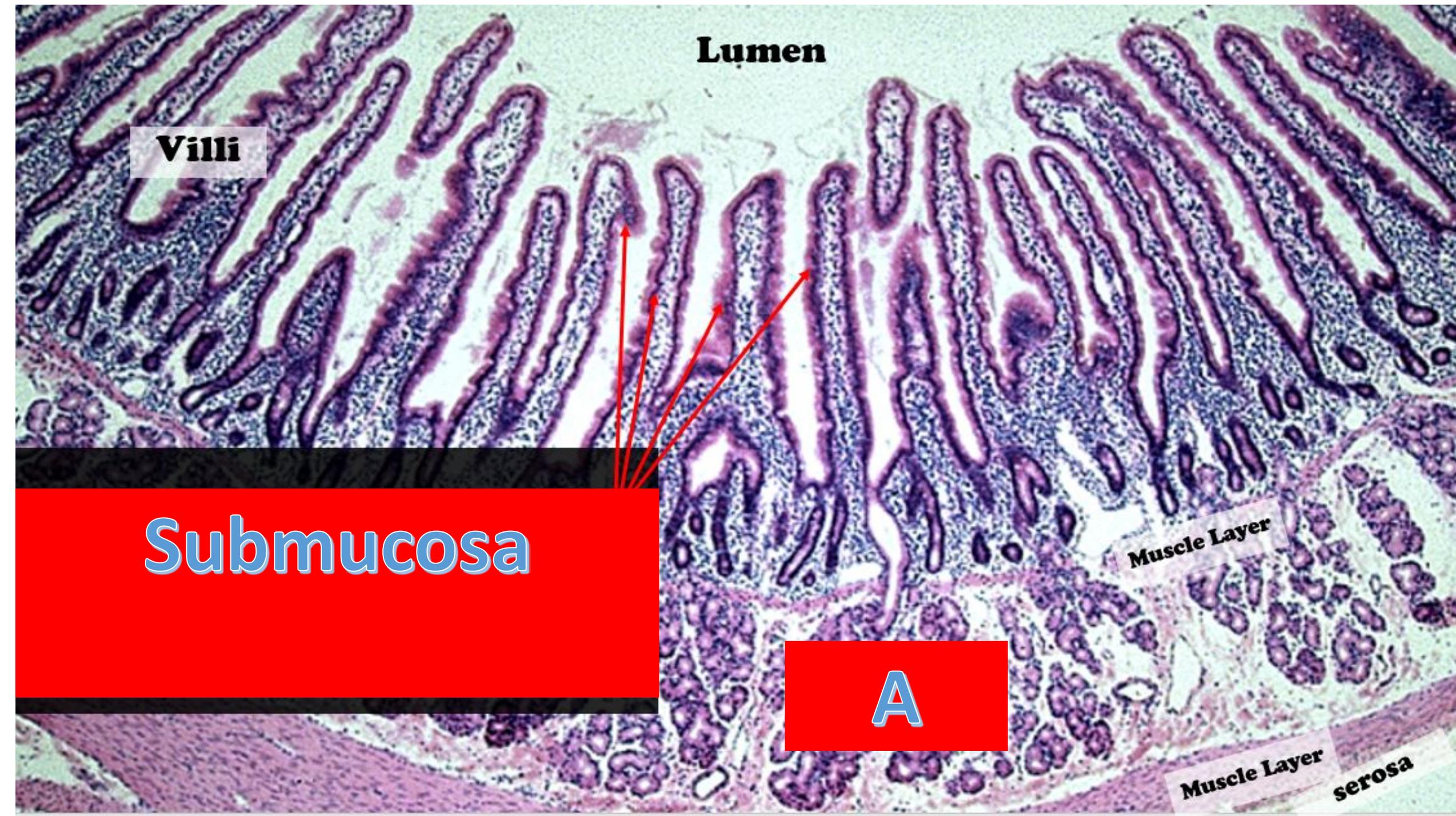
**Submucosa**

**Muscle Layer**

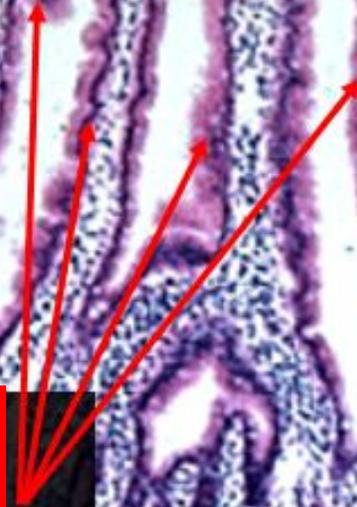
**A**

**Muscle Layer**

**serosa**



**Lumen**



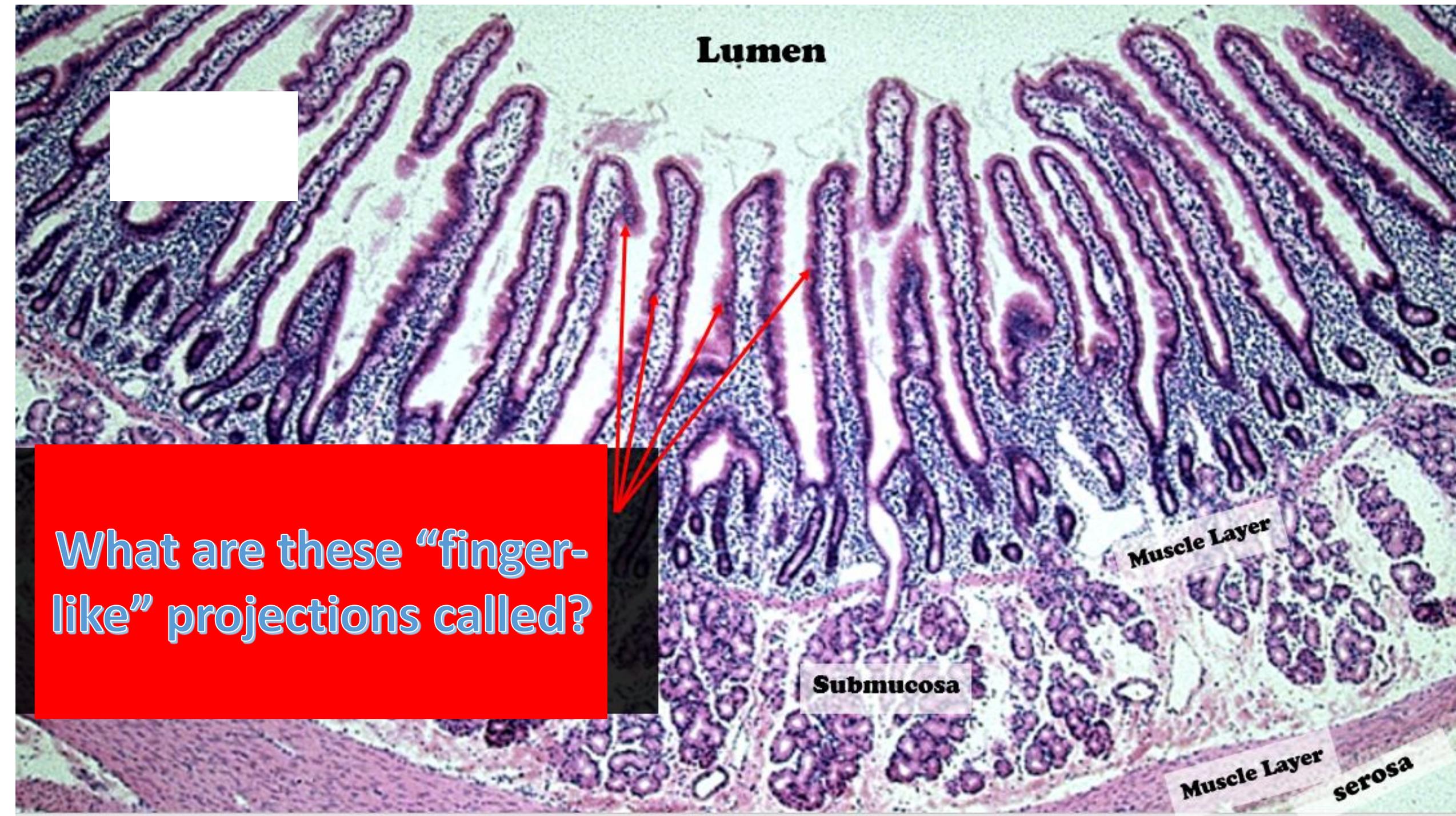
What are these “finger-like” projections called?

**Muscle Layer**

**Submucosa**

**Muscle Layer**

**serosa**



**Lumen**

**Villi**

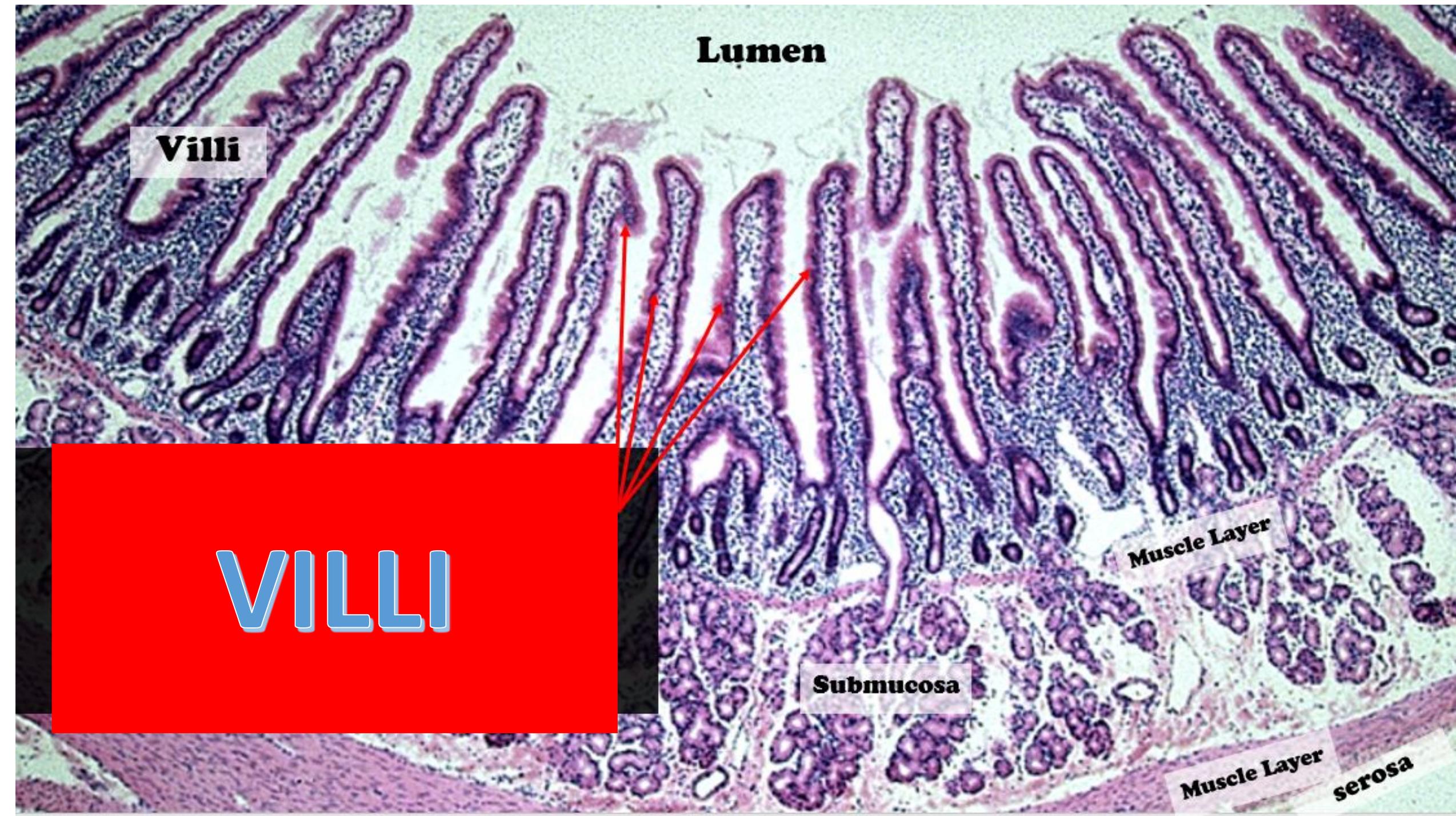
**VILLI**

**Muscle Layer**

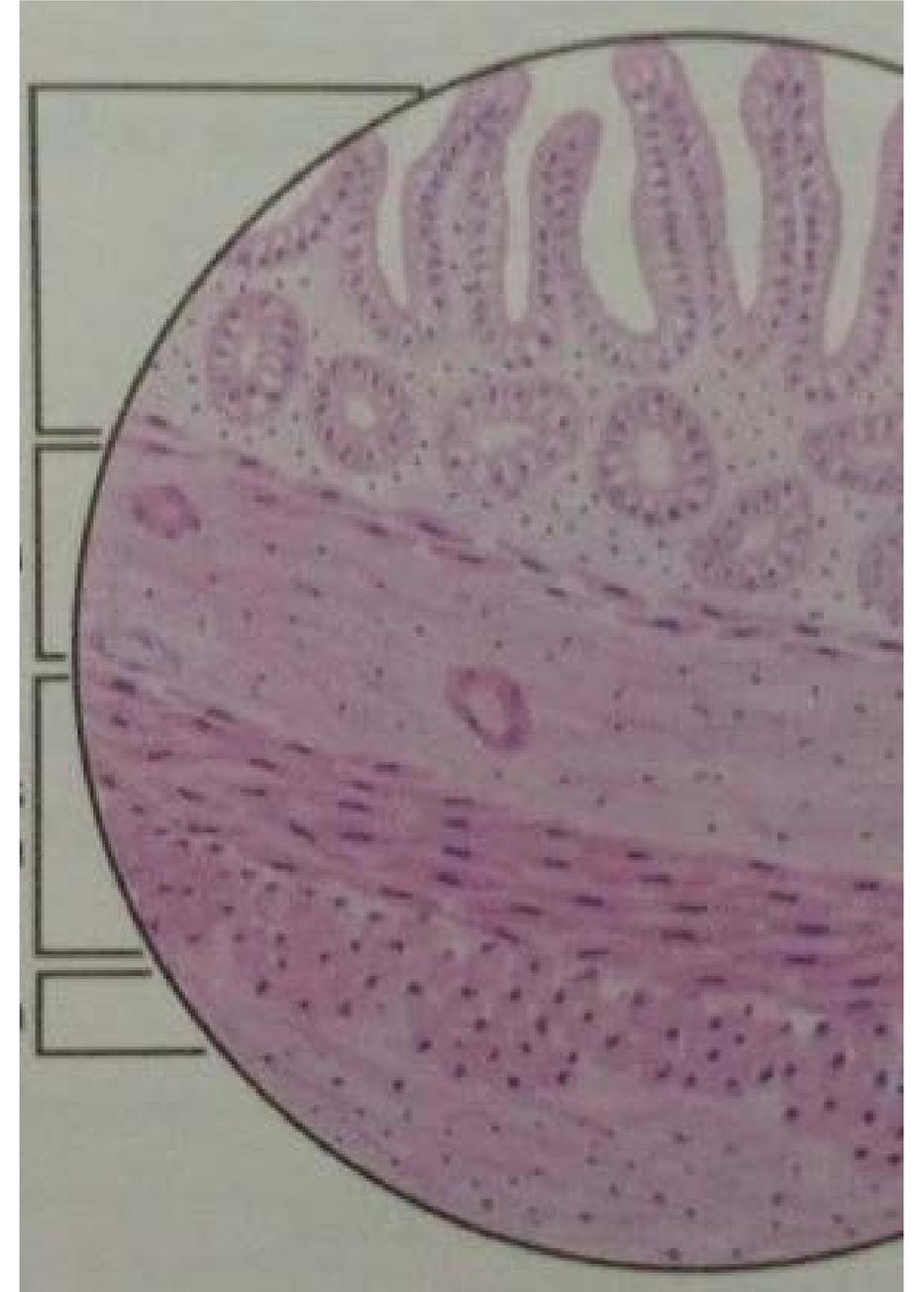
**Submucosa**

**Muscle Layer**

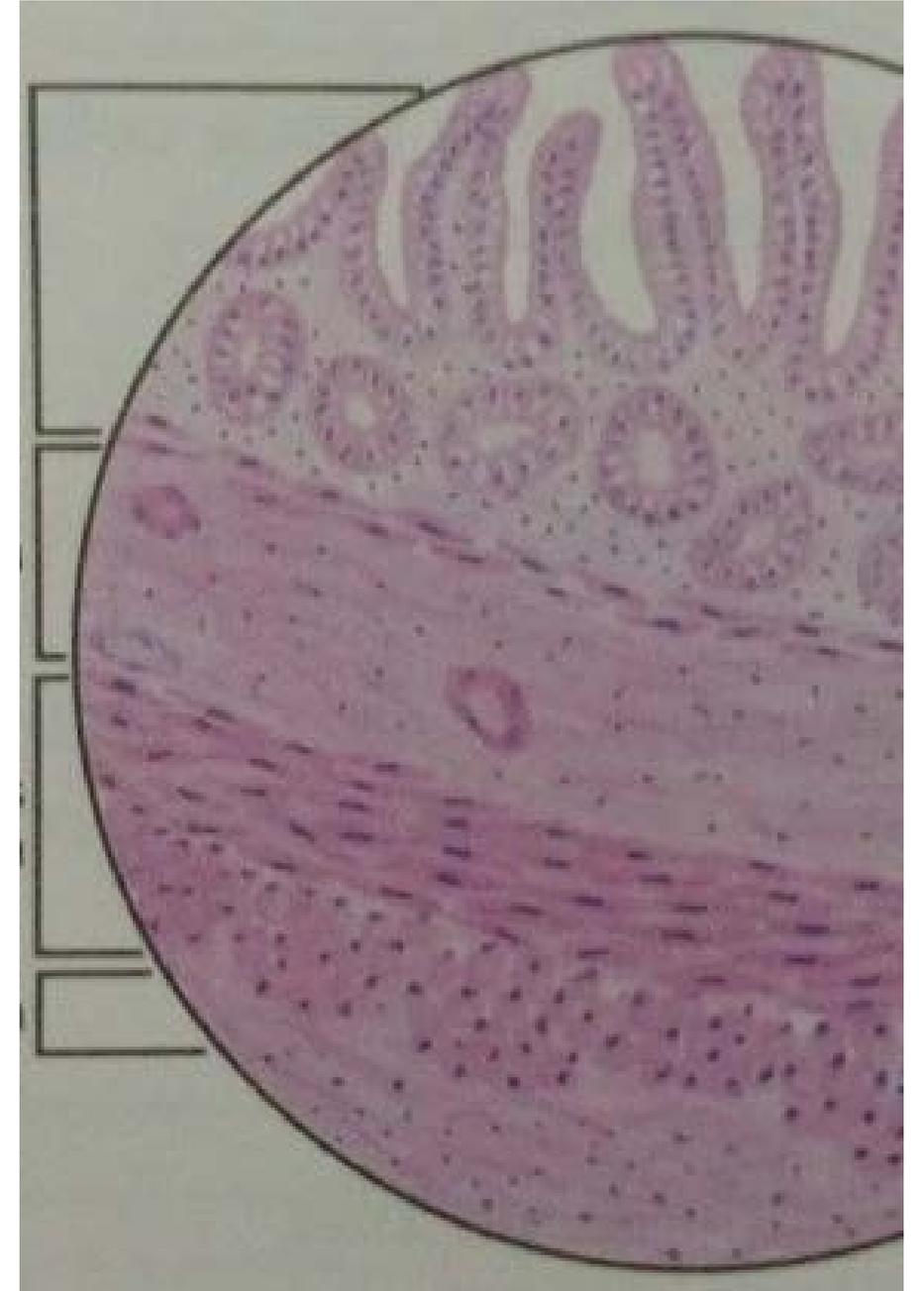
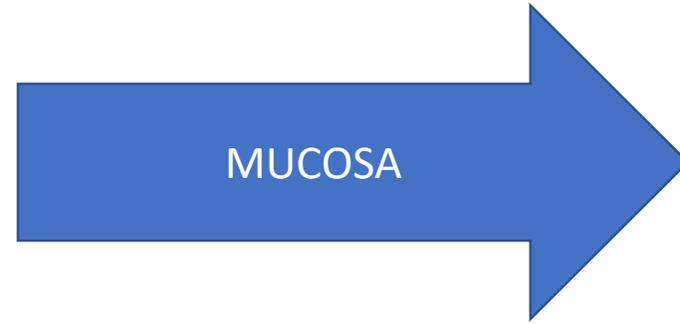
**serosa**



