

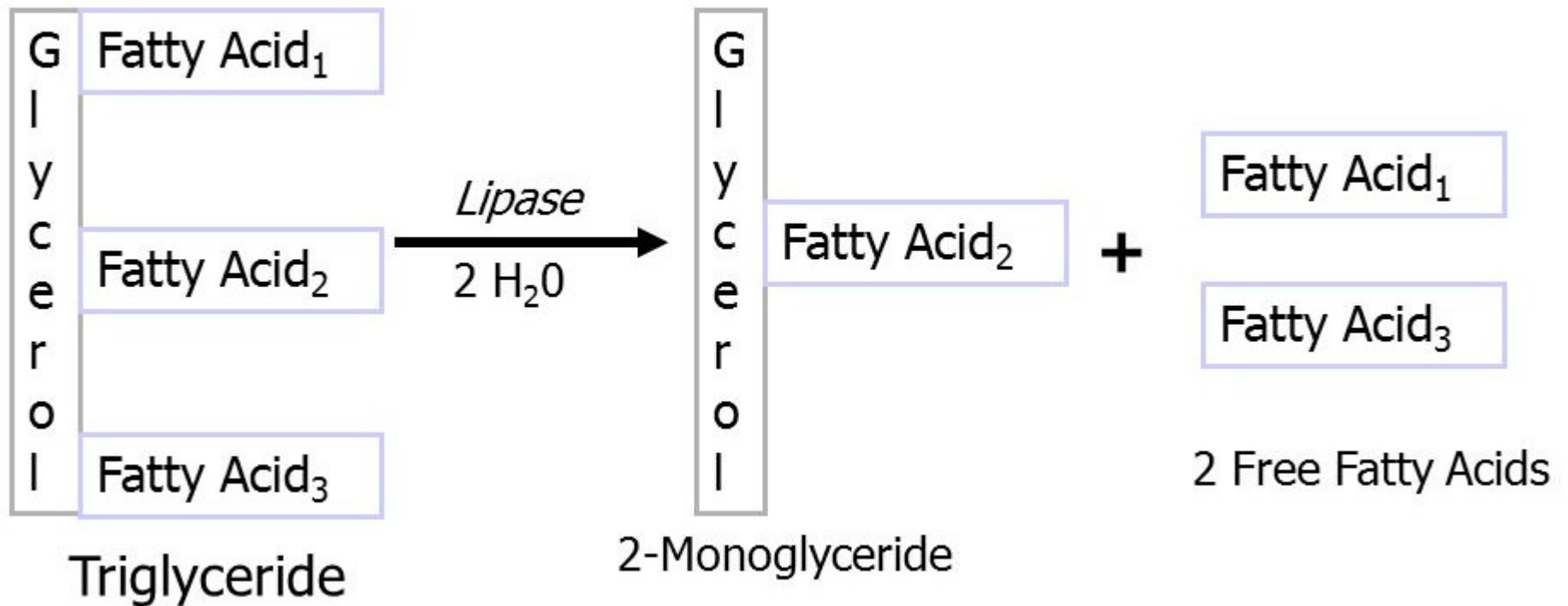
Life cycle of Fatty acid in Humans

SMPatel

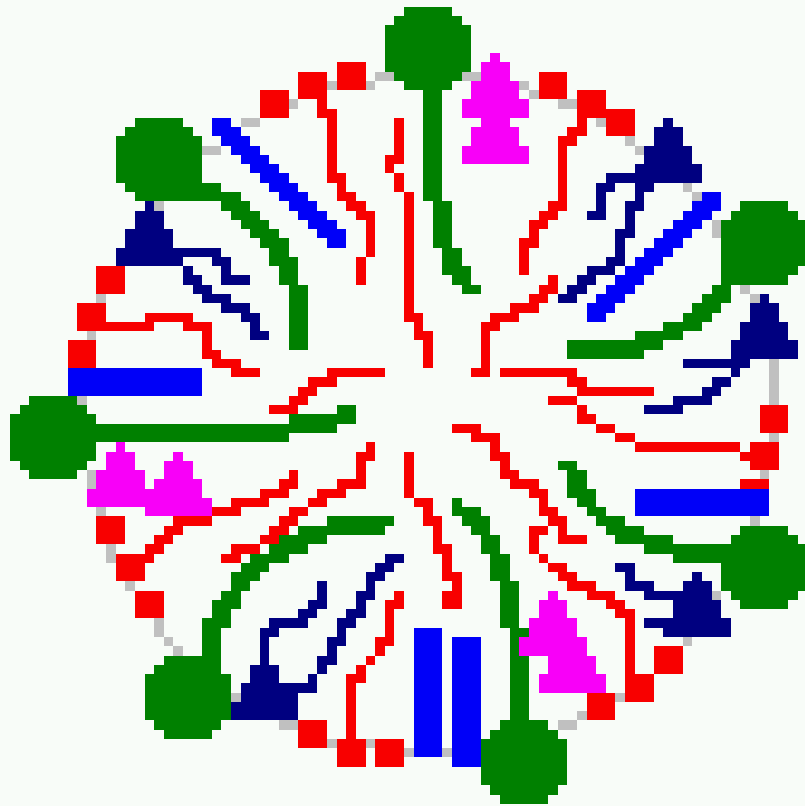
FA - Food Sources (TG)



