

# μQUANT CORE FACILITY (IHV)

CIBR: Center for Innovative Biomedical Resources

## CORE INSTRUMENTATION

### SPECTRAMAX iD3 plate reader

- 6-well to 96-well plate reading capability
- Built-in Absorbance, Fluorescence (top/bottom read), and Luminescence (top read)
- Absorbance wavelength between 230 nm and 1000 nm, Fluorescence excitation wavelength between 250 nm and 830 nm, Fluorescence emission wavelength between 270 nm and 850 nm, and Luminescence wavelength between 300 nm and 850 nm



### LUMINEX 200 SYSTEM

- Simultaneously quantitate up to 100 analytes per sample from culture media and serum in a single microplate well
- Automatically analyze up to 96 samples in 45 min (up to 12,800 tests/hour)
- Dramatically increase the amount of useful data obtained



### StepOnePlus REAL-TIME PCR SYSTEM

### QuantStudio 3 Real-Time PCR SYSTEM

- 96-well Real-Time PCR instrument with sensitive 4-color optical LED recording system

### SimpliAmp PCR THERMAL CYCLER

## MISSION

The μQUANT Core Facility housed within the Institute of Human Virology provides quality immunological analyses of biological analytes to researchers at the UM SOM, as well as other collaborators locally and nationally. Our aim is to provide consistent service that allows researchers to compare results generated this week with those gathered last month or a year ago.

## CORE SERVICES

Services offered include, but are not limited to:

- ELISAs
- PBMCs
- Immunoassay setup & protocol establishment
- Luminex assays
- Mycoplasma & endotoxin testing
- Monoclonal antibody and recombinant protein screening, production, purification, & labeling
- HIV, SIV, & SHIV culture
- TCID50 and neutralization assays
- Quantitative PCR

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## SpectroMax M2 Data

		PLATE 2											
		1	2	3	4	5	6	7	8	9	10	11	12
A	2.200	2.147	1.874	1.912	1.744	1.862	2.060	1.978	1.777	2.375	-0.023	-0.023	
B	1.393	1.337	1.923	1.563	1.889	1.534	2.081	1.830	2.045	2.311	-0.023	-0.023	
C	0.831	0.816	1.341	1.165	1.158	1.630	1.241	0.987	0.995	2.074	-0.023	-0.023	
D	0.447	0.407	0.905	1.016	0.802	1.686	0.703	0.812	0.935	2.207	-0.023	-0.023	
E	0.252	0.221	2.003	2.224	2.313	1.133	2.277	2.399	2.393	1.924	-0.023	-0.023	
F	0.137	0.092	1.608	2.040	1.505	1.595	1.757	1.944	1.993	2.110	-0.023	-0.022	
G	0.071	0.071	1.004	0.528	1.092	0.020	0.575	0.739	0.706	0.002	-0.023	-0.023	
H	0.003	-0.004	2.074	1.849	1.689	-0.001	1.944	2.080	2.155	0.019	-0.023	-0.023	

### Settings Information

Endpoint  
 Absorbance  
 Lm1 450  
 Lm2 570  
 More Settings  
 Shake Once  
 Calibrate On  
 Column Priority

## CONTACT



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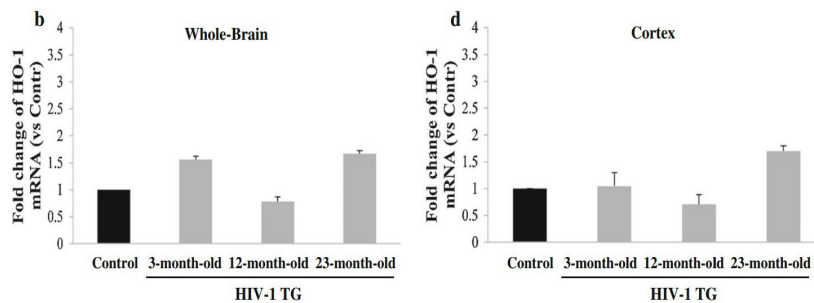
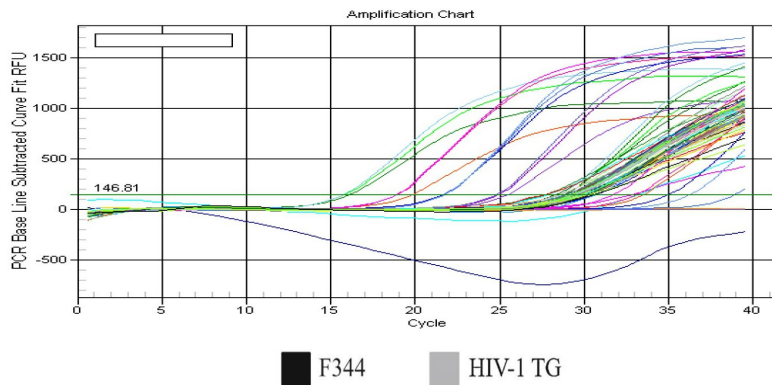
## Web Page

<http://ihv.org/research/facility.html>

## qPCR Data

### PCR Quantification Data

### PCR Amp/Cycle Chart



Davinelli S. (2014). Altered expression pattern of Nrf2/HO-1 axis during accelerated-senescence in HIV-1 transgenic rat. *Biogerontology*, 15(5), 449-61