Insulin ĐH → **TỔNG HỢP LIPID**

TỔNG HỢP AB (CCHĂN)
- VỊ TRÍ: MÔ (AB ← GAN, MỠ, RUỘT)
- N. LIỆU: LIPID & OTHERS (acetyl CoA)
- PROCESS: BÀO TƯƠNG → TY THỂ, LƯỚI NỘI CHẤT
  - BÀO TƯƠNG ⇓ THIẾP AB MẠCH NGẮN
  - TY THỂ, LƯỚI NỘI CHẤT ⇓ KÉO DÀI MẠCH AB

TRONG BÀO TƯƠNG

Ng liệu: Acetyl CoA
- OXH AB
- OXH aa
- CARBOXYL OXH pyruvate

→ Acetyl CoA

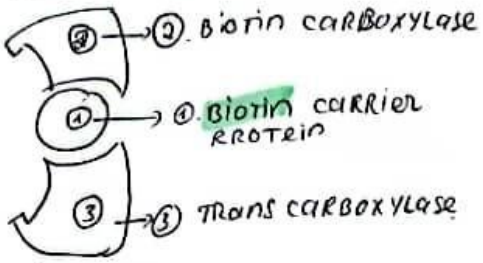
— TY THỂ —

2 ways:
- TRICARBOXYLAT
- carnitin ↑AB ↓Ace CoA

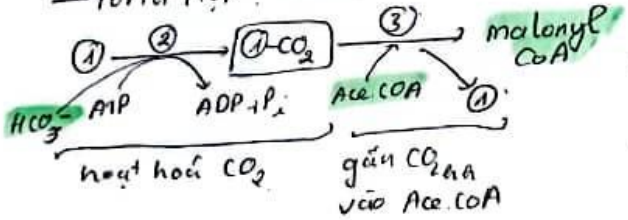
→ BÀO TƯƠNG

Chất trung gian: Malonyl CoA

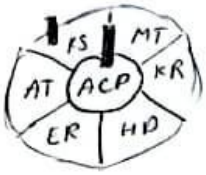
Acetyl carboxylase → ~~malonyl CoA~~ (3 vùng chức năng)



— TỔNG HỢP —



PHỨC HỢP MULTIENZYM



AT: acetyl transferase

MT: malonyl transferase

KS: β-ketoacyl-ACP synthase

KR: β-ketoacyl-ACP reductase

HD: β-hydroxyacyl-ACP ~~dehydrogenase~~ dehydratase

ER: enoyl-ACP reductase

QUÁ TRÌNH

① Acetyl CoA ↓ AT → Acetyl-ACP

② Malonyl-ACP ↑ MT ← Malony CoA

③ NGƯNG TỤ: KS → acetoacetyl-ACP (CO_2)

④ KHỬ 1: KR → β hydroxyacyl-ACP (NADPH + H^+ → $NADP^+$)

⑤ KHỬ NƯỚC: HD → crotonyl ACP (H_2O)

⑥ KHỬ 2: ER → Butyryl-ACP (NADPH + H^+ → $NADP^+$)

⇓ PALMITYL-ACP

→ acid palmitic tự do ← thioesterase

→ palmityl CoA ← gắn CoA

[Cần malonyl CoA]

TY THỂ, LNC — ACID PALMITIC 16C → KHỬ → DEHYDRAT → KHỬ → 18C

ngược với β-OXH

LIVEWORKSHEETS

Insulin ĐH → **TỔNG HỢP LIPID**

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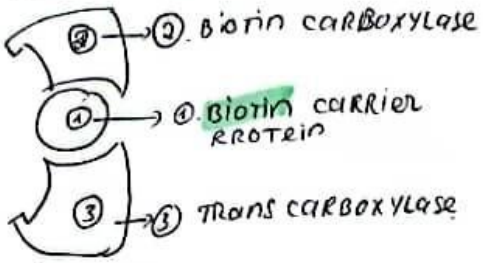

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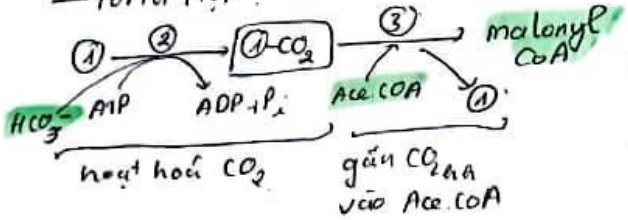

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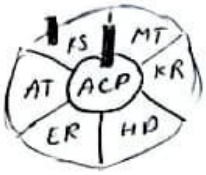

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