Digestion – Lipase, Bile Salt



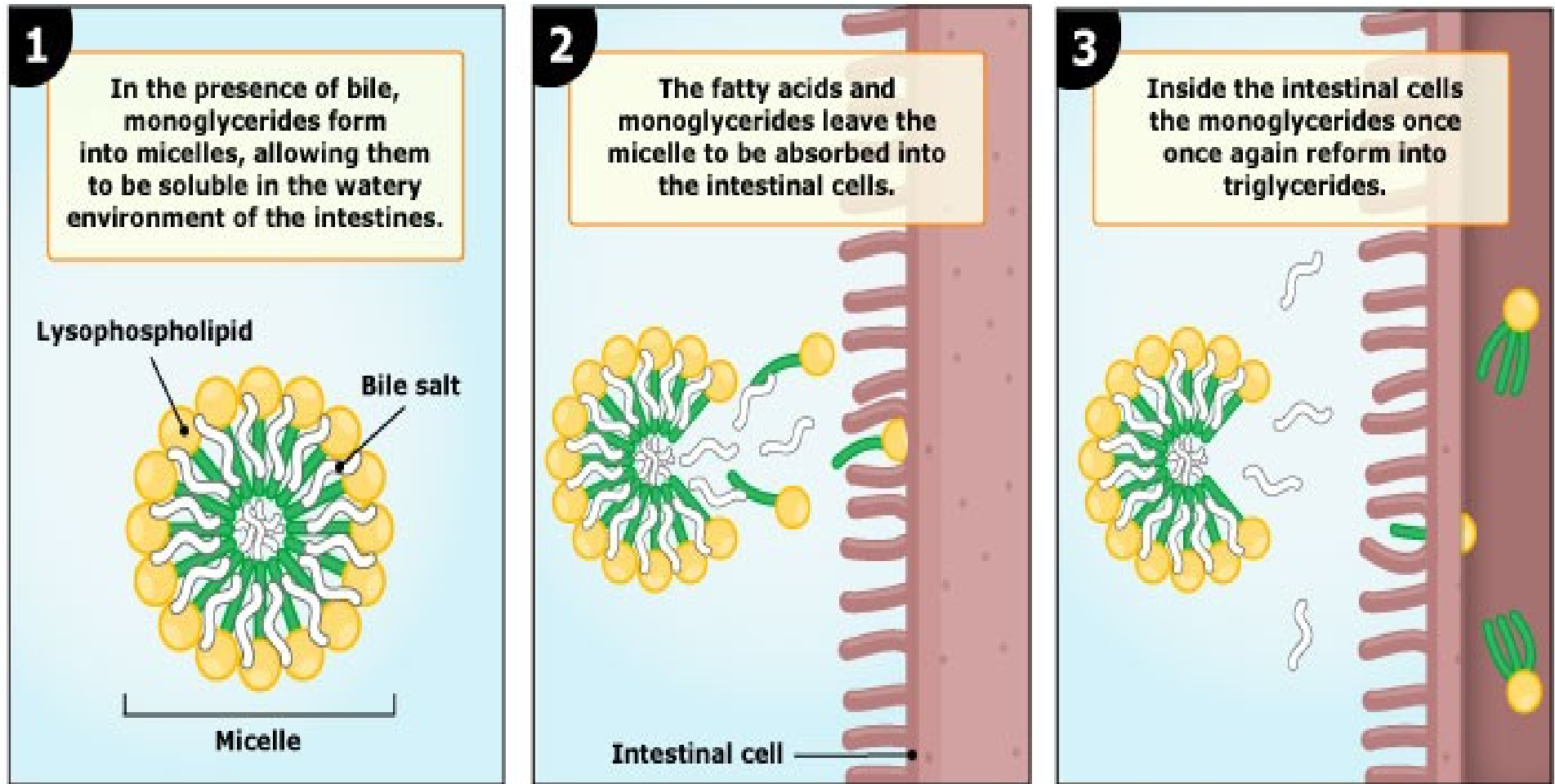
Absorption, Micelle



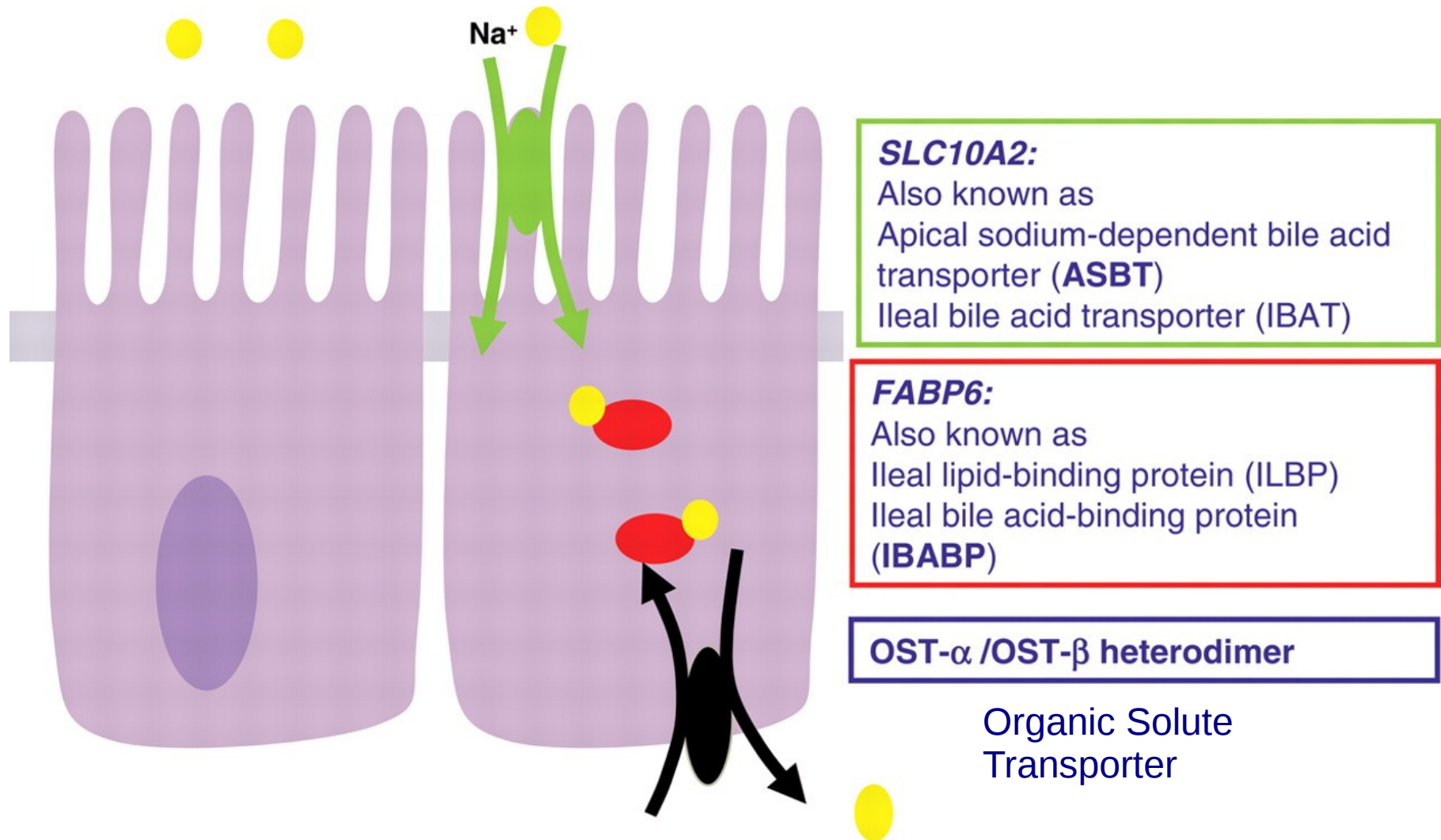
Bile salts
Monoglyceride
Fatty acids
Phospholipids
Cholesterol

