The Lipids and Lipoproteins Sub-Core provides quantitative and qualitative measurements of plasma and tissue lipids and lipoproteins to researchers who study atherosclerosis, dyslipidemia, diabetes, obesity, hypertension, and other metabolic diseases.

Some of the services provided are routine assays (e.g., plasma lipid and lipoprotein levels) that have widespread applicability. However, most of the assays available through our Subcore are unique services, not offered by other centralized laboratories at VUMC or elsewhere. For example, we can quantitate a variety of cellular or tissue lipids by gas chromatographic techniques. In addition, we can provide fatty acid composition data for all the lipid esters (e.g., cholesterol esters, triglycerides, diglycerides, phospholipids) as well as levels and distribution of plasma free fatty acids. The Lipids and Lipoproteins Subcore provides investigators with efficient, high quality, low cost analyses that for the most part are not available through any other mechanism.

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Publications / Citations

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MeSH Terms

Animals, Blood Glucose, Cell Line, Tumor, Diet, High-Fat, Dietary Carbohydrates, Dietary Fats, Dogs, Endoplasmic Reticulum Stress, Fructose, Glucokinase, Glucose, Glycerol, Hepatocytes, Lactic Acid, Liver, Male, Palmitic Acid, Phospholipids, Rats, Rats, Sprague-Dawley, Triglycerides