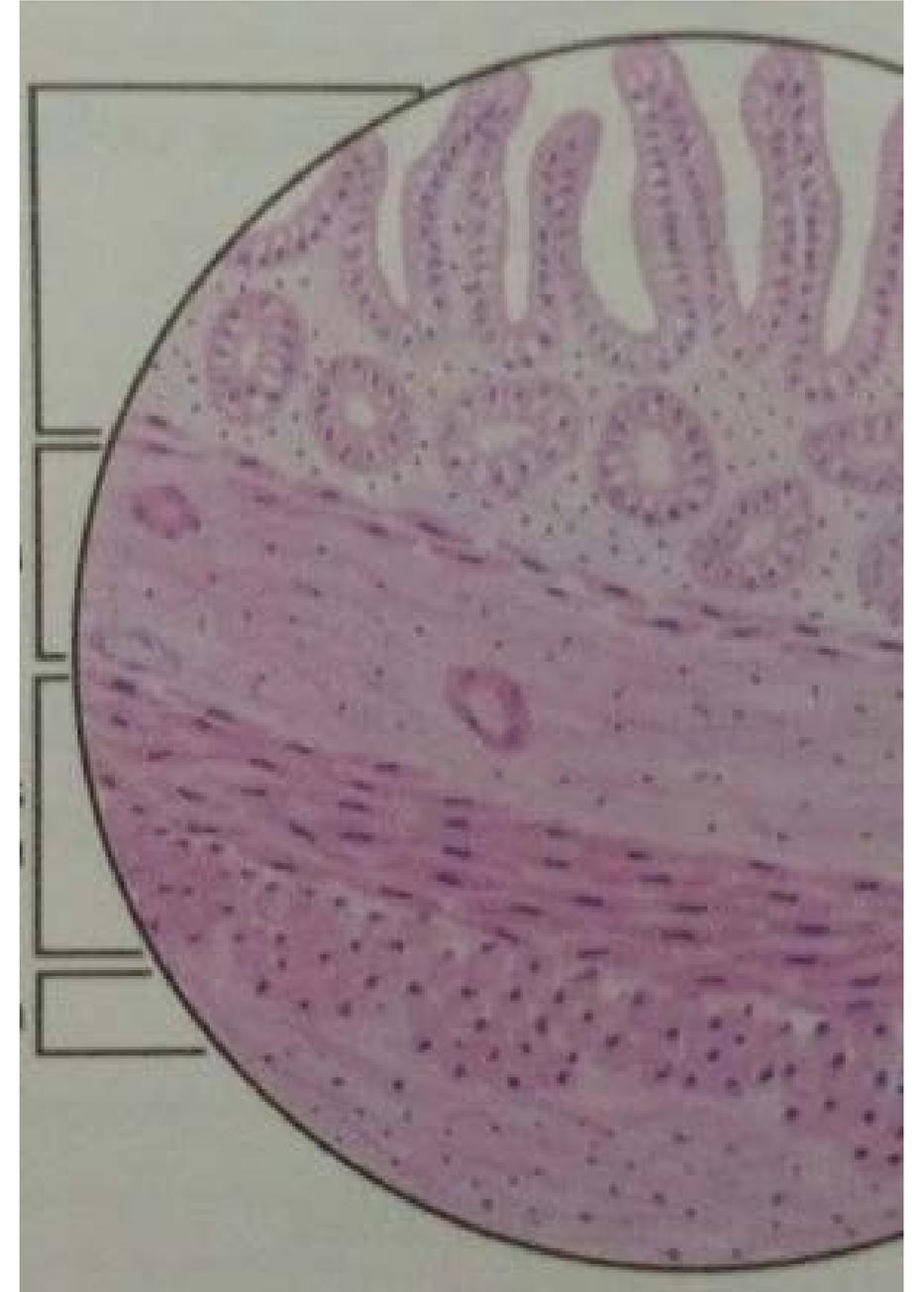
Identify  
the  
structure.



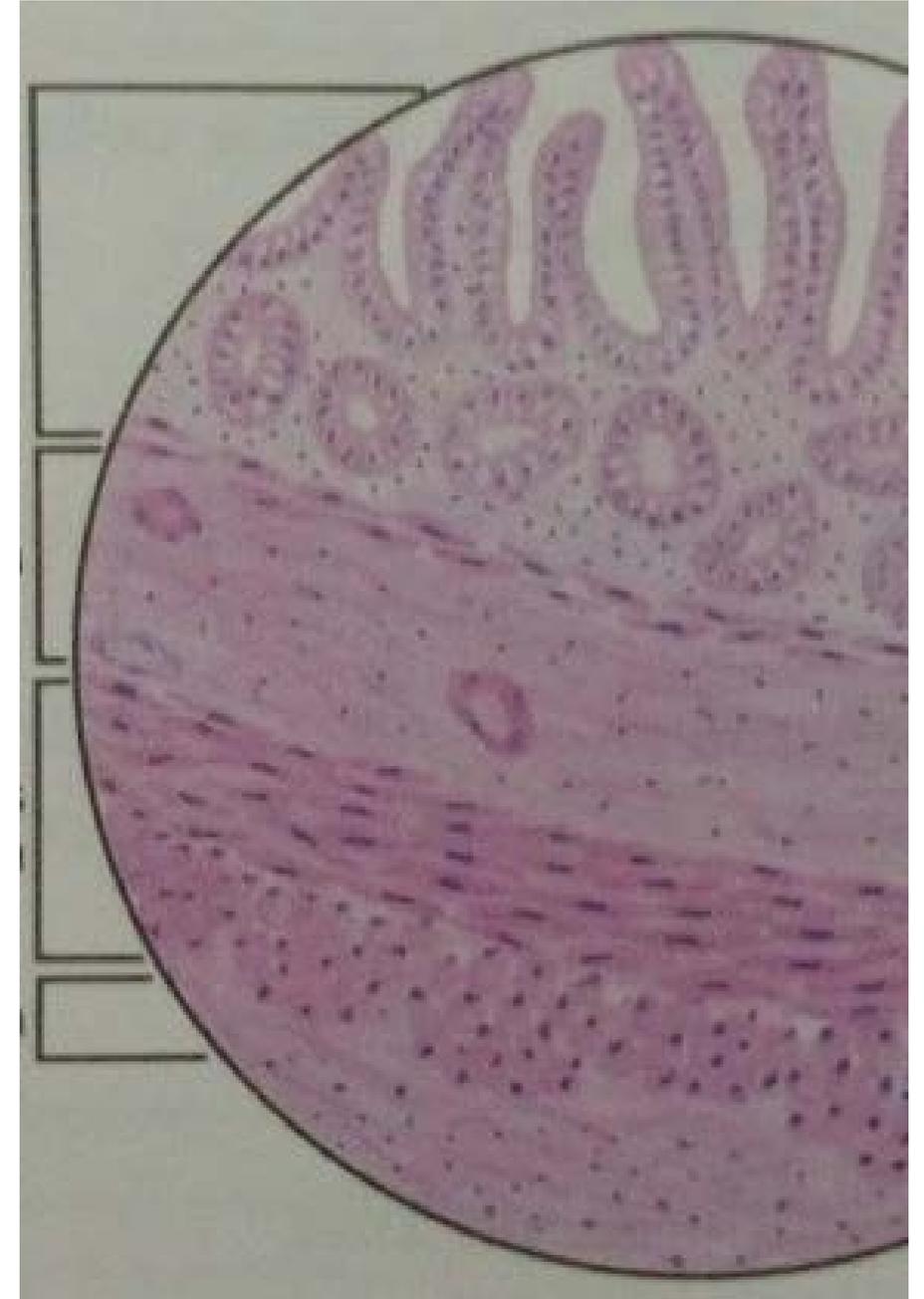
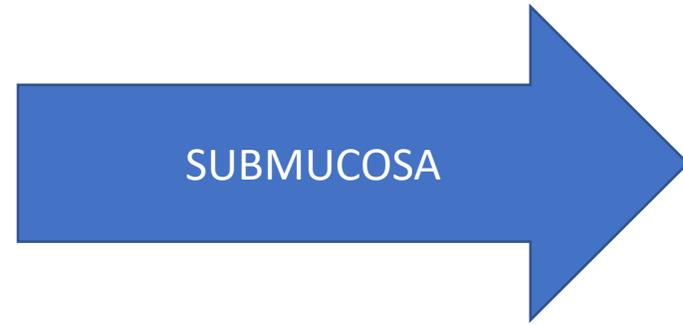
Identify  
the  
structure.



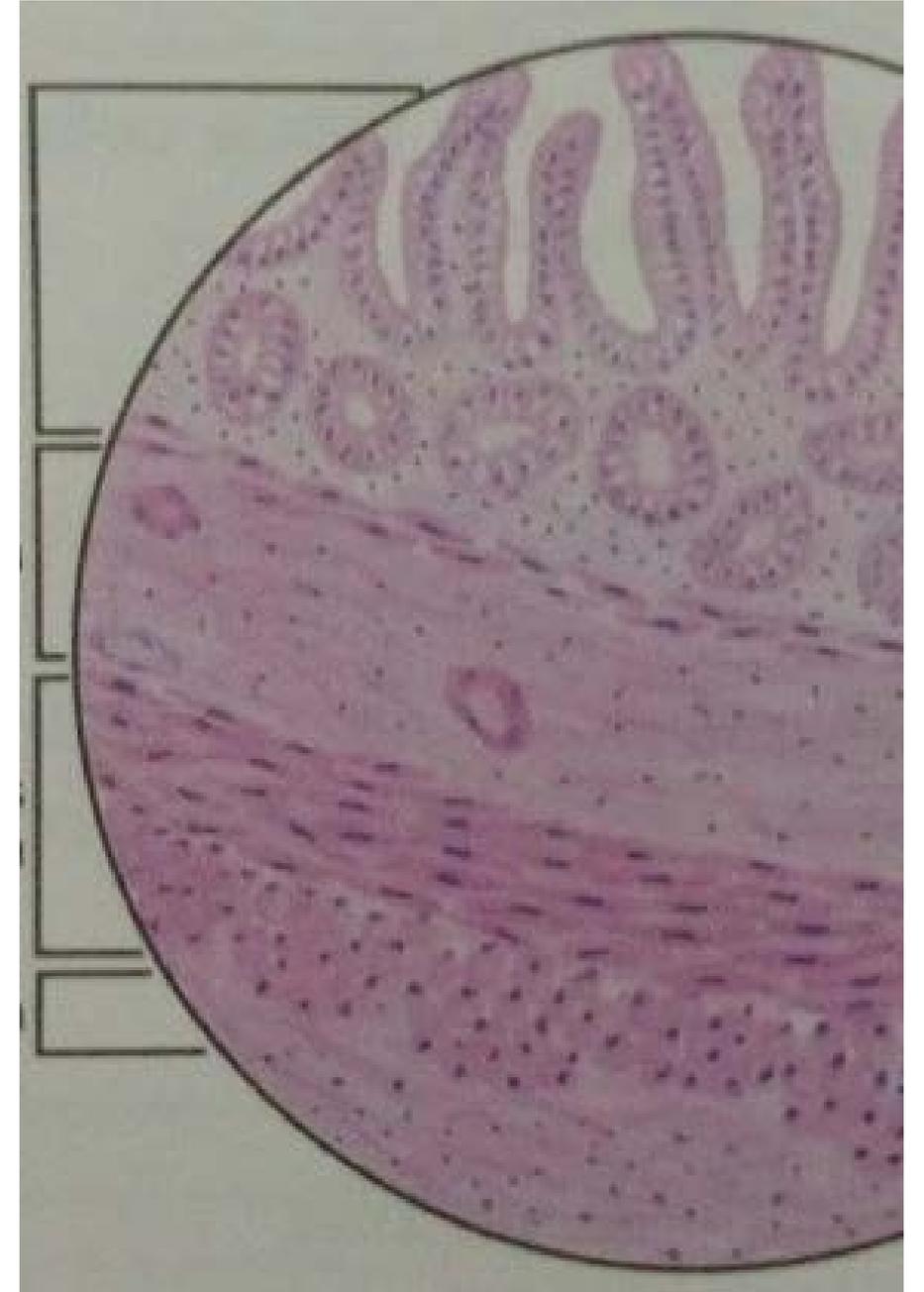
Identify  
the  
structure.



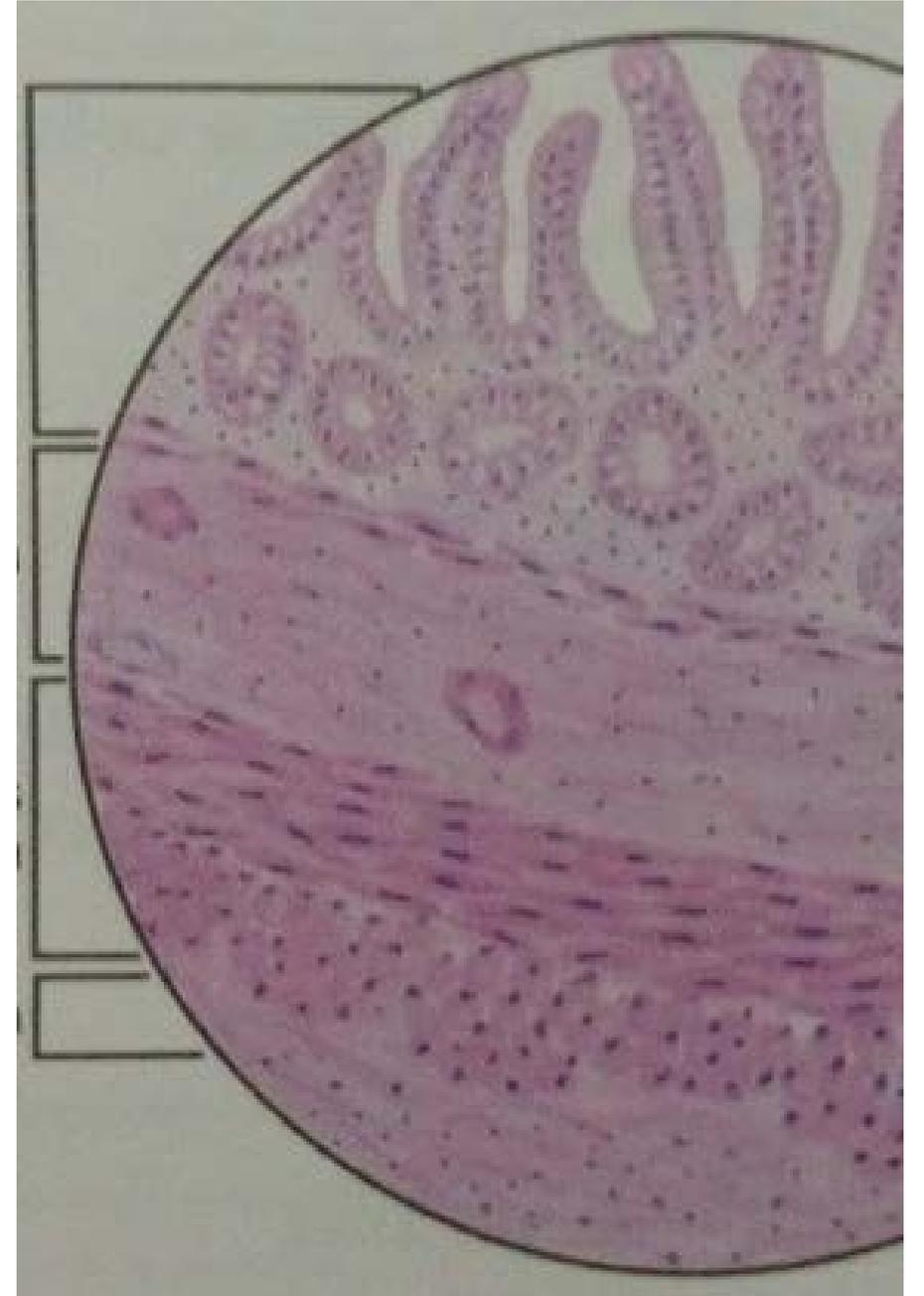
Identify  
the  
structure.



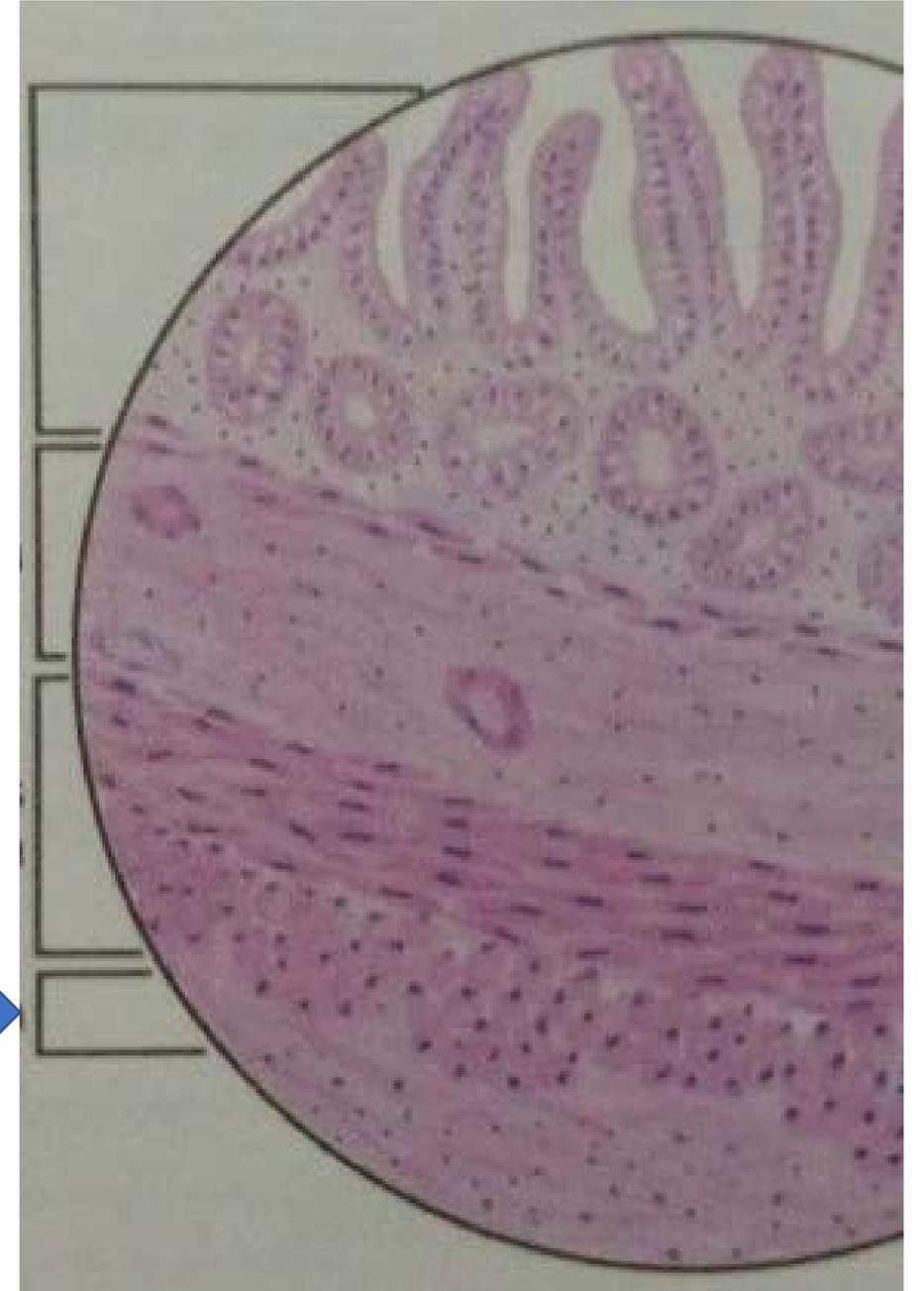
Identify  
the  
structure.



