

# BACTERIAL METABOLISM

Glucose  
Lactose  
Mannitol

Amino  
Acids

Glycerol  
Fatty Acids

$\text{NH}_3$

UREA

PYRUVATE

Fermentation

LACTIC ACID

ETHANOL

2,3-BUTANEDIOL

MIXED ACIDS

ACETYL COA

KREBS  
CYCLE

ATP SYNTHASE

