The Ohio State University-Ethiopia Partnership

One Health Summer Institute

May 1 – August 31, 2014
Dear colleagues,
The Ohio State University Health Sciences-Ethiopia One Health Partnership is pleased to launch the 2014 Summer Institute. The activities in this partnership were initiated in response to visits by Ohio State Health Sciences deans and global strategies team to Ethiopia in 2012 and successful response to visits by Ohio State Health Sciences deans and representative faculty members, established The Ohio State University Health Sciences-Ethiopia One Health Partnership task force in August, 2012. The goal is to develop a sustainable and mutually beneficial partnership with Ethiopian academic and affiliate partners.

The task force conducted the following activities:
- Met with the Ethiopian president, the minister of health, the state minister of education, and the deputy prime minister;
- Visited other regional and international partners including ILRI, EPHI, AIHRI and CDC;
- Met with U.S. Embassy leadership in Ethiopia and gained support for the partnership initiative;
- Developed a draft strategic plan based on inputs and priorities received from the two partner Ethiopian universities.

We are committed to this endeavor and look forward to a productive and sustainable partnership.

Sincerely,

William I. Brustein, Ph.D.
Vice Provost for Global Strategies and International Affairs
Professor of Sociology, Political Science, and History
The Ohio State University

Valerie B. Lee, PhD
Vice Provost for Outreach and Engagement
Vice Provost for Diversity and Inclusion
Chief Diversity Officer
Professor of English
The Ohio State University

**The Ohio State University-Ethiopia Partnership One Health Summer Institute 2014**

**Major priority areas identified:**

**Training prototype**
- Short-term engagement supplemented with a long-term PhD training with the goal of strengthening capacity and collaborations.
  - The Ohio State University Health Sciences-Ethiopia One Health Summer Institute conducts one to two week modular courses in various health science disciplines.
  - Admit one sandwich PhD candidate in each of the health science disciplines from the two partner institutes with a completion time line of four years.

**Research capacity innovation prototype**
- Two short-term priorities identified:
  - Rabies elimination: We plan to conduct a feasibility and KAP assessment, and a portion of the intervention using vaccine delivery and population control.
  - Cervical Cancer Screening and Treatment: The long-term goal is to strengthen capacity in prenatal and maternal health. Feasibility and pilot projects will be conducted in the short term.

**Parallel projects**
- Existing and future exploratory projects:
  - Medicinal plants initiative
  - Food security and environment project
  - Molecular epidemiology of foodborne pathogens (NIH-FIC funded)
  - Rotaviruses project (Sandwich PhD from AAU trained)
  - Multi-drug resistant Salmonellae project (WHO funded/ Sandwich PhD from AAU trained)
  - Nutrition, HIV, and Enterics (NIHsubmitted)
  - TB biorepository (NIHsubmitted)
  - Leshmaniasis (NIH Funded/ Sandwich PhD from AAU trained)
  - ICT Capacity (NIH –submitted)

**One Health outreach E-capacity strengthening:**
- Develop an electronic platform using a custom tablet based application to capture One Health research and training activities which will enable crowd sourcing of the Ohio State health sciences and Ethiopia activities.

**Clinical capacity strengthening engagements:**
- A College of Medicine ophthalmology team conducted teaching and exploratory activity in February, 2013.
- Additionally, a neurosurgeon and three optometrists are joining the health sciences team for the Summer Institute 2013.
2014 Activities

Summer courses

Optometry Training: Advanced Contact Lenses and Children’s Vision
Instructors: Jeffrey Walline, Alemayehu Desalegn
Dates: June 2 - June 6, UOG
Advanced Contact Lenses
Topics include: Fitting and management of soft, gas permeable toric, soft multifocal, gas permeable multifocal, orthokeratology, myopia control, pediatric, aphakia, keratoconus, extended wear, and therapeutic contact lenses.
Children’s Vision:
Topics include: Basic binocular vision tests, asking the case history, a review of visual development, measuring refractive error, cycloplegia, biometry and refractive error development, prescribing spectacles, systemic diseases that affect the eyes, anterior and posterior segment issues encountered by children, child abuse, and examining infants.

