Dear Colleagues,

The Ohio State University Health Sciences-Ethiopia One Health Partnership is pleased to continue the 2015 Summer Institute. The Ohio State University is committed to becoming a preeminent global university, one that provides a solid foundation for students and faculty to lead and collaborate in international initiatives that enhance knowledge, partnerships and a common goal of sustainable development and health for all. Good health is one of the most precious of human conditions. For one hundred years, the College of Nursing at The Ohio State University has been educating nurses to deliver quality health care. Over the past three years, the college has also been on the forefront of wellness for the entire university. As the Dean of the College of Nursing and the university’s first Chief Wellness Officer, I am committed to promoting health and preventing illness among our students, staff, and faculty. To be able to extend our work on a global scale is exciting and pioneering. Our partnership with Ethiopia allows us to enhance our impact by reaching out to interdisciplinary colleagues in sub-Saharan Africa to enhance health and build capacity of faculty in health sciences. It is stimulating to witness the growth of the OSU-Ethiopia One Health partnership and the Summer Institute, which now encompasses all health science colleges at OSU as well as the colleges of business, social work, communication, and Engagement speak to the impact of our partnerships. I commend Buckeye students and faculty as well as our honorary Buckeye partners in Ethiopia for their enthusiasm, dedication, and spirit of inquiry.

Sincerely,

Bernadette Mazurek Melnyk, PhD, RN, CPNP/PMHNP, FAANP, FAAN
Dean and Professor, College of Nursing
Professor of Pediatrics & Psychiatry, College of Medicine

Ohio State University - Ethiopia One Health Partnership
One Health Summer Institute 2015

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The Ohio State University Health Science colleges, through its 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:

• Developed novel approaches for training and research delivery using electronic approaches such as iTunesU based courses, MAGPI and iPAD based data collection system and other digital tools.
• Developed novel and rapid field-deployable diagnostic systems against key infectious diseases such as Bovine Tuberculosis.
• Engaged in high impact societal problems such as Rabies and cervical cancer.
• Service learning, clinical, outreach and research projects that involved more than 300 Ethiopian and 100 Ohio State students.
• Received local, national and international recognitions as shown in detail in later sections.

The Ohio State University-Ethiopia Partnership
One Health Summer Institute 2015

Major priority areas identified:

Training prototype

• 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.
• Environmental health

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 Salmonella project (WHO funded/AAU trained)
  • TB rapid diagnostics (CCTS)
  • Leishmaniasis (NIH Funded/ Sandwich PhD from AAU trained)
  • ICT Capacity (NIH – approved)

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.

Veterinary Curriculum Twinning Program

See the OSU-UoG Veterinary Curriculum Twinning Workshop in the 2015 Summer Activities section of this brochure.

For more information about the project visit:
u.osu.edu/onehealth

**2015 Activities**

### Summer Courses

**Advanced Molecular Epidemiology**  
**Instructors:** Wondawosen A. Gebreyes, Wang  
**Dates:** July 20 - July 26, 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.

**Communications**  
**Instructors:** Nicole Kraft, Mustafa Worku  
**Dates:** July 18 - July 27, UoG  
Although most of us know how to speak, we do not always know how to communicate, especially in a business environment. This course will explore the theory and practice behind communication in a professional setting, with a focus on different message types and tools for communication. It will involve hands-on exercises for developing communication skills and products to help with internal and external communication.

### International Trade and Introduction to Risk Analysis

**Instructors:** Armando E. Hoet, Seleshi Negatu  
**Dates:** July 26 – August 1, UoG  
The aims of this week-long course is to familiarize participants with intergovernmental organization (WHO, FAO, OIE, Codex, WTO) and international rules and regulations (i.e. Codex Alimentarius, Sanitary and Phytosanitary) associated with international trade of livestock, livestock products, and food products of animal origin. The course will also be focused on basic concepts, principles, components (Hazard identification, Risk assessment, Risk management, Risk communication), and applications of risk analysis applied to the import and export of livestock and related products. The participants will also conduct a general food safety or import qualitative risk analysis, using a team work approach parallel to the academic program.