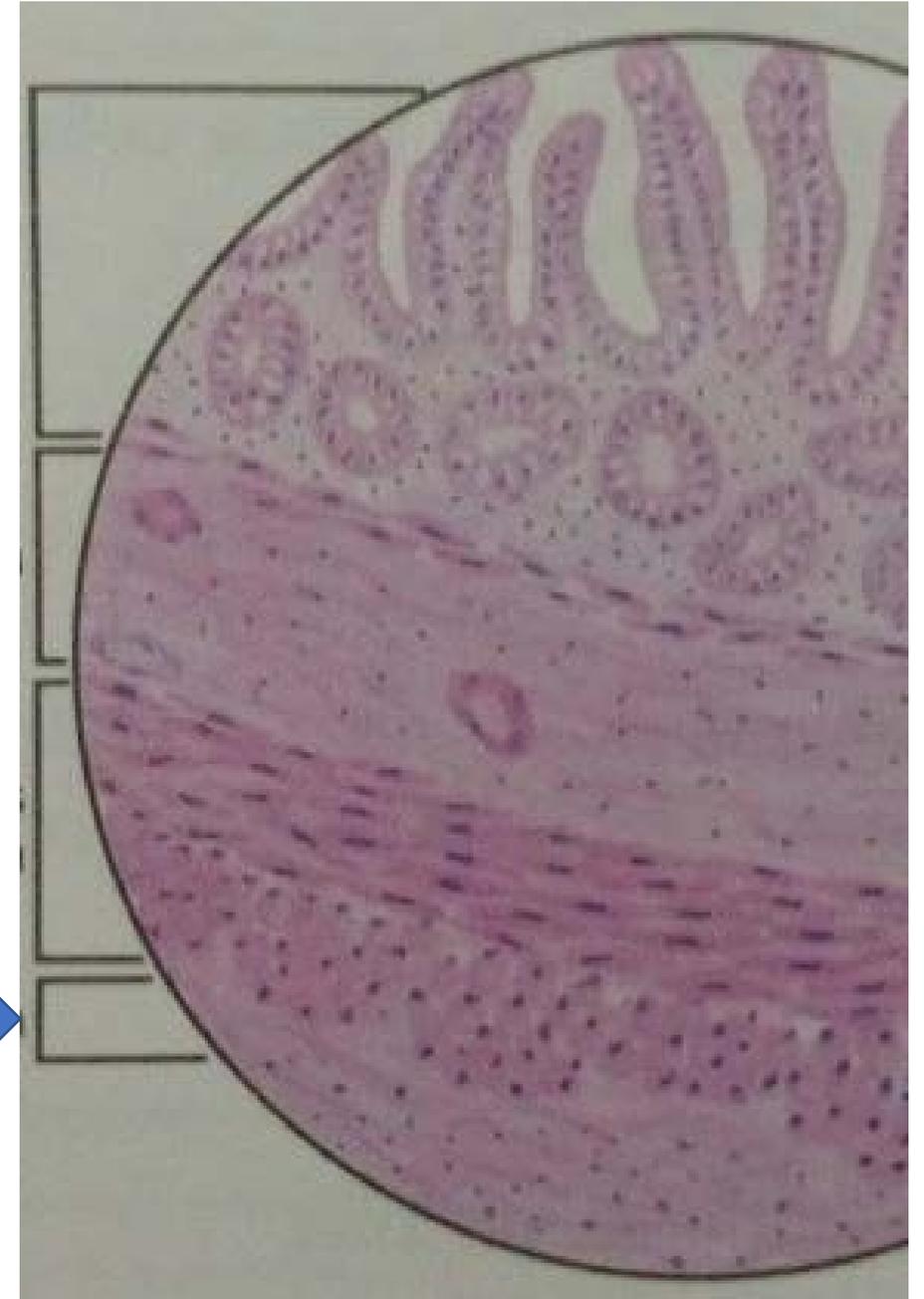
Identify  
the  
structure.



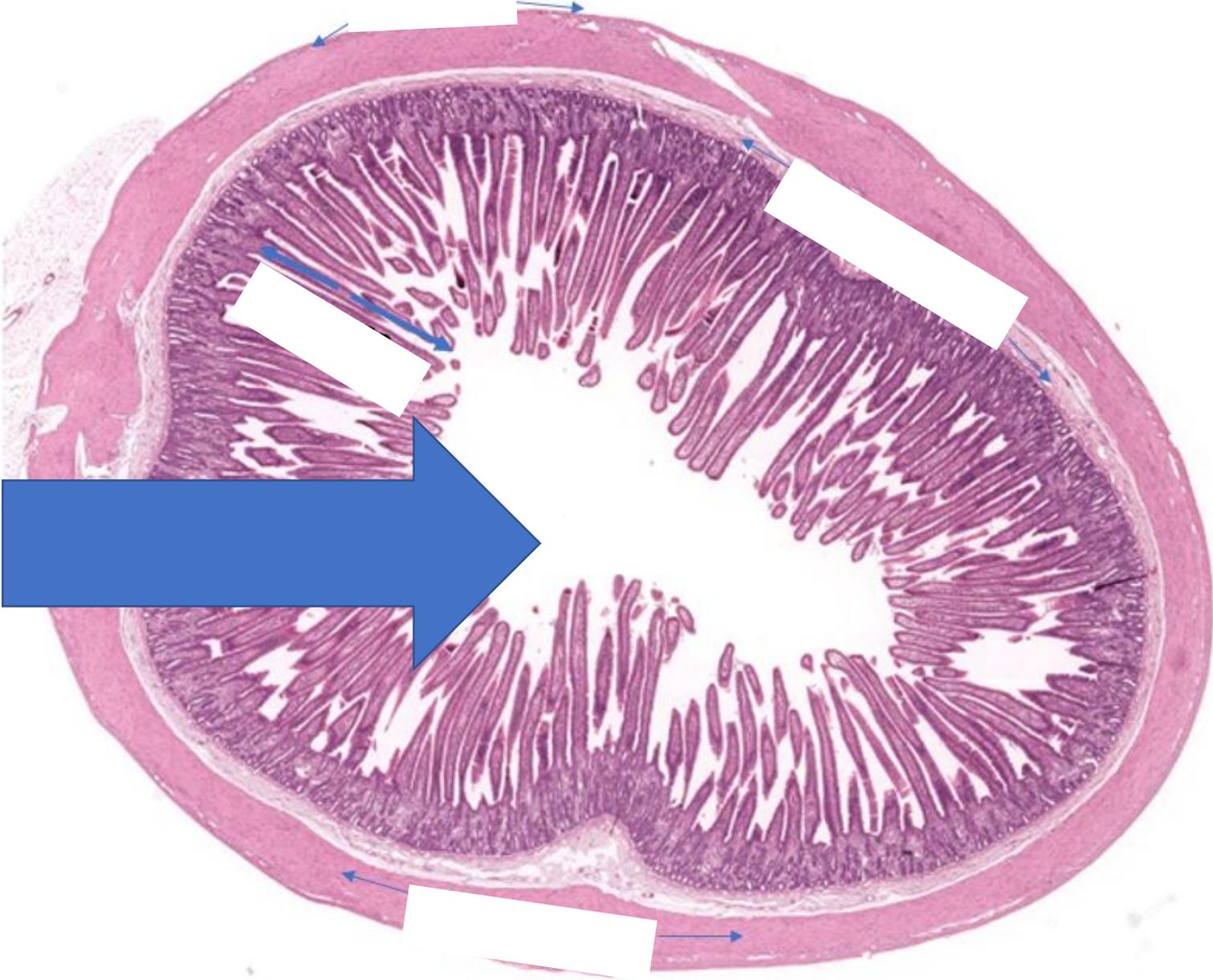
Identify  
the  
structure.



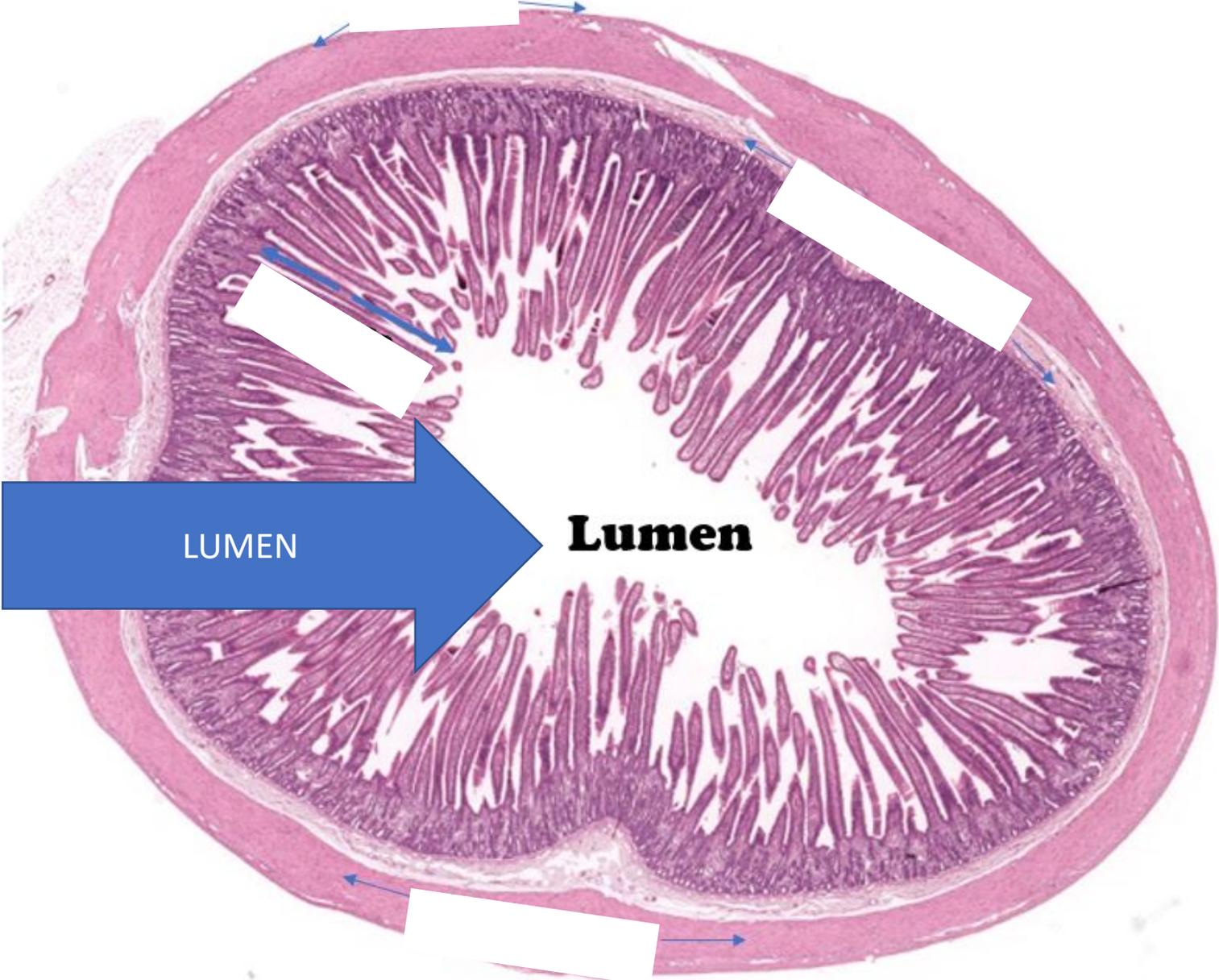
Identify  
the  
structure.



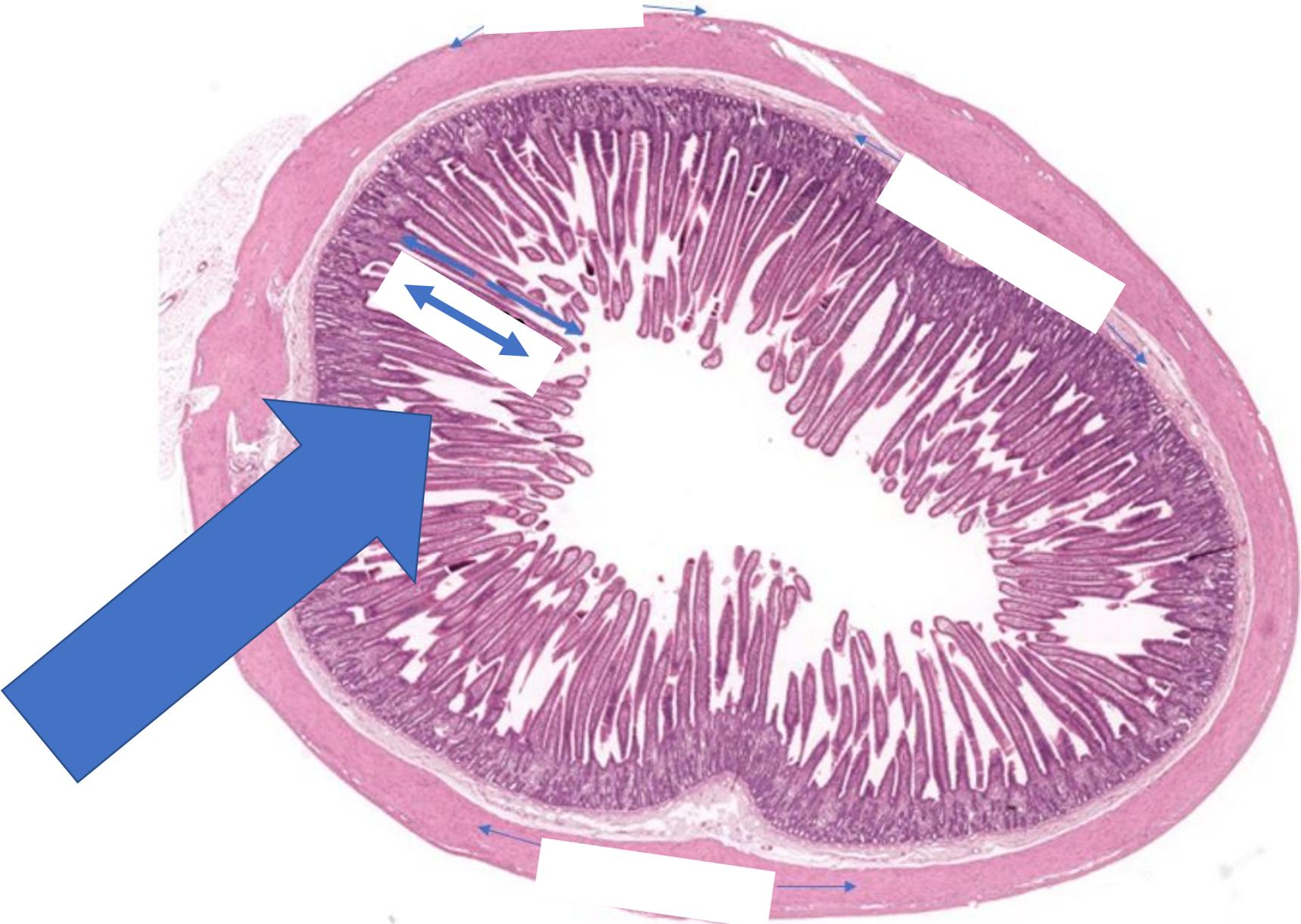
Identify  
the  
structure.



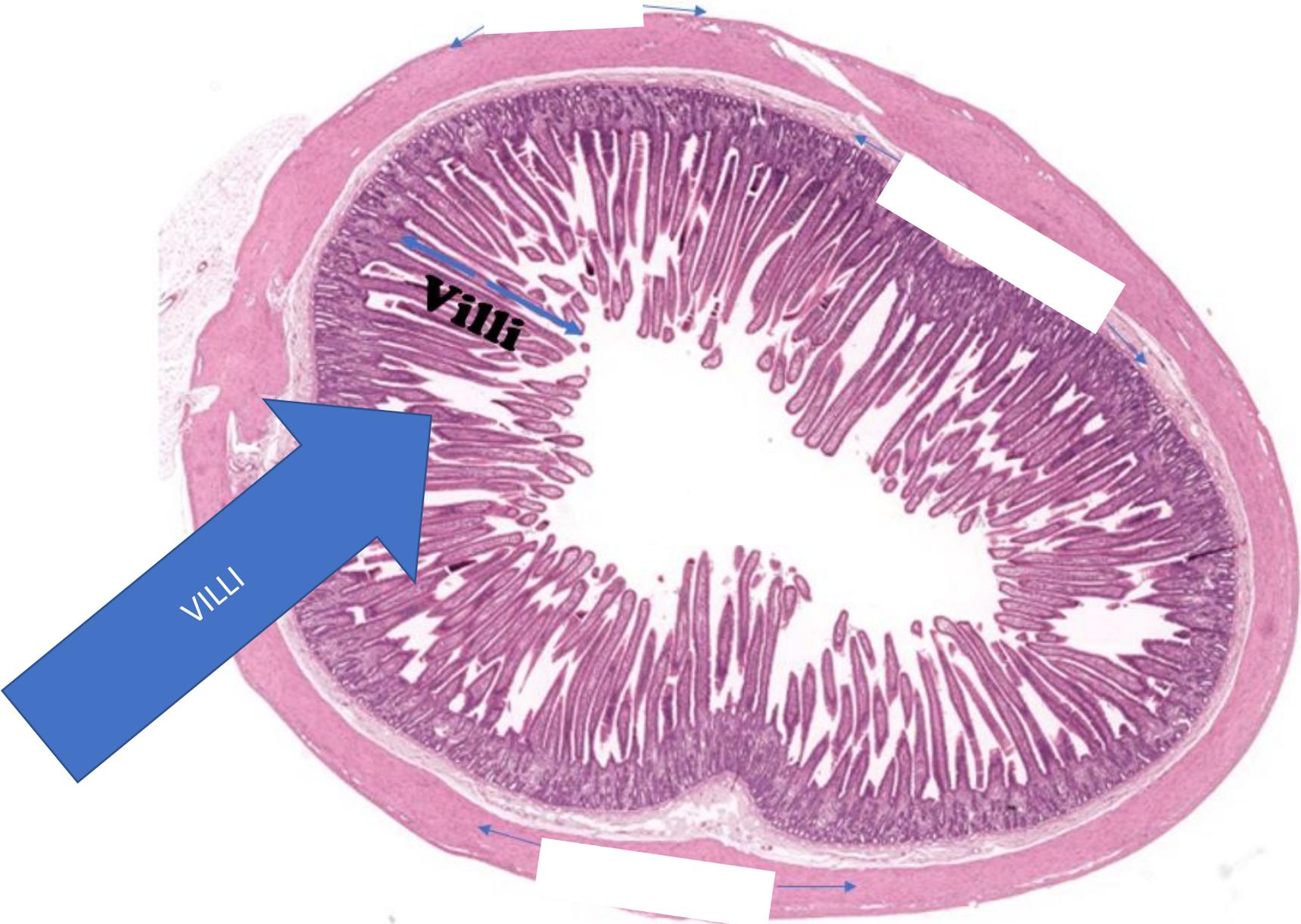
Identify  
the  
structure.