FA, MAG delivered to cell membrane

Micelle



Bile Acid absorbed in Ileum



Pattni S , and Walters J R F Br Med Bull 2009;92:79-93

Intestine Form Chylomicron

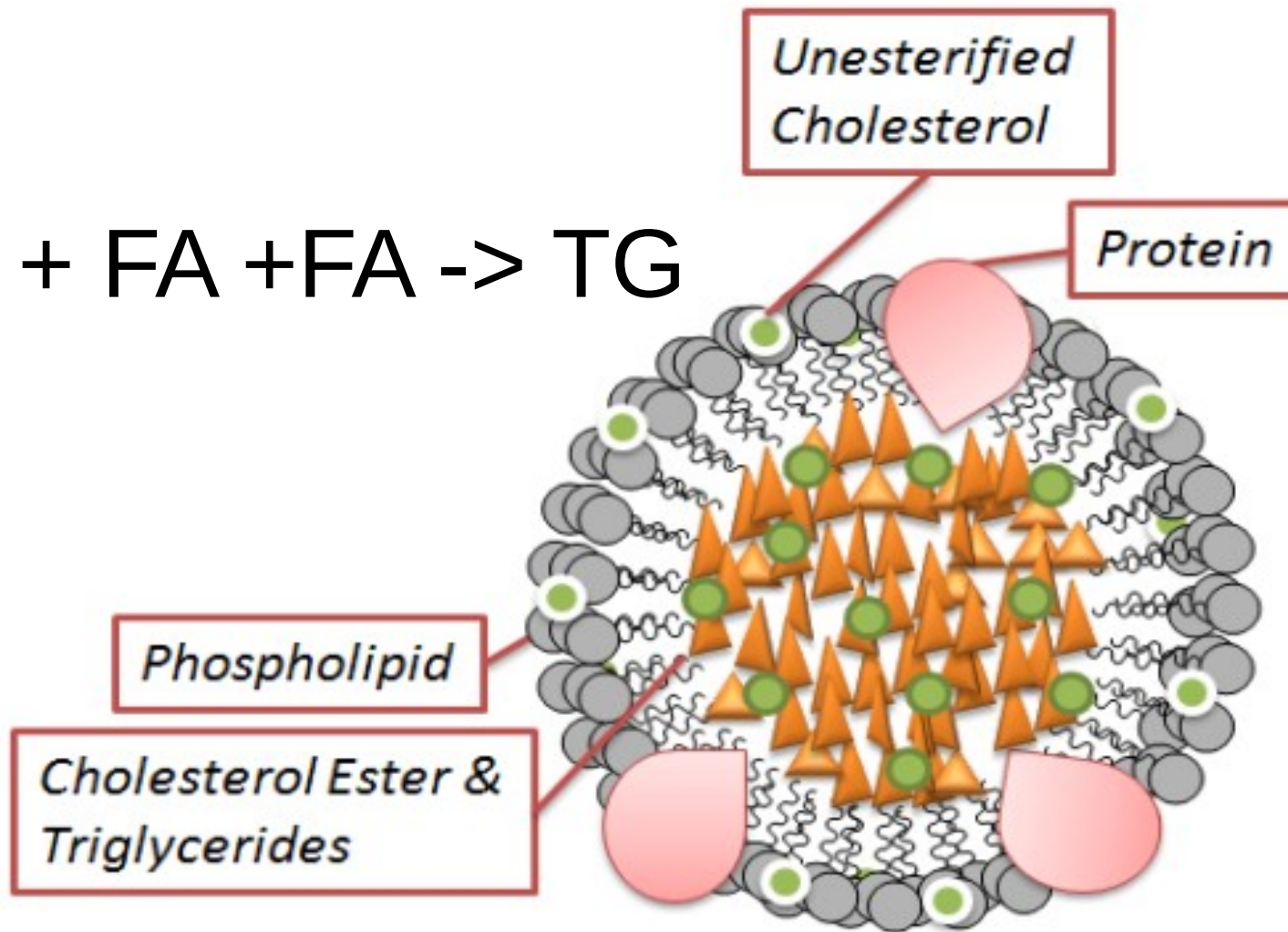
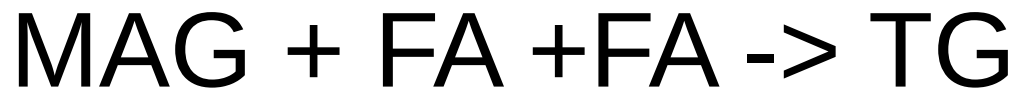


Figure 1. Schematic diagram of a Lipoprotein.

