

# Technology Cores at The Lundquist Institute

## TRANSLATION TECHNOLOGY

The UCLA-CTSI provides many state-of-the-art technology cores and specialized service cores available to investigators. The technology core described below is available at Lundquist/Harbor-UCLA. Applications for utilization of these resources are reviewed by the Scientific Advisory Committee of the UCLA-CTSI at Lundquist/Harbor-UCLA. Support for investigators using this core is provided through a voucher system. Please contact the UCLA-CTSI office at 310-222-2503.

## ENDOCRINE AND METABOLIC RESEARCH LABORATORY

### Description

The Endocrine and Metabolic Research Laboratory supports clinical and translational investigators in many aspects of research through expertise in analytical testing and development of new methods. The Endocrine and Metabolic Research Laboratory is licensed by the State of California and holds CLIA certification. The laboratory participates in CAP Proficiency Test Program. The laboratory staff has over 30 years' experience in hormones, metabolic parameters, and andrology studies. This laboratory has experience in serving as a bioanalytical laboratory and FDA audits.

### Core Laboratory Resources

- Liquid Chromatographic Tandem Mass Spectrometry instruments (LC-MS/MS API 5000 and API 5500)
- Roche Cobas platform for immunoassays
- beta counters
- Spectrophotometer
- Fluorometer
- Plate reader

### Services Available to All Investigators

- **Sample Analysis:** Over 30 different procedures are offered through the Endocrine and Metabolic Research Laboratory utilizing a variety of techniques including radioimmunoassay, fluoroimmunoassay, fluorometry and LC-MS/MS. A full listing of all methods can be obtained through Endocrine and Metabolic Research Laboratory, or via the UCLA CTSI web site. Semen analyses and special andrological testing are available in the Andrology laboratory.
- **Consultation Services:** The Lab Manager, Dr. Christina Wang, is available to help investigators design and initiate protocols using the most relevant procedures available and ensure that all laboratory data are reported with confidentiality and accuracy. The laboratory is networked with other CTSA Laboratories providing investigators with a wide range of testing capabilities. Dr. Christina Wang provides specialized consultation on semen analyses and centralized service for sperm morphology analyses.

### Staffing

The laboratory staff is highly qualified and includes two licensed Clinical Laboratory Scientists, a senior research technologist and two research associates.

The Endocrine and Metabolic Research Laboratory works on a "fee-for-service" platform. The following table lists the analytes. Price quotes will depend on the quantity of samples. Contact Dr. Christina Wang for further information.

#### TEST

Insulin  
Cortisol  
C-peptide  
LH  
FSH  
GH

#### TEST

Salivary Cortisol  
DNA/extraction  
Free T4  
SHBG  
Testosterone (RIA) (for non-human samples only)  
Total Testosterone (LC-MS/MS)

IL6	Dihydrotestosterone (LC-MS/MS)
Estrone (LC-MS/MS)	Estradiol (LC-MS/MS)
Progesterone (LC-MS/MS)	11-deoxycortisol (LC-MS/MS)
Androstenedione (LC-MS/MS)	DHEA (LC-MS/MS)
Cortisol (LC-MS/MS)	17OH-Progestorone (LC-MS/MS)
Routine semen analyses	Free Testosterone by equilibrium dialysis
	Any other analytes not listed, consult Lab Manager

Sperm function test (by request)

Other assays please contact Dr. Christina Wang ([wang@Lundquist.org](mailto:wang@Lundquist.org)) or Marianne Lajoie ([lajoie@Lundquist.org](mailto:lajoie@Lundquist.org))

Andrology laboratory tests and serum androgens contact Dr. Christina Wang ([wang@Lundquist.org](mailto:wang@Lundquist.org))

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