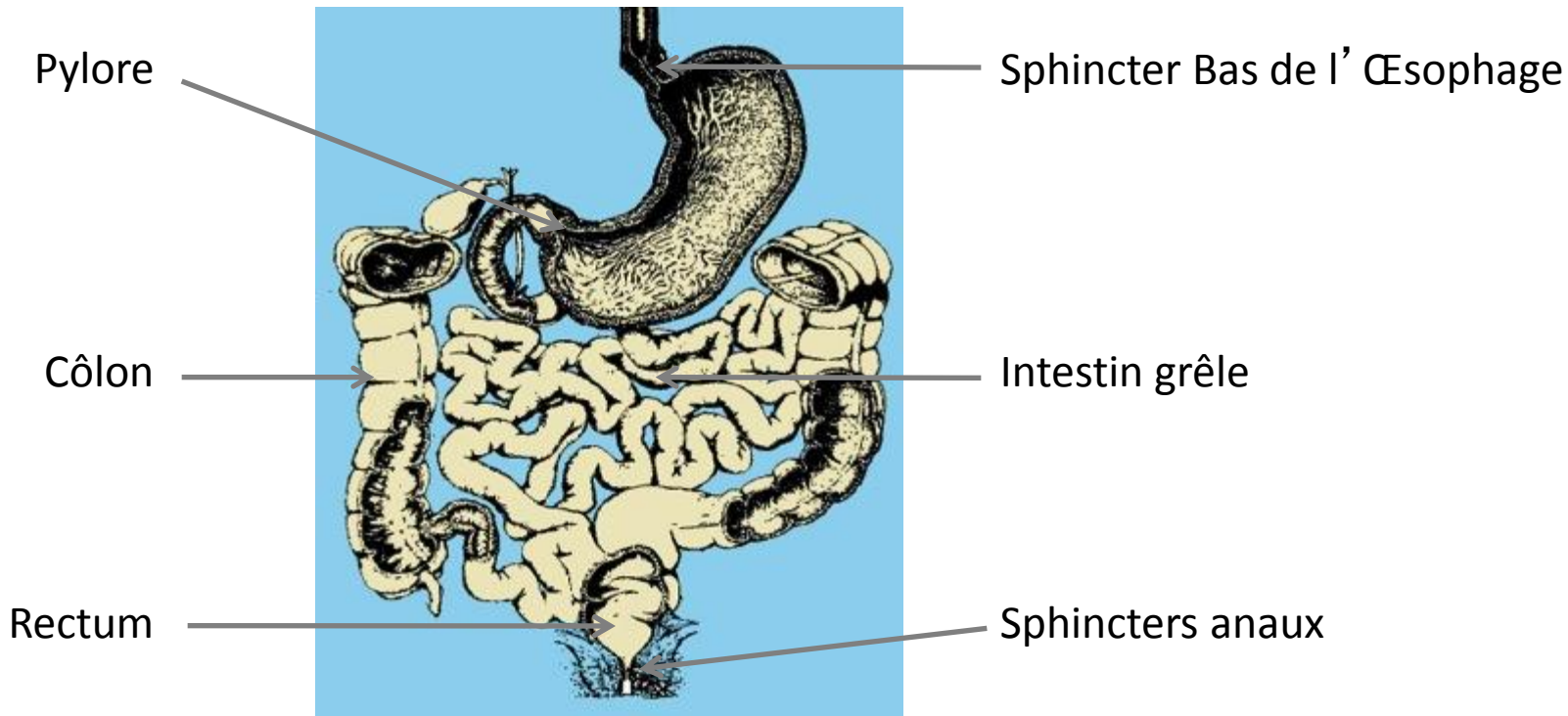


Étapes clé du devenir des aliments dans le tube digestif

Jean Fioramonti

Département Alimentation Humaine
INRA



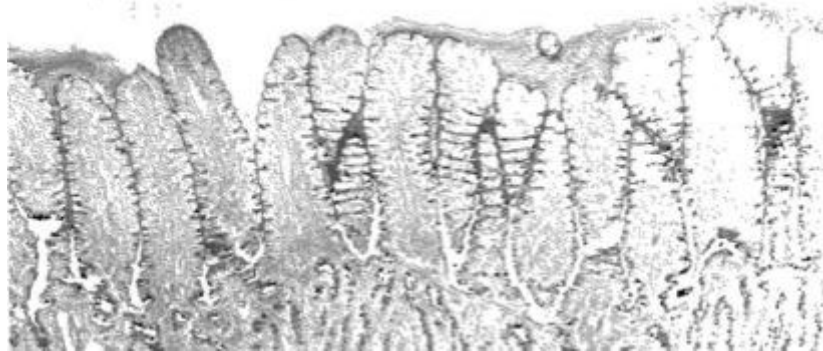
Digère 100 tonnes d'aliments au cours d'une vie