Identify  
the  
structure.



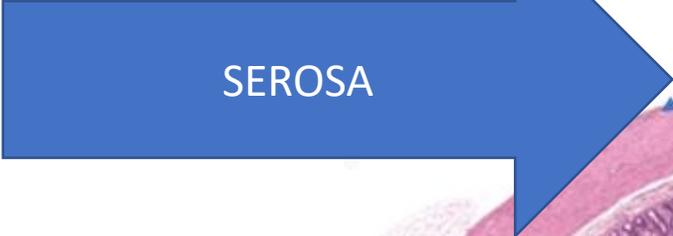
Identify  
the  
structure.



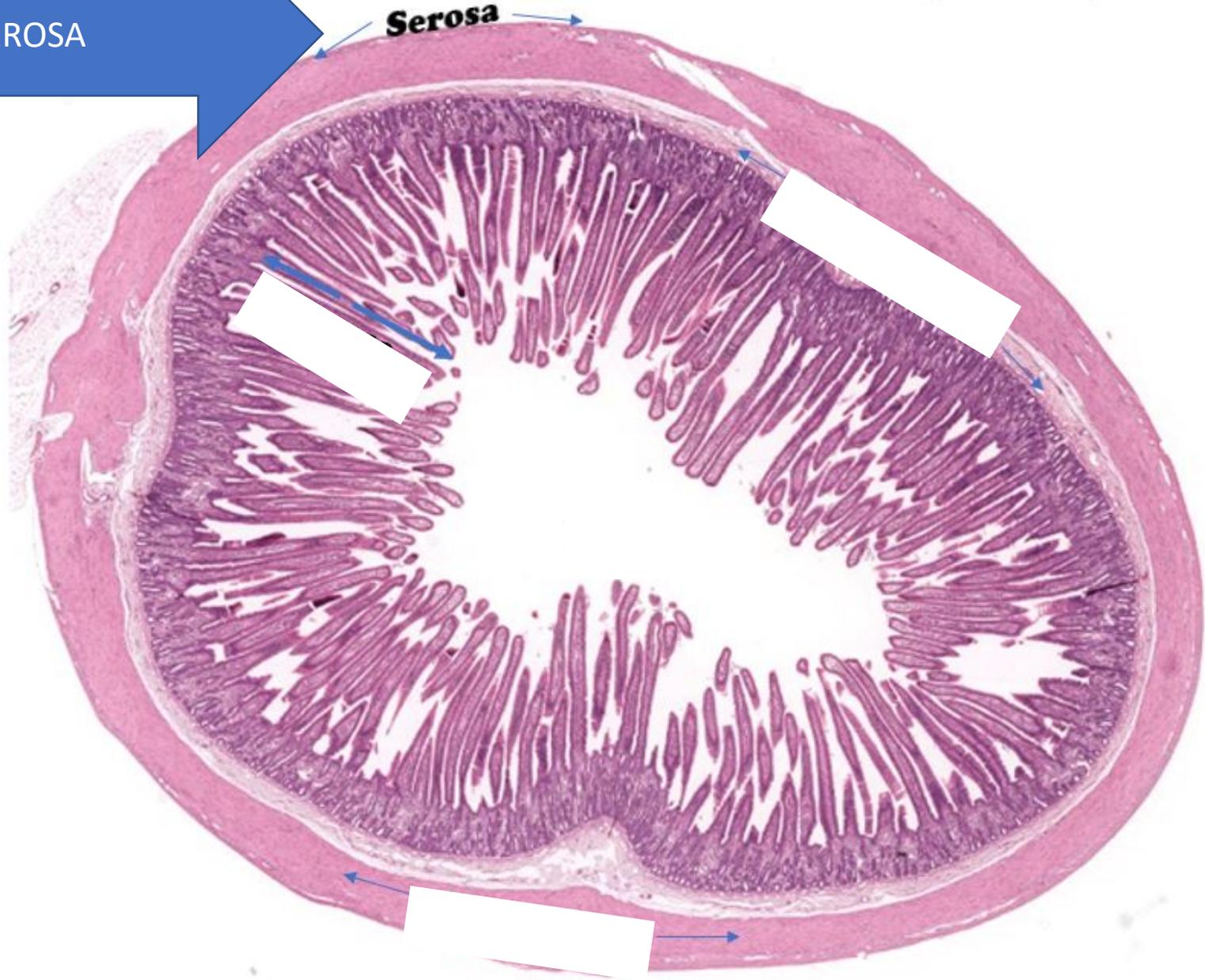
Identify  
the  
structure.



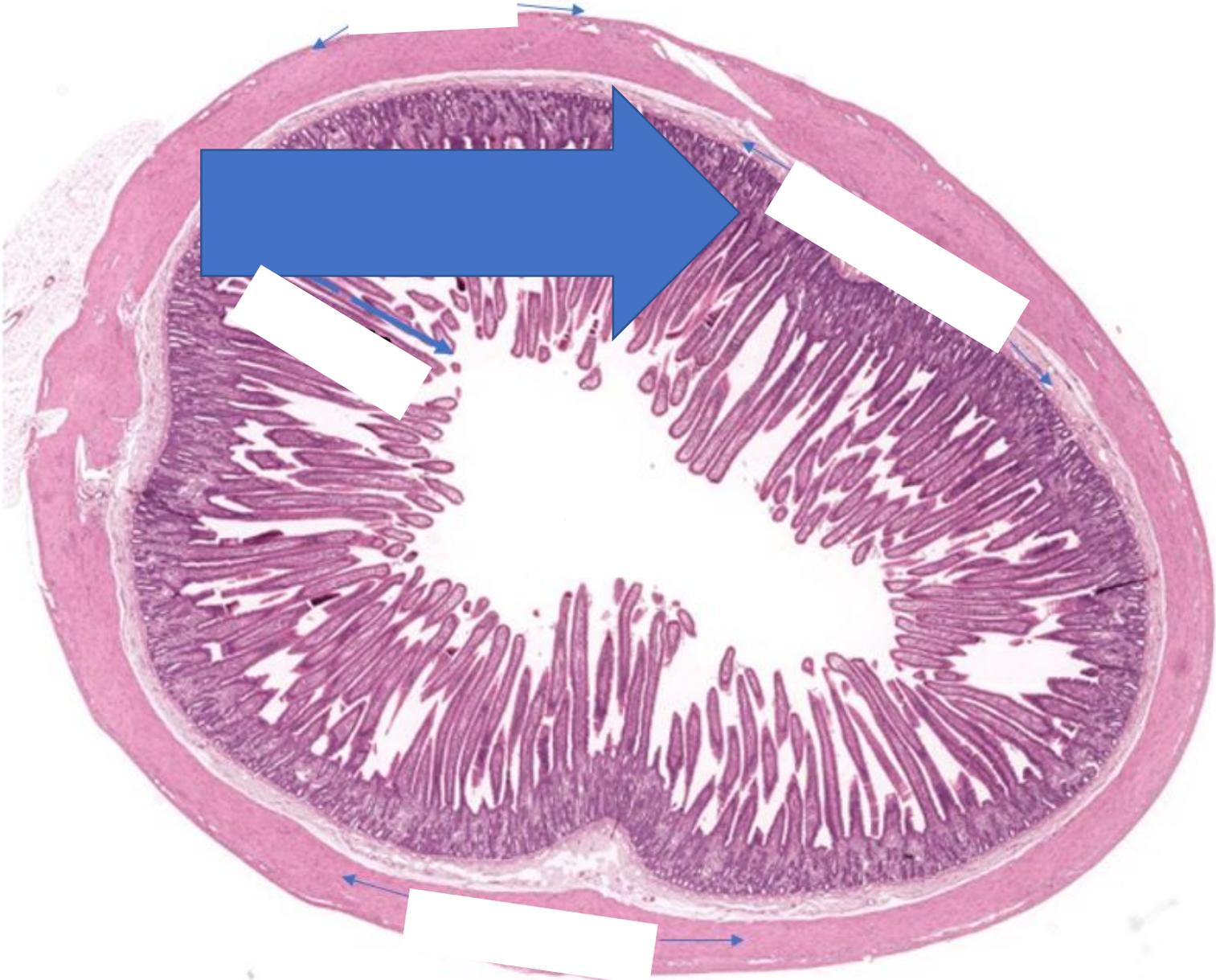
Identify  
the  
structure.



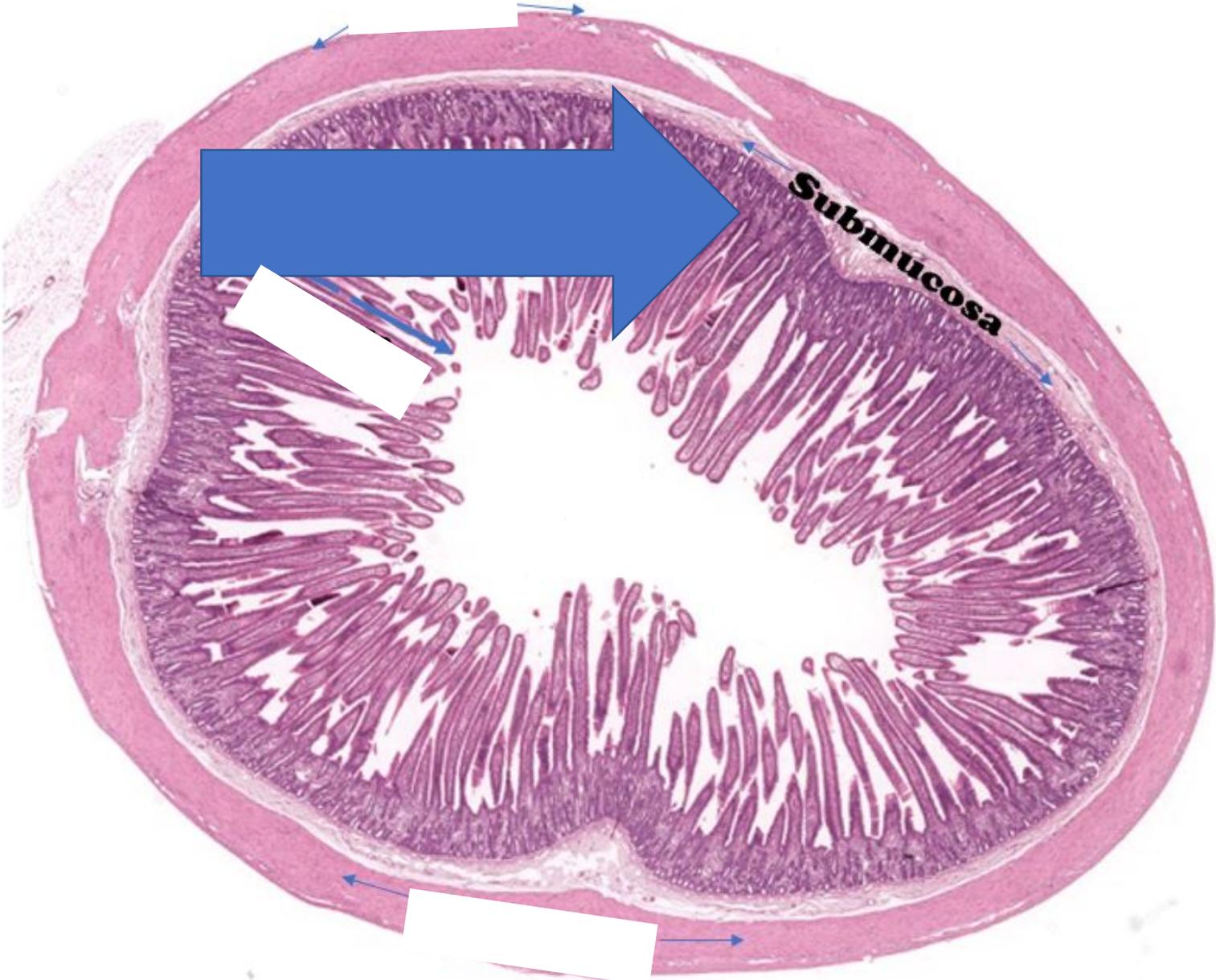
SEROSA



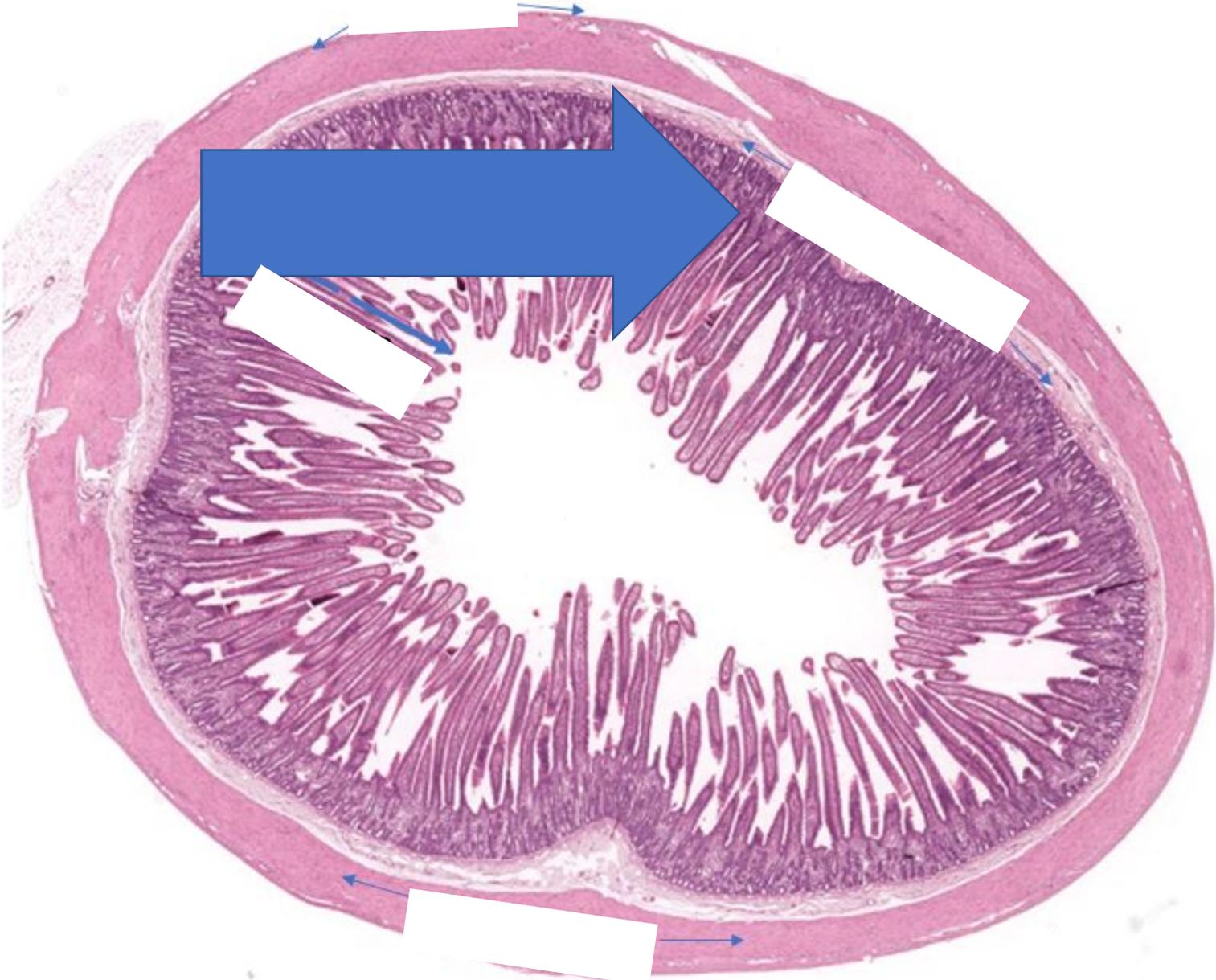
Identify  
the  
structure.



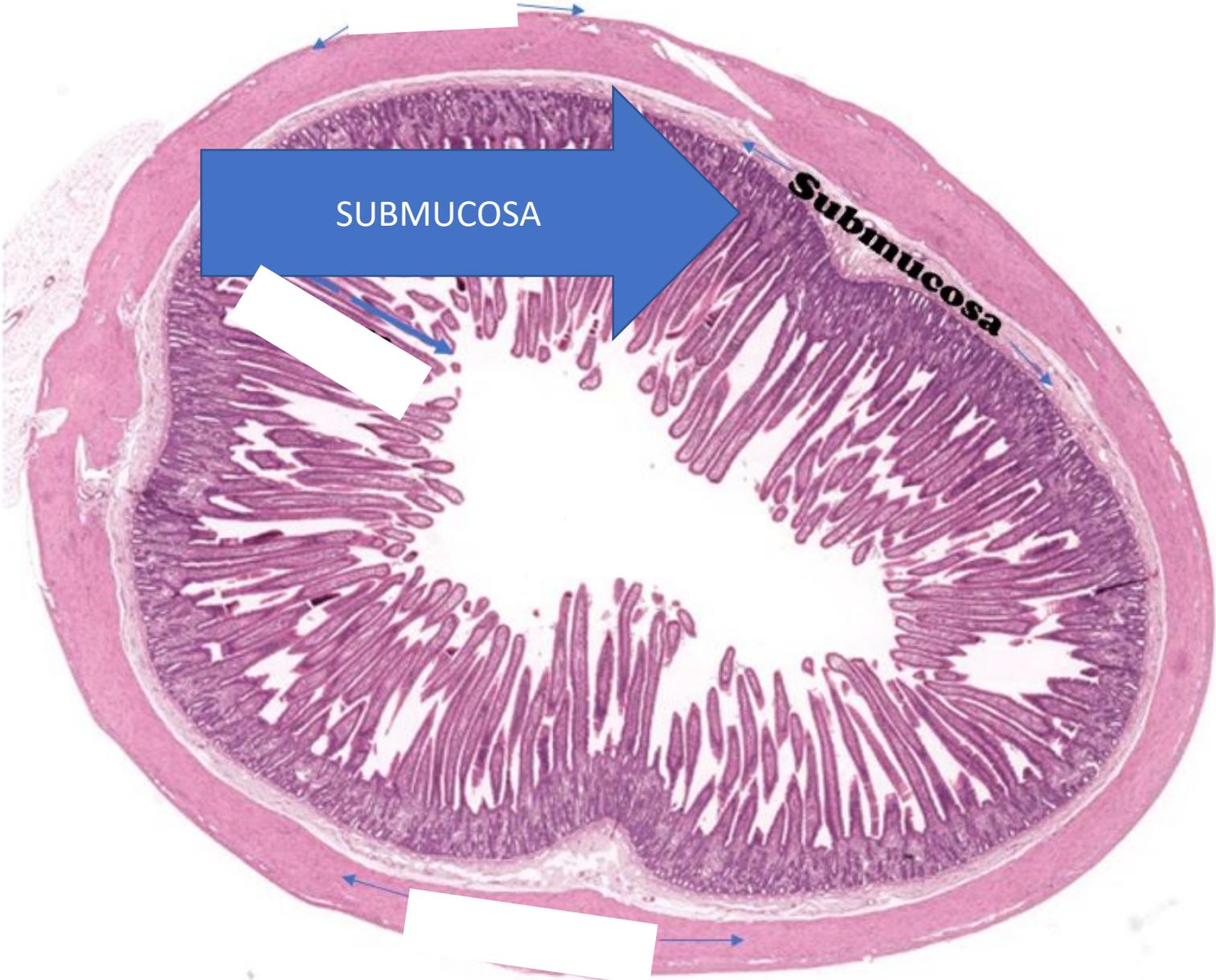
Identify  
the  
structure.



