Carbohydrate Metabolism Metabolism of cofactor and Vitamines Amino Acid Metabolism Metabolism of complex Lipids Pantothenate and Biotin Ubiquinone CoA biosynthesis Ascorbate and aldarate Fructose and mann Urea cycle and Glycine, serine metabolism of and threonine amino groups Valine, leucine and isoleucine biosynthesis Phenylalanine, tyrosine and tryptophan biosynthesis Glycolysis / Gluconeogenesis One carbon pool by folate Nicotinate and nicotinamide Folate biosynthesis Methionine Prostaglandin and leukotriene Glyoxylate and dicarboxylate Phospholipid degradation UT VAL Vitamin B6 C5-Branched dibasic acid Pentose and glucuronate interconversions Pyruvate Nucleotide Metabolism Energy Metabolism Purine Nucleotide sugars Oxidative phosphorylation Sulfur Reductive carboxylate cycle (CO2 fixation) Methane Lipid Metabolism Metabolism of complex Carbohydrate Estry acid biosynthesis (path 1) Grant 1 (path 1) Sterol biosynthesis (path 1) Grant 2 (pat Starch and su Lipopolysaccharide biosynthesis Caprolactam degradation Flavonoids, stilbene and lignin biosynthesis Carbon fixation Fatty acid Metabolism of Other Amino Acid beta-Alanine Selenoamino acid Cyanoamino acid C21-Steroid hormone Peptideglycar biosynthesis Fatty acid biosynthesis (path 2) Alkaloid biosynthesis I Aminoacyl-tRNA Alkaloid biosynthesis II biosynthesis Terpenoid biosynthesis Androgen and estrogen Bile acid biosynthesis D-Arginine and D-omithine Glutathione