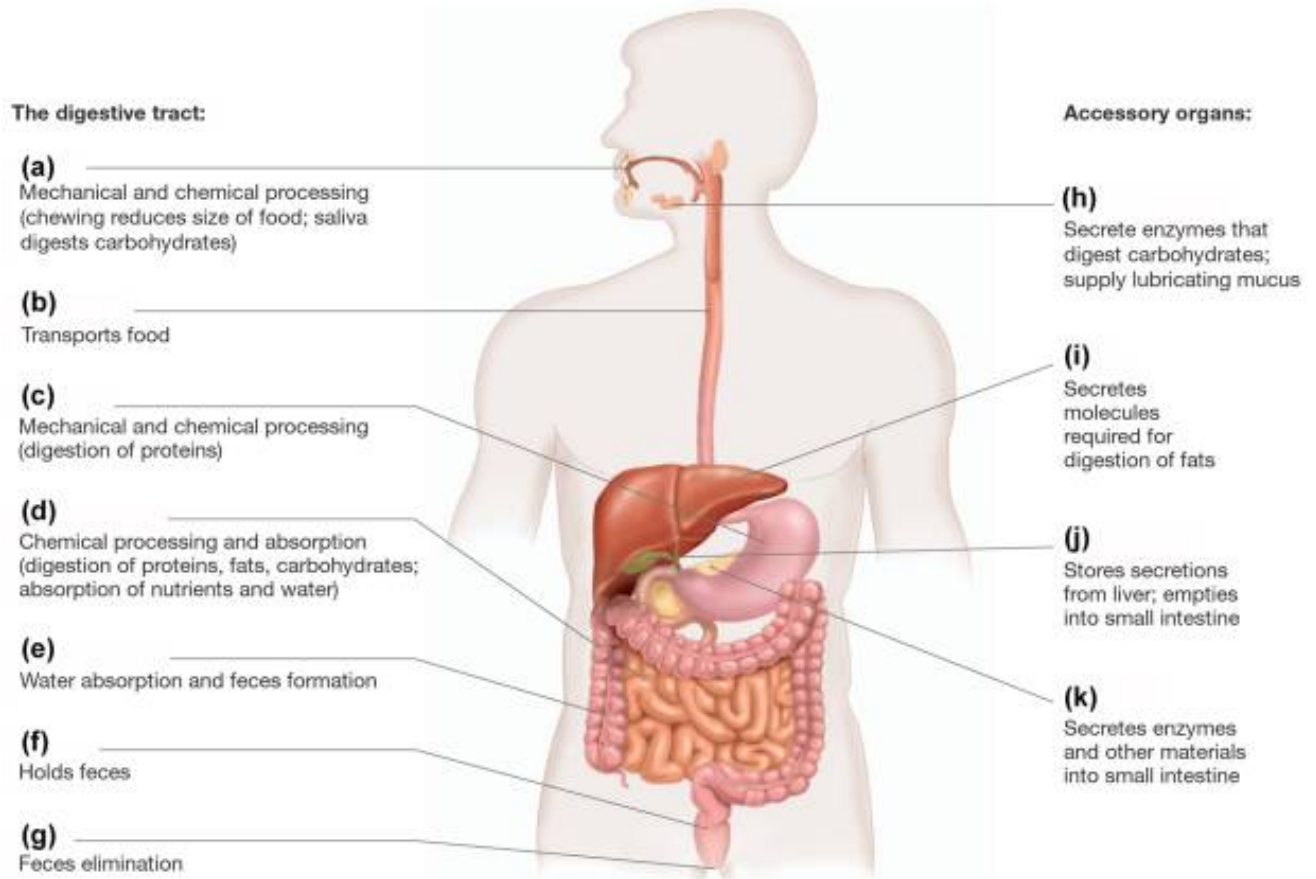


Square Dude Meets Reality

Structures of the Mammalian Digestive Tract:

The digestive system is comprised of a series of chambers separated by sphincters. Each section of the digestive has a particular function. On the diagram below, match the structures with their functions:

- | | | |
|-----------------------|----------------|-----------------------|
| _____ Anus | _____ Liver | _____ Salivary glands |
| _____ Esophagus | _____ Mouth | _____ Small intestine |
| _____ Gall bladder | _____ Pancreas | _____ Stomach |
| _____ Large intestine | _____ Rectum | |



This diagram is borrowed from our textbook, *Biological Science* by Freeman (Pearson/Benjamin Cummings Publishers).

Meet Square Dude:

Due to their size/length, the organs of the digestive are crammed into our gut making it a little challenging to observe the inter-relationship of the different structures. To remedy this situation, Dr. John Cornell, a past member of the CSB/SJU Biology Department, created "Square Dude" (see diagram below). Square Dude is a schematic diagram of the digestive tract. Compare "The Dude" to the diagram above and then label each of the following structures on "The Dude."

- | | | |
|---------------------|------------------------|------------------------------|
| 1. anus | 12. lung | 22. sphincter, internal anal |
| 2. appendix | 13. mouth | 23. sphincter, external anal |
| 3. caecum | 14. palate, hard | 24. sphincter, ileo-caecal |
| 4. cavity, nasal | 15. palate, soft | 25. sphincter, esophageal |
| 5. cavity, oral | 16. pancreas | 26. stomach |
| 6. epiglottis | 17. pharynx | 27. teeth |
| 7. esophagus | 18. rectum | 28. tongue |
| 8. gall bladder | 19. salivary glands | 29. trachea |
| 9. intestine, small | 20. sphincter, cardiac | |
| 10. large intestine | 21. sphincter, pyloric | |
| 11. liver | | |

