

## I. Hub Reaction

A. acetyl-CoA

B. pyruvate dehydrogenase (PDH) complex

1. size

2. cofactors

3. enzymes

a. pyruvate dehydrogenase - E<sub>1</sub>

b. dihydrolipoyl tranacetylase - E<sub>2</sub>

c. dihydrolipoyl dehydrogenase - E<sub>3</sub>

## II. Reactions

A. Decarboxylation

B. Oxidation

C. formation of acetyl CoA

## III. Beriberi disease