

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
☐ Isolation of primary adipocytes and stromal vascular fraction (for up to 6 samples)	cell isolation		
☐ 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		
☐ Quantitative PCR for adipokine gene expression in whole fat, adipocytes, stromal vascular fraction, and macrophages (per assay per sample)	gene expression analysis		
☐ Western Blot for adipokine expression and insulin signal transduction elements (for up to 12 samples)	functional analysis		
☐ Quantitative assessment of macrophage infiltration by immunostaining (per sample)	immunological analysis		
☐ Determination of adipocyte size and number in paraffin-embedded samples by computer-assisted analysis (per sample)	morphological analysis		
☐ Adipose tissue lipoprotein lipase activity in frozen samples (per sample)	functional analysis		
☐ In vitro adipose tissue lipolysis and glucose uptake (per assay/sample)	functional analysis		
☐ Culture and differentiation of primary or 3T3-L1 preadipocytes in vitro (for up to 12 samples)	cell differentiation		
☐ Adipokine secretion assay (per assay, for up to 10 samples)	functional analysis		
☐ Adipose tissue histology: ☐ Machine processing and embedding (per block) ☐ Paraffin tissue sectioning (per slide) ☐ immunohistochemistry (per slide) ☐ H&E staining (per slide)	morphological analysis		
☐ Training in adipose tissue sample preparation: ☐ protein extraction ☐ RNA extraction	training	free	free

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