BB 422/622	
OUTLINE:	ANABOLISM I: Carbohydrates
Fransport Giveogenoisus Giveogenoisus Giveogenoisus Giveogenoisus Giveogenoisus Fasteur: Anaerobic vs Aerobic Fermentations Exam-1 material	PHOTOSYNTHESIS: Overview of Photosynthesis
Pyruvate Exam-2 material Krebs' Cycle Oxidative Phosphorylation Electron transport Chemiosmotic theory: Phosphorylation	Key experiments: Light Reactions
Fat Catabolism Fatty acid Catabolism Mobilization from tissues (mostly adipose) Activation of fatty acids	pigments HOW
Transport; carlifine Oxidation: b-oxidation, 4 steps: Saturated FA Unsaturated FA Odd-chain FA Ketone Bodies Protein Catabolism	Light absorbing complexes-"red-drop expt" Reaction center Photosystems (PS) PSII – oxygen from water splitting PSI – NADPH
Digestion, lysosome, Ubiquitin-Proteosome Amino-Acid Degradation Dealing with the nitrogen	Proton Motive Force - ATP
Urea Cycle Dealing with the carbon Seven Familias One-carbon (1-C) metabolism; THF, SAM PLP uses Convergence with Fatty acid-odd chain Nucleic Acid and Nucleotide Degradatio Nucleatides	Carbon Assimilation - Calvin Cycle Stage One - Rubisco Stage Two - making sugar Stage Three - remaking Ru 1,5P ₂ Overview and regulation
Salvage pathway Degradation of purines Degradation of pyrimidines	Caivin cycle connections to biosynthesis C4 versus C3 plants Kornberg cycle – glyoxylate

























