### Diagnosis and Management of Infectious Diseases

**Instructor:** Shu-Hua Wang, Joan-Miquel Balada Llasat  
**Dates:** June 27 - July 31, AAU  
The course will give an overview on how to diagnose and manage infectious diseases. Clinical epidemiology, diagnosis, and management will be reviewed. Major focus will be on laboratory diagnosis of infectious agents including bacteria, virus, parasites and fungi using real cases. Furthermore, patient management from treatment to infection control will also be discussed. The course is tailored to educate the participants about clinical differential diagnosis, specimen collection, use of different laboratory microbe identification and susceptibilities techniques, and patient management. Participants will also learn how to critically assess best laboratory practices and data analysis.

### Project Management Basics

**Instructor:** David Lindstedt  
**Dates:** July 13 - July 20, UoG  
Learn the foundations of project management. We will cover the basics of each phase in the PM lifecycle: initiation, planning, execution, and close. Using a combination of lecture, exercises, and discussion, you will learn how to manage your projects to complete on time, on budget, and within scope. Note: If possible, please come with one of YOUR projects in mind to use as the focus for a portion of your work in the class.

### Environmental and Occupational Health

**Instructors:** Michael Bisesi, Zemichael  
**Dates:** August 10 - August 15, UoG  
A combination of lecture, cases and independent readings. Topics include: Major Environmental Matrices (Air, Water, Soil and Food, Categorization of Physical, Chemical and Biological Agents and Ergonomic Factors, Ambient Environment vs. Indoor Environment, Occupational (Workplace) Environment, Application of Occupational Hygiene (Occupational Health) Tetrad of Hazard Anticipation, Recognition, Evaluation, and Control, Major Principles Occupational Hygiene Exposure Assessment, Major Examples Occupational Hygiene Air Sampling and Calculations and Interpretation and applications in food processing facilities.

### Research Methods and Ethics

**Instructors:** Usha Menon, Jenn Kue  
**Dates:** July 27 – August 2, AAU / EPHI  
Participants will receive an overview of how to design and implement effective research studies by identifying a research problem, developing hypotheses, and designing studies to test hypotheses. The program is tailored to meet your needs in understanding research design, sampling, data collection, data management, statistical and qualitative analyses, and disseminating results in scientific publications. Participants will also learn how to critically assess published research.

### Advanced Biostatistics and Health Analytics

**Instructors:** Huerta, Wakgari  
**Dates:** July 20 - July 26, AAU  
Participants will also learn how to critically assess published research.
Summer workshops

Rabies Advocacy and awareness
Project leader: Nicole Kraft, Reta Tesfaye, Mustafa Worku
Dates: July 18 - August 12
As part of the Summer Institute we will be conducting focus group testing of rabies messaging to determine materials that will best convey to the Gondar population the need for precautions in dealing with animals and encouragements toward vaccination. We will also provide communication training related to different types of messaging that can entice better health choices related to rabies exposure.

Pastoralist health strategy- Needs Assessment
Project leader: Wondwossen Gebreyes (OSU); Hentsa Hadush (FMoH); Yessin Habib (Samara); Balako Gume (Bule Hora)
Dates: June 25 – August 1
Ethiopia is endowed with close to 10 million pastoralists whose day to day life depends on livestock. The Ohio State University, Federal Ministry of Health and other Ethiopian partners including the EPHI will conduct a needs assessment site visit and workshop in Samsara (Afar region) and Borana (Oromia) pastoralist and Agro-pastoralist sites focusing on Zoonotic diseases, antimicrobial resistance, family health and other priority needs. A 4-5 member team of OSU and additional 5 FMoH partners will conduct site visits to Samara and Bule Hora between July 25th and 28th. The team will convene a workshop in central Ethiopia on August 1st with a goal of developing a roadmap plan.

OSU-UoG Veterinary Curriculum Twinning
Project leader: Armando Hoet, Tsegaw Fentie
Dates: June 23 - August 1
Funded by the World Organization for Animal Health (OIE), Ohio State and UoG initiated a new project with the focus on upgrading the Veterinary curriculum of the faculty of veterinary medicine at UoG. This pilot initiative will enable improving the curriculum to meet the Day 1 global standards of Veterinary professionals. As this is approved by the Chief Veterinary Officer of Ethiopia, the plan is once the project is complete successfully in three years, it will be adopted by other universities in Ethiopia and the region.