Identify  
the  
structure.



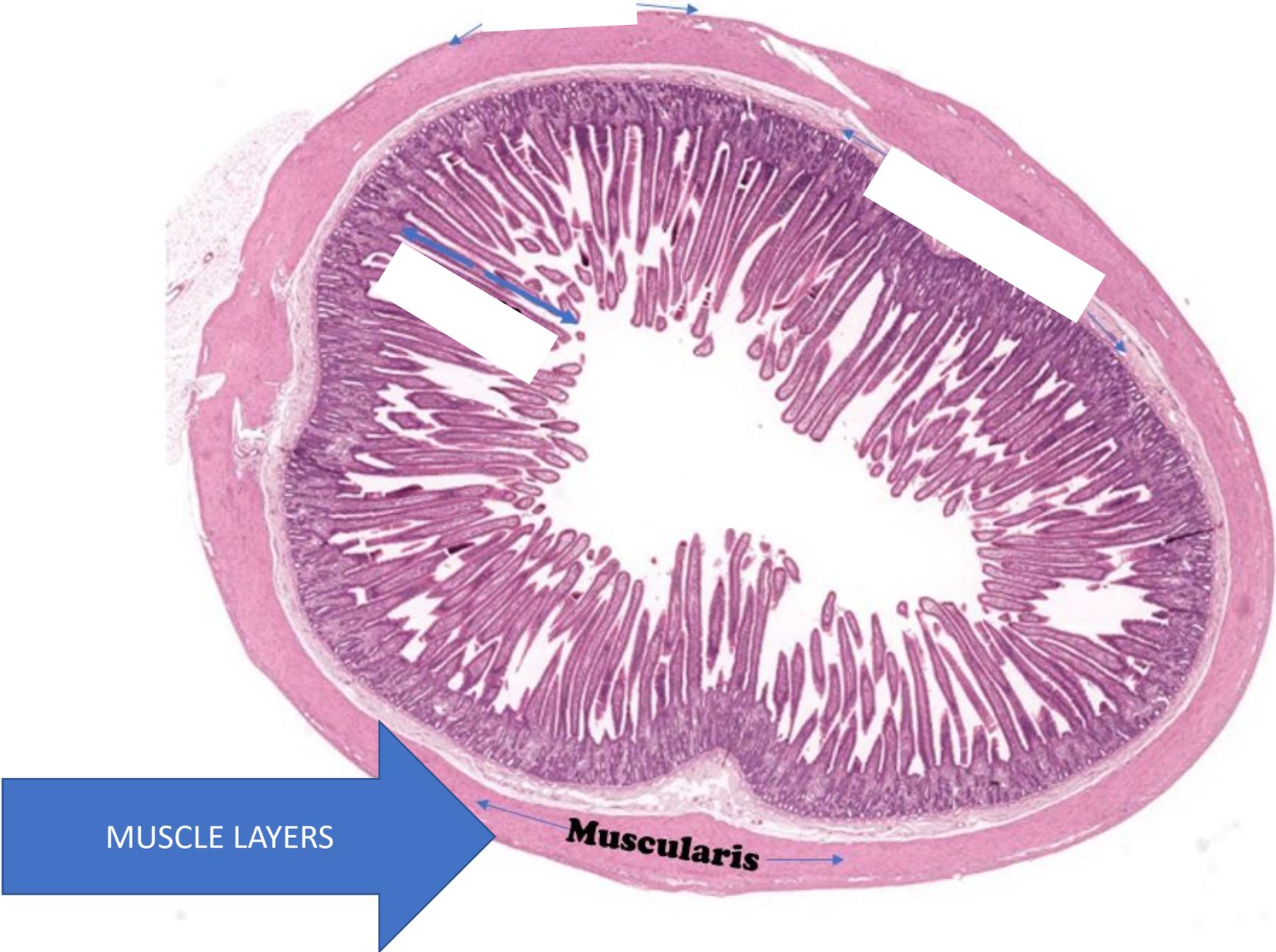
Identify  
the  
structure.



Identify  
the  
structure.

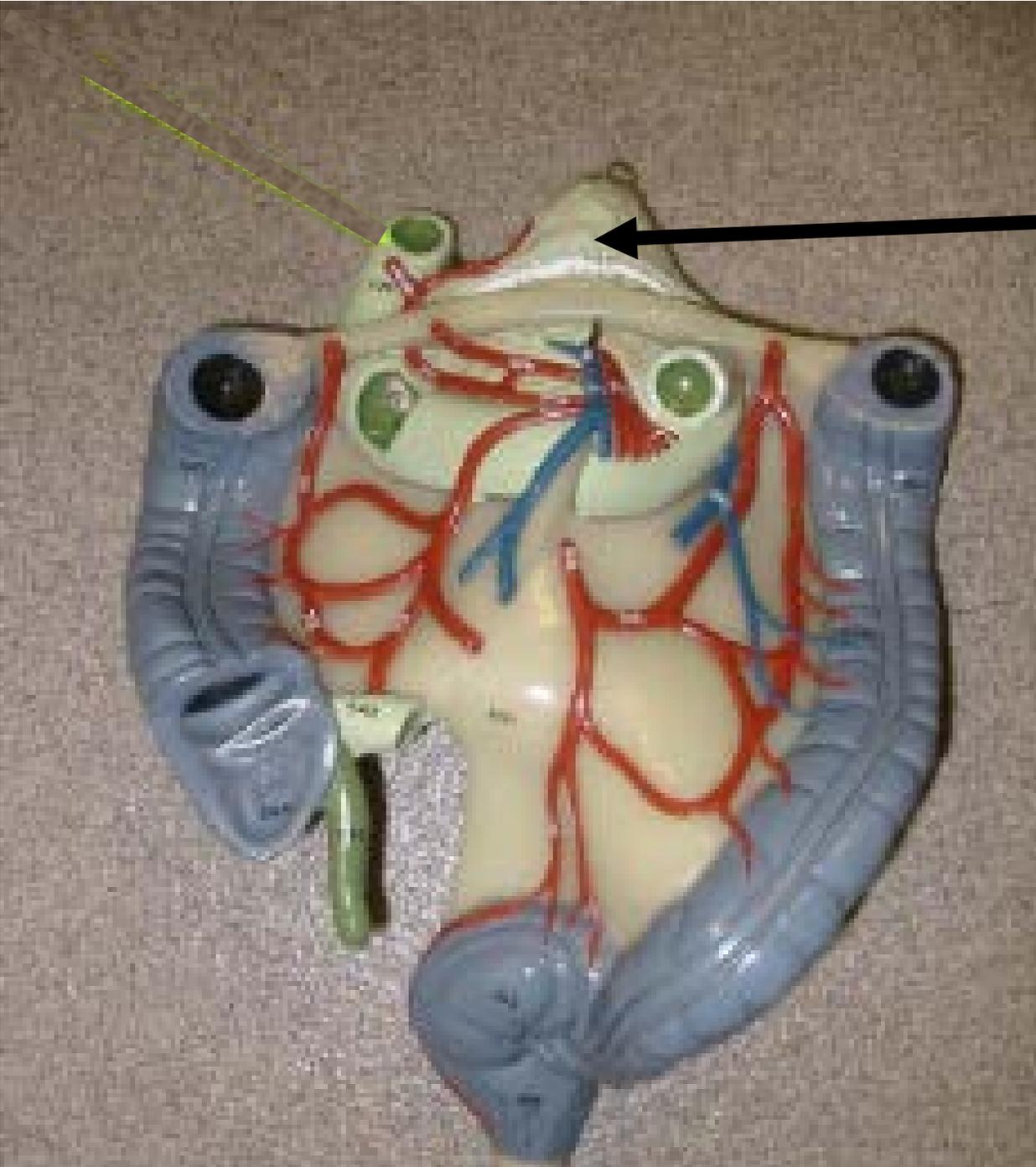


Identify  
the  
structure.



# Pancreas

The pancreas is not part of the alimentary canal, but it makes pancreatic juice that has digestive enzymes needed to break down food. The pancreatic duct carries the pancreatic juice to the duodenum.



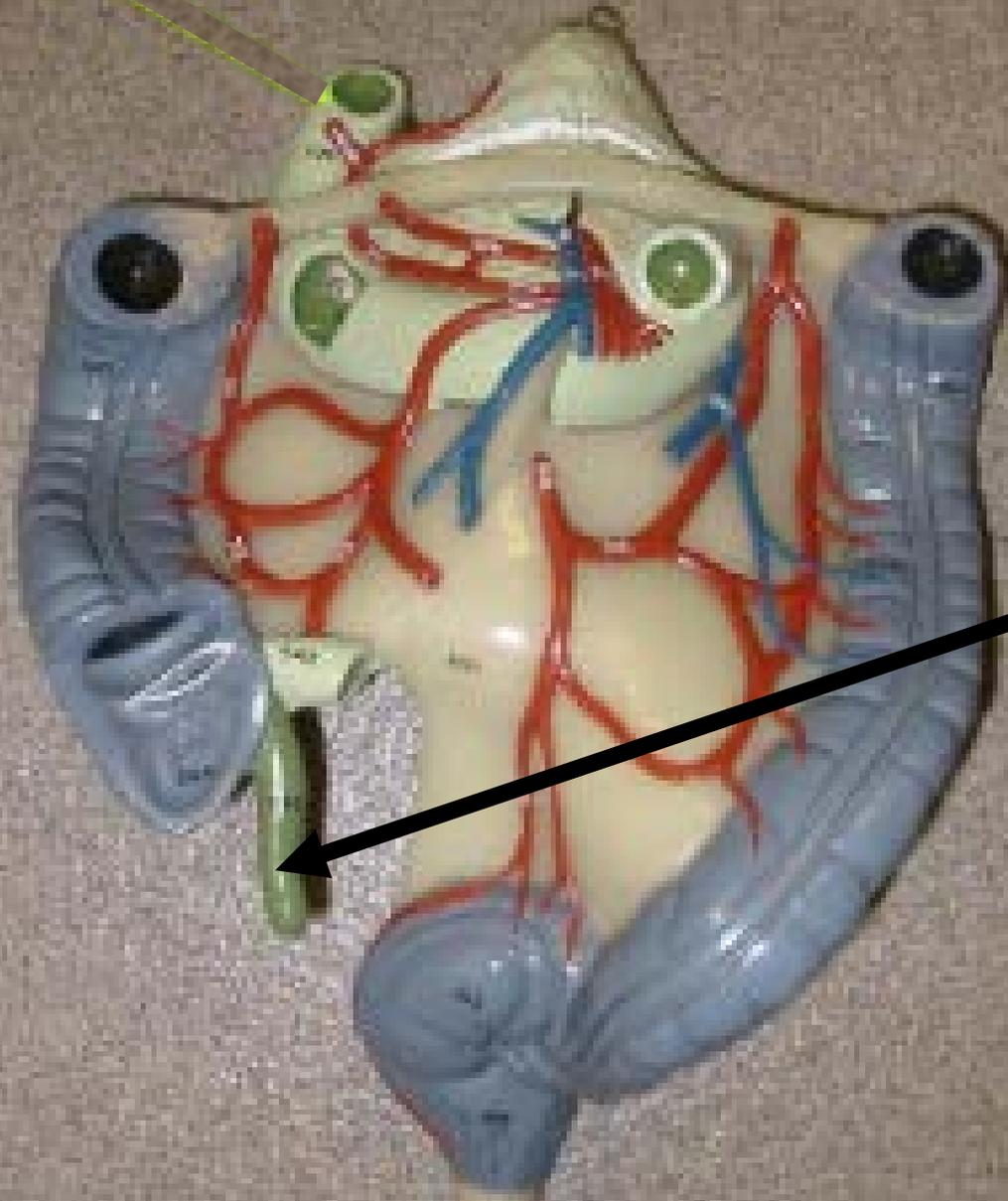
Identify the  
Structure.



Cecum



Identify the  
Structure.



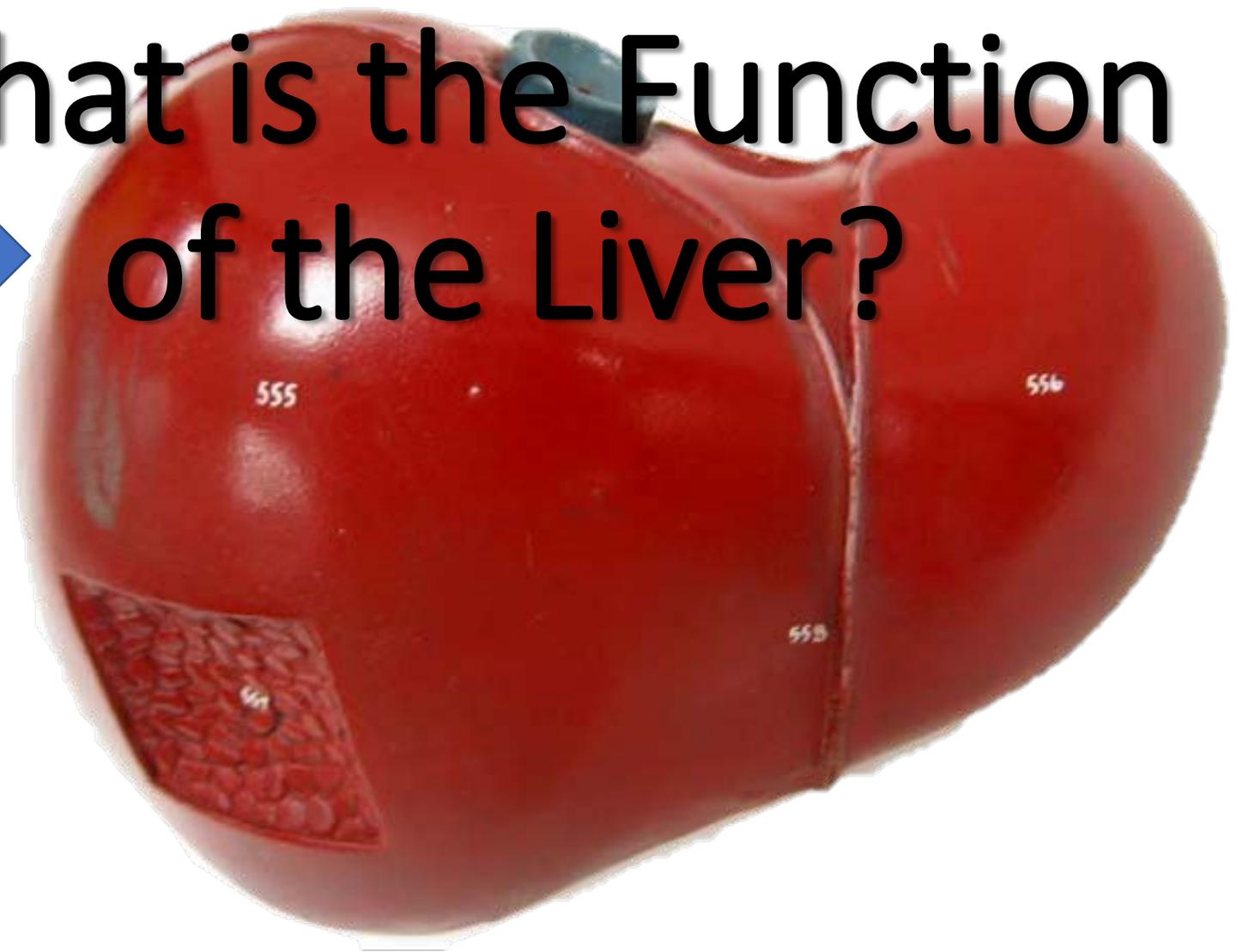
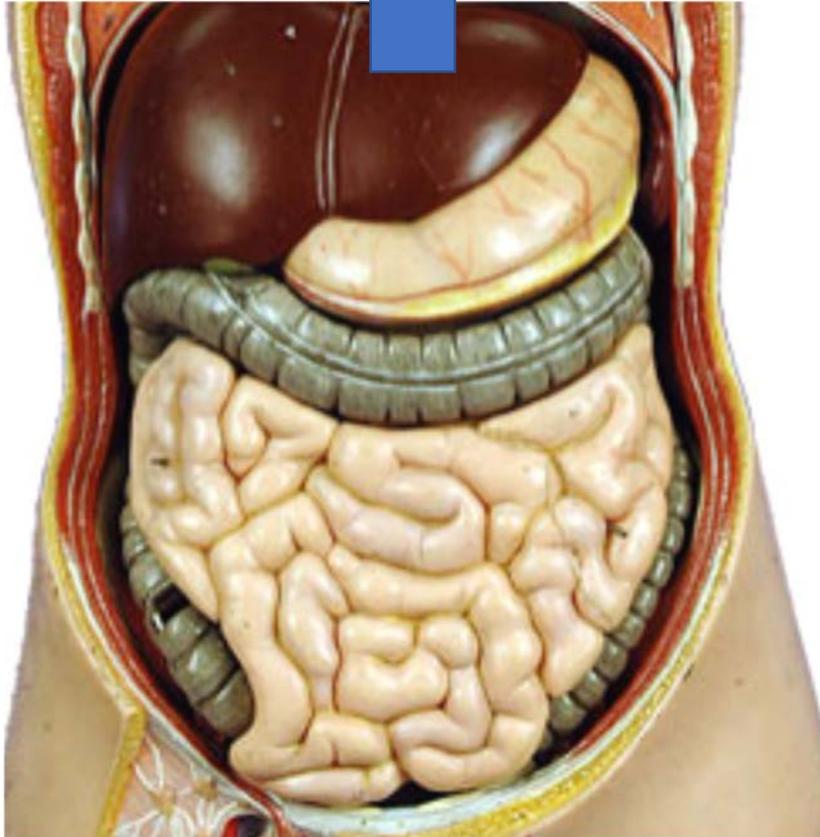
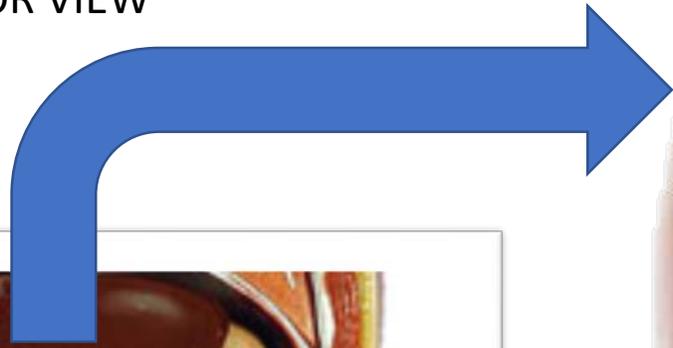


# Appendix

Has immune function to house and release lymphocytes.