Muqueuse intestinale



Macroscopique

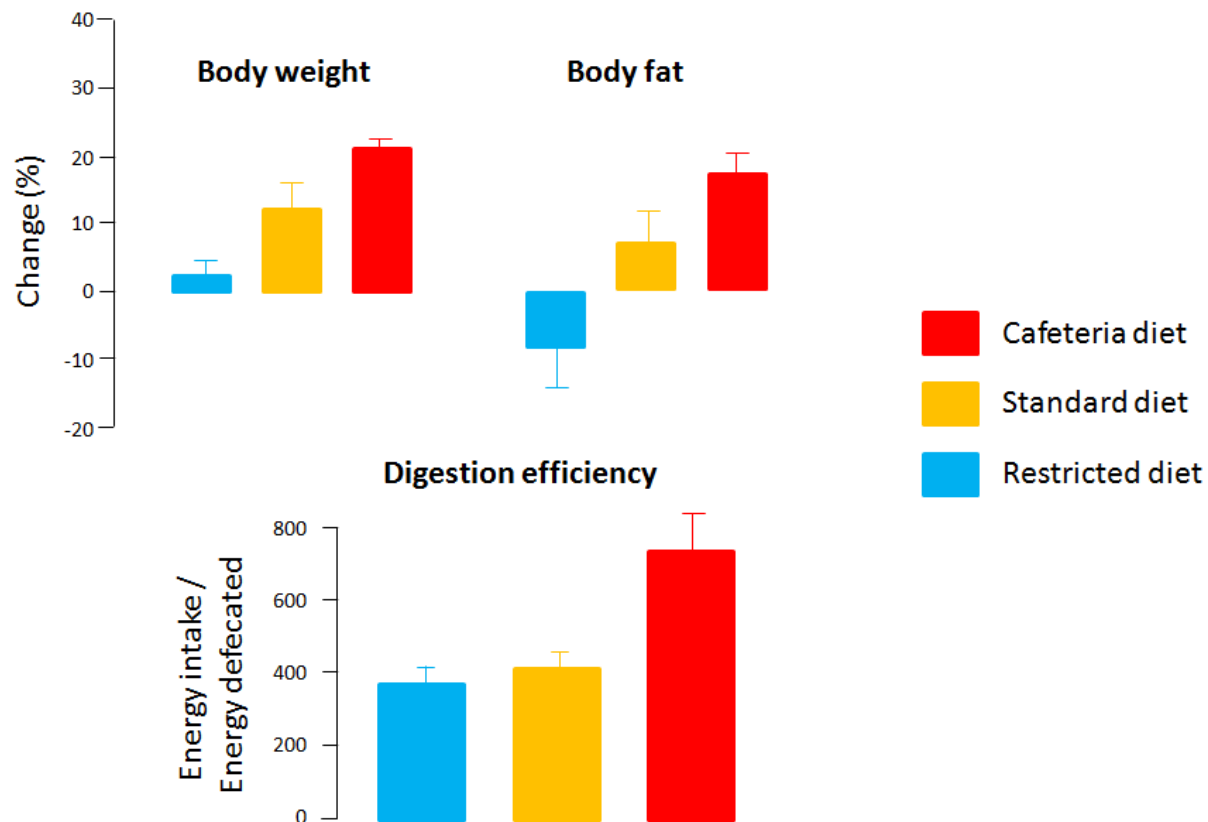


Microscopie optique



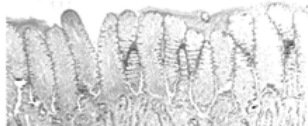
Microscopie électronique



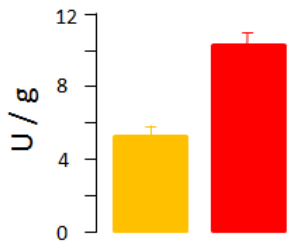


from Paradis et al., 2007