TG in blood

H-Bond

Water solubility

Unique Transport system

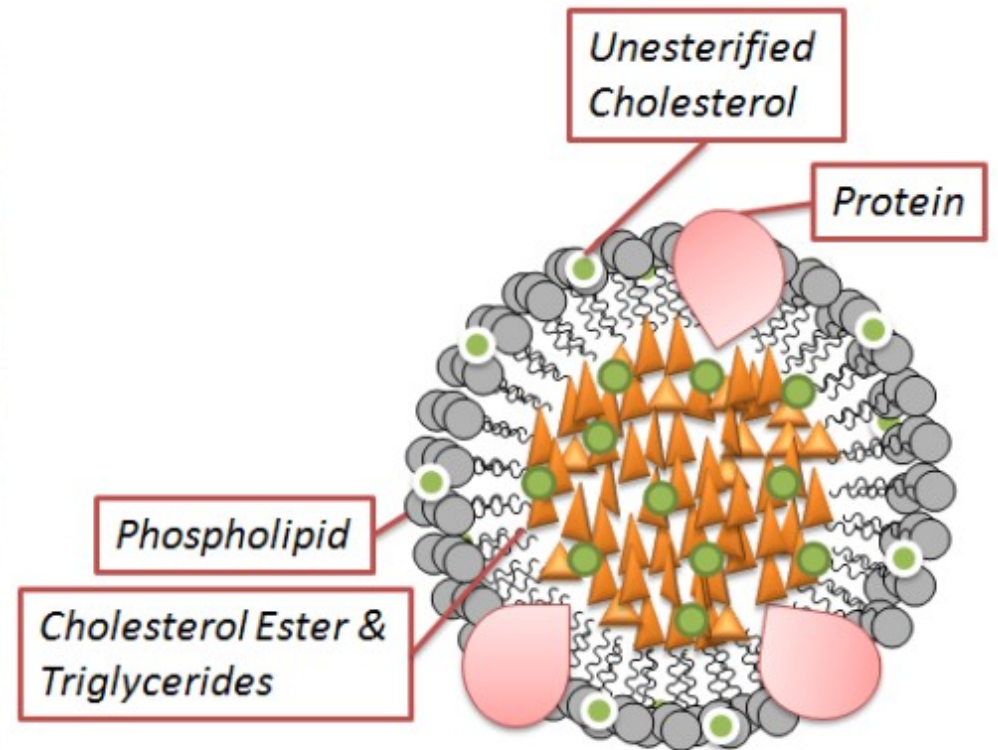
