



Medical Committee  
The University of Jordan

# SLIDE SHEET

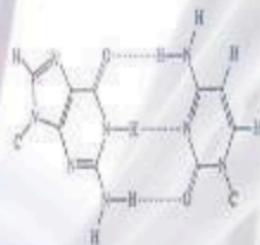


SLIDE : 18



DR.NAME: Faisal Al-Khateib

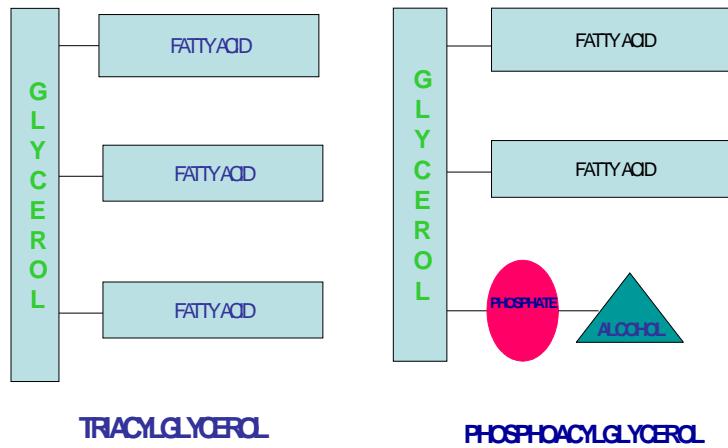
Biochemistry



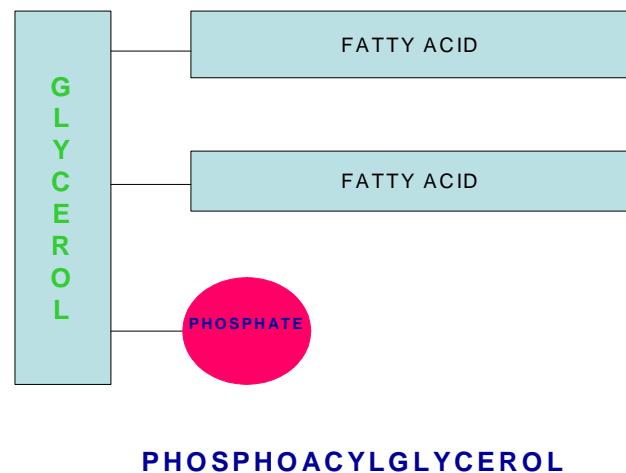
Majida Al-Foqaraa'