Food Safety and Foodborne Diseases
Instructors: Jeffrey LeJeune, Daniel Asrat
Dates: June 16 - June 21, AAU
Topics include: Foodborne bacterial, parasitic, and viral diseases with special emphasis on their epidemiology, transmission, detection, and specific preventive and control measures; antimicrobial use in food animals, resistance, and veterinary drug residues; HACCP principles and applications in food processing facilities; sanitary and regulatory requirements and applications in food processing facilities.

International Trade and Public Health/Risk Analysis
Instructors: Armando E. Hoet, Seleshi Niqstu
Dates: June 8 - June 15, UOG
Topics include: Globalization and internal trade, public and animal health; and food safety and food security; roles and functions of the WTO, OIE, and FAO in international trade; international requirements, laws, and regulations (Codex Alimentarius, Sanitary and Phytosanitary Standards) on import/export of animals and animal products; components and application of risk analysis to import/export of animals and animal products; the environmental health exposure model; aspects of environmental toxicology and microbiology; contaminants’ influence on food quality; and risk assessment/analysis.

Oral Pathology and Preventive Dentistry
Instructors: Carl M. Allen, Beau Meyer, Wandwossen Fantaye
Dates: June 11 - June 16, AAU
Topics include: Oral cancer screening process, diagnosis, treatment, and prognosis; common oral pathologic lesions, management and treatment; Oral health promotion and disease prevention with an emphasis in the pediatric population; community oral health initiatives and community based care models.

Molecular Epidemiology of Infectious Disease
Instructor: Wandwossen A. Gebreyes, Rudovich Kazwala
Dates: June 23 - June 26, AAU
June 30 - July 3, UOG
Topics include: Overview and discussion of core molecular approaches; introduction and core methods; gene amplification, restriction, hybridization, genotyping, genomics, and microarray; analysis and interpretation of genotypic data; practical applications in public health.
• Overview of core molecular tools and approaches;
• Genotyping methods selection criteria and validation;
• Overview of common genotyping methods;
• Application of genotyping, data interpretation and troubleshooting.

Environmental Health/Occupational Health
Instructor: Michael Bisesi, Wakgari Deressa
Dates: June 23 - July 3, AAU
Environmental Health Science (June 23-26, equivalent to 20 instructional hours): A combination of lecture, cases and independent readings regarding an overview scientific principles focused on identifying sources and evaluating and controlling levels of and exposure to physical, chemical and biological agents in air, water, soil, food, and other media that impact and may affect the quality of environmental settings or disrupt ecological conditions, and directly or indirectly contribute to adverse harm to human (and animal) health and well-being.
Occupational Health Science (June 30, July 1-3, equivalent to 20 instructional hours): A combination of lecture, cases and independent readings regarding an overview of the principles focused on recognition, evaluation and control of hazardous physical, chemical and biological agents or conditions in workplace settings.

“The University of Gondar is one of the oldest universities in Ethiopia. Established in 1954 as the Public Health College and Training Center; the university has evolved into one of the top education institutions in Ethiopia. The university will celebrate its 60th anniversary halfway through the 2014 Summer Institute. For more about the Diamond Jubilee, visit uog.edu.et.”

Usha Menon, PhD, RN, FAAN
Vice Dean and Professor, College of Nursing Director of Community Engagement, Ohio State Center for Clinical Translational Sciences
### Summer courses

**Neonatal Resuscitation Care/ HBB**

**Instructors:** Monica Terez, Sharon Ryan, Diane Gorgas, Mahlet Gebremariam  
**Dates:** June 30 - July 5, AAU  
July 8 - July 11, UOG  

This seminar will assist participants in developing systematic skills in infant resuscitation. Participants will gain an understanding of the need for rapid, progressive evaluation of the newborn in the first critical minutes of life. Hands-on practice is a key element of this course and will include physiological and practical understanding of infant resuscitation. The user will also strategize for successful implementation of neonatal resuscitation programs system wide.