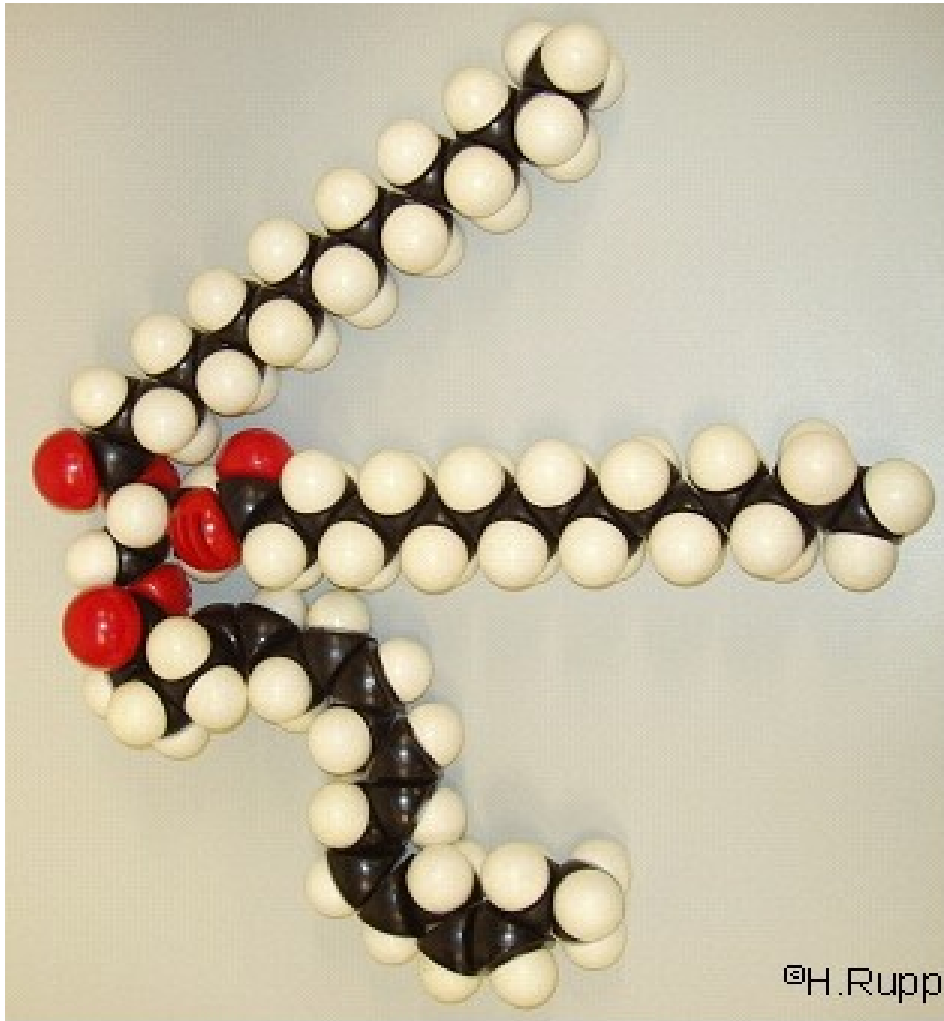
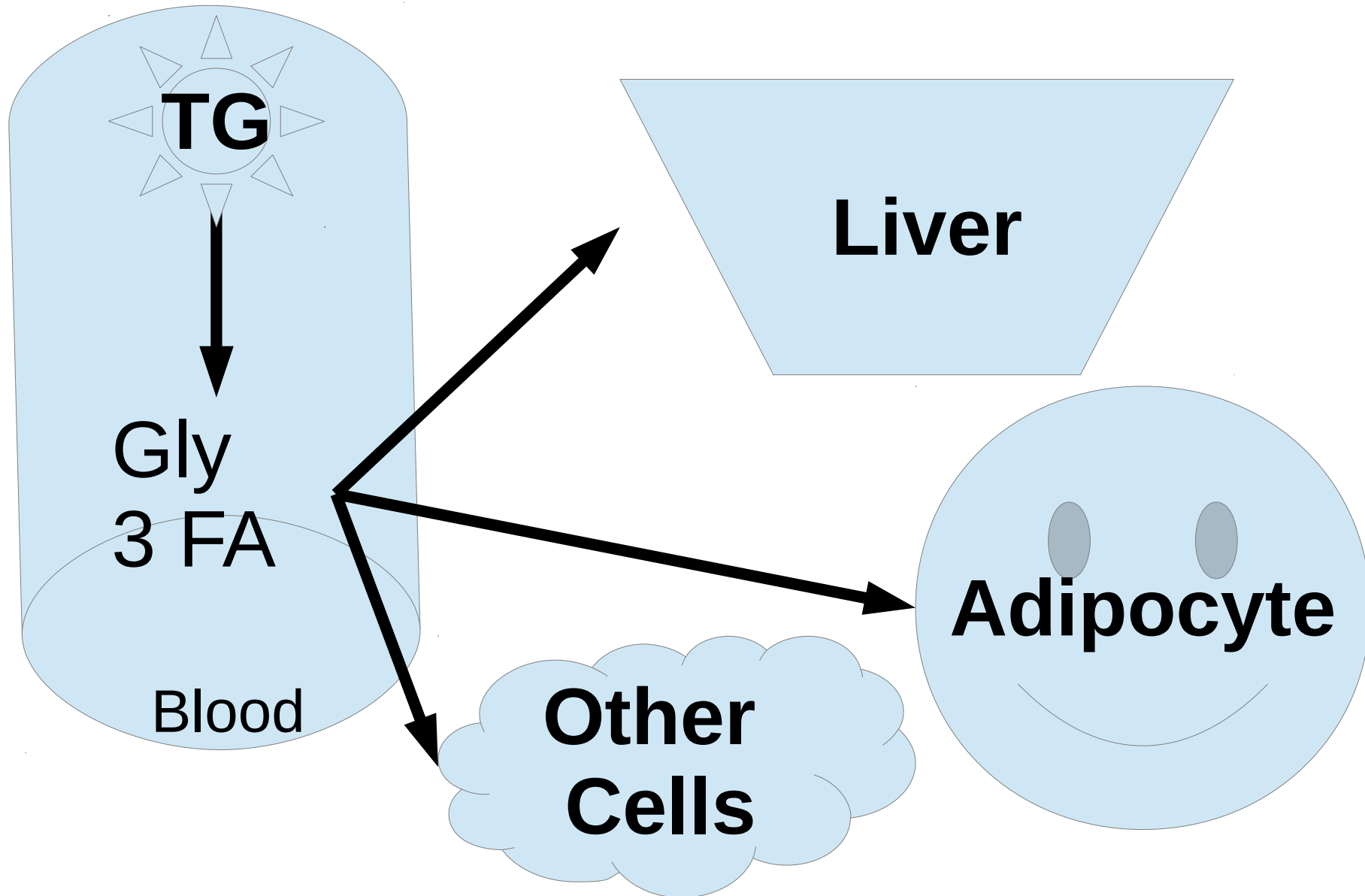
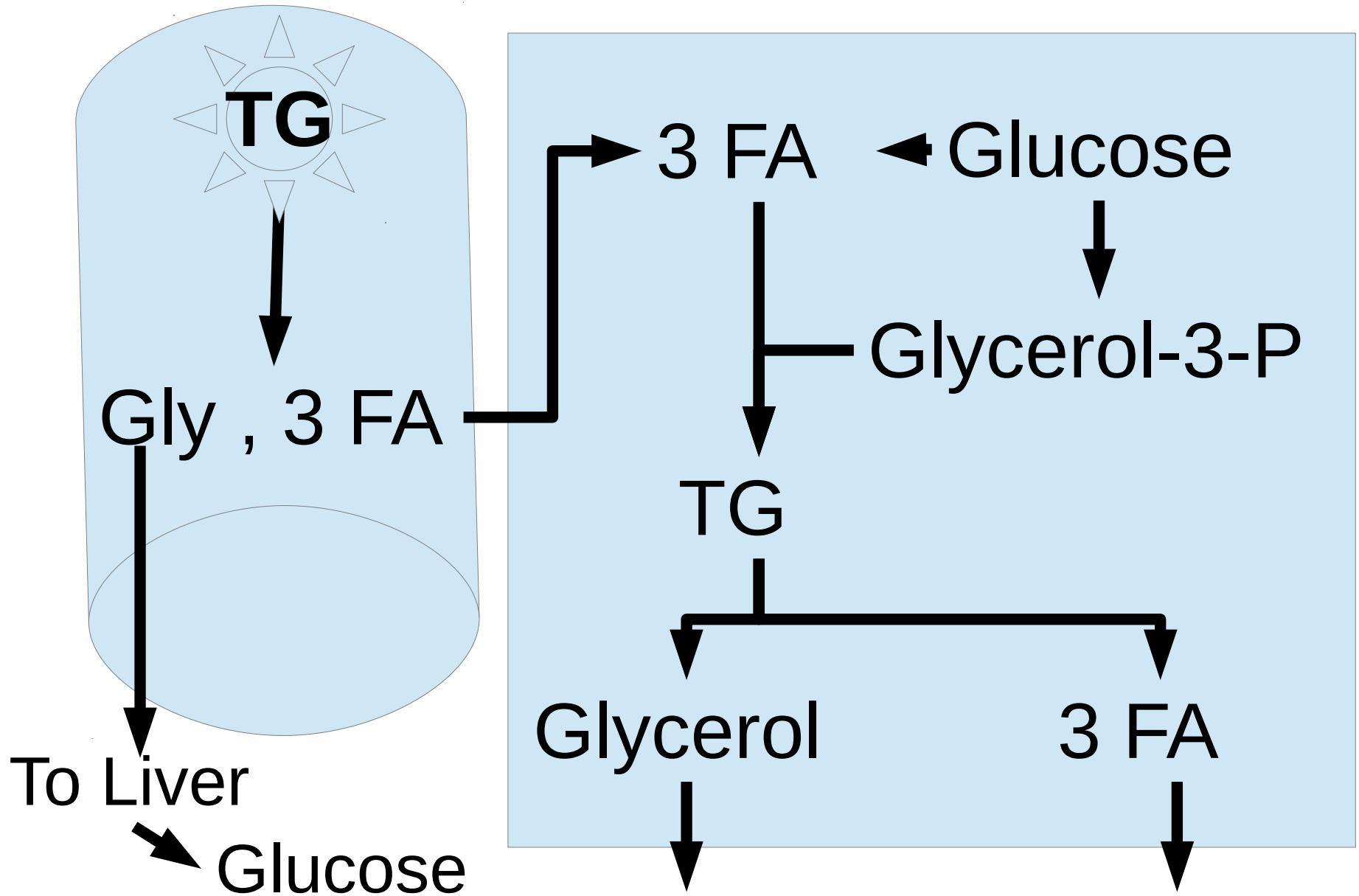