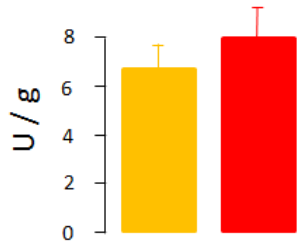
Villi height



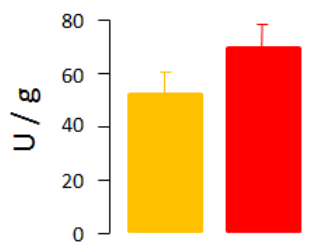
Alkaline phosphatase



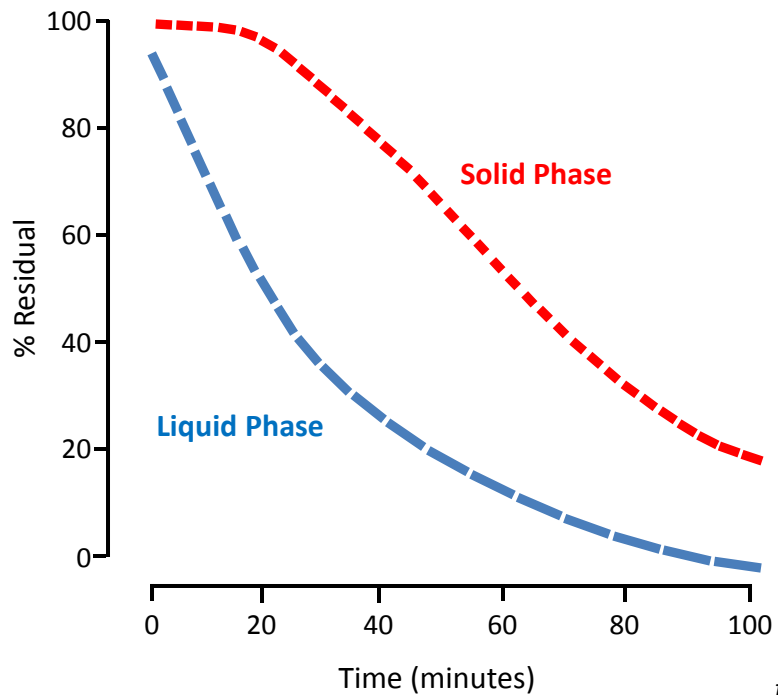
Lipase



Sucrase

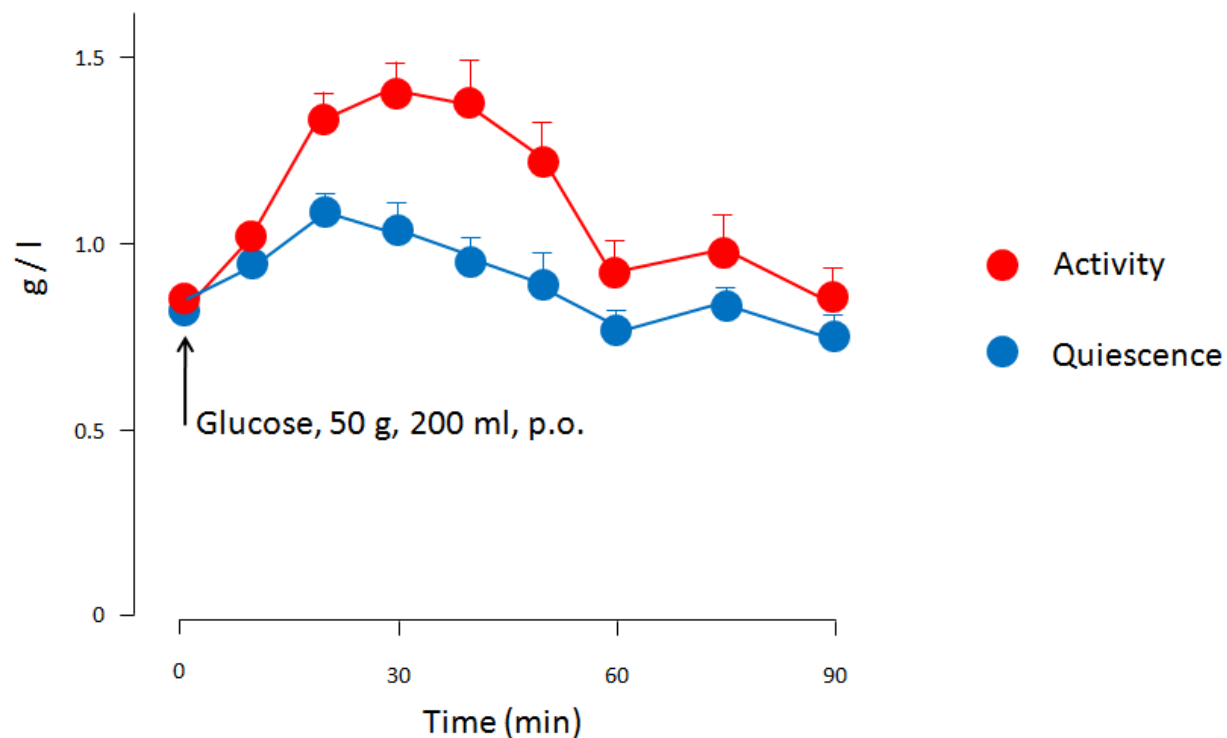


from Scoaris et al., 2010



