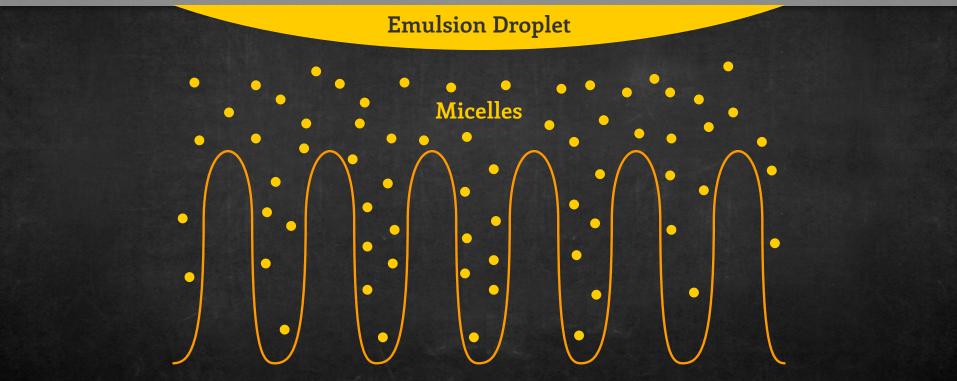


Tom Jenkins, Professor Department of Animal & Veterinary Sciences $\underbrace{O_{V} O_{V} O_$

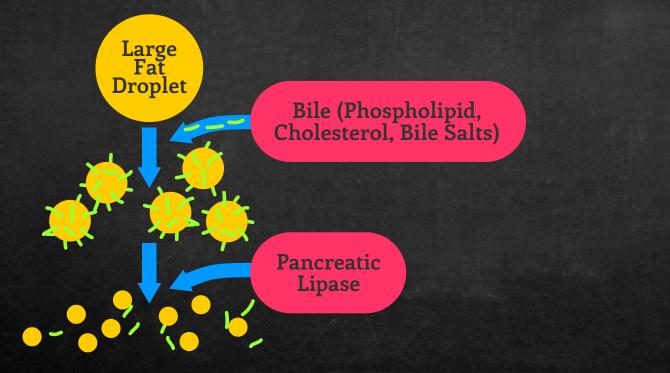




Enterocyte



Nonruminants, Pre-Ruminant Calves









Adaptations of Ruminants to Enhance Lipid Digestion Pancreatic juice Bicarbonate level is low □ pH remains low 8 – 8.5 until ileum Most fat digestion in lower jejunum Pancreatic lipase \Box less active; about 1/4 of that of a pig more resistant to acid condition



Adaptations of Ruminants to Enhance Lipid Digestion
Bile

high in phospholipids – especially PC
difference in taurine/glycine conjugates
2.3/1 in ruminant (allows bile salts to function at a lower pH)

1/3 in non-ruminants