Figure 1. Schematic diagram of a Lipoprotein.

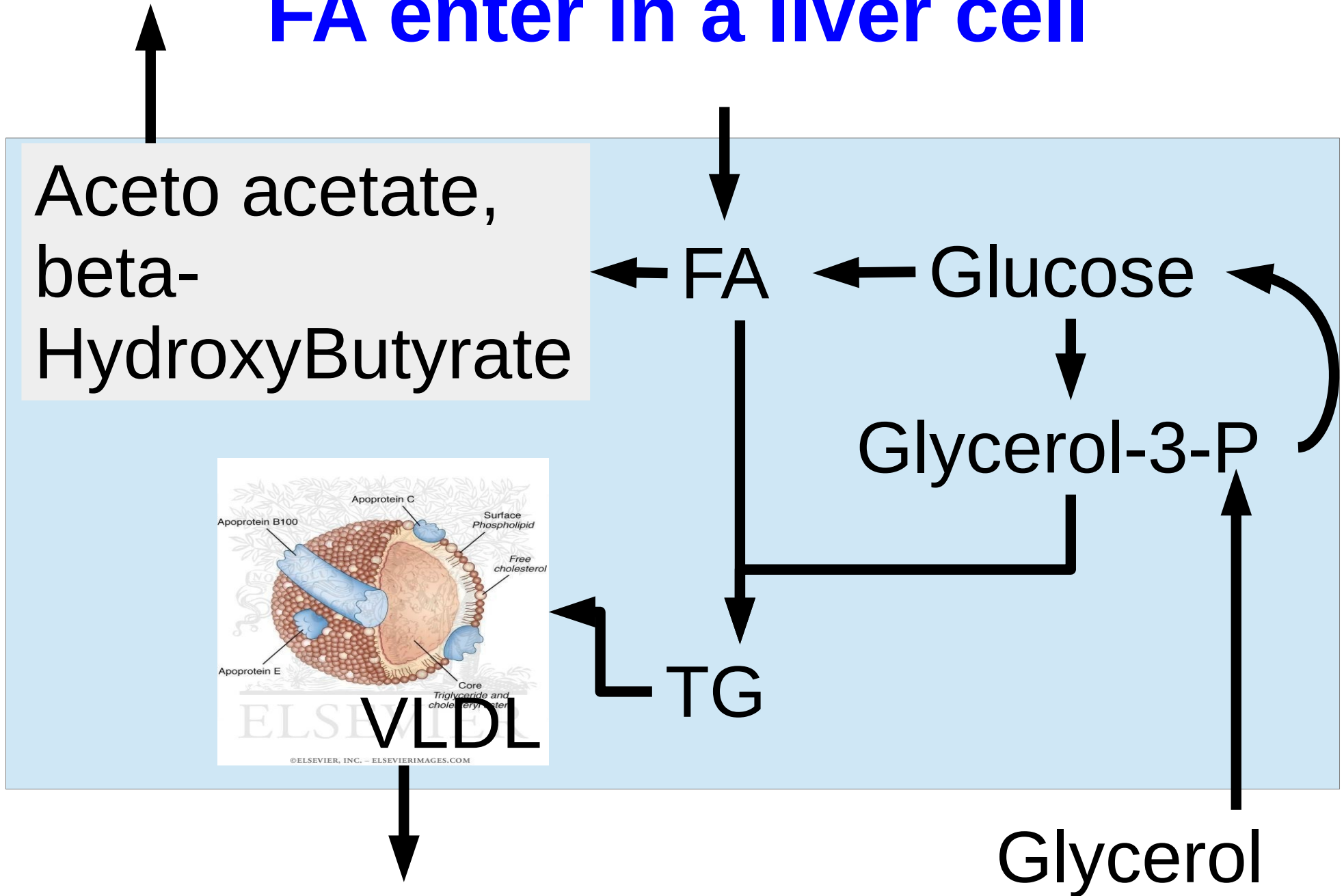
(Blood) TG → FA + Glycerol



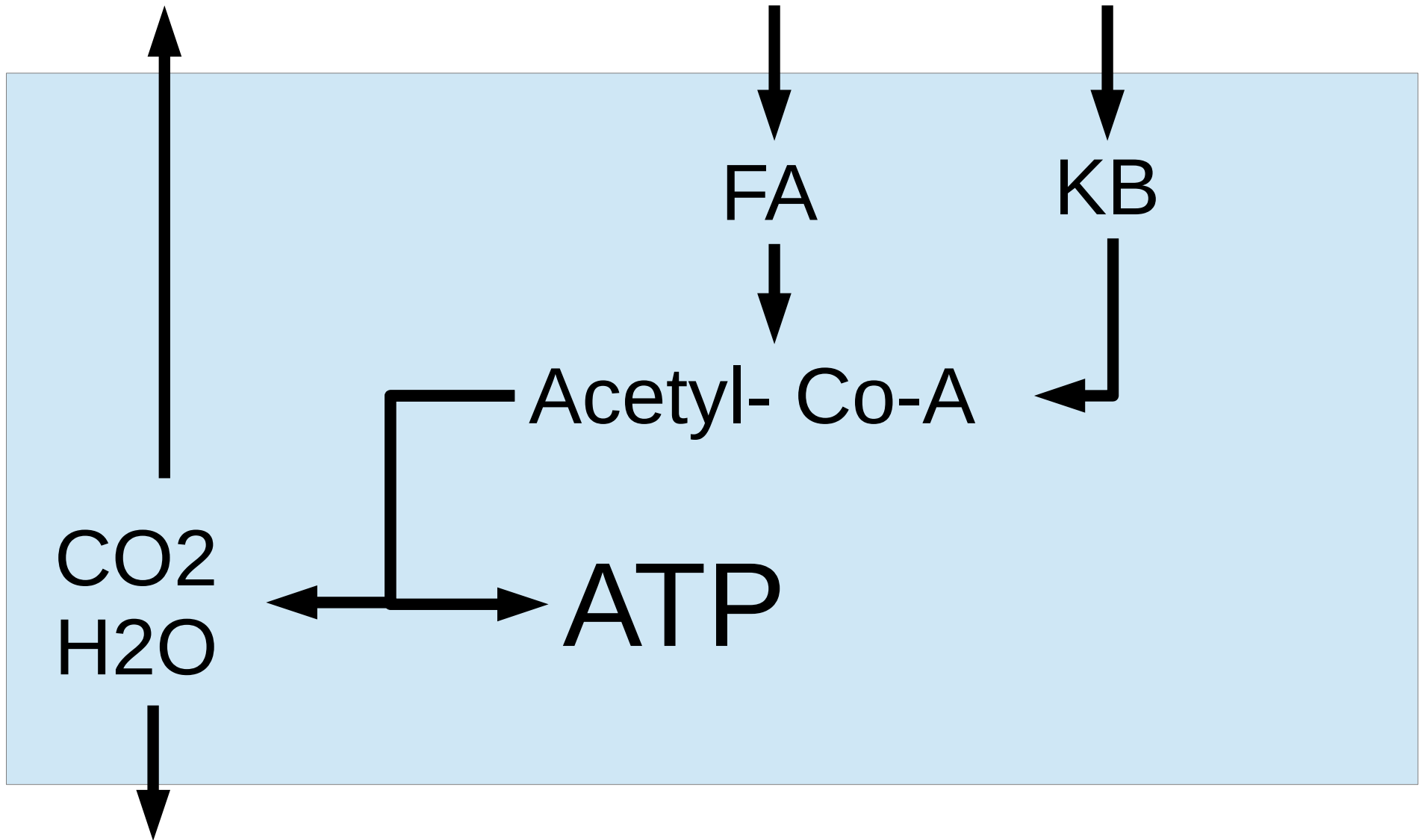
FA enters adipose tissue



FA enter in a liver cell

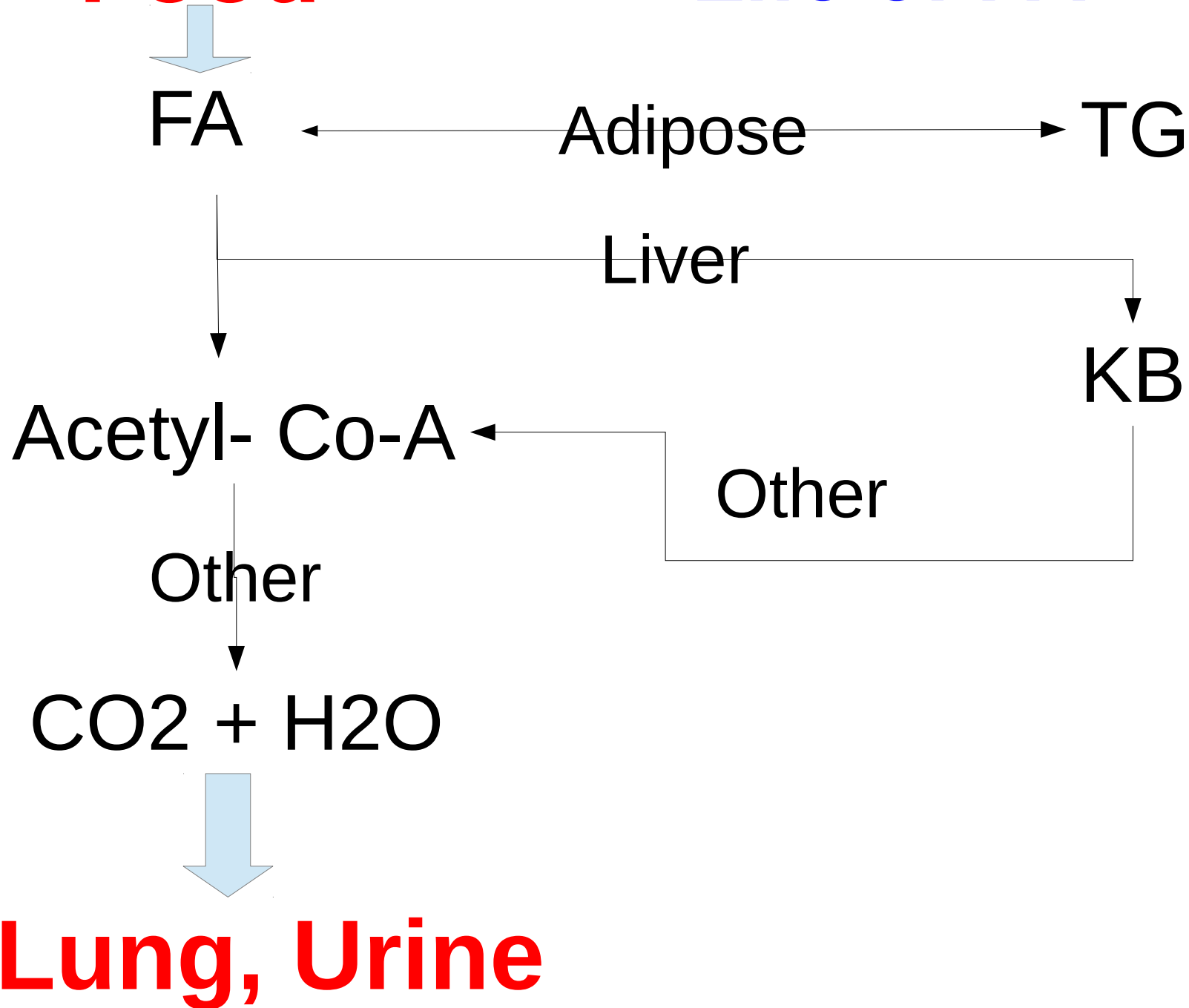


FA enter in a other cell



Food

Life of FA



Fatty acid

Is not Triacylglycerol

Is not Fat

