

IALS Clinical Testing Center



umass.edu/ials/ials-clinical-testing-center

Located on the 5th floor of the Life Science Laboratories, the IALS Clinical Testing Center (ICTC) is a unique facility offering both clinical and research-grade high-throughput sample processing and analysis. The equipment and technical services provided by ICTC are unique to anything else available on the UMass Amherst campus and surrounding areas.

The facility accepts samples and will perform requested analysis. We offer training to users to conduct experimentation on a fee for service basis to both internal and external researchers, academic or industry based. Following an initial consultation covering experimental parameters, training and access to the facility is arranged through the director.

ACCESS

To request access, training, or additional information please contact Ashley Eaton at ICTC@umass.edu.

Our rates are competitive and tiered based on needs and usage. Visit our website at umass.edu/ials/ials-clinical-testing-center for current listing.

TRAINING

Training for new users consists of:

- lab safety training,
- operation of the instrument and associated software,
- use of data analysis software,
- exporting or presenting data,
- clean up and shutdown of the instrumentation.

Once the training is complete, researchers may schedule their experiments through the general supervisor of the ICTC (Ashley Eaton).

UMassAmherst | Core Facilities

Core Facilities
University of Massachusetts Amherst
Life Science Laboratories
240 Thatcher Road
Amherst, MA 01003

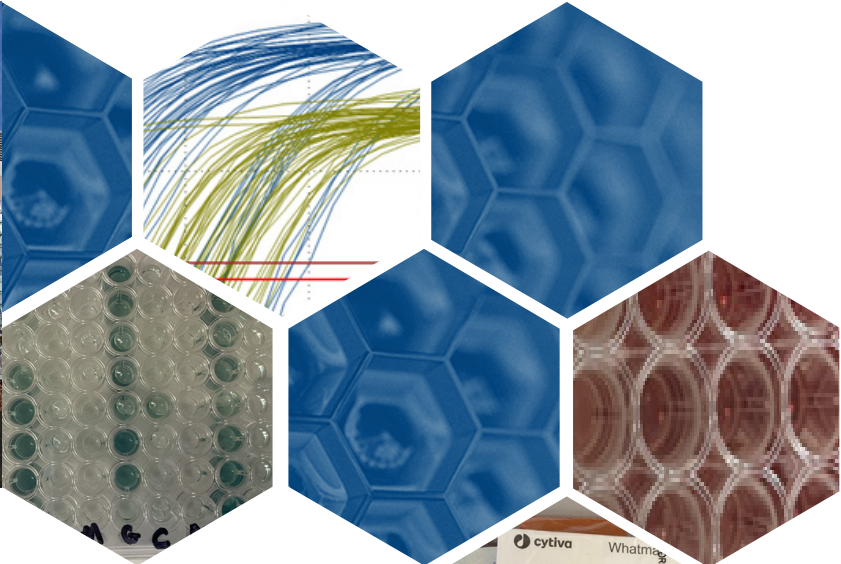
UMassAmherst | Core Facilities

IALS Clinical Testing Center

Institute for Applied Life Sciences
University of Massachusetts Amherst



Research and Innovation to Translate Basic Science



PARTNER WITH US!

IALS Clinical Testing Center Inquiries

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CLIA-Certified,
High-Throughput
Sample Processing
and Analysis

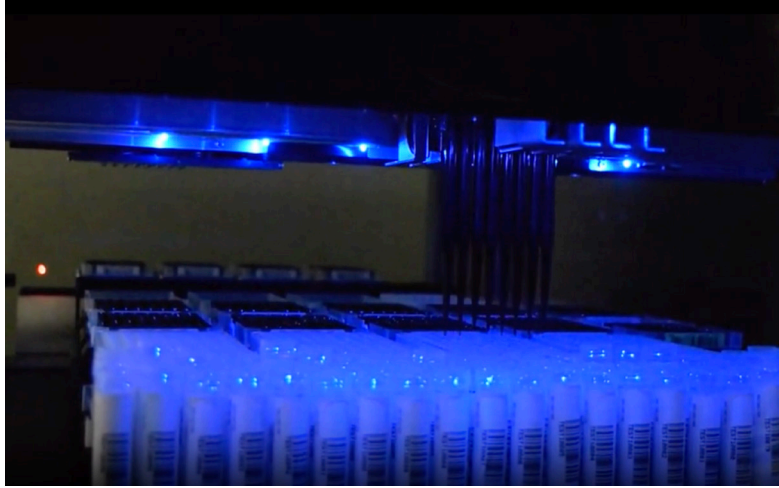


Revision (05/24/23)