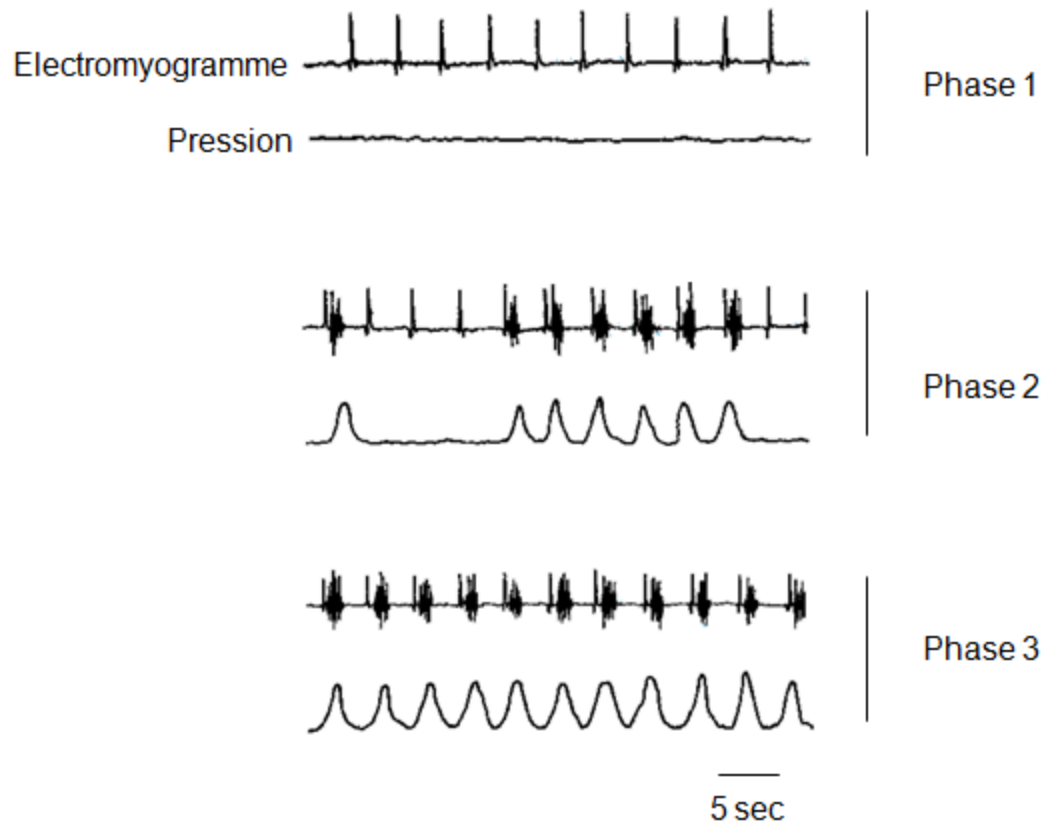
from Rao & Schulze-Delrieu, 1993

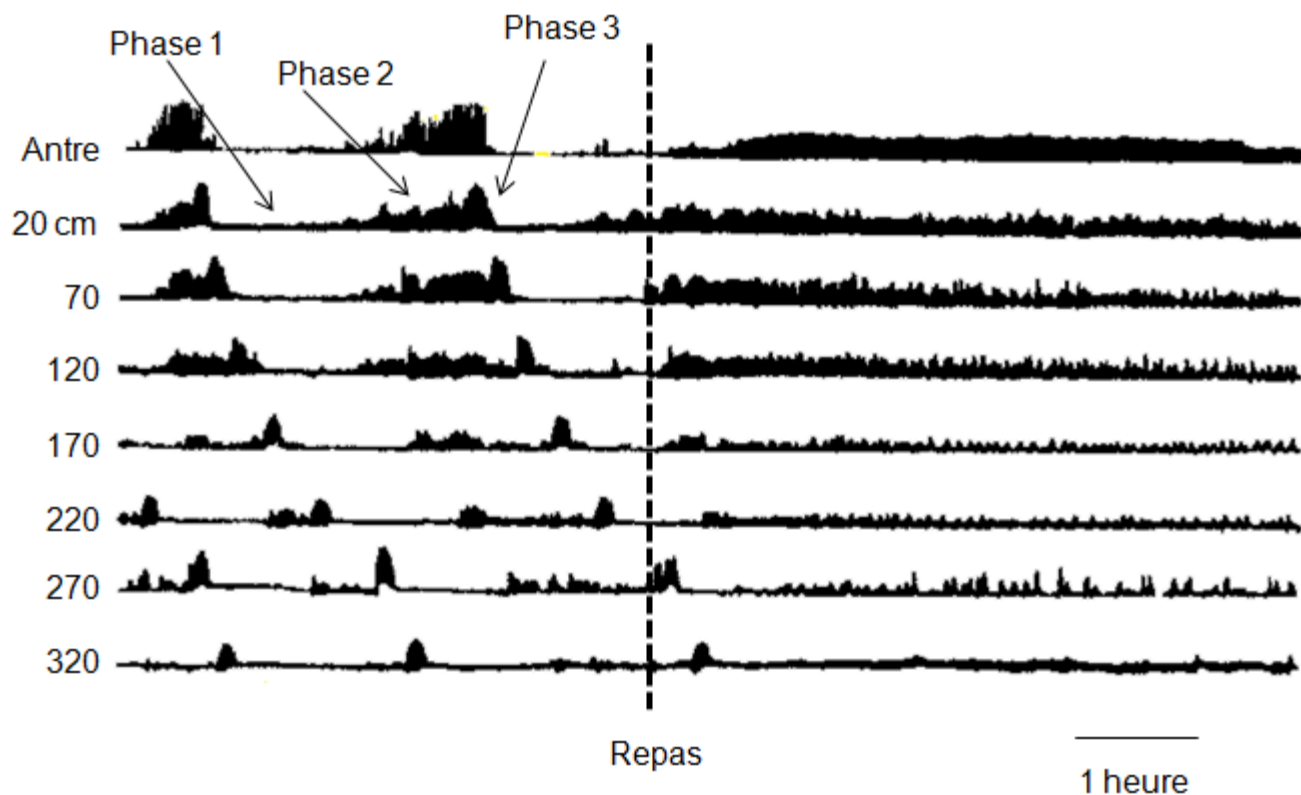
Plasma Glucose



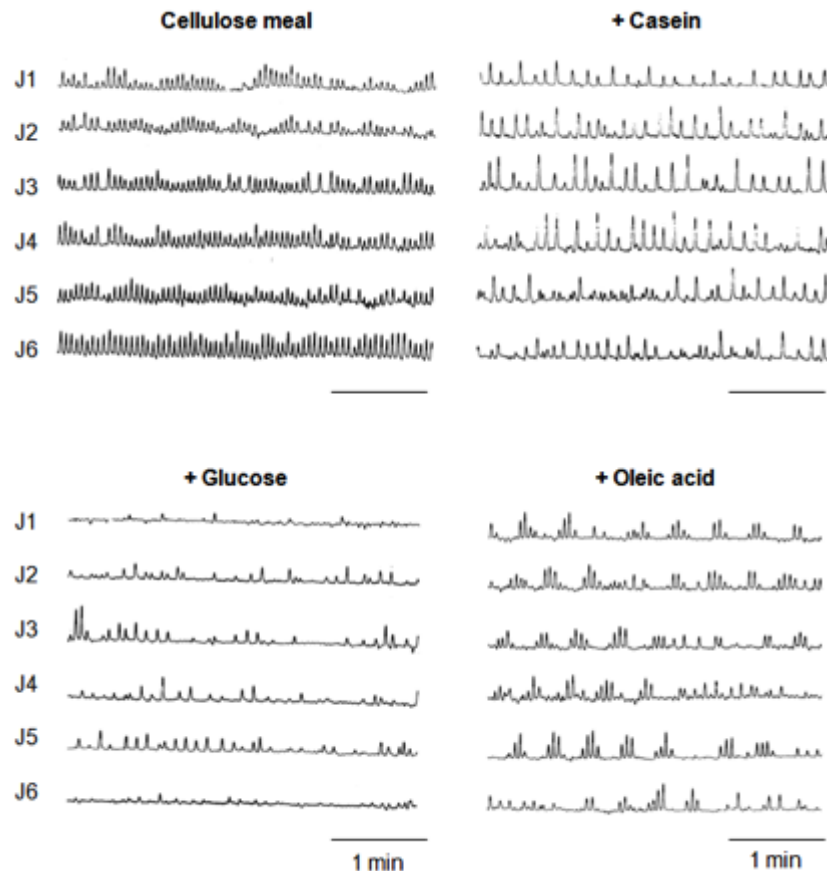
from Thompson et al., 1982

Intestin grêle