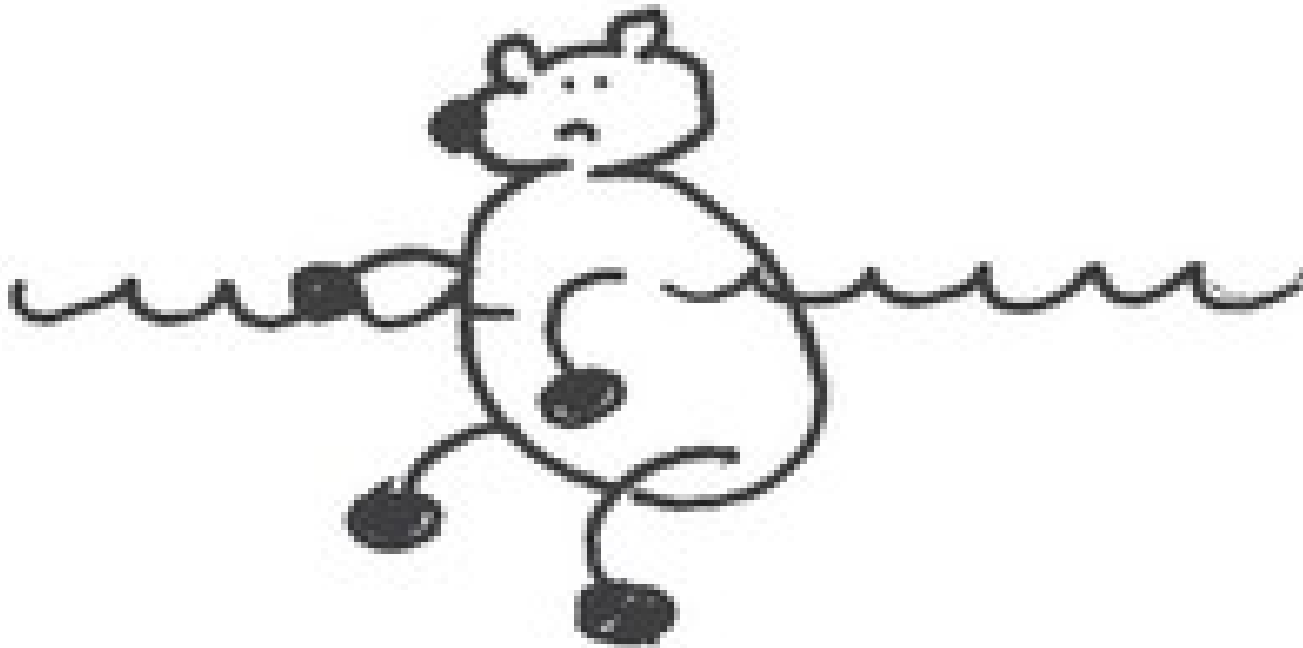
Is not the only Lipid

Is not Cholestrol

Is thin and lean

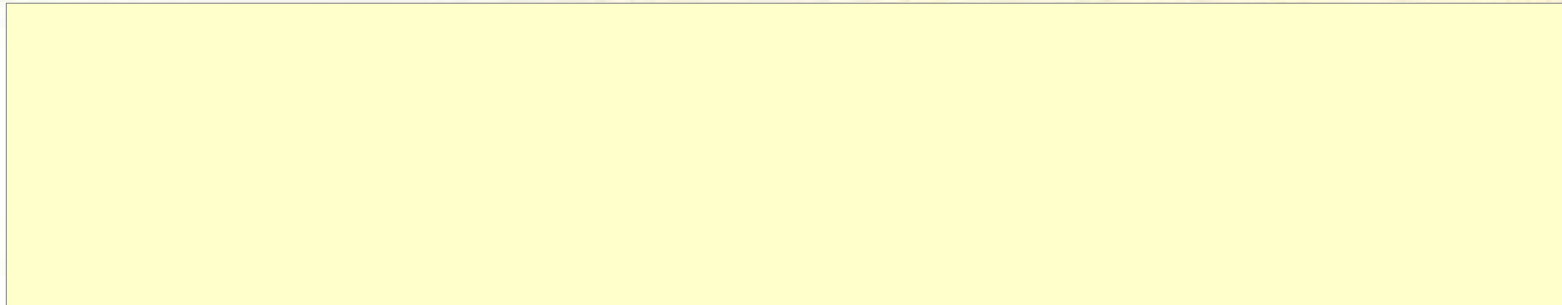
BioJokes

Why did the bear
dissolve in water?



It was a polar bear!

What does this look like to you?



What does this look like to you?



If it looks like a plain hat, you're an adult

Boring Adult

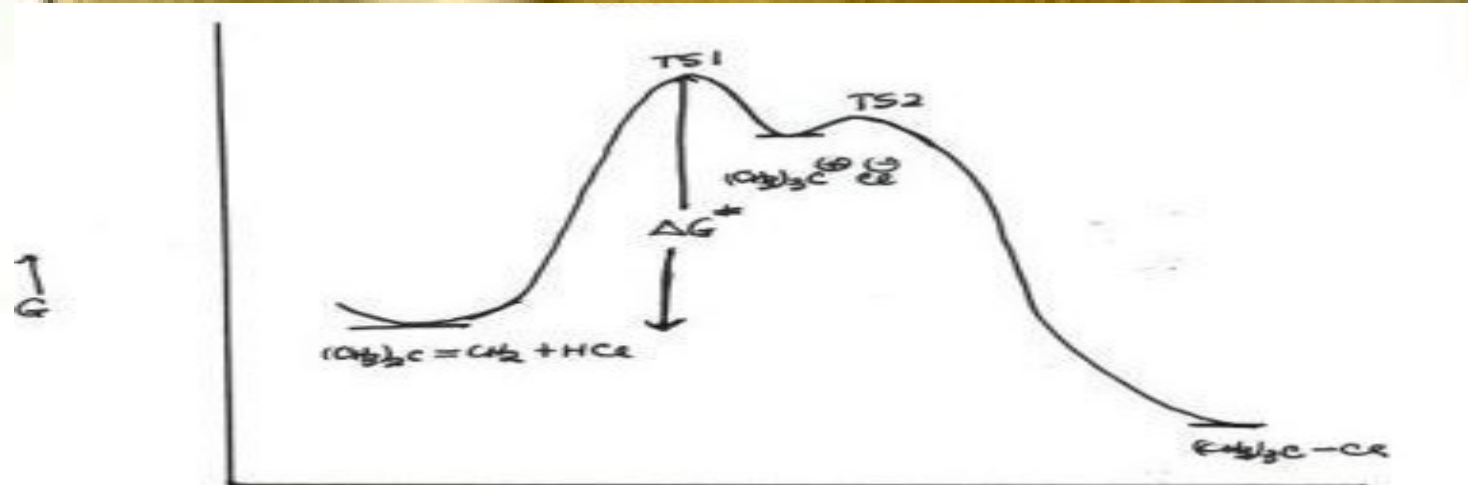
What does this look like to you?



If you think that
It is a Jerry hiding from Tom, You
are still a child

Congratulation!!!!

What does this look like to you?



If U say It is a Free Energy Curve,
You are **hopeless** Biochemistry student

Malnutrition

Mall-nutrition



Tomorrow we'll just have
lettuce and water, OK



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