

Lipid - Triglyceride

(= có enzyme)

Triglyceride

(Phân tán có học)

Hạt Nhuộm trại = Dịch sữa (lần cung = chất +) (= béo → sau tg : phân lớp)

Acid măt

nhuộm tinh hoá ← Mỡ măt + Lecithin

Nhuộm béo (= cần bị phân lớp)

nhuộm tinh hoá ← Lipase dịch tụy

Monoglyceride

Acid béo

hấp thu qua niêm mạc ruột

Tổng hợp

Triglycerides

+ Cholesterol

+ Phospholipid

+ Protein

Lipoprotein (dạng vỡ' lipid trong máu)

thực
đường
ngại sinh

HDL

- LDL

- IDL

- VLDL

Chylomicrons

còn lại → Gan chia hóa, tổng hợp

+ B10A + C + E

VLDL

Monoglyceride
a. béo

cung cấp

Mỡ, cơ

dù cholesterol

← Lipoprotein lipase

VLDL remnant = IDL (chứa yế Cholesterol)

+ Apolipoprotein B, E

+ Cholesterol

cung cấp cholesterol

máu

LDL (chứa yế Cholesterol)

+ Cholesterol

lấy Cholesterol

dù

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Cùng học Y Khoa

g/ 7/7/23

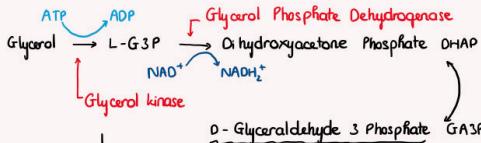
Gan + Ruột non → HDL

dù

Thoaí hoá Tri Glyceride

$$\text{TriGlyceride} \rightarrow \underbrace{\text{A.beo}}_{\text{Glycerol}}$$

Thái hóa Glycerol - Tổng hợp Glycerol



Tổng hợp Triglyceride

Torq high Triglyceride

Glyceral \rightarrow G3P \rightarrow DHAP

RCOSCoA $\xrightarrow{\text{CoA-SH}}$ $\text{DHAP acyl transferase}$

Acyl-dihydroxyacetone phosphate reductase \rightarrow NADH_2 NAD^+

Lys phosphatidic acid 2 acyl transferase →

$$\text{Phosphatidic acid Phosphatase} \rightarrow \text{H}_2\text{O}$$

$$\begin{array}{c} \text{H}_3\text{PO}_4 \\ | \\ \text{C}-\text{OCO R}_1 \\ | \\ \text{C}-\text{OCOR}_2 \\ | \\ \text{C}-\text{OH} \end{array}$$

Diacylglycerol 3' acyl transferase → |

$$\begin{array}{c} \text{R}_2\text{CO}\text{SCoA} \xrightarrow{\hspace{1cm}} \text{CoA-SH} \downarrow \\ | \\ \text{C}-\text{OCO R}_1 \\ | \\ \text{C}-\text{OCOR}_2 \\ | \\ \text{C}-\text{OCH}_3 \end{array}$$

Triacylglycerol = Triglyceride

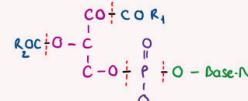
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CÙNG HỌC Y KHOA

Thaoi Roá Phospholipid

Phospholipase A₁, A₂, B, C, D

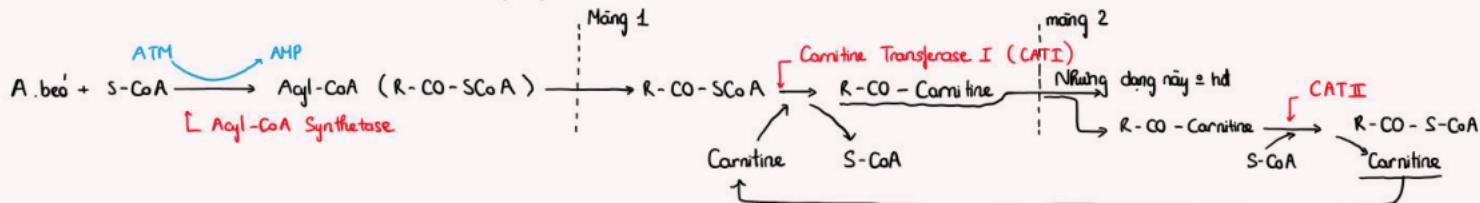


Tổng hợp Phospholipid (CTP → ...)