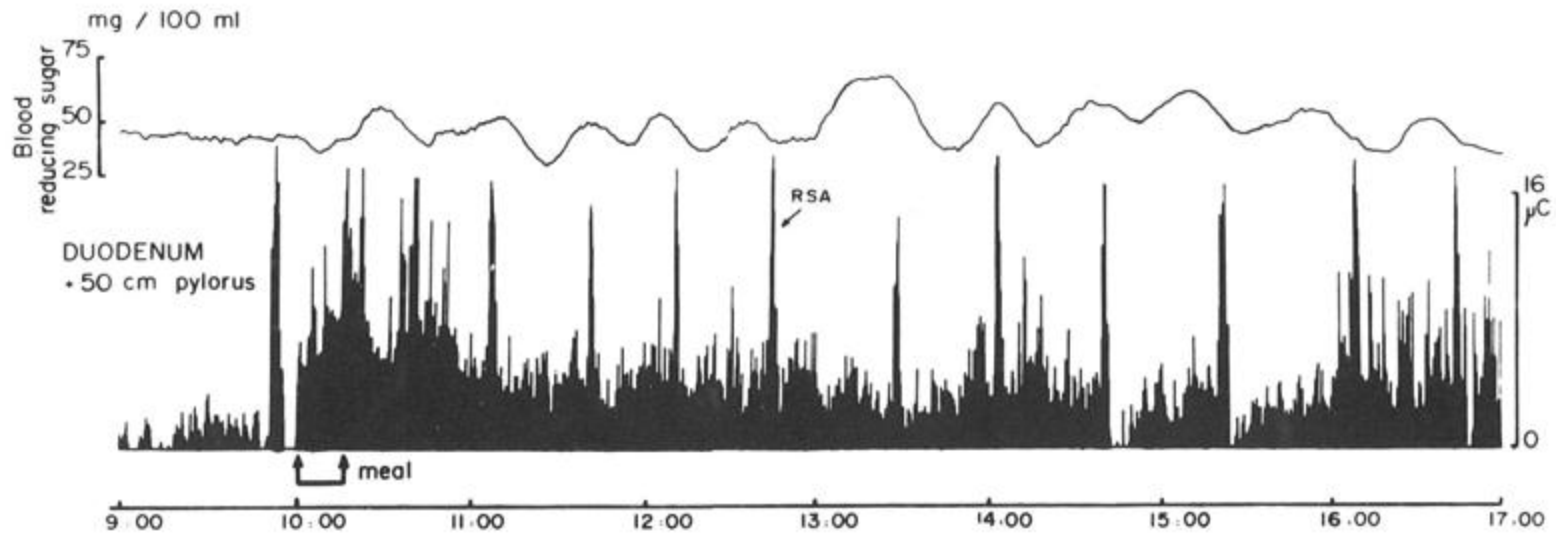




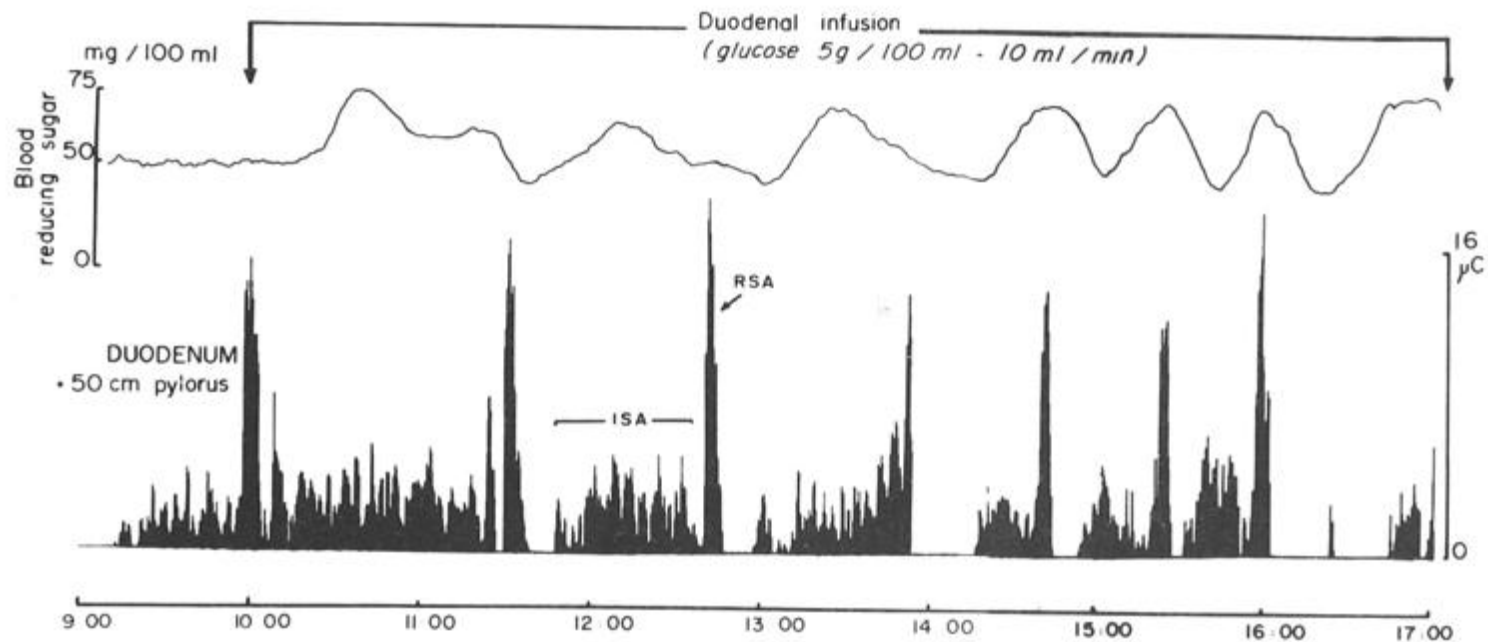
from Itoh et al., 1983



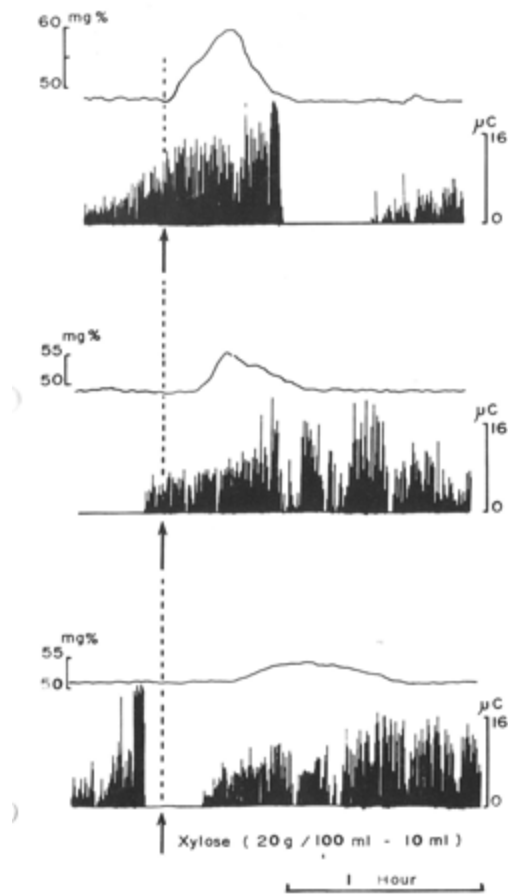
from Schemann & Ehrlein, 1986



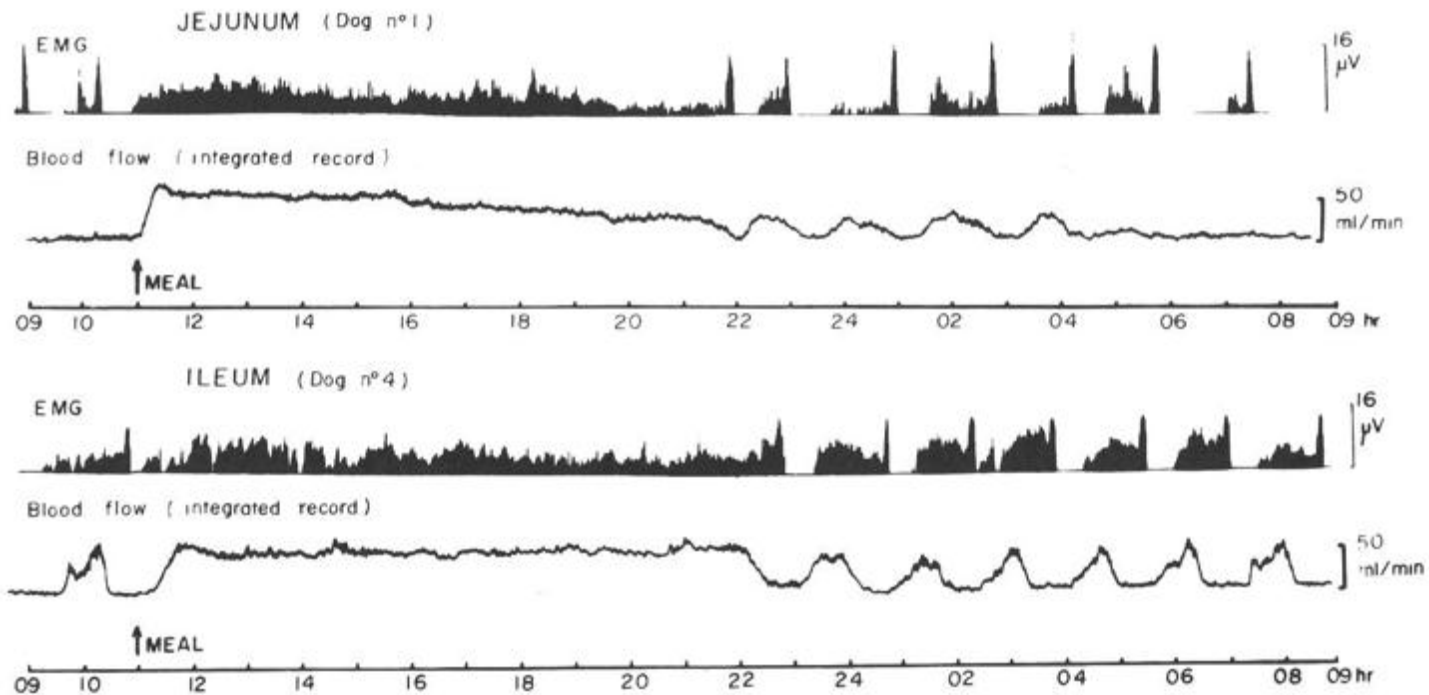
from Fioramonti et al., 1982



