

Important Information for Core Users:

We hope the RCMI Cell and Molecular Biology Core is serving your research needs. As you are writing manuscripts, preparing presentations, and drafting grant applications that have resulted from core usage, please keep in mind the importance of citing the RCMI grant and following the NIH Public Access Policy. **In order for a publication or presentation to be counted as productivity towards the RCMI Grant, it must be cited with the grant number and a publication must be deposited into PubMed Central. Failure to cite the XU RCMI cores may result in a denial of core services.**

Citations

Citations must credit NCCR's support. Please use the statements below when citing research that was completed with the assistance of an RCMI Core facility. If you are writing RCMI instrumentation into a grant, or using preliminary results obtained with the assistance of an RCMI Core facility, please cite RCMI in the grant application.

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Obtaining a PubMed Central (PMCID) (This is different than a PMID!)

As a result of NIH's Public Access Policy, the final, peer reviewed author manuscripts of journal articles that are supported by NIH funding must be deposited into PMC via the NIH Manuscript Submission System (NIHMSS), as soon as the articles have been accepted for publication. Specifically, the final manuscript supplied to PMC is the version that the journal has accepted for publication, including any revisions that the author has made during the peer review process.

You may deposit your final, peer reviewed manuscript through the Manuscript Submission System <http://www.nihms.nih.gov/>, using your eRA Commons login, NIH login, HHMI login, or My NCIB login. There are FAQs at the bottom of the webpage and submission tutorials are also available. If you do not have access to one of these logins, please contact Michelle Soliman for assistance with submission.

Helpful links:

PubMed Central: <http://www.ncbi.nlm.nih.gov/pmc/>

NIH Manuscript Submission System: <http://www.nihms.nih.gov/>

NIH Public Access Policy: <http://publicaccess.nih.gov/>

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Services Offered:

Bioassays

1. Toxicity Assay
2. Proliferation Assay
3. Cell Viability Assay
4. IC50 Dose Response

Pricing Examples

- Internal/ External

\$455/ 736 per assay (n = 3)
- includes cell maintenance

Functional Studies

1. Kinase Assays - IC50 (Invitrogen)
2. Nuclear Receptor Binding Assays
- ER, AR, PR, GR
3. RNAi or shRNA
4. Cell-Based Assays (transfection plates)
5. Optimize assay from literature

\$230/ 370 per 20 compounds
\$500/ 811 per compound

\$441/ 707 for <= 6
\$230/ 370 per assay

Cell Culture

1. Maintain Cell and plate as requested
2. Transfections

\$160/ 258 per week
\$378/ 606 for <= 12

Gene Expression

1. Real time rt-PCR (SABiosciences)
 - a. Commercial PCR Arrays
- Pathway/ disease focused
- miRNA screen
 - b. Custom real time rt-PCR
2. Other PCR Arrays
 - a. DNA Methylation Array
 - b. DNA Somatic Mutation Array

\$270/ 437 per assay
- assuming 12 plates

Molecular Biology

1. Protein extraction, purification and quantification
2. DNA/ RNA extraction, purification and quantification
3. Cloning
 - a. Primer design
 - b. PCR
 - c. Ligation
 - d. DNA product production and validation
4. Recombinant Protein expression
 - a. Bacterial
 - b. Mammalian cell culture
5. Gel electrophoresis and Western Blotting
6. Immunoprecipitation/ affinity interactions

\$737/ 1165 per project

\$384/ 620 per protein

Proteomics

1. Mass Spectrometry based Global Scale Protein Profiling
 - a. TMT Mass Tagging
\$553/ 894 for < 9 samples
- for quantitative protein expression analysis
 - b. Phospho-protein Profiling - in development
2. 2D Gel Electrophoresis
- with Maldi MS analysis of spots \$1275/ 2054 for 12 gels

Analysis

1. Heatmap generation
2. Gene Ontology Analysis
3. Pathway analysis and custom pathway creation

\$45/ 73 per hour

Training

- For students, post-docs or PIs

XU RCMI



www.rtrn.net



Contact us if you do not see an experimental technique you require or have questions