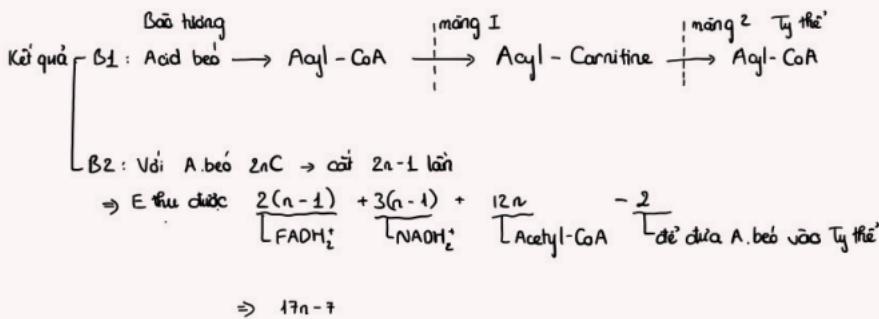
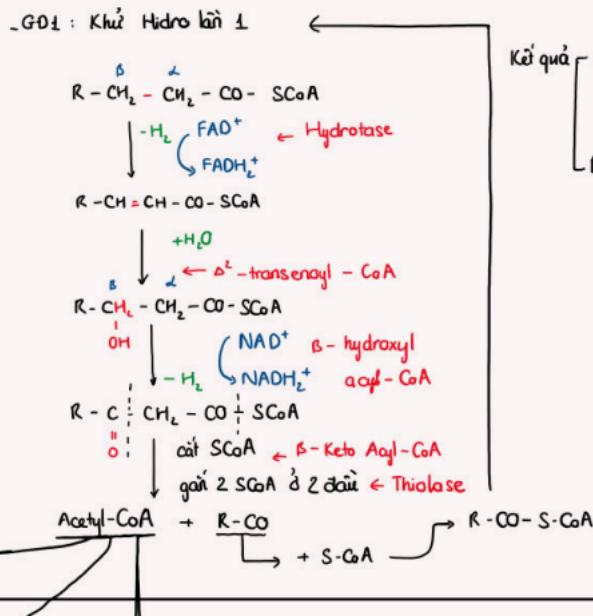
The diagram illustrates the synthesis of Phosphatidylethanolamine from Ethanolamine. Ethanolamine reacts with ATP to form Phosphoethanolamine, releasing ADP. Phosphoethanolamine then reacts with CTP to form COP-ethanolamine, releasing PP_i. COP-ethanolamine is shown in equilibrium with Diacylglycerol + COP-ethanolamine, which further leads to Phosphatidylethanolamine + Cytidine.

Thoái hóa A. béo no, C chẵn → cung E (sảy ra ở Ty thể)

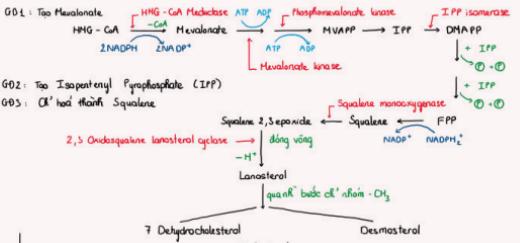
B₁: Hoá hóa A. béo với biến thiên A. béo = quá độ 2 kali mảng Ty thể



B₂: Quá trình β-OH



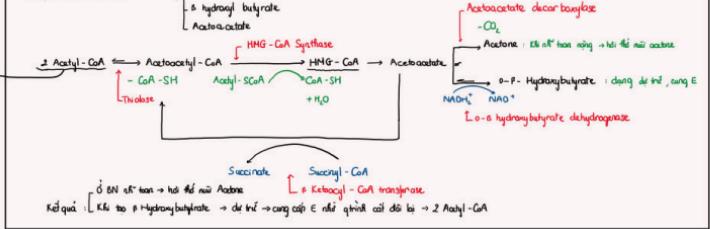
Tổng hợp Cholesterol



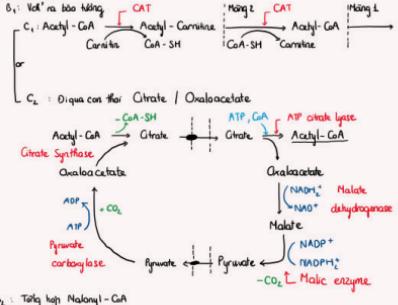
Thối rữa Cholesterol



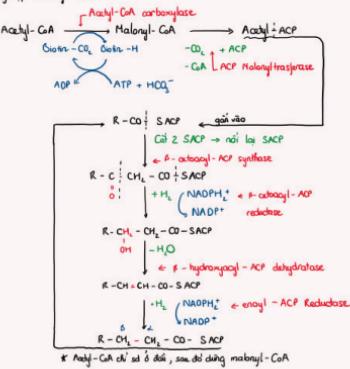
Tổng hợp Thiol Ketone - tên chung Acetone



