BB 422/622		
Introduction and review Transport Glycogenolysis Glycolysis Other sugars Pasteur: Anaerobic vs Aerol	Exam-1 material	Exam-3 material
Krebs' Cycle	Exam-2 materia e dehydrogenase (ox-decarbox; S-ester) he figure it out?	Catabolism: Lipid Degradation Digestion and storage FOUR stages lipid catabolism Mobilization from adipose tissues
8 Steps	Citrate Synthase (C-C) Aconitase (=, -OH) Isocitrate dehydrogenase (ox-decarbox; =O) Ketoglutarate dehydrogenase (ox-decarbox; S-e Succinyl-COA synthetase (sub-level phos) Succinate dehydrogenase (=) Fumarase (-OH) Malate dehydrogenase (=O)	Activation of fatty acids Transport into mitochondria Oxidation Saturated Unsaturated Odd-chain
Mitochon Transpor	n rylation ss (-0.16 V needed for making ATP) dria t (2.4 kcal/mol needed to transport H' out) transport Discovery Four Complexes Complex II: NADH → CoQH₂ Complex II: Succinate → CoQH₂	Ketone Bodies Oxidation in other organelles Catabolism: Nitrogenous Digestion Inside of cells Protein turnover
Chemiosn	Complex III: CoQH→ > Cytochrome Complex IV: Cytochrome C (Fe²) = notic theory: Phosphorylation ATPase Mitchell Hypothesis Binding-Change Model Connection to the proton motive force Net ATP production Regulation Exam-2 material	H=○ Proteosome Urea Cycle Amino-acid Degradation Nucleotide Degradation







