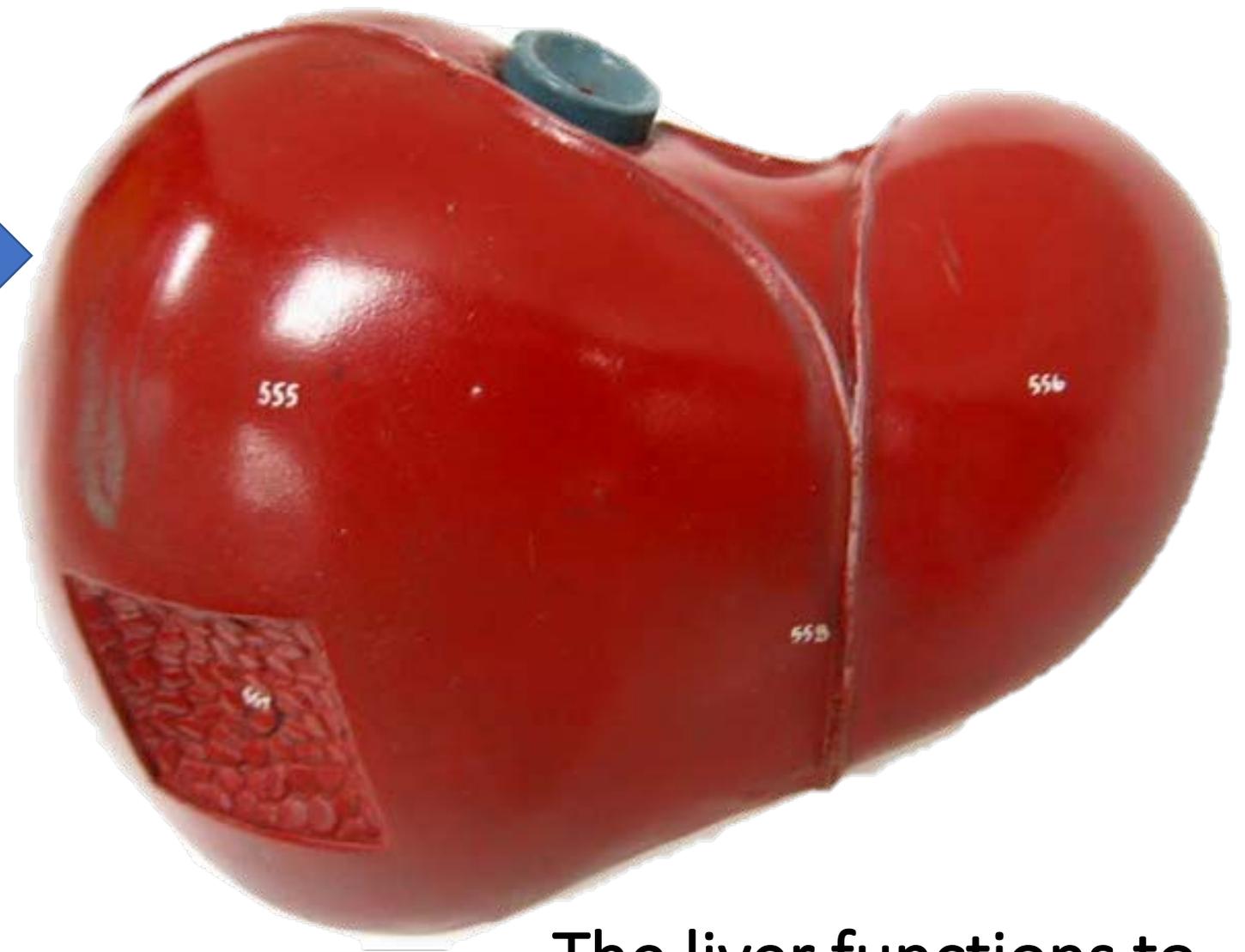
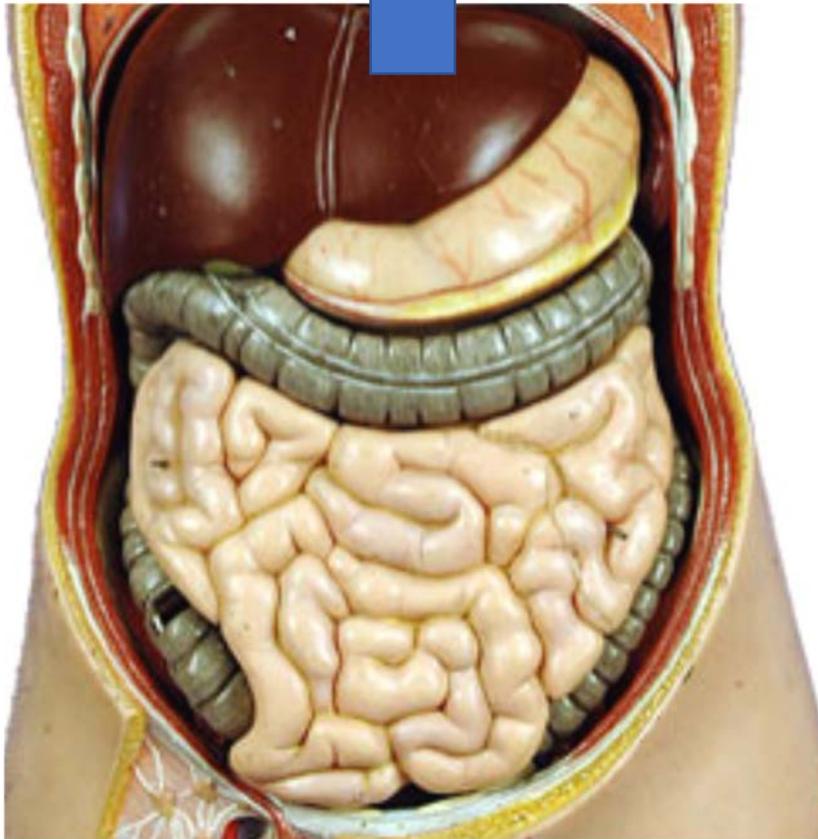
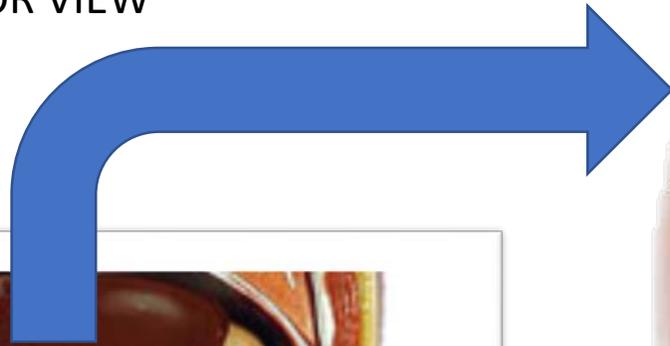
# What is the Function of the Liver?

- SUPERIOR VIEW



# LIVER

• SUPERIOR VIEW

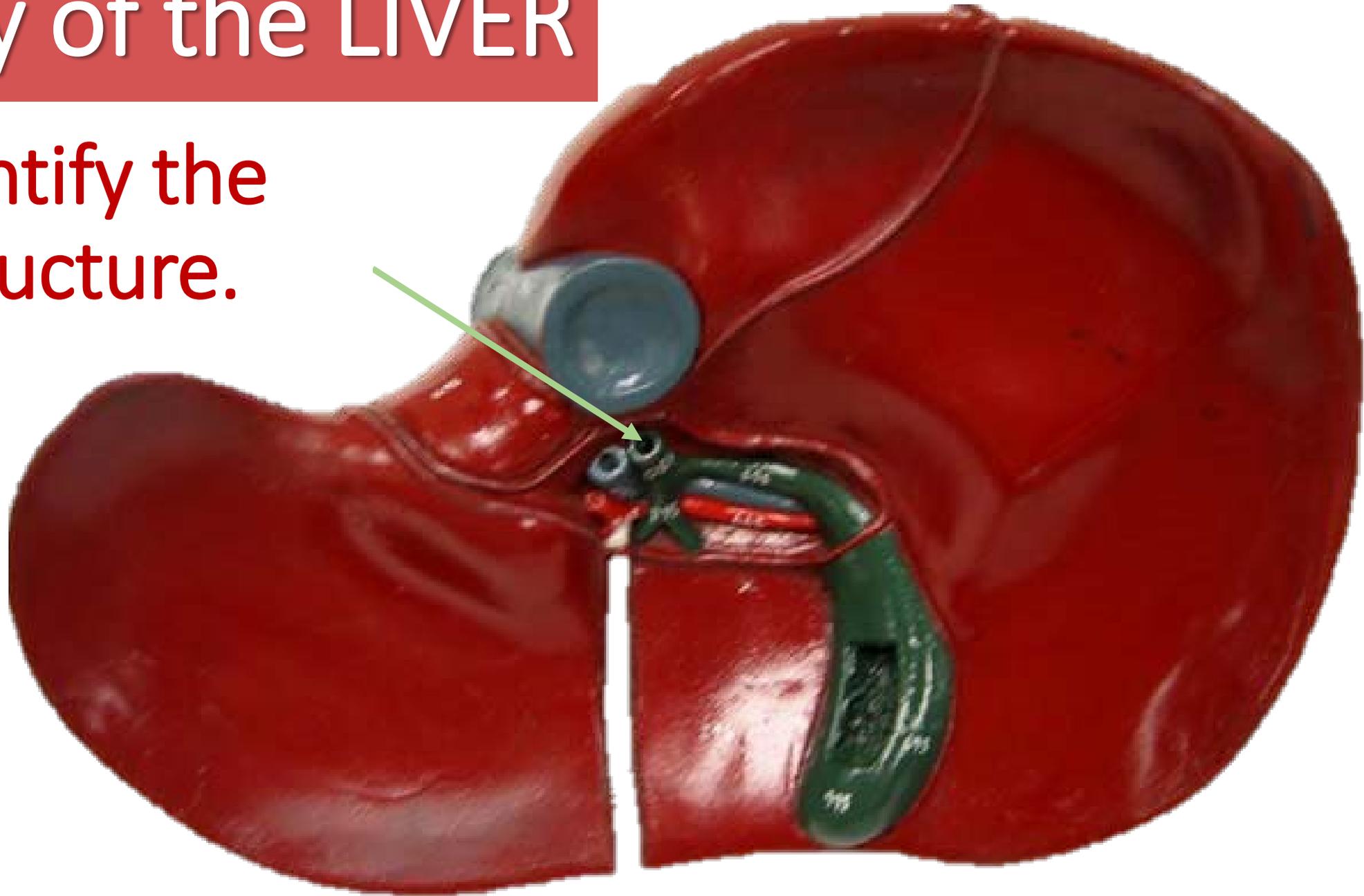


The liver functions to secrete the digestive enzyme bile, for aiding in the digestion of fats.

# Anatomy of the LIVER

• *INFERIOR VIEW*

Identify the  
Structure.

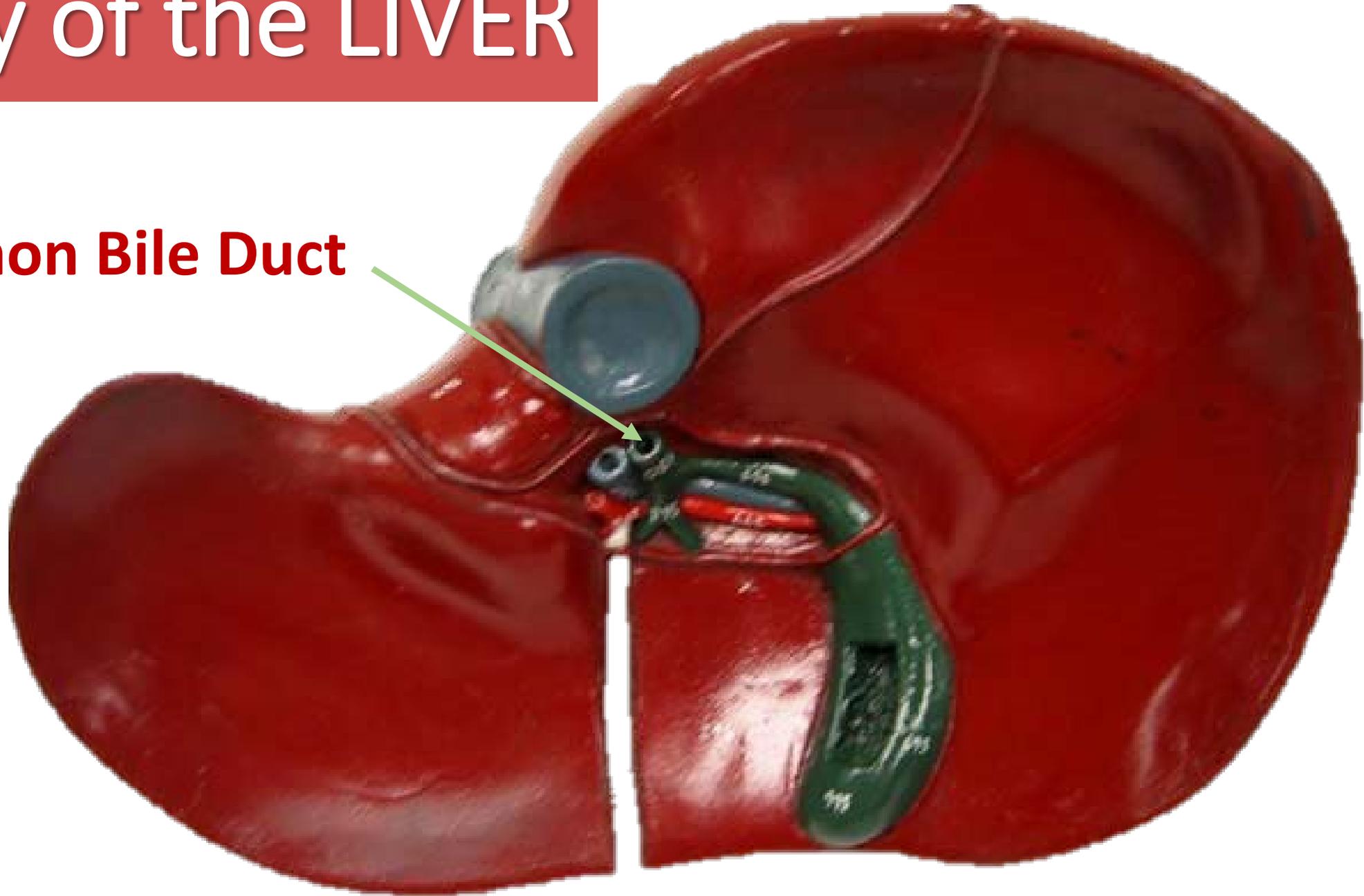


# Anatomy of the LIVER

• *INFERIOR VIEW*

## Common Bile Duct

The cystic duct (the duct of the gall bladder) and hepatic duct (the duct of the liver) combine to form the common bile duct. It functions to deliver bile to duodenum.



# Anatomy of the LIVER

• *INFERIOR VIEW*

Identify the  
Structure.