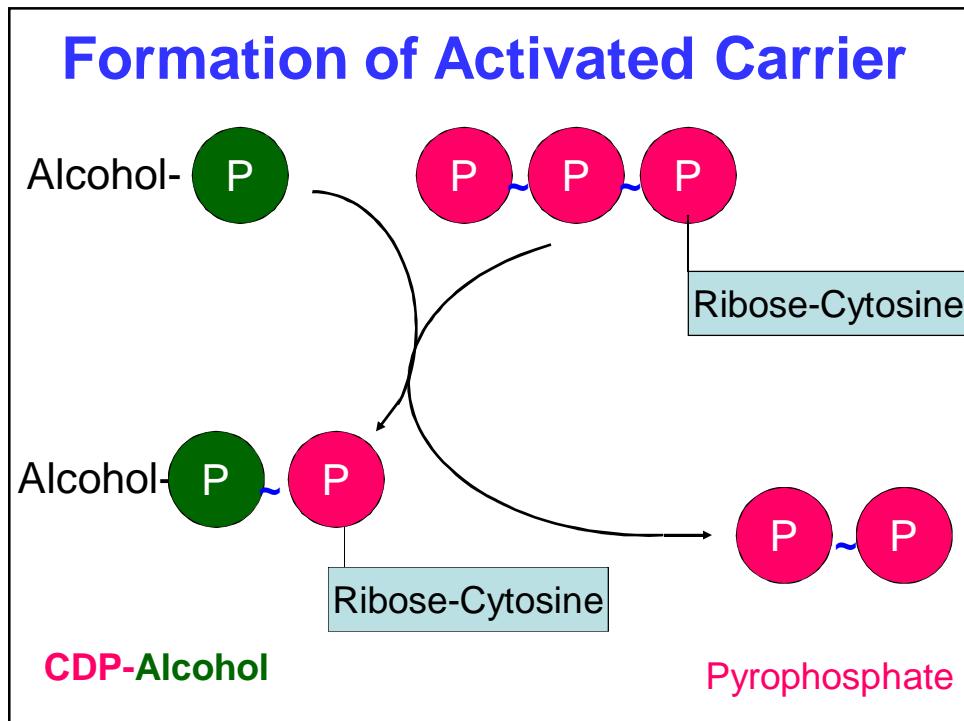
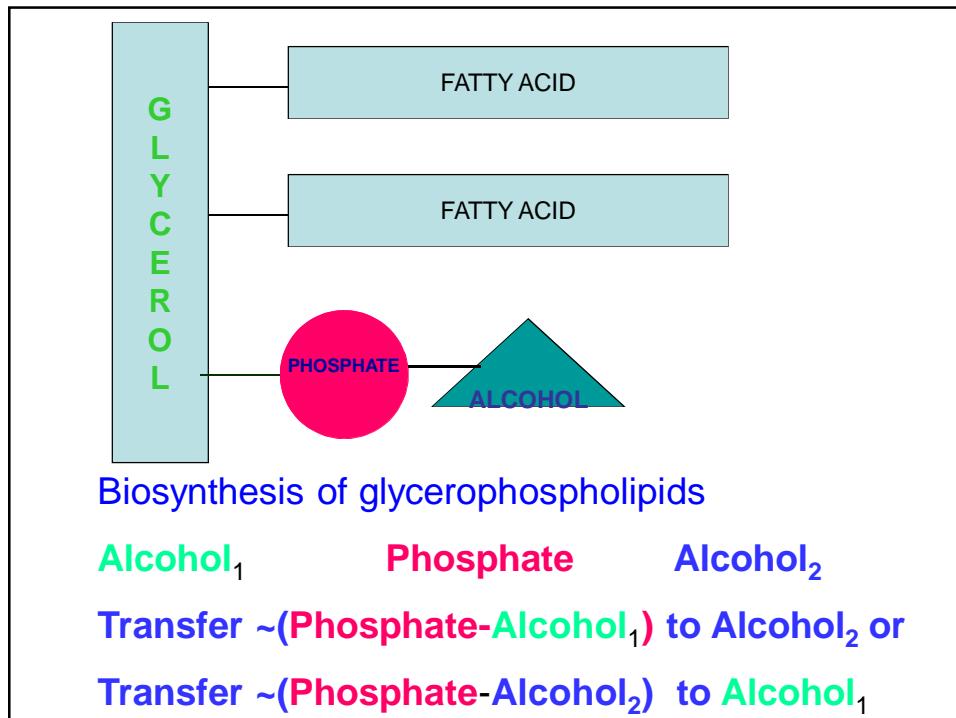
331

## Biosynthesis of Triacylglycerol & Phosphoacylglycerol



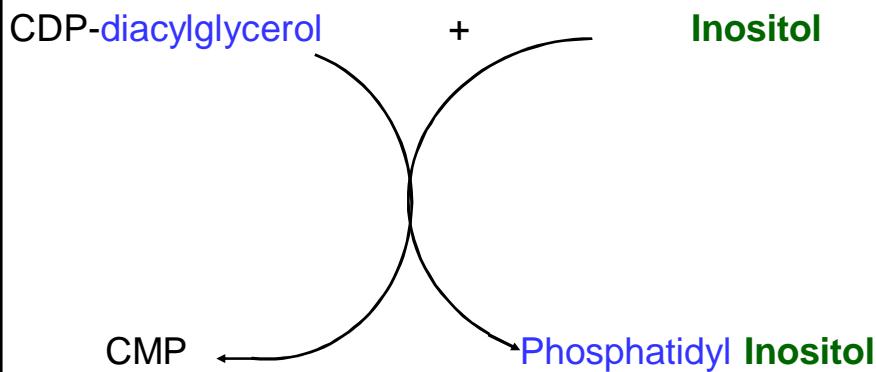
Phosphotadic Acid is Common Intermediate