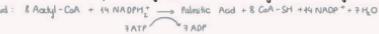
Tổng hợp A. béo



Tổng hợp Malonyl-CoA



Kết quả: Tổng hợp Acid béo từ Acetyl-CoA là béo không



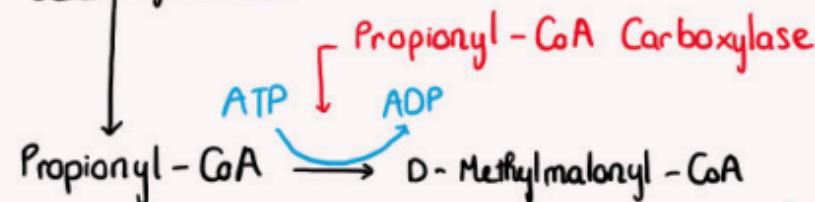
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Cùng học Y khoa

Lý

Ở pú cuối thay vì tạo 2 Acetyl-CoA thì tạo

1 Acetyl CoA + 1 Propionyl-CoA



L-Methylmalonyl-CoA

← Coenzyme B₁₂

← Methyl malonyl-CoA mutase

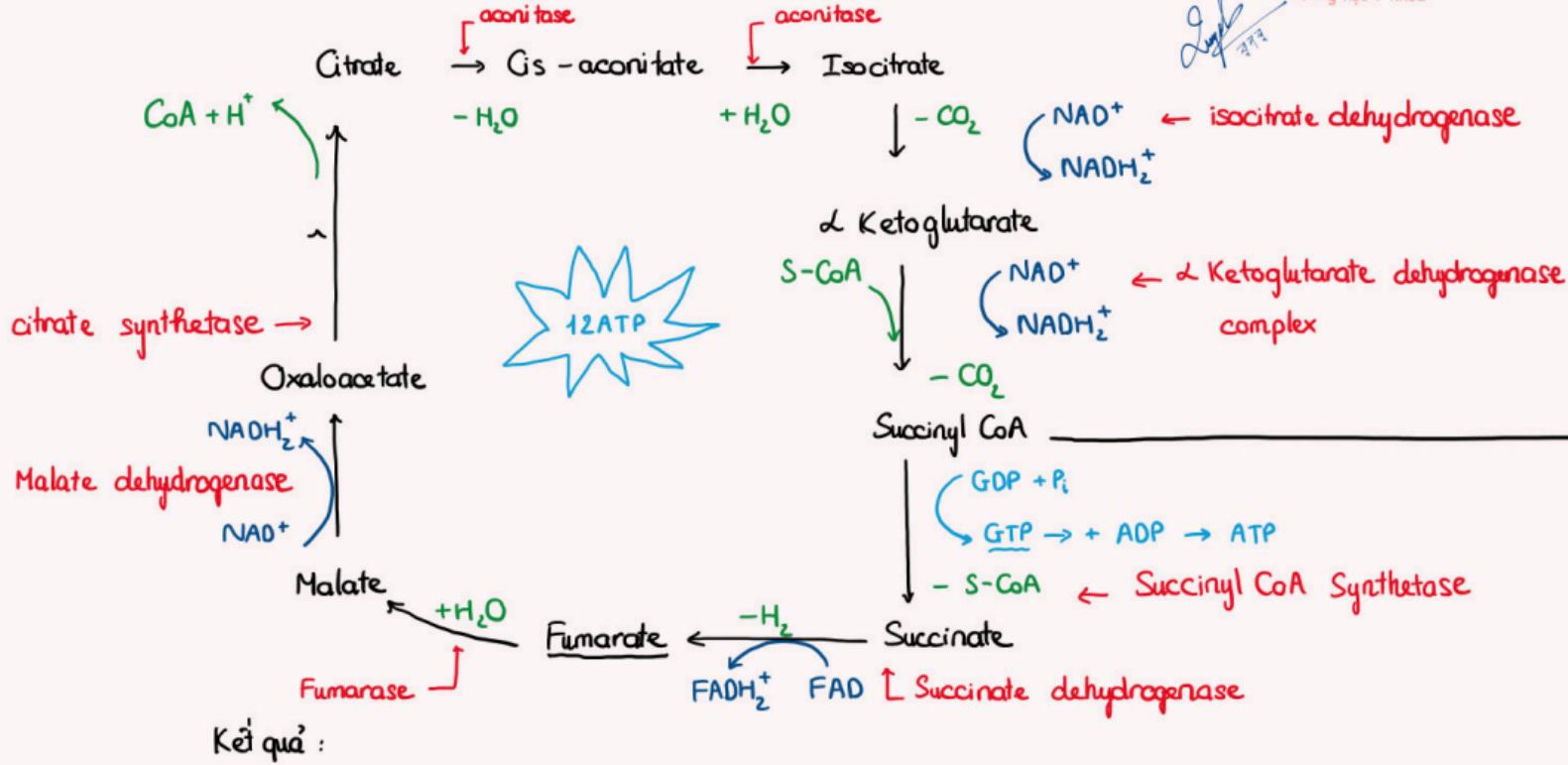
Succinyl-CoA

A.beo Carbon le'

Krebs = Tricarboxylic acid = chu trình Citric Acid

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Cùng học Y khoa



Kết quả:

