Pathway of Nutritional Biochemistry INTERRELATIONSHIPS BETWEEN GLUCOSE AND LIPID METABOLISM II Glycogen Glucose-6-P **ATP** Glucose C02 NADP⁺ Fructose-6 NADPH pentose shunt phosphofructokinase Ribulose-5-P ADF Fructose-1,6-bisP Dihydroxyacetone-P Glyceraldehyde-3-P glyceraldehyde 3-P dehydrogenase NAD+ NADH inhibition by increased long chain fatty acids, their ADP oxidation products and phosphoglycerate kinase ATF presence of increased ATP 3-Phosphoglycerate 2-Phosphoglycerate Phosphoenolpyruvate Triglycerides ADF phospholipids prostaglandins NAQ⁺ NADH^{ATP} etc. **Pyruvate** lactate β-oxidation Δ mono- and Saturated polyunsaturated Acetyl CoA fatty acids fatty acids desaturase lipogenesis citrate and svnthase elongase acetyl CoA carboxylase and fatty acid synthase TCA cycle

The first pathway, "Interrelationships between glucose and lipid metabolism I," (page 549) provides a simple illustration for use as a slide or presentation graphic; the second pathway, shown above, is a more detailed graphic of the first pathway for use as a reference.