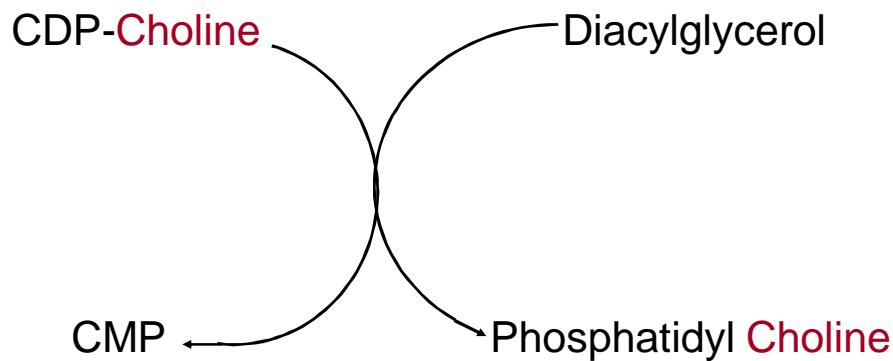
## Synthesis of Phosphatidyl Inositol

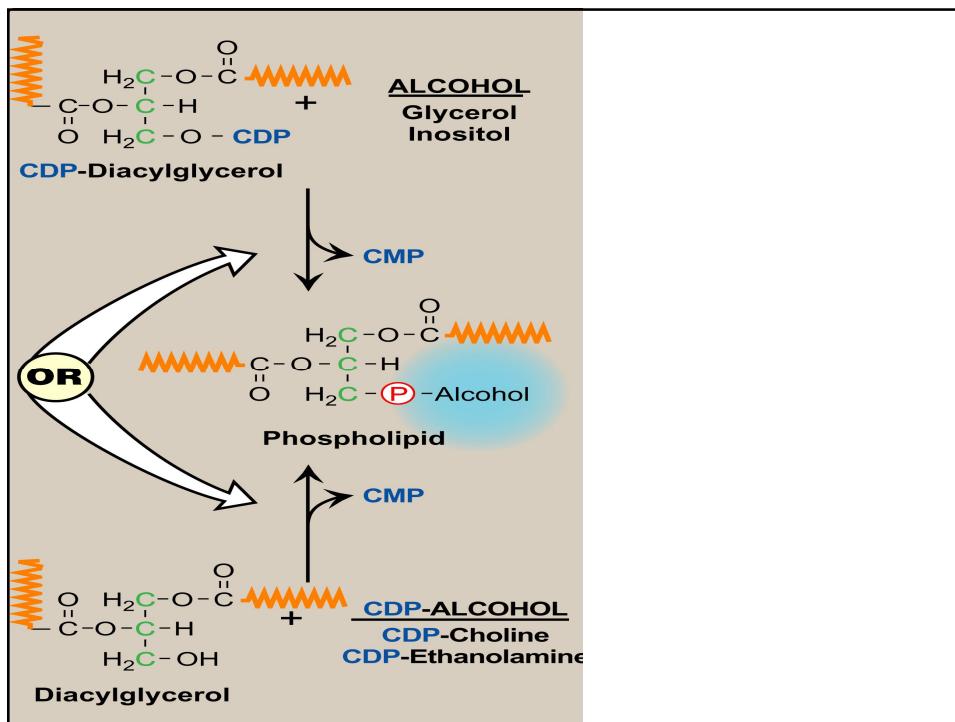
Transfer or Phosphatidic acid to Inositol



