

## FY22 Proteomics & Metabolomics Core (PMC) Services and Fees

*Prices will increase by 3% per each fiscal year*



The pricing structure listed below is effective as of July 1, 2021. Standard services are listed; minutes refer to gradient time. Unless otherwise noted, pricing includes acquisition of raw LC/MS/MS data, post-acquisition basic database (DB) search, and quantification (where applicable). Services for the Metabolic Phenotyping Mass Spectrometry (MPMS) unit of the PMC are also included. For custom projects, please consult the PMC/MPMS Directors for a quote.

### **Proteomics and Untargeted Metabolomics:**

#### **Protein iTRAQ (isobaric tags for relative and absolute quantification)/TMT (tandem mass tags) labeling:**

4-plex:	\$787.86
6-plex:	\$1,125.51
8-plex:	\$1,406.89
10-plex	\$1,519.44
11-plex	\$1,596.50
16-plex	\$1,850.00

#### **Protein identification:**

LC/MS/MS, DB search, note: does not include sample digestion/preparation)

RP LC/MS/MS (30 min):	\$78.78/run
RP LC/MS/MS (60 min):	\$123.81/run
RP LC/MS/MS (120 min):	\$202.59/run
RP LC/MS/MS (240 min):	\$337.65/run

#### **Protein identification and mapping of specified post-translational modifications (PTM):**

LC/MS/MS, DB/PTM search, note: does not include sample digestion/preparation

RP LC/MS/MS (60 min):	\$123.81/sample
RP LC/MS/MS (120 min):	\$202.59/sample
RP LC/MS/MS (240 min):	\$337.65/sample
Search for specified PTMs:	\$33.76/PTM

#### **Differential protein expression analysis by iTRAQ/PMT (reporter ion quantification):**

LC/MS/MS, DB search/quantification, note: does not include sample labeling/preparation

Unfractionated mixture of labeled peptides, 2hr RP-LC/MS/MS:	\$225.11/run
Unfractionated mixture of labeled Peptides, 4hr RP-LC/MS/MS:	\$371.42/run

#### **Differential protein expression analysis by SILAC analysis (precursor ion quantification):**

LC/MS/MS, DB search/quantification, note: does not include sample labeling/preparation

Unfractionated mixture of labeled peptides, 2hr RP-LC/MS/MS:	\$225.11/run
Unfractionated mixture of labeled Peptides, 4hr RP-LC/MS/MS:	\$371.42/run

**Protein differential expression analysis, MudPIT:**

MudPit, DB search, note: does not include sample digestion/preparation;  
2hr RP-LC/MS/MS/fraction:

6 (SCX or HpHRP) step fractions	\$168.83
7-12 (SCX or HpHRP) step fractions:	\$163.19
>12 (SCX or HpHRP) step fractions:	\$157.58

**Absolute quantification of specified (targeted) proteins (parallel reaction monitoring):**

PRM analysis for peptide quantification, note: does not include sample digestion/preparation

LC/MC/MS (30 min)	\$90.04/run
LC/MS/MS (60 min)	\$140.69/run
LC/MS/MS (120 min)	\$225.11/run

**Absolute quantification of specified metabolites/small molecules:**

LC/MS/MS, post-acquisition analysis, calibration Curve, internal standard, AUC quantification

LC/MS/MS (15 min):	\$19.14/run
LC/MS/MS (30 min):	\$33.76/run

**Differential quantification of metabolites – untargeted analysis**

LC/HRAM-MS/MS, post-acquisition analysis, HRAM AUC Quantification, MS/MS identification

LC/MS/MS (15 min):	\$33.76/run
LC/MS/MS (30 min):	\$56.28/run

**Consultation (initial consult-no cost):** **\$103/consult**

**Volume Discount for PMC Bulk MS runs:**

The volume MS “run” discount rate does not include reagents or kits, such as the TMT kit for isobaric labeling, or labor-intensive steps, such as sample processing, but will be applied to MS “runs”.

The below volume discount rate will be applied if samples are submitted simultaneously for processing in bulk\*, or after the volume threshold has been met for the current FY.

30-49 MS runs, for a single project:	10% discount, all MS runs
50-99 MS runs, for a single project:	15% discount, all MS runs
100+ MS runs, for a single project:	20% discount, all MS runs

\*If samples are submitted piecemeal, then the volume discount will be applied only for those MS runs that exceed the discount threshold. For example, if a PI submits three sets of samples requiring 15, then 10, then 20 MS runs, for a total of 45 MS runs that are completed at different times on separate iLab service requests, then the discount would be applied at MS run #31 onwards.

***The Metabolic Phenotyping Mass Spectrometry (MPMS) Unit:***

Directed by Michelle Puchowicz, Ph.D., Department of Pediatrics

*For unique projects, please request a consultation*

**Citric Acid Cycle- related intermediates**

Metabolite concentrations:	\$115.50/run
Metabolite enrichments -MPE ( <sup>2</sup> H, <sup>13</sup> C):	\$86/run
Both concentration/MPE:	\$173/run
Special targeted analysis:	Please inquire

**Total Protein / Protein Turnover**

Via D20 water method:	\$58/run
Tracer infusion method:	\$173/run

**Glucose or Glycerol:**

Concentrations:	\$58/run
Enrichments -MPE ( <sup>2</sup> H, <sup>13</sup> C):	\$41/run
Glucose and Glycerol:	\$115.50/run

**Lipids:**

Total fatty acid profile (C10-C18/sat./unsat.):	\$143/run
Fatty acid /Cholesterol:	\$143/run
Isotopomer analysis (MPE):	\$115.50/run
Sterols special-select	\$93.50/run
Synthesis- fractional rates (D <sub>2</sub> O method):	\$173/run

**Use of GC-MS/MS by Trained Users (at discretion of the MPMS Director):**

Standard-EI mode (60 min):	\$121/run
Extended-CI mode (60 min):	\$165/run
Duplicate runs:	\$55/run

**Consultation (initial consult-no cost):** **\$110/consult**

**High volume discounts, MPMS:**

High-volume discounts will be provided to core users as negotiated with the MPMS Core Director and as approved by the Associate Vice Chancellor for Research-Cores (typically >100 samples).

**Academic-External or Commercial Services:** Please contact the PMC or MPMS Unit for a quote.