

Date

Dear Investigator,

This letter is to express my firm support of your proposed project. Pursuant to the aims of your proposal, we will perform lipidomics and/or metabolomics as fee for service. We will perform the sample extraction, analysis, and process resulting lipidomics data. Deliverables include annotated spreadsheets with identified molecular species and their concentration as well as assist with data standardization and interpretation, as requested.

#### **EIMLC User Base**

The Emory Integrated Metabolomics and Lipidomics Core (EIMLC) was founded in 2016 to support to Emory investigators by providing quantitative analysis of soluble metabolites and lipid mediators. Since founding the core in 2016, the EILC user base has grown to greater than 50 investigators with distinct NIH-funded projects, including investigators in the Emory community as well as external users from universities including Duke, UNC-Chapel Hill, Clemson, Harvard, Weill Cornell, University of Ohio, Harvard Medical School, University of Texas, University of Michigan and University of Florida. In addition to these, the EIMLC is an integral part of several large multi-omics consortia, including the Emory Vaccine and Treatment Evaluation Unit (VTEU) in the Vaccine Center, Yerkes Primate Center, Atlanta Clinical & Translational Science Institute, HERCULES Exposome Center, Alzheimer's Disease Research Center, Religious Orders Study and Memory and Aging Project, Pediatrics, Cystic Fibrosis center, Emory Systems Biology Center, and the Georgia Comprehensive Metabolomics and Proteomics Unit for MoTrPAC.

#### **EIMLC Resources**

The EIMLC is located in the Whitehead Research Center on the Emory University campus. We have dedicated lab space in rooms 665 and G240. The core houses state-of-the-art analytical instrumentation that excels at the characterization of lipids and small metabolites. This includes a Sciex QTrap5500 linear quadrupole ion trap, Agilent 6495c triple quadrupole, and Thermo Orbitrap IDX high resolution mass spectrometer, each with respective H/UPLC chromatography. Using this instrumentation, we analyze lipids an average of 5000 human, rodent, and/or cell culture samples yearly.

#### **Consulting**

In addition to providing lipidomics services for a fee, we will provide the consultation services, as requested. Dr. Kristal Maner-Smith, Core Director, who has over 15 years of experience in quantitative analysis of lipids in intact tissues, subcellular organelles, and complex lipid mixtures using tandem mass spectrometry, will assist with experimental design, data analysis, and interpretation.

We look forward to collaborating with you for this project and wish you the best with this submission.

Best regards,

Kristal Maner-Smith, PhD