WHAT WE OFFER

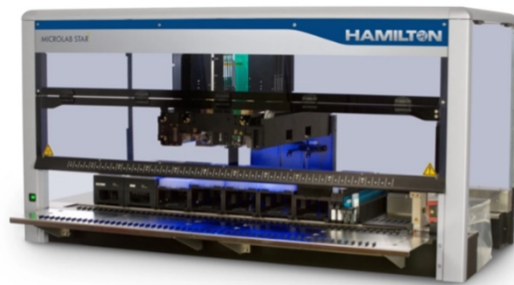
Clinical and research-grade high-throughput sample processing and analysis.

- Assay development–basic to advanced
- Technical and laboratory support for your assay needs
- Validation services/Feasibility testing



CAPABILITIES

Hamilton Microlab STAR Liquid-Handling Robots

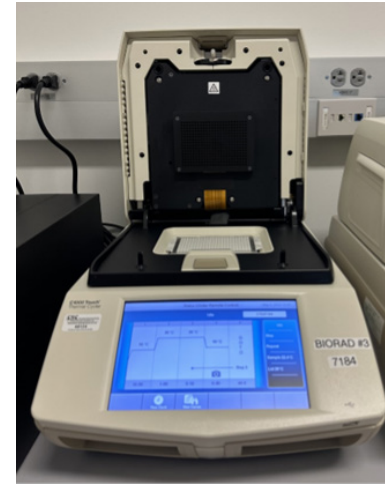


The STAR combines Hamilton's patented pipetting technology including precise lock-and-key tip attachment, unrivaled liquid level detection, and comprehensive volume ranges to create flexible liquid handling workstations.

- Customizable deck layout
- Programmable to fit your research needs

BioRad CFX384 Touch Real-Time PCR Detection Systems

High-throughput qPCR systems designed for precise PCR applications in a 384 well format. The accompanying CFX Maestro software is easy to customize, and also offers several analysis modes for assay optimization and validation.



Applied Biosystems QuantStudio 7 Pro Real-Time PCR System

Medium-throughput qPCR system with easy software formatting and analysis modules to support unique assay designs, such as SNP genotyping.



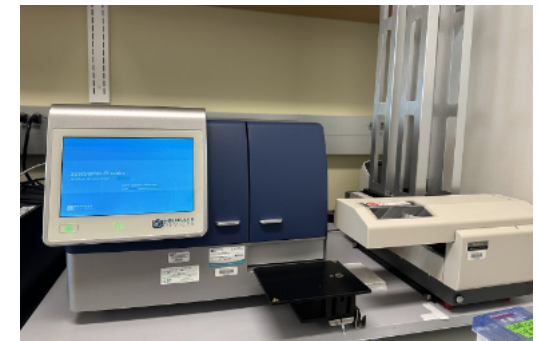
What Makes Us Unique

This facility accepts both clinical and research samples for high-throughput projects requiring liquid-handling steps such as

- simple pipetting,
- microplate washing,
- nucleic acid extraction, and much more.

There is also high-throughput capacity for qPCR assay design and analyses, as well as microplate reading.

SpectraMax iD5 Multi-Mode Microplate Reader



The SpectraMax iD5 plate reader measures absorbance, fluorescence, and luminescence in one compact instrument. The accompanying plate-stacking module allows for high-throughput microplate reading.

TESTIMONIAL

“ In working with IALS Clinical Testing Center they were able to process all my samples in less than a week, saving me probably a year's worth of work doing the samples myself. Without their help I would still be doing my qPCR work.”

—James Garner, PhD candidate, Environmental Conservation

Massachusetts
LIFE SCIENCES CENTER

A significant portion of core equipment has been purchased through MLSC grant funding support.