6 months prior to collection

Survey Coordinator

Conduct surveys via telephone to identify those willing to provide a blood specimen and links participant's name to a survey ID

3-4 weeks prior to collection

Study Coordinator

Hire and train phlebotomy team in collection protocol

1-2 weeks prior to collection

Study Coordinator

Schedule appointments for blood collection

Kit Assembly Laboratory

Prepare specimen collection kits for each participant - prelabel vacutainers and vials

1 week prior to collection

Phlebotomist

Pilot the blood collection protocol

Day before collection

Study Coordinator

Reminder call to participant	Create appointment schedule for phlebotomist	Assemble and verify all supplies are ready for phlebotomist pickup	Notify Processing Laboratory of anticipated quantity and time of deliveries

Day of collection

Phlebotomist

Obtain supplies from Study Coordinator	Upon arrival at participant's home, check-in with Study Coordinator via phone	Take all supplies into home

Time: 0 min

Begin Blood Collection

Read and sign consent form

Time: 0.50 hours

Label vacutainers, consent form, specimen log and tracking sheet

Complete section 1 of specimen log

Time: 1 hour

Order of Draw: 1. serum tube (1) 2. ficoll gel tube (2) 3. K_2EDTA tube (2)

Time: 1.5 hours

Courier

Collects blood specimens from multiple Phlebotomists at a prearranged, central location and transports the specimens to the Processing Laboratory

Processing Laboratory

Time: 2 hours

Transfer of vacutainers, collection kits, specimen and tracking logs from Courier within 2 hours of collection

Processing Day 1 (collection day) Time: 0 min

Begin Serum isolation

Whole Blood DNA isolation

Begin PBMC isolation

Time: 0.25 hours

DNA isolation complete
Quantify and store DNA at -80˚C

Time: 0.50 hours

Begin Leukolock isolation

Time: 0.75 hours

Store Plasma and RBCs

Time: 1 hour

Quantify PBMCs

Time: 1.25 hours

Store Leukocytes on filter

Serum isolation complete
Store Serum

Time: 1.50 hours

PBMC isolation complete
Store PBMCs

Time: 2 hours

Processing Day 2 within 6 months of Day 1, Time: 0 min

Transfer to longterm serum storage at -80˚C

Transfer to longterm PBMC storage in the vapor phase of liquid nitrogen

Elute RNA from filters

Time: 1 hour

Treat with Dnase

Time: 2 hour

check quantity and quality of RNA

RNA isolation complete
Store RNA at -80˚C

Time: 3 hour