

COMPREHENSIVE NEUROAIDS CENTER BASIC SCIENCE CORE I: MAMMALIAN CELL AND NEUROTROPIC VIRUS FACILITY T. Dianne Langford, Ph.D.

The Basic Science Core I Mammalian Cell and **Neurotropic** Virus Facility provides investigators with reliable access to high quality CNS cell cultures, virus and viral products, and other factors that contribute to HIV CNS disease which are critical to delineate signaling pathways important in disease progression.

Our Mission

Provide mammalian cell culture and virology services to investigators biomedical research on AIDS and the nervous system.

Services Provided

- Provide high purity human and rodent CNS cell cultures, including neurons, astrocytes, oligodendrocytes, microglia, endothelial cells, progenitor and stem cells.
- Assist investigators with the purification, characterization, and maintenance of CNS cells
- Assist in the propagation and maintenance of a variety of HIV-1 clades, HIV-2, and SIV.



banked at low passage with excellent recovery conducting

cerebral



Host CNS cell/virus Co-culture & Interaction studies

Rodent primary CNS cell cultures can be prepared from wild type, transgenic, or knockout animals using standard approaches. Investigators and their staff receive detailed protocols and training in these techniques so they can become selfsufficient.



Human Primary Neurons labeled with Neurofilament and MAP2 showing Axon-Dendritic connections

Temple University School of Medicine, Philadelphia, PA 19140





Please contact one of our core leaders for more information.

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Human Primary Neuron and Oligodendrocyte co-culture with pre-myelination (circles)

Highly enriched Human Primary CNS cell-type specific cultures

Core Leader: Kamel Khalili, Ph.D. **Core Co-Leader:** Dianne Langford, Ph.D.