Lipid Core

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

   - Primary publication · 24865981 (PubMed) · PMC4101635 (PubMed Central) · Added on 6/2/2014
   - Primary publication · 24859739 (PubMed) · PMC4076085 (PubMed Central) · Added on 1/23/2015

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