from Fioramonti et al., 1982

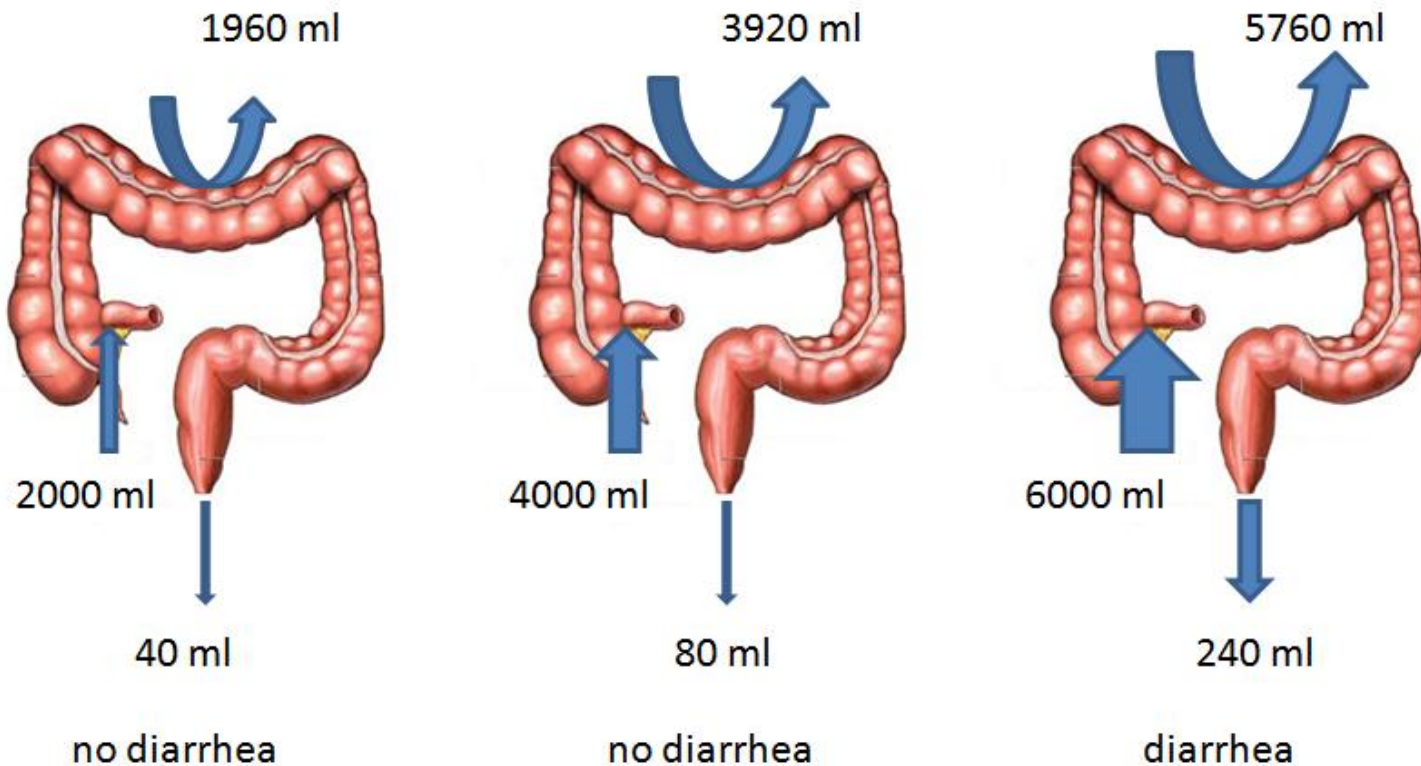


from Fioramonti et al., 1982



from Fioramonti et al., 1984

Capacity of the human colon to absorb fluid



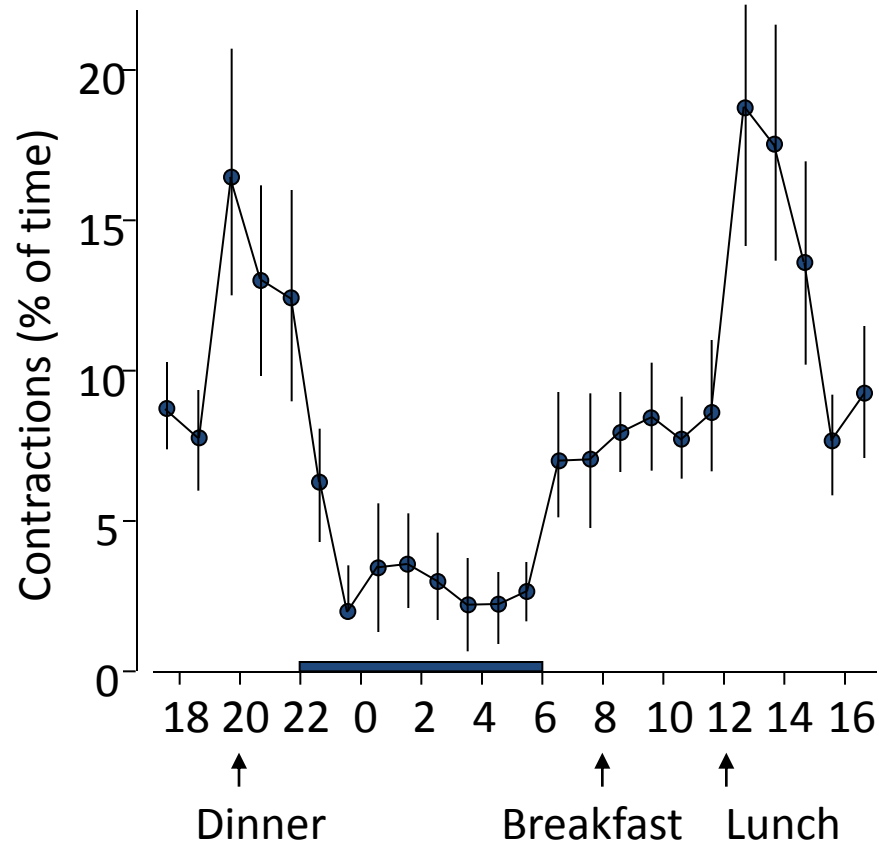
from Debonnie & Phillips, 1978



