



## Core Facility Goals:

- **Assist faculty** in developing appropriate and sustainable assays
- **Provide a platform** for FAU-wide drug discovery efforts
- **Meet the regional needs** by providing expert service to biotech industries and local universities and research institutes

## Therapeutic Area Focus:

- **Cancer**
- **Neuroscience**

## Cell-Based Drug Screening Facility

## Florida Atlantic University

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*Providing the infrastructure necessary for drug screening and lead discovery*

# FAU Cell-Based Drug Screening Facility

## Services

Through our expertise and our commitment to excellence, we will:

1. Assist the faculty of Florida Atlantic University in developing appropriate and sustainable assays to screen compounds of interest
2. Predict toxicity to facilitate lead identification
3. Provide a platform for FAU-wide drug discovery efforts
4. Meet the regional needs of biotech industries

The core facility can meet your needs in the following areas:

- Development of tailor-made assays for low to moderate throughput
- Conversion of low/moderate throughput to high-throughput screen (HTS) capabilities
- Development of assays that may not be HTS-compatible (slow turn-around, multi-steps processes, etc.)
- Design and develop follow-up studies, including, but not limited to:
  - o PCR analysis of gene expression
  - o Protein expression/Function (Western, IHC, IF, EMSA, etc.)
  - o In situ studies (fluorescence microscopy)
  - o Reporter systems
  - o Cell-based and cell-free biological and biochemical studies
  - o Differentiation/pathway studies
  - o Secondary screening (specificity)assays

## Capability

The core facility is a dynamic structure with ever-expanding capabilities; current capabilities include:

- Comprehensive cell culture facility
- Plate reader (96 and 384 well plate capabilities, UV/VIS)
- Fluorescence and phase-contrast microscopy
- End-point/real-time PCR and Northern blot
- Bioinformatics support
- 1,000-2,500 compounds/week, depending on assay complexity

## Cell Lines

- We can develop and format assays and provide studies, using a vast array of cell systems:
  - o 21 solid tumor cell line panel
  - o Leukemic/hematopoietic/neuronal cell systems
  - o Rodent cell systems, including mouse fibroblasts, mouse pre-adipocytes, rat neuronal, mouse embryonic stem cells
  - o Primary cells

## Benefits

- R & D support
- Grants
- Data for patents, publications, business plans
- Licensing opportunities
- Access to FAU-wide research

## Cost

Three-tier rates:

- Internal : charges will be at cost – marginal core facility fee will apply
- External (Academic): cost will vary depending on assay complexity
- External (Industry): At competitive rates or broad access fee