

FACILITIES & OTHER RESOURCES – The Center for Tropical and Emerging Global Diseases, The Coverdell Center, University of Georgia

Environment – Contribution to Success:

The PI's lab, office and most supporting facilities are in the state-of-the-art Coverdell Center for Biomedical Research on the UGA campus. The Coverdell Center houses 9 of the 19 faculty in the UGA Center for Tropical and Emerging Global Diseases (CTEGD; www.ctegd.uga.edu). The CTEGD administers the main UGA Flow Facility, established in 1999 and also housed in the Coverdell Center. This facility maintains multiple analyzers and a new high-speed sorter (see detailed list in the "Equipment" page). The Coverdell Center also has an AAALAC accredited Rodent Vivarium (CRV) in its lowest floor. In this facility of nearly 20,000 sq ft, rodents are housed in individually ventilated racks with automated watering. Other facilities within the CRV include a dedicated rodent surgery suite, a rodent import quarantine suite, a necropsy room, and a whole animal imaging room (equipped with a CRi Maestro II and an Olympus OV100 Intravital Observation System (both for whole animal fluorescent imaging) and a soon to be added Xenogen IVIS Lumina system for bioluminescent imaging). Other core facilities maintained by the CTEGD include two Delta Vision microscope suites for high resolution in vivo imaging including time-lapse, laser bleaching and recovery analyses, a BD Pathways high-content microscope to screen fluorescence phenotypes in 96 and 384 well plates and numerous plate readers for fluorescence absorbance and luminescence.

The intellectual environment at UGA and particularly in the CTEGD is extremely rich. UGA has long recognized the importance of parasitology and in December 1998 established the CTEGD as a multi-disciplinary UGA-wide center. CTEGD's research, training and service efforts are focused on global health challenges that involve parasitic diseases. The original CTEGD faculty of 8 provided a strong research and training foundation in parasitology, immunology, cell biology and molecular biology. CTEGD has now grown to a faculty of 19, who individually and collectively represent broad and in-depth expertise in the field. Although diverse in interest and focus, this is highly interactive group with weekly Research in Progress and Journal Club meetings, 5 domestic and international training grants, and an annual Symposium that attracts more than 125 attendees from throughout the Southeast. In 2007, UGA made another major commitment to CTEGD by assigning the entire third floor and part of the first floor of a new research building (the Coverdell Center) to CTEGD for its offices, its core facility and 9 of its faculty. This consolidation of CTEGD into identifiable space, especially in the showcase building for UGA biomedical research, has greatly strengthened the Center and provided a home-base for our trainees, whether they are in laboratories housed in the Coverdell Center or with faculty elsewhere on campus. Research funding to the CTEGD in its 10 year history of existence exceeds \$50 million.

Facilities:

LABORATORY: PI has lab space in the Paul D. Coverdell Building for Biomedical & Health Sciences, a 105,000 sq ft. state-of-the-art building. The PI's lab is located on the 3rd floor of this facility, which houses other members of the Center for Tropical & Emerging Global Diseases.

PI's assigned space in the open lab set-up is approximately 1,500 sq ft and includes procedure rooms and equipment hallways.

ANIMAL: The Coverdell Building has an approximately 20,000 sq. ft vivarium to house rodents. The PI's lab 1 animal rooms capable of housing >1000 rodent cages and a procedure room with 2 BSL2 cabinets, centrifuges, microscopes, etc. for the exclusive use of his lab.

COMPUTER: The PI has an Apple macbook pro. There are 3 PCs and 5 Macs for use by his laboratory. The lab maintains a web/database server.

OFFICE: The PI has an office approximately 168 sq ft. which is adjacent to his laboratory. There are also offices for Research Scientists and Post-docs.