**Biomedical Informatics**

**Instructors:** Shu-Hua Wang, Nigatu Kebede  
**Dates:** June 30 - July 3, AAU  

This course is designed to introduce the various biomedical informatics approaches that are instrumental for analysis of genotypic data, retrieval of genetic databases and understanding molecular data manipulations for the purposes of addressing infectious disease investigations. The key topics covered in this course include:
- Intermolecular interactions and biological databases  
- Optimality criteria and tree searching vs. distance methods  
- Biogeographic data analysis, evaluating phylogenetic trees  

**Pathology**

**Instructors:** Anjali Satoskar, Christina Arnold, Joan-Miquel Balada-Llasat, Mineia Guenuu-de-Arellano, Debra L. Zynger, Michael Arnold, Tufa Gemechu  
**Dates:** July 14 - July 18, AAU  

The areas of Pathology that will be covered include Medical Renal Disease pathology, Genitourinary tumors, Clinical Diagnostic Microbiology, Inflammatory bowel disease and Gastrointestinal tumors, and Pediatric and Placental Pathology. It will include a mix of short didactic lectures on focused areas along with an array of case presentations.

**Ethical Issues in Biomedical Research, Biosafety and Laboratory Data Management**

**Instructors:** Kate Hayes-Ozello, Yimtubezinash Woldeamanuel  
**Dates:** TBD (see website for updates)  

The course describes issues surrounding the ethical conduct of science, scientific authorship, protocols for research on human subjects, scientific conduct issues in making ethical decisions, principles of laboratory biosafety, and data management. Main topics covered:
- Human and animal subjects concerns  
- Scientific misconduct in biomedical research  
- Issues of authorship, conflict of interest, mentor-mentee relationships  
- Principles of biosafety in biomedical research; biosafety level criteria

**Biometrics: Exploring Foundations for Bioethics in Ethiopia**

**Instructors:** Ryan Nash, Matthew Vest, Yimtubezinash Woldeamanuel  
**Dates:** TBD (see website for updates)  

It is common to consider bioethics a content-rich authority that directs conduct of clinical and research practices. In the U.S. the practical bioethics framework is established by agreement in law, public policy, and regulation. This workshop will explore the practical bioethics that is common in the U.S. It will attempt to go beyond this to more foundational ethics. Further, the workshop will explore with the participants what should ground an Ethiopian Bioethics.

**Optometry Training**

**Instructors:** Bradley Dougherty, Alemayehu Desalegn  
**Dates:** August 25 - August 29, UOG  

Neurology of the Visual System: Topics include visual field testing and interpretation, optic neuropathies, chiasmal lesions, pupillary disorders, and cranial nerve disorders involving the eye and visual system.  
Low Vision Rehabilitation: Topics include common causes of vision impairment, optical principles of magnifiers and telescopes, reading with low vision, and clinical management of patients with low vision.
2014 Activities

Ohio State Students

Our Projects

RABIES Proposal feasibility/ sustainability business plan
Project leader: R. Scott Livengood, Jeanette O’Quin

Dates: May 1 - May 21

This project includes a team of seven Master of Business Administration students from Ohio State’s Fisher College of Business. They will work on supply chain, logistics and marketing aspects of the draft roadmap for rabies elimination from North Gondar, Ethiopia. The project involves key partners, currently 19 institutes and 47 individuals. The team will meet with academic institutes, regulatory and research institutes, mass media and communications, vaccine supply and reference diagnostic laboratories. The resulting business plan will cover finance, feasibility, evaluation and sustainability.