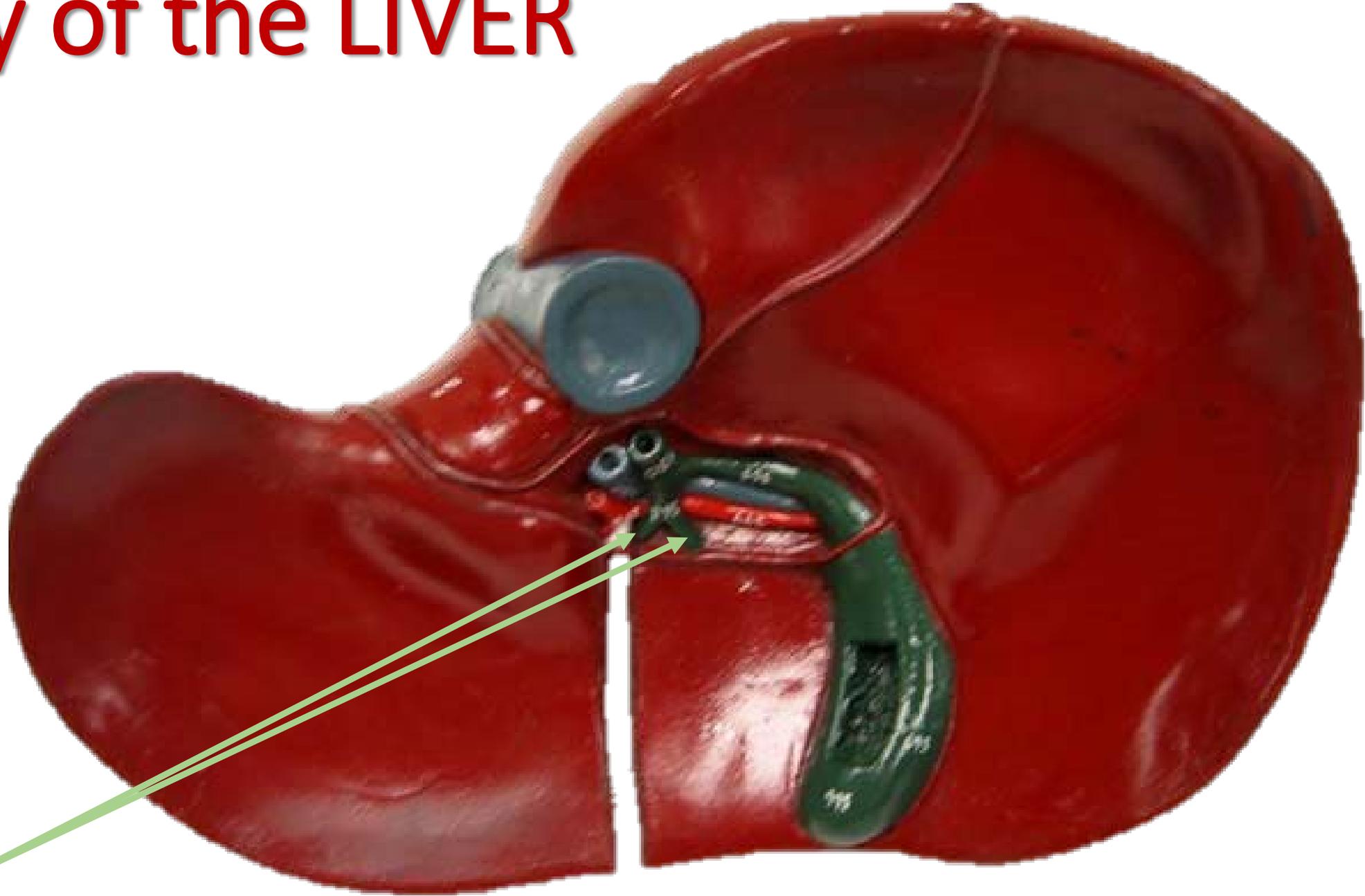


# Anatomy of the LIVER

• *INFERIOR VIEW*

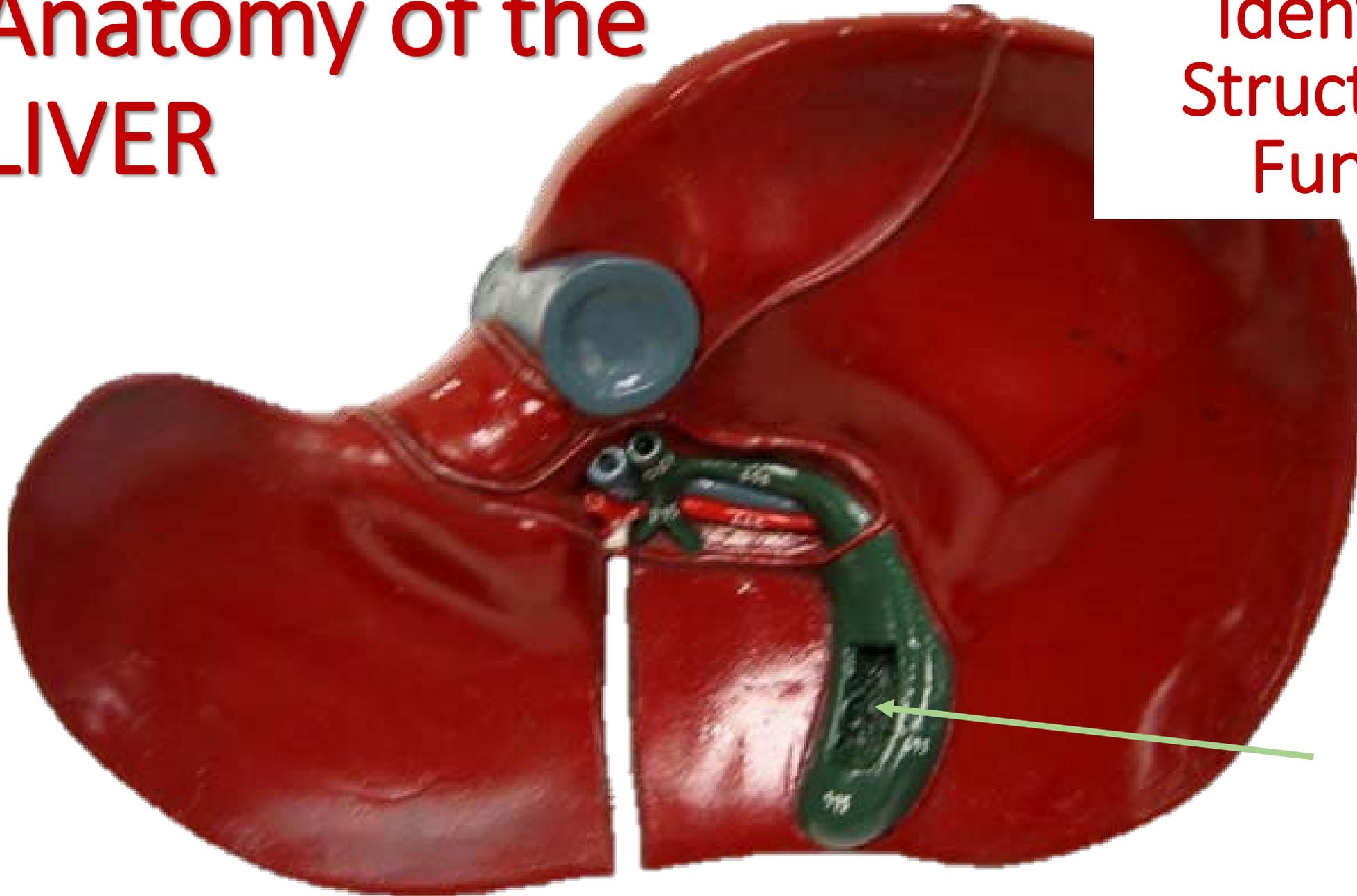
The cystic duct (the duct of the gall bladder) and hepatic duct (the duct of the liver) combine to form the common bile duct. It functions to deliver bile to duodenum.

**Hepatic  
Ducts**



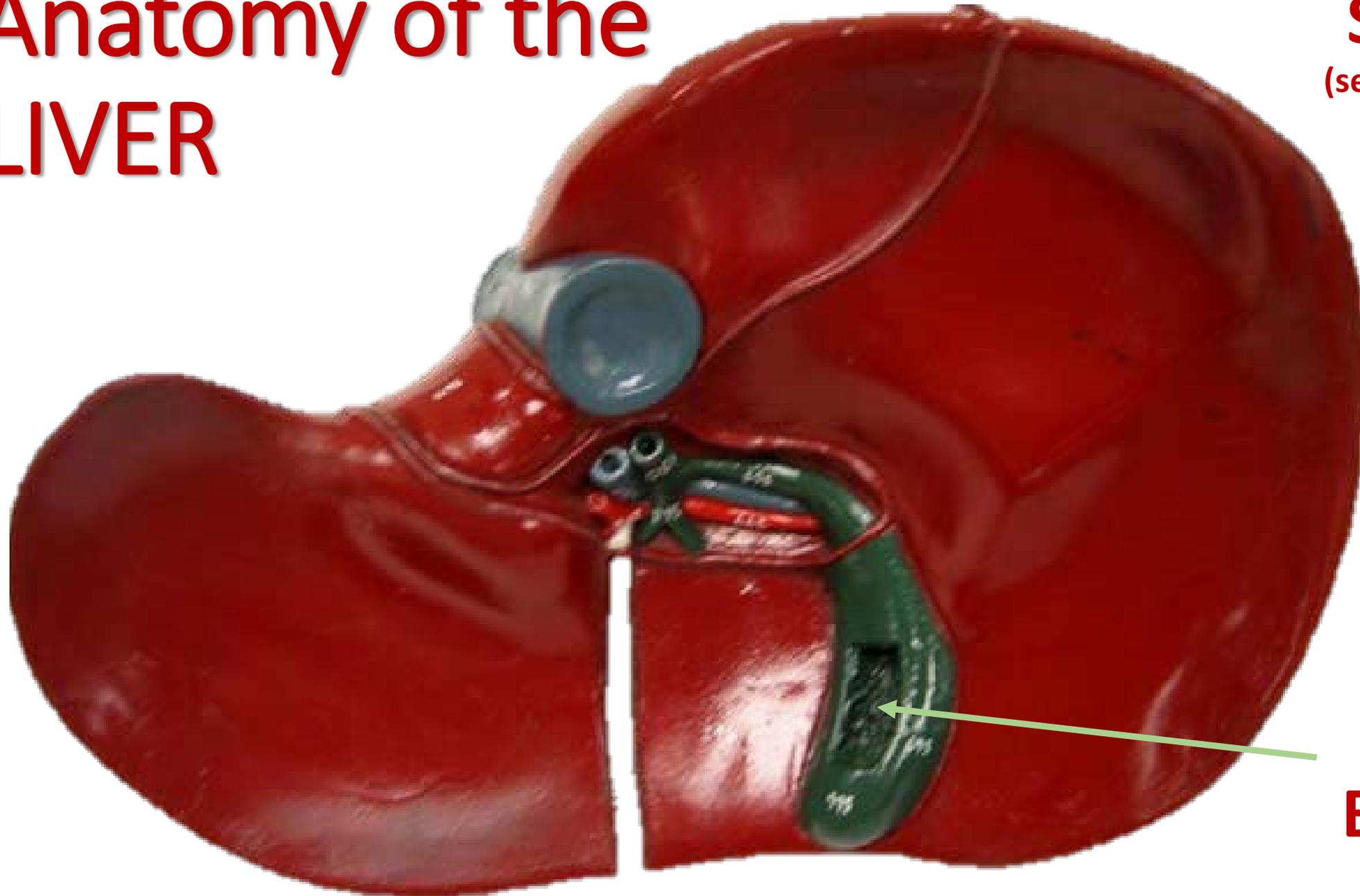
# Anatomy of the LIVER

Identify the  
Structure and  
Function.



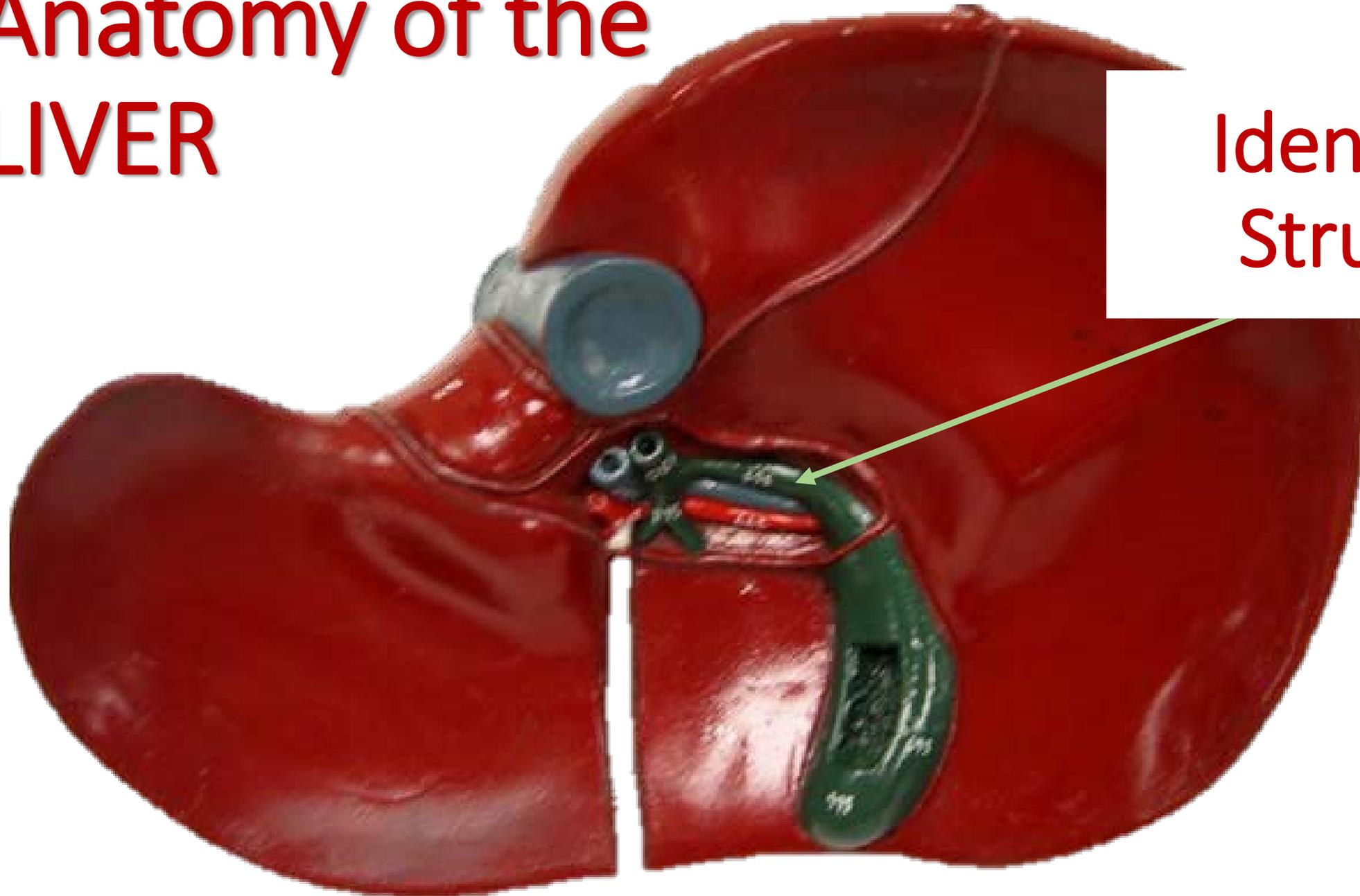
# Anatomy of the LIVER

**Stores bile**  
(sends it to duodenum).



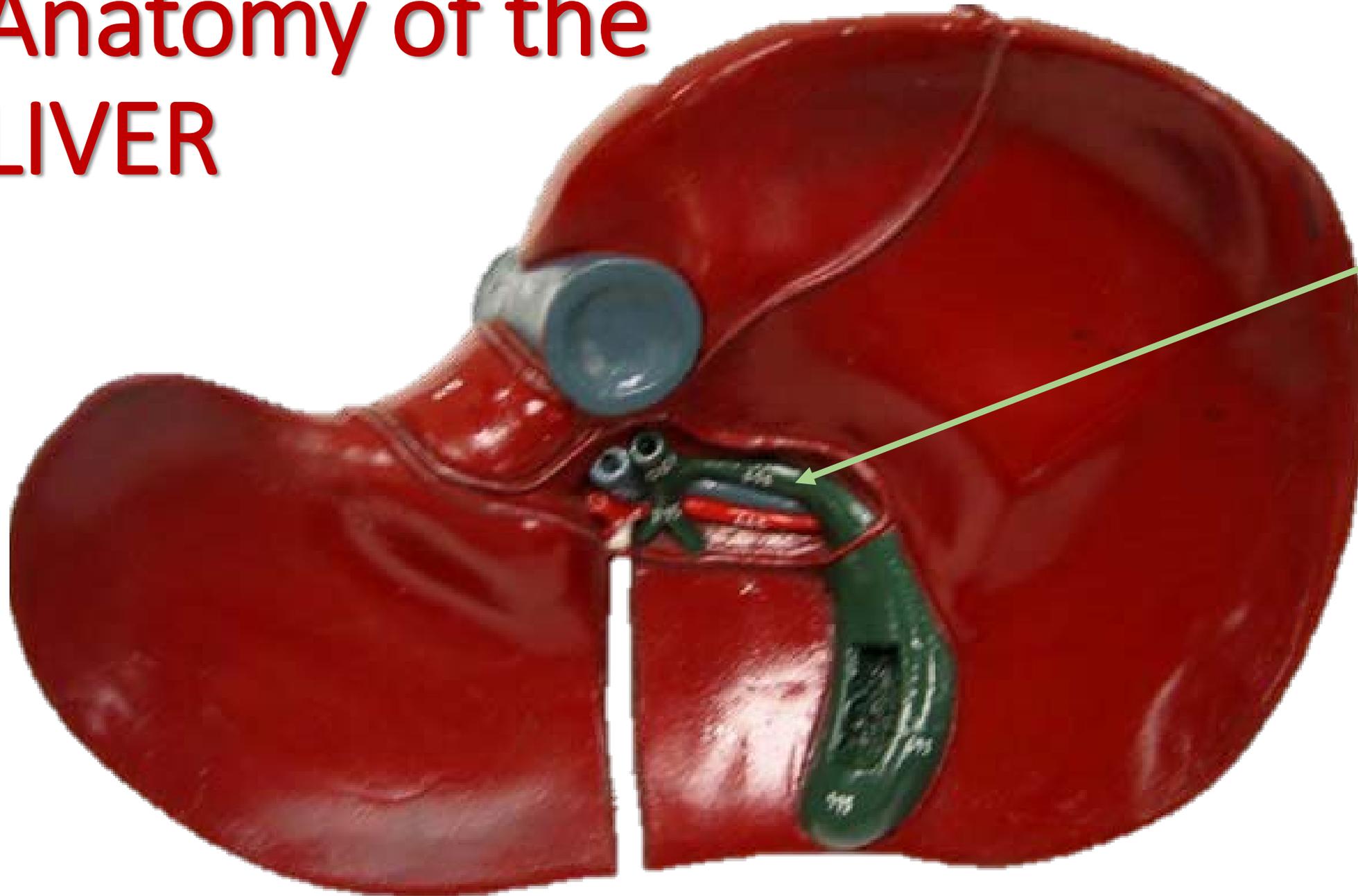
**Gall  
Bladder**

# Anatomy of the LIVER



Identify the  
Structure.

# Anatomy of the LIVER



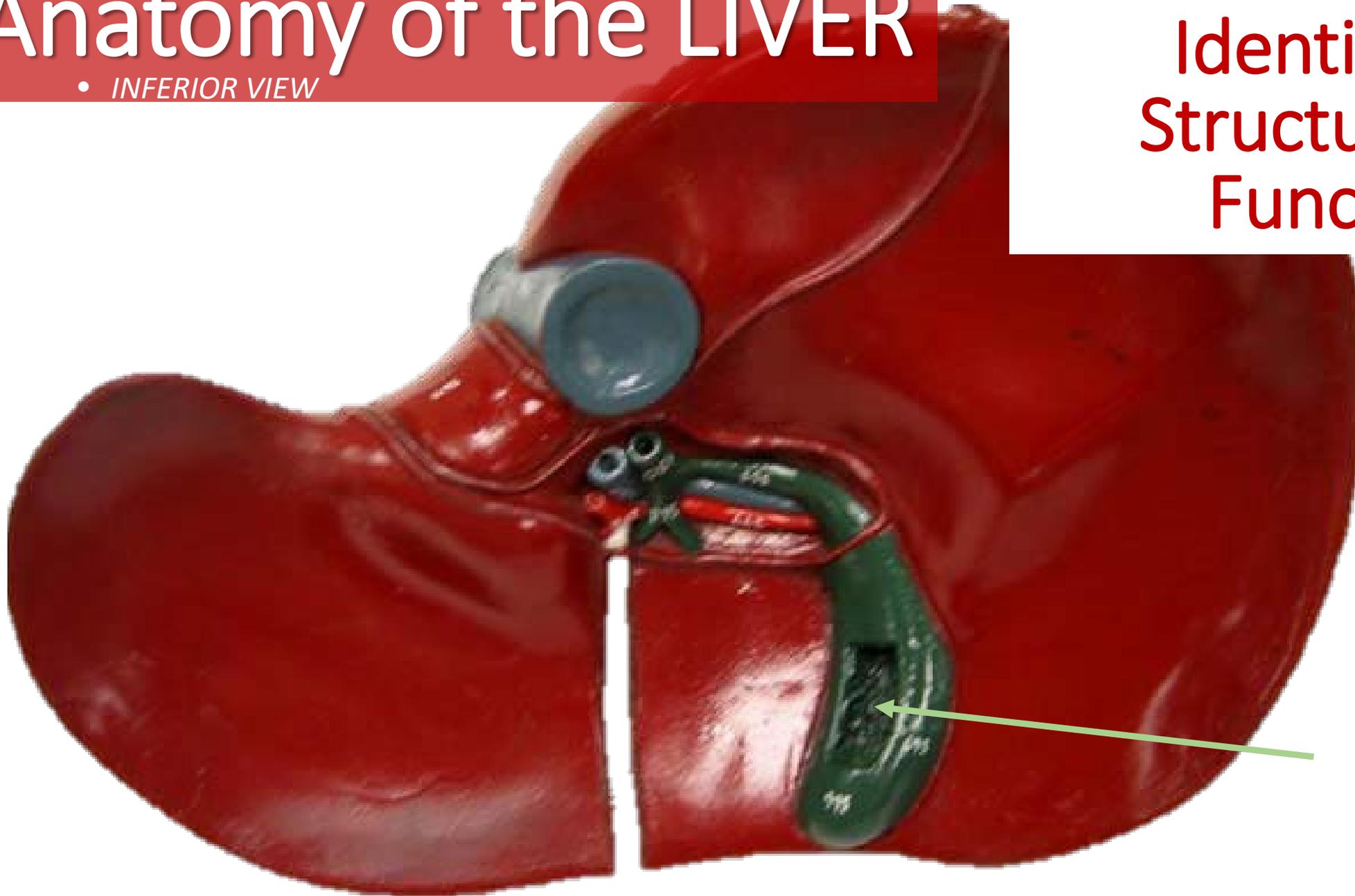
**Cystic  
Duct**

The cystic duct (the duct of the gall bladder) and hepatic duct (the duct of the liver) combine to form the common bile duct. It functions to deliver bile to duodenum.

