BI/CH 422/622 on 2/22/22	
OUTLINE:	
Introduction and review	
Transport	
Pasteur: Anaerobic vs Aerobic	Exam-1 material
Fermentations	Exam-2 material
Pyruvate	
pyruvate dehydrogenase (ox-decarbox; S-ester)	
Krebs' Cycle	
How did he figure it out?	
Overview 8 Steps	
Citrate Synthase (C-C)	
Aconitase (=, -OH)	
Isocitrate dehydrogenase (ox-decarbox; =0) Ketoglutarate dehydrogenase (ox-decarbox; S-ester)	
Succinyl-CoA synthetase (sub-level phos) Succinate dehydrogenase (=)	
Fumarase (-OH)	
Malate dehydrogenase (=0)	
Energetics Regulation	
Summary	
Oxidative Phosphorylation	
Energetics	
Mitochondria	
Transport	
•	
Electron transport	
Discovery	
Four Complexes	

































