**UCLA Lipidomics Lab**

**Lipidomics Consultation Form**

**Fill out and return this form (lipidomics@mednet.ucla.edu) prior to your consultation meeting**

**1. What type of samples will you be submitting to the Lipidomics Lab?**

The UCLA Lipidomics Lab has established sample preparation guidelines for 3 types of samples:

(1) Tissue/tumors, (2) cultured/isolated cells, (3) serum/plasma/media

**2. What type of lipid are you expecting to change in your experimental system? Why?**

Briefly specify what experiments indicate that lipids may be changing (e.g. gene expression studies showing changes in lipid related genes, some other lipid measurements (Oil Red O), manipulation of a gene associated with lipid metabolism, etc.).

**3. What conditions do you propose for your lipidomics experiment (drugs, genetic manipulations, nutrient conditions)? Are there concerns about variability due to variable penetrance or target inhibition?**

**4. (If applicable), What time point(s) do you propose for your lipidomics experiment?**

**5. What number of biological replicates do you propose for your experiment?**  In general, we suggest an N=3 or more for cultured cells and an N=5 or more for animal samples. Small phenotypes and sources of variability within experiments necessitate larger (N)-numbers.

**6. How many total samples will you be submitting for lipidomics analysis?**

In general, the maximum number of samples for a single instrument run is 96. If you wish to do a larger experiment, we will need to plan to combine data from multiple instrument runs.

**7. How much material can you reasonably collect for Lipidomics analysis?** In general, we need 50-100mg of tissue or tumor, 2-4 million cultured cells, 25ul of plasma/serum. Adjustments can be made to these requirements and every system is different. The amount of material collected should be discussed before collecting samples.