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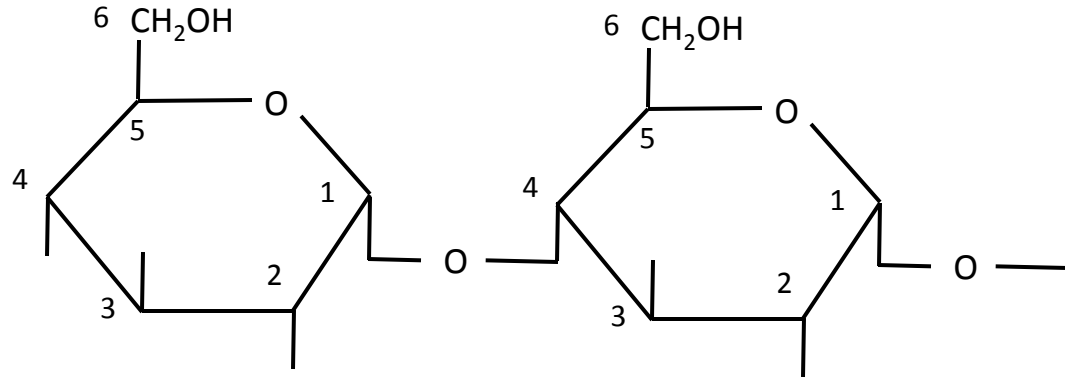
CARREFOURS
DE L'INNOVATION AGRONOMIQUE



from Frexinos et al., 1985

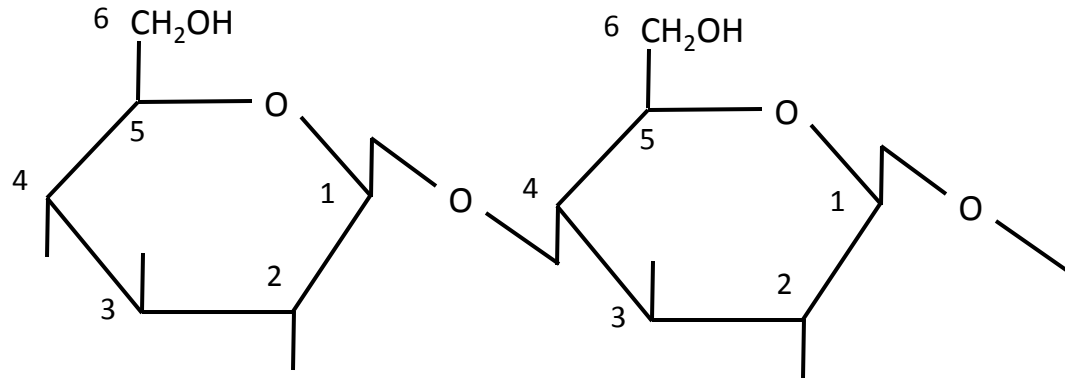
Amidon

