

Resource Summary Report

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Tulane University TNBRC Molecular Virology and Sequencing Core Facility

RRID:SCR_027144

Type: Tool

Proper Citation

Tulane University TNBRC Molecular Virology and Sequencing Core Facility
(RRID:SCR_027144)

Resource Information

URL: <https://tnprc.tulane.edu/molecular-virology-and-sequencing-core>

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Description: Core offers advanced services to detect, quantify, and characterize pathogens, as well as assess host immune responses. Supports both standardized and custom assay developments. MVSC is composed of three integrated units: Virology Unit which provides viral stocks for variety of viruses at BSL2 and BSL3, as well as assay services including virus expansion and characterization, viral titer by plaque and TCID50 assays, live virus neutralization and inhibition assays at both BSL-2 and ???3. Viruses currently in use by the core include SIV, HIV, Zika, Dengue, SARS-CoV-2, Mayaro, Eastern Equine Encephalitis Virus, Poliovirus, Enterovirus D68, and others. Luminex and Serology Unit Services include antibody detection in serum or plasma by Luminex-based assays and/or ELISA for SPF-agents such as SIV, SRV, STLV, B virus, SFV, CMV, RRV, SVV, SV40, and LCV, and non-SPF infectious agents like measles, Burkholderia pseudomallei, Trypanosoma cruzi, Mycobacterium tuberculosis, and SARS-CoV-2. This unit also offers services for cytokine quantification in body fluids including serum and CSF, as well as tissue culture supernatant. Sequencing Unit provides services related to quantitative PCR and RT PCR detection of viruses such as SIV, Zika, and SARS-CoV-2, as well as next generation sequencing services including whole genome (pathogen or host), epigenetics, targeted amplicons, and 16S and ITS metagenomics. Sequencing unit also performs single cell RNA-seq (10x and Parse) assays as well as NGS based genotyping of NHP, including for major histocompatibility complex (MHC) allelic genotyping.

Resource Type: access service resource, core facility, service resource

Keywords: ABRF, detect, quantify, characterize, pathogens, assess host immune responses, viral stocks, antibody detection in serum or plasma, PCR, RT PCR,

sequencing,

Resource Name: Tulane University TNBRC Molecular Virology and Sequencing Core Facility

Resource ID: SCR_027144

Alternate IDs: ABRF_3280

Alternate URLs: https://coremarketplace.org/RRID:SCR_027144/?citation=1

Record Creation Time: 20250703T065558+0000

Record Last Update: 20260912T200520+0000

Ratings and Alerts

No rating or validation information has been found for Tulane University TNBRC Molecular Virology and Sequencing Core Facility.

No alerts have been found for Tulane University TNBRC Molecular Virology and Sequencing Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Melton A, et al. (2026) Single-Cell RNA Sequencing Reveals Commensal Microbes Amplify Sex-Specific Immune Programming in the Murine Lung. bioRxiv : the preprint server for biology.

Xu H, et al. (2026) Initiation of Long-Acting Antiretroviral Combinations Achieve Sustained Virologic Remission in Early-Life SIV Infection. Research square.

Stafford P, et al. (2026) Multiplexed single-tier immunoassay for improved Lyme disease diagnosis across all disease stages. Research square.

Ma L, et al. (2026) Brain viral reservoir seeding and neurological metabolic dysregulation in early-life immunodeficiency virus infection. Brain pathology (Zurich, Switzerland), e70104.

Chandra PK, et al. (2025) Plasma circulating extracellular vesicles reveal dysregulation of synaptic signaling in SHIV-infected rhesus macaque. Cell communication and signaling : CCS, 23(1), 455.