BETHA- One Health App Project/Electronic Capacity
Project leader: Wendassen A. Gebreyes

Dates: June 23 - August 1

This project focuses on the use of a mobile data collection and analysis system for monitoring foodborne pathogens for the assessment of smallholder dairy farming practices with regard to the risks of zoonotic diseases and associated environmental impacts. Developing our understanding of the knowledge and technology of practices and risks to human, animal, plant, and environmental health and sustainability will open opportunities to suggest, train, and motivate consumers and farmers to alter their practices, thereby sustaining better health, productivity, and providing a greater margin of profit with a goal of improved livelihood, particularly in urban and peri-urban settings. This project aims to provide opportunities for Ohio State students and faculty members to conduct a research outreach using Mobile Electronic Data Capture and Analysis System for monitoring foodborne pathogens in Eastern Africa. The proposed study aims to:

- Narrow the technology gap and to facilitate scientific networking between Ohio State and eastern Africa partners;
- Enhance interactions among producers, scientists and policy-makers;
- Improve the livelihood of poor urban and peri-urban livestock producers by minimizing zoonoses.

Environmental Hygiene/Food Security/Safety

Project leaders: Michael Bisesi, Araya Asfaw

Dates: June 23 - July 3, AAU

This project will focus on vegetative crops and livestock (including poultry) from farm to production and distribution to consumption. The overall theme of the collaborative efforts will include identifying, characterizing and controlling sources, pathways, and receptors of exposure.

Rabies Pilot Project

Project leaders: Jeanette O’Quin, Legesse Garedew

Dates: June 8 - July 5

The rabies prevention and control in North Gondar One Health pilot project will conduct the following activities:

- Dog Population Survey in Gondar City (OSU/UOG): Estimate the density and total population of dogs in the city of Gondar and nearby peri-urban and rural areas.
- Rabies Vaccination Clinics (UOG/OSU/EPhI): OSU students will assist local veterinarians and public health authorities in Gondar to offer a series of rabies vaccination clinics to the public.
- Spay and Neuter Veterinary Training (OSU/UOG): Lectures and practical surgery laboratories will be offered to local veterinarians.
- Rabies Surveillance Training (CDC/EPhI/OSU): Hands-on training to laboratory and field technicians on conducting the dRIT test.
- Assessing the Potential Economic Impact (CDC/OSU/EPhI/UOG): Data include costs, post-exposure treatment, animal vaccinations and employee-related expenses.

HIV Risk Reduction Project: Implementation Readiness for Tenofovir Gel

Project leaders: Usho Menon, Jacqueline Meshelemiah Semogele Kendie Mengesha

Dates: August 1 - August 10

Tenofovir gel is a microbicide recently shown to reduce HIV risk among women by as much as 39 percent. The purpose of this project, which will target women in Ethiopia, is to identify attitudes and opinions about introducing the use of Tenofovir. For the benefits to be actualized it is important to proactively assess readiness of policy-makers and key stakeholders to implement research findings into practice.

Javed Cheema is a 2nd year Working-Professional MBA candidate. He is interested in Operations/Supply Chain and Strategy. He is interested in figuring out how business skills can be used for the benefit of humanity and solving real world problems.

Alejandra Iberico Lozada is a masters degree in business administration. She has a background in commercial finance and is pursuing an MBA in supply chain management. Her interest in applying value-stream mapping to for-profit and non-profit organizations alike pushed her to collaborate with the OneHealth initiative to eradicate rabies.

Alexandra Medley is a first year veterinary student and candidate for the Masters in Public Health program at The Ohio State University college of Veterinary Medicine. Her interests include global public health and emerging infectious diseases. This year she will be conducting a roaming dog population survey in Gondar, Ethiopia for the One Health Rabies Initiative.

Danielle Latman is an MBA student majoring in marketing with a focus on innovation. She is from Brooklyn, NY and has over 10 years of experience in writing, publishing and non-profit management.

Ally Sterman is a fourth year veterinary student in the College of Veterinary Medicine at Ohio State. She participated in the Ethiopia Rabies One Health Initiative project last year and is excited to continue on with the project. Her professional interests include surgery, emergency and international veterinary medicine.

Maria Belu is a second year veterinary student pursuing a dual DVM/MPH degree with a specialization in veterinary public health at The Ohio State University. She is interested in pursuing a career in public health/wildlife conservation with special focus on global zoonotic disease transmission. Her interests in Ethiopia are on surveillance of salmonella prevalence in a variety of species.

