

UAB Sparkman Seminar Series in Global Health & SIFAT

present
Seminar and Workshop

Low Cost Diagnostics of Common Infectious Diseases in the Developing World



Aynne MacLean, PhD
President and Founder
Science With a Mission, Inc.
Visiting Scholar, Salem State College

After years of developing enzyme immunoassays (EIAs) for pharmaceutical and biotechnology companies, Dr. MacLean founded Science with a Mission to use her skills to develop low-cost, appropriate diagnostic tests for common diseases in the developing world (malaria, typhoid, dengue, etc.). This seminar will focus on the development of a rapid diagnostic test for malaria—from production of polyclonal and monoclonal antibodies, conjugation of antibodies to dyed latex micro particles, and striping antibodies on membranes to preparing sample and conjugate release pads. Highlights of programs where these tests are being used in Mexico, Haiti, the Democratic Republic of Congo and Nepal will be given.

Seminar:

Thursday ■ March 16, 2006
2:00 – 3:30 pm
407 Ryals Public Health Building
Birmingham, Alabama

All are welcome.

Workshop:

Friday ■ March 17, 2006
9:00 am – 2:00 pm
SIFAT International Training Campus
Lineville, Alabama

All are welcome.

Workshop: *Learn which diseases have rapid diagnostics available, and see a presentation of how each one works. Each participant will have the opportunity to run a malaria test (no clinical background required). See examples of how these tests are being used around the world without electricity or refrigeration. Discuss issues of using diagnostics by medical teams and promoting them for local use long-term.*