Overview

Major hormones that deal with the functions of the digestive system are:
- Gastrin
- Secretin
- Cholecystokinin (CCK)
In addition to:
- Ghrelin
- Peptide YY

Gastrin

This hormone is responsible for:
- Producing acid for dissolving and digesting foods.
- Also necessary for normal cell growth in the lining of the stomach, small intestine, and colon.
- Produced in the stomach, duodenum, and pancreas

Secretin

Is responsible for:
- Causing the pancreas to secrete the digestive juice that is rich in bicarbonate (which is useful in neutralizing the stomach contents before they enter the small intestines)
- Also stimulates the stomach to produce pepsin (which is an enzyme that digests protein)
- And stimulates the liver to produce bile
- Produced in the Duodenum
**Cholecystokinin (CCK)**

- Is responsible for:
  - Causing the pancreas to produce the enzymes for pancreatic juice
  - Causes the gallbladder to empty
  - Promotes normal cell growth of the pancreas
  - Responsible for digestion of fat and protein
  - Hunger suppressant
  - Produced in the Duodenum

**Ghrelin**

- This is produced in the stomach and the upper intestine due to the absence of food in the digestive system (basically stimulates your appetite).

**Peptide YY**

- Is produced in the digestive tract in response to food in the system and stops the stimulation of your appetite.

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<table>
<thead>
<tr>
<th>Hormone</th>
<th>Function</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Gastrin</td>
<td>Produce an acid for dissolving and digesting some foods. Normal cell growth in the lining of the GI</td>
<td>Produced in the stomach, duodenum, and pancreas</td>
</tr>
<tr>
<td>Secretion</td>
<td>Causes the pancreas to send out digestive juice that is rich in bicarbonate</td>
<td>Produced in the Duodenum, and in smaller numbers Within the jejunum</td>
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<tr>
<td>CCK</td>
<td>Causes the pancreas to produce the enzymes of pancreatic juice, and causes the gallbladder to empty</td>
<td>Produced in the Duodenum</td>
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<tr>
<td>Ghrelin</td>
<td>Stimulates the appetite</td>
<td>Produced in the stomach</td>
</tr>
<tr>
<td>Peptide YY</td>
<td>Inhibits the appetite</td>
<td>Produced in the Digestive Track (GI)</td>
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</tbody>
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