# Anatomy of the LIVER

• *INFERIOR VIEW*

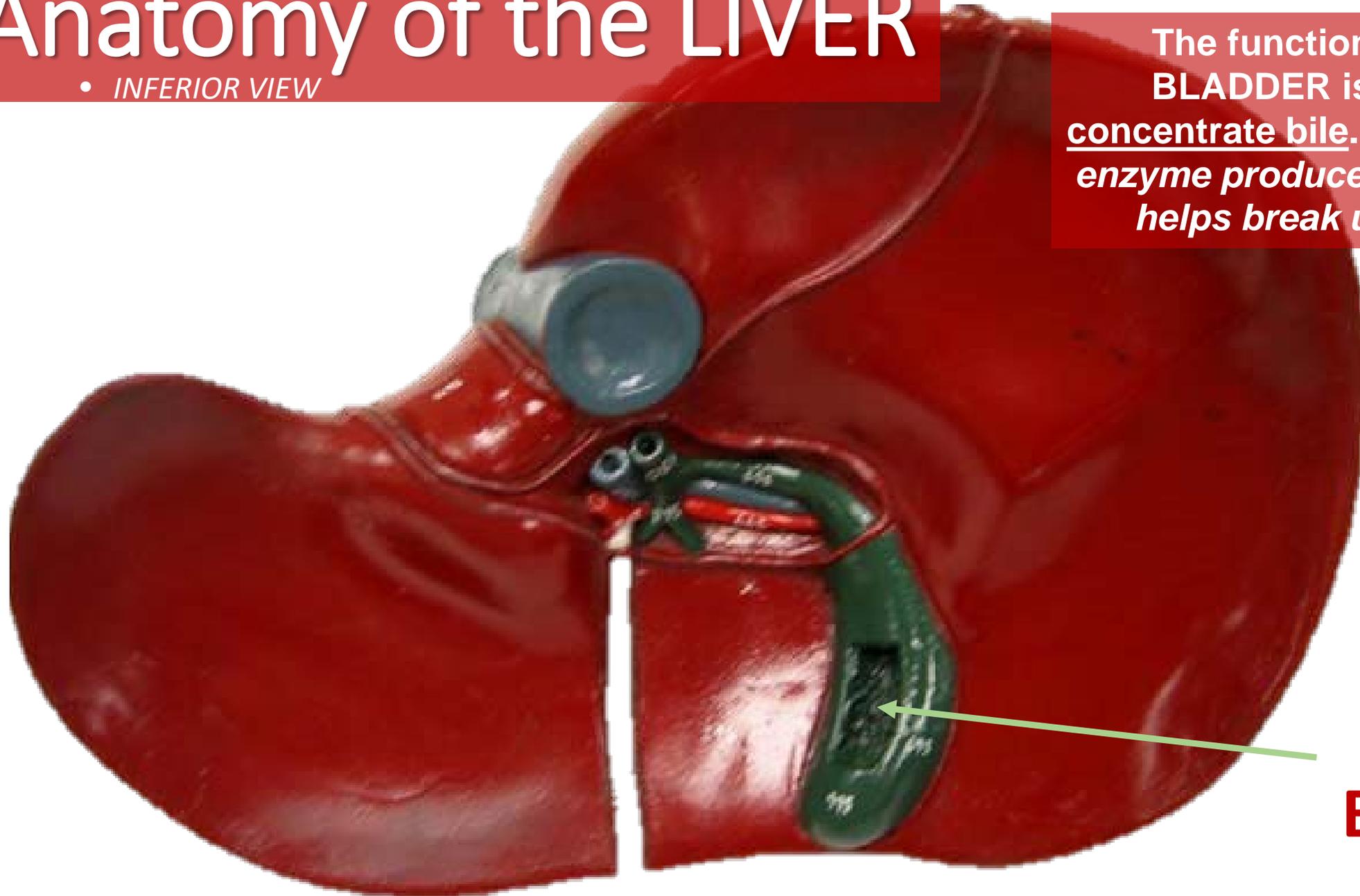
Identify the  
Structure and  
Function.



# Anatomy of the LIVER

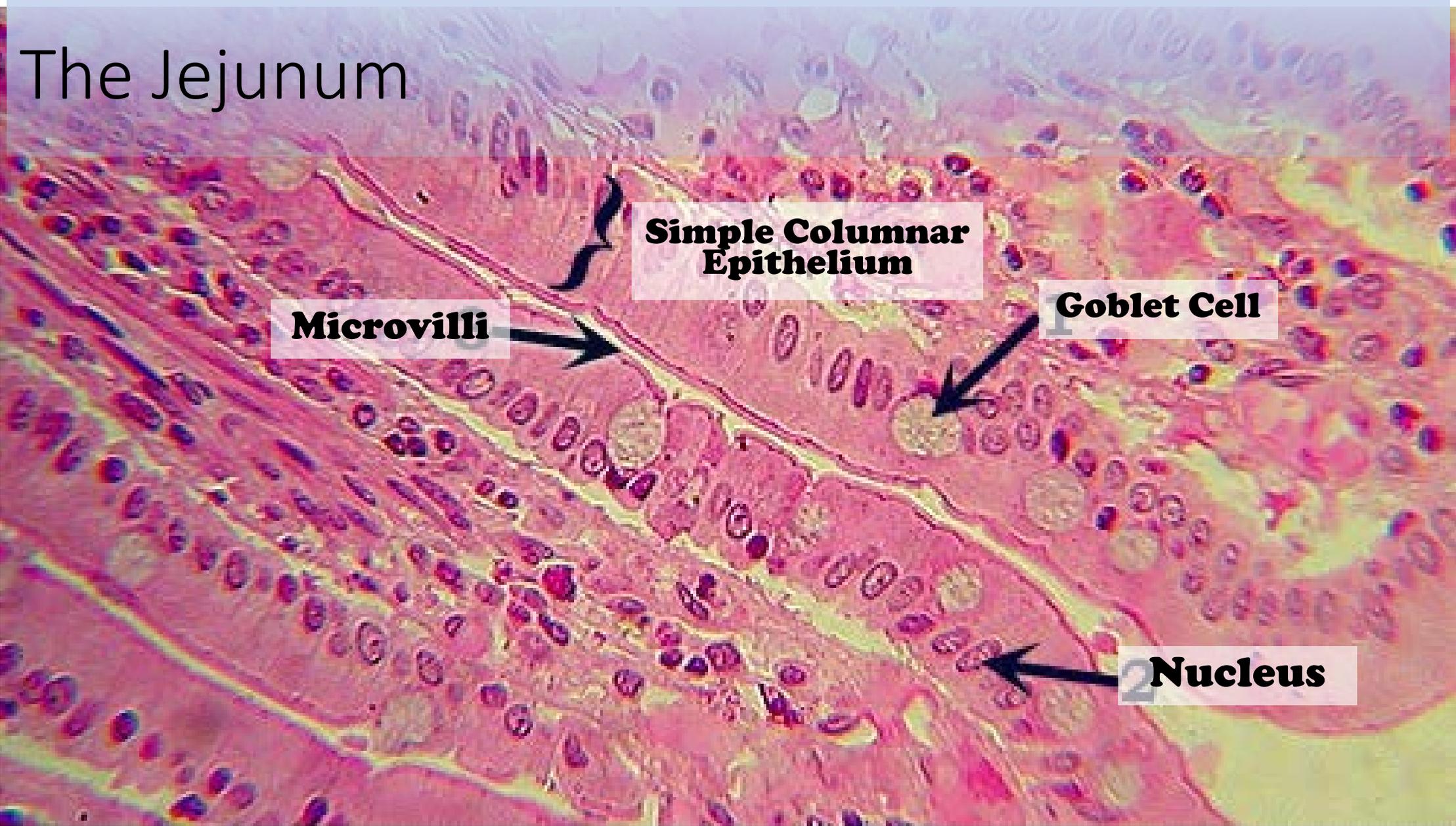
• INFERIOR VIEW

The function of the GALL BLADDER is to store and concentrate bile. *Bile is a digestive enzyme produced by the liver that helps break up fats (lipids).*



**Gall  
Bladder**

# The Jejunum

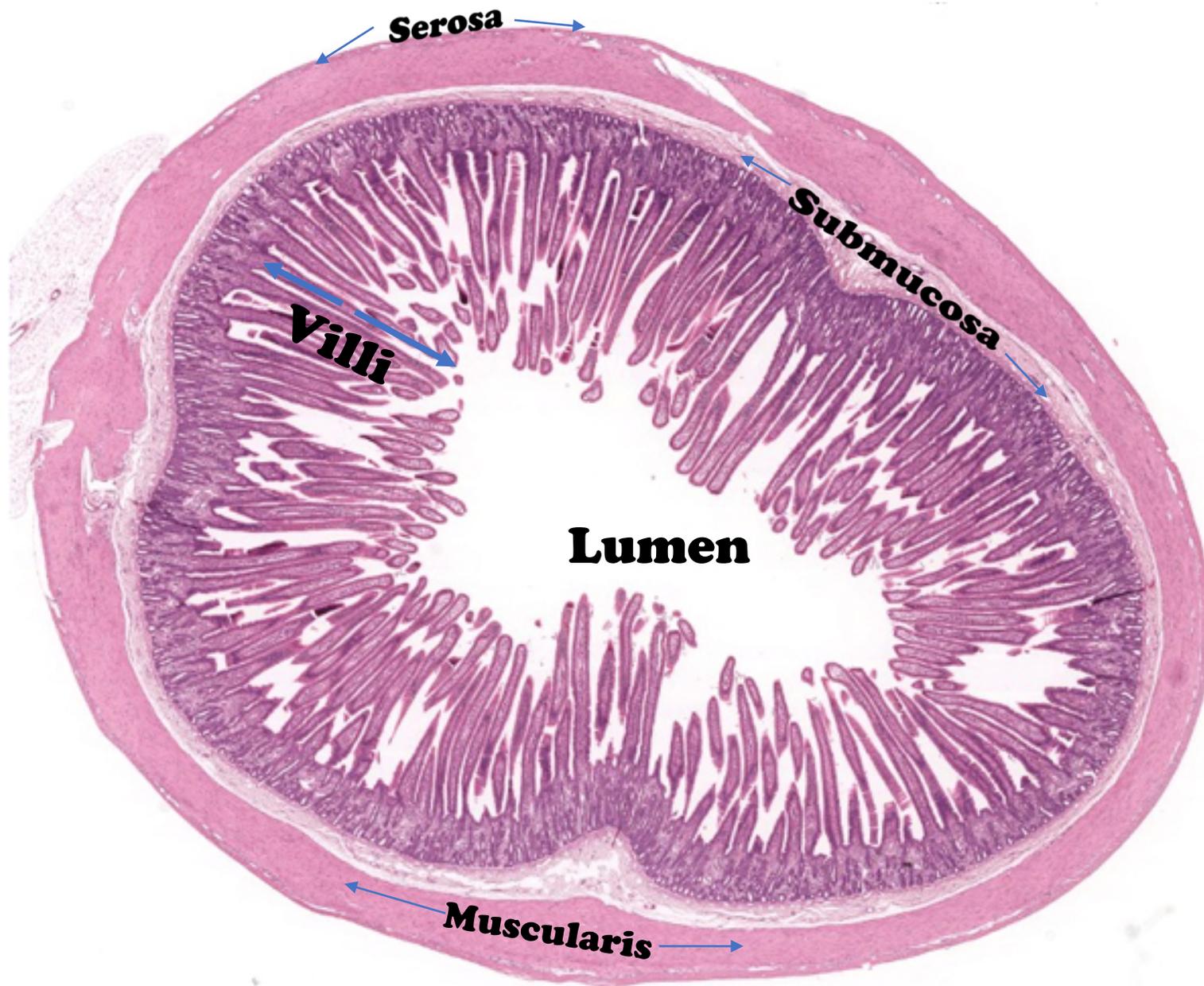


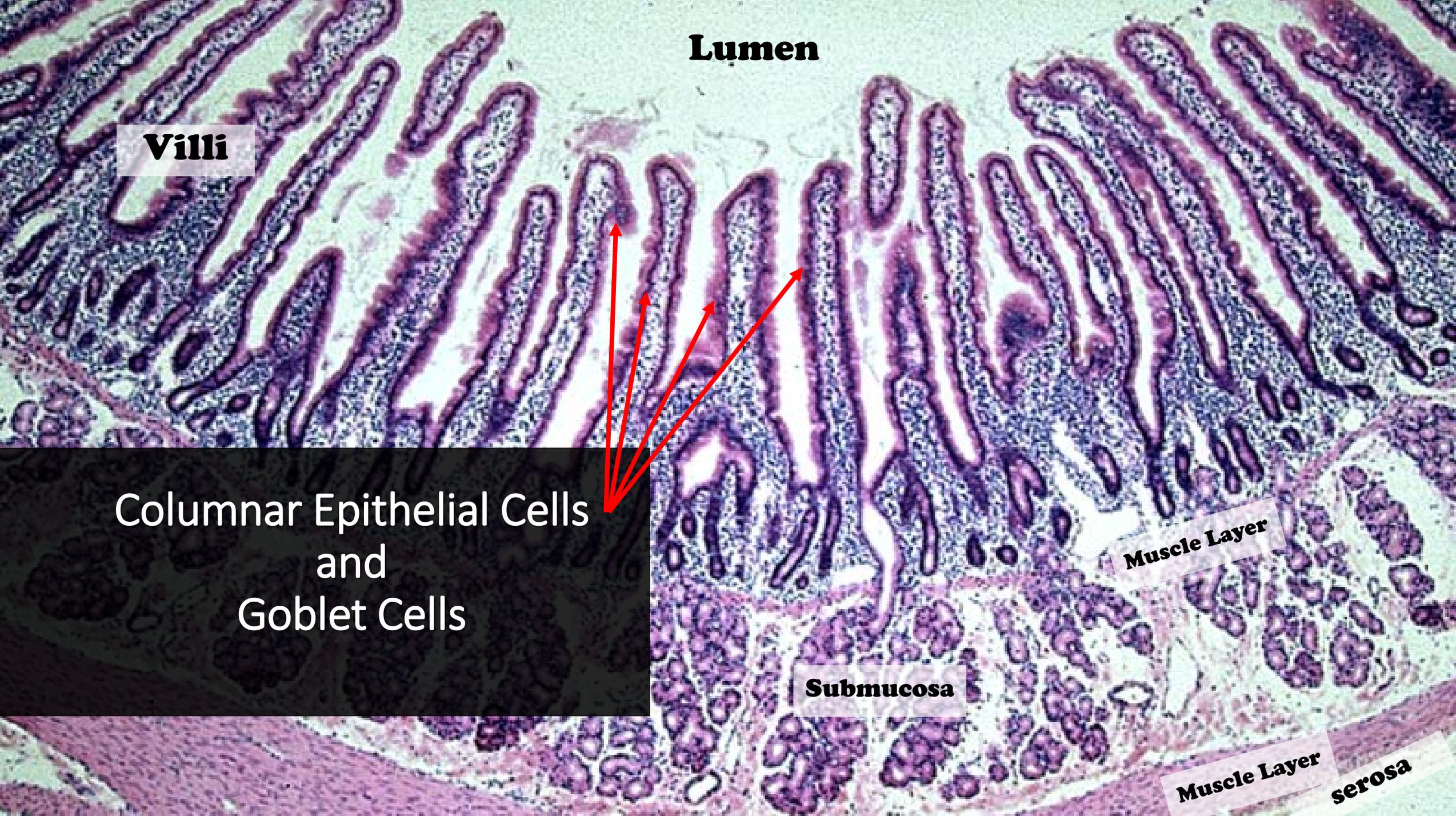
**Simple Columnar Epithelium**

**Microvilli**

**Goblet Cell**

**Nucleus**





**Lumen**

**Villi**

**Columnar Epithelial Cells  
and  
Goblet Cells**

**Muscle Layer**

**Submucosa**

**Muscle Layer**

**serosa**

**Mucosa**

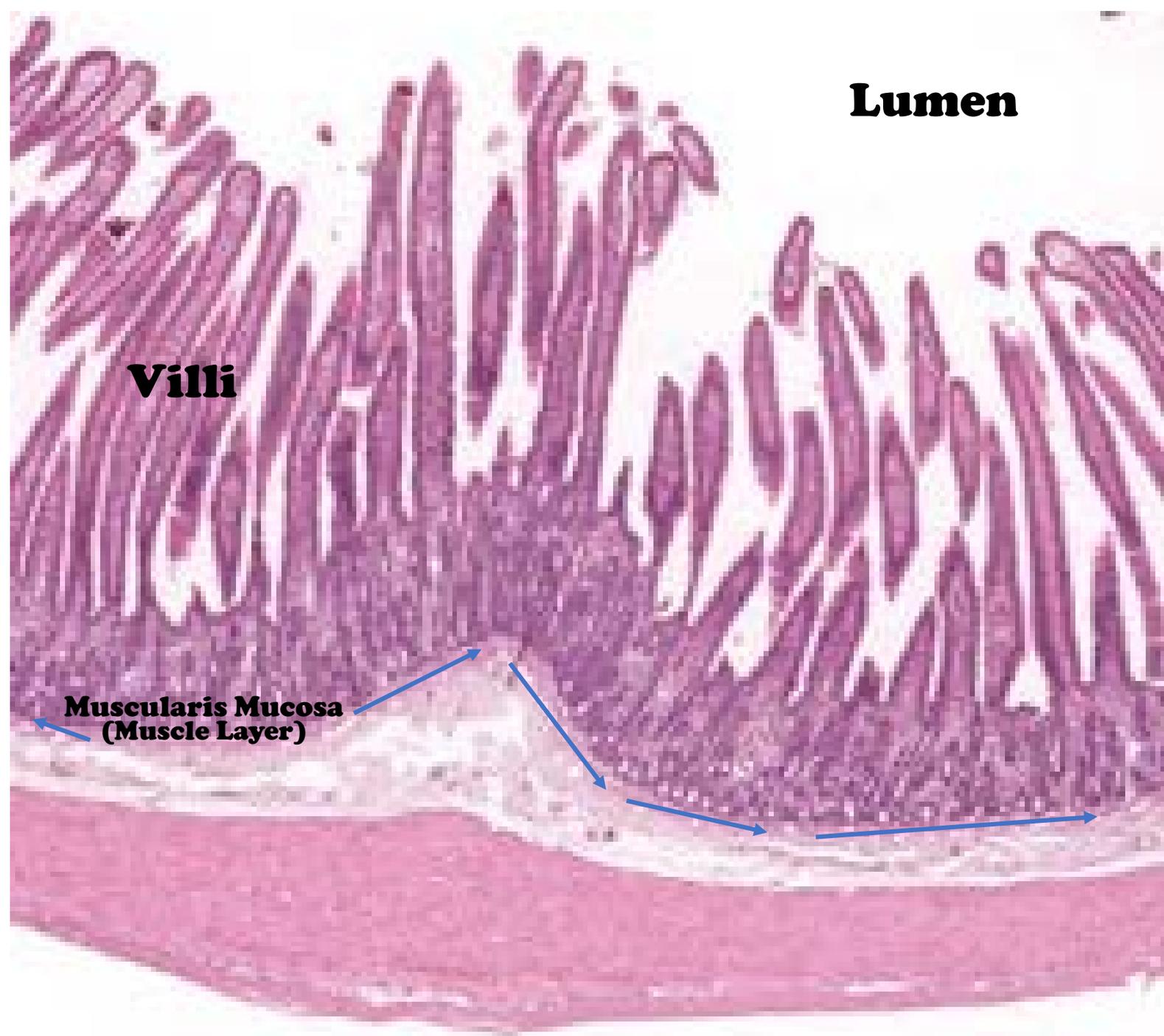
**Villi**

**Lumen**

**Submucosa**

**Muscularis**  
(Muscle Layer)

**Serous Layer**



# Villi

Columnar Epithelial Cells and Goblet Cells

Muscularis Mucosa

Submucosa

Muscular Layers

Serosa

Lumen

Villi

Arteries and Veins in Submucosa

Submucosa

Serosa