## Synthesis of Phosphatidyl Choline

Transfer or Phosphocholine (Ethanolamine) to Diacylglycerol





## Alteration of Polar Head Group

- Exchange of the Polar Head Group

Phosphatidyl Ethanolamine

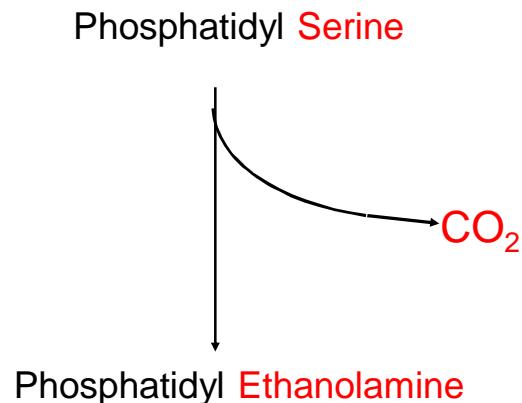
Serine

- Phosphatidyl Serine

Ethanolamine

## Alteration of Polar Head Group

- Decarboxylation of Phosphatidyl Serine

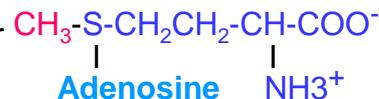


## Alteration of Polar Head Group

- Methylation of Phosphatidyl Ethanolamine

S- Adenosyl Methionine (SAM); Methyl donor

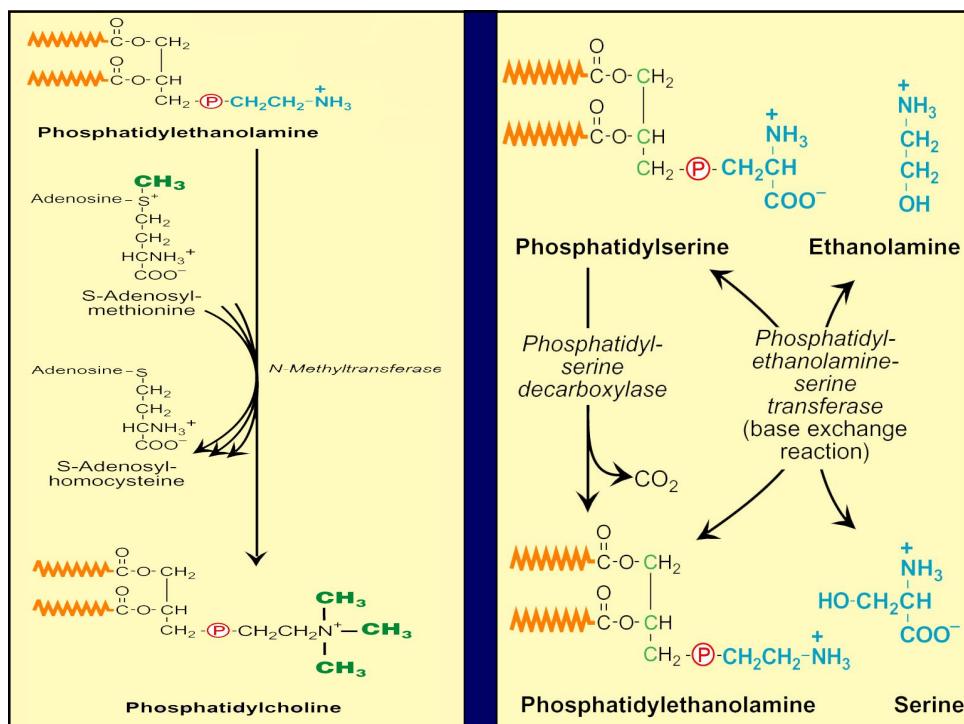
Phosphatidyl **Ethanolamine**



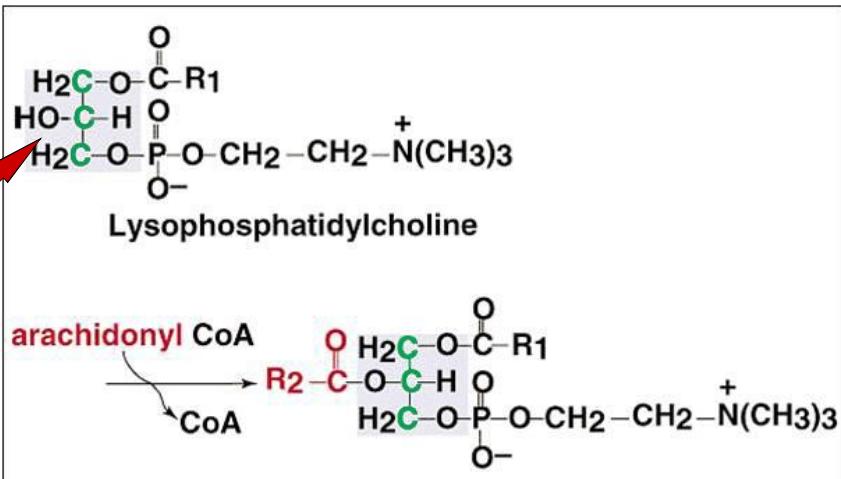
→ S- Adenosyl Homocysteine

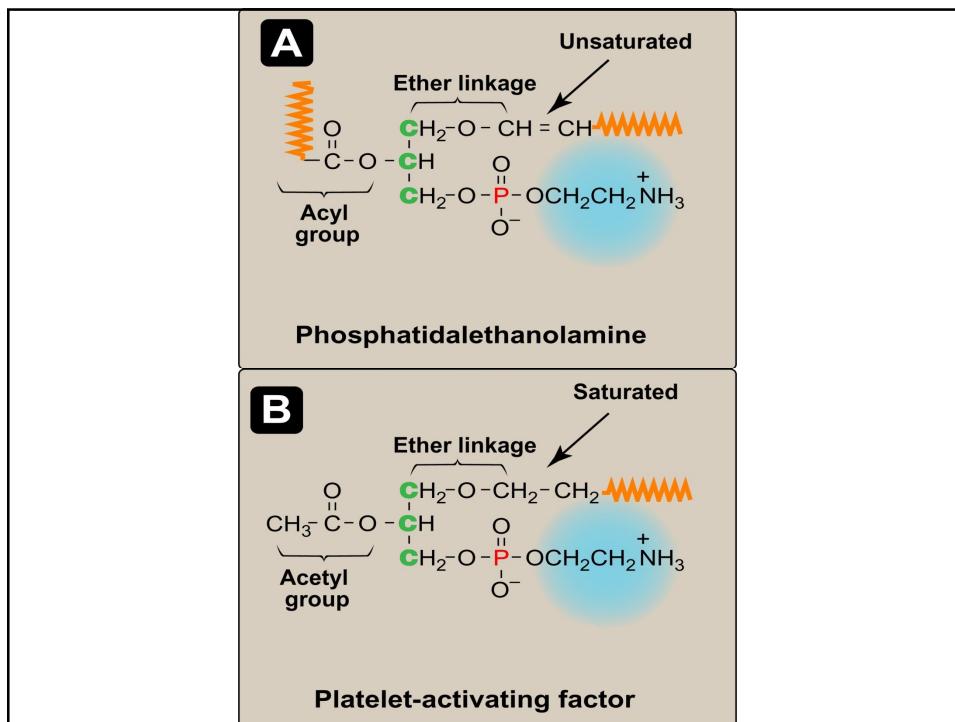
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Phosphatidyl **Choline**



### Remodeling Phospholipids: Changing the Fatty Acid





## Surfactant Action of Phospholipids