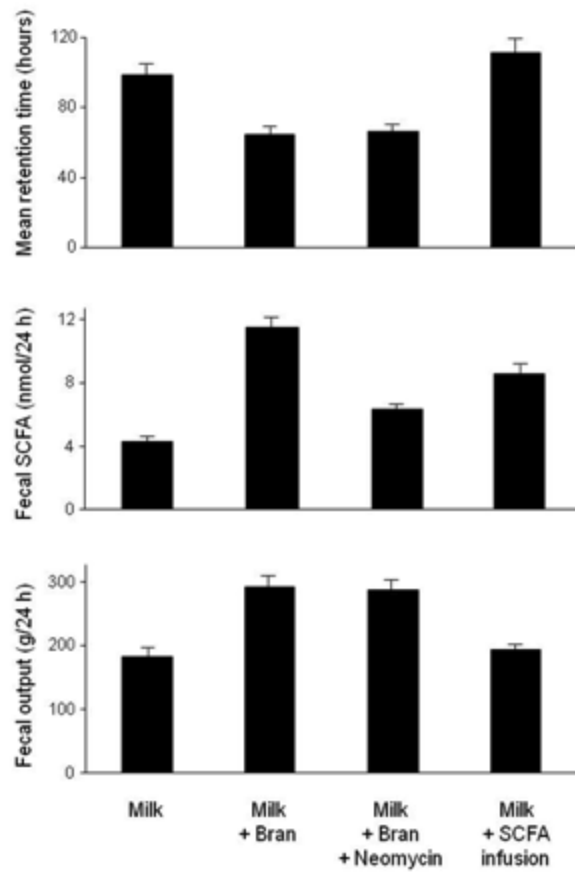
Liaisons α 1-4



Cellulose

Liaisons β 1-4





from Bardon & Fioramonti, 1983

Etapes clé

Vidange gastrique

Motricité intestinale → Surface de contact aliment-muqueuse

Côlon → Absorption d'eau
Digestion des fibres