Carla Garver is a second year Working Professional MBA student at the Fisher College of Business specializing in Operations with a focus in Process Improvement. She is interested in the data collection and reporting aspects of the One Health Rabies initiative to provide a way of mapping the success of the program for future proposals to model.

Mallory Kanwal is a first year veterinary student in The Ohio State University College of Veterinary Medicine. She is interested in the fields of public health, preventative medicine and small animal medicine.

Kelsey Gerbig is a second-year veterinary student at The Ohio State University College of Veterinary Medicine. She is interested in public health, global health, and mixed animal medicine.

Siraj Patel is a MBA student at Ohio State’s Fisher College of Business. He is focusing on Operations and Strategy as he is interested in a career in Healthcare Strategy.
2014 Activities

Our Workshops

Presentation of Roadmap to Stakeholders Workshop
Program Leader: Haile Mamo
Dates: June 20, EPHI
The workshop aims to bring together all stakeholders who have roles in prevention and control of rabies in Ethiopia. Specifically, the project team led by EPHI will present the draft roadmap to Ethiopian government leaders and receive inputs with the goal of finalizing the document and to seek endorsement for implementation of the One Health model project in North Gondar.

NIH Fogarty/ One Health Annual Retreat
Program Leader: Wondwossen Gebreyes
Dates: June 27 - 28
This regional annual retreat is organized by the Molecular Epidemiology of Foodborne Pathogens in Eastern Africa. Doctoral and master’s students and short-term fellows from the three nations will convene a two-day retreat at the International Livestock Research Institute (ILRI) Addis. During the retreat, program faculty and students will review the performance of the program and discuss future directions. In addition, eastern African fellows will present their annual progress and research findings on on MDR Salmonella; Molecular characterization of Rotavirus; Molecular epidemiology of Campylobacter and others.

Ohio State’s Office of the Chief Information Officer (OCIO) recently announced that the Ethiopia One Health partnership is the winner of a 2014 Digital Impact Grant. The grant will provide 40 iPads or 60 iPAD mints for development and delivery of online courses as well as various research and outreach projects in global one health. The project will also provide staff time to help the partners develop and implement projects successfully. To facilitate the launch of this project, OCIO will send a representative to conduct an exploratory visit to UOG and AAU.

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<th>Ohio State Ethiopia One Health Summer Institute</th>
<th>May 1-2</th>
<th>June 1-2</th>
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<tr>
<td>Pathology</td>
<td>July 14-18</td>
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<tr>
<td>Ethical Issues in Biomedical Research/ Clinical Bioethics</td>
<td>No date yet</td>
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<td>Optometry Training</td>
<td>Aug. 25-29</td>
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<tr>
<td><strong>Projects</strong></td>
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<tr>
<td>HIV Risk Reduction Project: Implementation Readiness for Tenofovir Gel</td>
<td>Aug. 110</td>
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<td>Global Health/Population Health/ Gender</td>
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<tr>
<td>Optimal Pilot project activities: 9 High Volume Spay/Neuter Training; 2) Dog inventory transection and 3) Post Mass vaccination</td>
<td>July 8 - 11</td>
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<td>Environmental Health/Food Security/Safety</td>
<td>AAU</td>
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<td>NIH Fogarty Molecular Epidemiology Annual Regional Retreat</td>
<td>July 20</td>
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<td>NIH Fogarty Molecular Epidemiology Annual Regional Retreat</td>
<td>June 27-28</td>
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*The Ohio State University-Ethiopia Partnership One Health Summer Institute 2014*

u.osu.edu/onehealth
Courses have limited spaces with registration on a first-come, first-served basis. Priority will be given to partner universities and institutes with established Memoranda of Understanding with Ohio State, including UOG, AAU and EPHI. For further information, interested potential attendees need to communicate with Mrs. Tigist Endashaw, ILRI Capacity Development Unit. This information can also be found on the web at u.osu.edu/onehealth.

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Christine O’Malley Tel: 614-292-1698 / Email: omalley.44@osu.edu