

SERVICE REQUEST FORM FOR HUMAN PHENOTYPING CORE

**ADIPOSE TISSUE SUBCORE
NEW YORK OBESITY NUTRITION RESEARCH CENTER**

PROJECT PI:	Last Name _____	First Name _____
	Phone#: _____	EMAIL: _____

PROJECT TITLE:	_____

Measurement	Type	Member	Academic non-member
<input type="checkbox"/> Isolation of primary adipocytes and stromal vascular fraction (for up to 6 samples)	cell isolation		
<input type="checkbox"/> Quantification and Isolation of adipose tissue immune cells, including macrophages, lymphocytes and NK cells by Fluorescence Activated Cell Sorting (FACS) (per sample)	immune cells isolation & quantification		
<input type="checkbox"/> Quantitative PCR for adipokine gene expression in whole fat, adipocytes, stromal vascular fraction, and macrophages (per assay per sample)	gene expression analysis		
<input type="checkbox"/> Western Blot for adipokine expression and insulin signal transduction elements (for up to 12 samples)	functional analysis		
<input type="checkbox"/> Quantitative assessment of macrophage infiltration by immunostaining (per sample)	immunological analysis		
<input type="checkbox"/> Determination of adipocyte size and number in paraffin-embedded samples by computer-assisted analysis (per sample)	morphological analysis		
<input type="checkbox"/> Adipose tissue lipoprotein lipase activity in frozen samples (per sample)	functional analysis		
<input type="checkbox"/> In vitro adipose tissue lipolysis and glucose uptake (per assay/sample)	functional analysis		
<input type="checkbox"/> Culture and differentiation of primary or 3T3-L1 preadipocytes in vitro (for up to 12 samples)	cell differentiation		
<input type="checkbox"/> Adipokine secretion assay (per assay, for up to 10 samples)	functional analysis		
<input type="checkbox"/> Adipose tissue histology: <input type="checkbox"/> Machine processing and embedding (per block) <input type="checkbox"/> Paraffin tissue sectioning (per slide) <input type="checkbox"/> immunohistochemistry (per slide) <input type="checkbox"/> H&E staining (per slide)	morphological analysis		
<input type="checkbox"/> Training in adipose tissue sample preparation: <input type="checkbox"/> protein extraction <input type="checkbox"/> RNA extraction	training		

For inquiries or cost information, please contact yz84@columbia.edu

Attach approved IRB protocol, and/or consent form where relevant and email the completed Service Request Form to yz84@columbia.edu