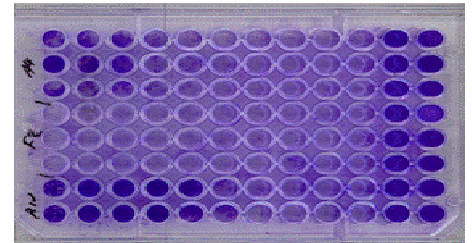
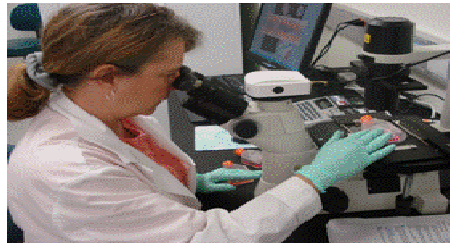
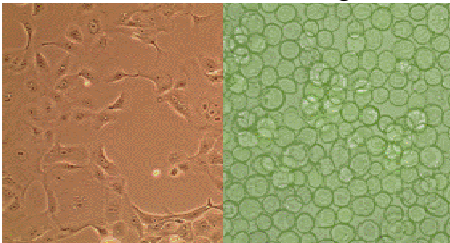


# CENTER FOR BIOLOGICAL DEFENSE AT THE UNIVERSITY OF SOUTH FLORIDA

PEACE OF MIND

## **CBD GLOBAL HEALTH INFECTIOUS DISEASE RESEARCH LABORATORY**

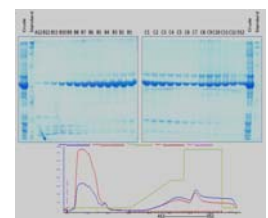
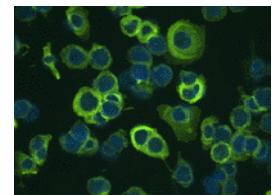
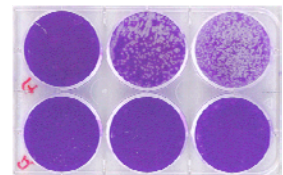
The Global Infectious Diseases Research (GHIDR) Section of the Center for Biological Defense is located in a secured floor of a research building at the University of South Florida that was constructed in 2005. The laboratories contain over 15,000 square feet of BSL2 and BSL3 laboratory space. The facilities include state of the art ABSL2 and ABSL3 facilities for animal research on infectious agents, as well as a fully equipped BSL3 tissue culture suite. The BSL3 facility is certified for research on select agents.



Some of the equipment available to investigators in the GHIDR labs include automated liquid handling, conventional and real time PCR, pyrosequencing for SNPs, Luminex™, fluorescent microscopy, multimode plate reader and image capture and processing instrumentation. We have expertise in the subcloning and expression and purification of recombinant proteins and creation of baculovirus and adenovirus recombinants.

### **Scientific Expertise and Laboratory Capabilities**

1. Culture, molecular biology and small animal models research on infectious agents, including viruses (influenza, dengue, rhinoviruses, herpes, West Nile Virus, Saint Louis Encephalitis and Eastern Equine Encephalitis viruses, etc.) and parasites (apicomplexes and nematode parasites).
2. Automated and semi-automated assay and assay development for screening natural compounds and small molecules for anti-viral activity.
3. Nucleic acid and immunochemical diagnostic assay development and validation.
4. Recombinant protein expression and purification in bacterial and baculoviral systems.
5. Small animal model evaluation of vaccine candidates.



We welcome inquiries concerning the potential of developing collaborative research programs in any of the areas described above.

#### **Contact information:**

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