Dissemination & Implementation Science
Project leader: Usha Menon, Tamrat Abebe
Dates: July 23 – July 24, AAU
The objectives are to teach participants how to design and implement effective dissemination & implementation research studies and programs by identifying a health problem, evaluating current evidence on the topic, assessing readiness for dissemination and/or implementation, and developing a dissemination and/or implementation study. The program is tailored to meet your needs in understanding dissemination & implementation research design, sampling, data collection, data management, evaluation (quantitative and qualitative analyses), and publications.

Antimicrobial Stewardship and Infection Control
Project leader: Kurt Stevenson, Desalew Mekonen (UoG)
Dates: July 21 - August 3, AAU
A team of infection control specialists from Ohio State and university of Gondar will conduct a two-week workshop to exchange ideas and practices on infection control practices and antimicrobial use in the University of Gondar and Addis Ababa University Medical centers. In addition, the team will discuss future strategies to prevent and control antimicrobial resistance in the hospital and community environment.

Pilot Projects

Rabies Surveillance and Monitoring in Rural N. Gondar / comparative assessment
Project leader: Ermias Belay (CDC), Reta Tesfaye, Abraham Hale (EPHI)
Dates: June 24 - August 6
Largely through the efforts of our CDC partners, EPHI will be piloting a rabies surveillance program in Gondar. Personnel have been identified and trained to follow up on dog bite reports to ensure that people who were exposed to rabies are connected with medical care to receive appropriate anti-rabies treatment. When possible the personnel are also responsible for locating and managing the biting dog. For rabies suspected cases, animal samples will be collected for testing. Finally, the information gathered will provide baseline data on the incidence of rabies in dogs and the number of bites that expose people to rabies.

Syndromic Surveillance
Project leader: Wondwossen Gebreyes, Thomas Graham, Belay Tesfam
Dates: July 7 - August 12
In collaboration with Veterinarians without Borders, the Ohio State College of Veterinary Medicine and UoG will be working with dairy farmers in the North Gondar region to improve diagnostic and disease surveillance for the livestock species. The short term goal of this project is to obtain the prevalence of transboundary diseases, such as tuberculosis and brucellosis, with the focus on improving the food safety and security in Gondar. Brucellosis, zoonotic disease, is also a serious public health concern. Urine, milk and blood samples will be collected on three hundred cattle with the intention of using the Rose Bengal reagent test, Purified Protein Derivative test, and the DeLayal somatic cell test. In addition, a survey to determine the knowledge of Brucellosis and Tuberculosis will be conducted for community animal health workers and farmers.

Rabies- Serosurveillance in wildlife
Project leader: Barbara Wolfe (OSU); Michael Loomis (NC Zoological Society); Fekade Regassa (EWCA); Achenef Metaku (UoG); Ryan Wallace (CDC)
Dates: July 18 - August 12
The Ethiopian Wolf, with fewer than 500 remaining individuals, is the most endangered canid in the world. Rabies continues to be the biggest threat to the survival of the species, with several devastating outbreaks occurring in the past 10 years and new cases confirmed as recently as September 2014. This is despite the fact that over 70,000 domestic dogs in areas surrounding wolf habitats have been vaccinated in recent years. OSU professor Dr. Barbara Wolfe and second year veterinary student Elspeth Mitchell, along with colleague Dr. Mike Loomis, will meet with faculty and students from UoG and scientists at the Ethiopian Wildlife Conservation Agency to design a project. The goal will be to monitor the prevalence of rabies in other wild species that share a habitat with the wolves and design intervention strategies including mass vaccination and population control. The resulting business plan will cover finance, feasibility, evaluation and sustainability.
Pilot Projects

Cervical Cancer Genotyping
Project leader: Joan-Miquel Balada-Llasat and Usha Menon
Dates: Ongoing
Cervical cancer is the second most common cancer in women worldwide. Nearly 95% of women in low-middle income countries (LMICs) have never been screened for cervical cancer, and over 80% of women newly diagnosed with cervical cancer live in LMICs, most with advanced disease. The purpose of this study is to determine the prevalence of HPV genotypes in archived formalin-fixed, paraffin-embedded (FFPE) cervical biopsy tissue in women from the Amhara region of Ethiopia to inform vaccine development.

Vaccines targeted to HPV are a crucial defense in cervical cancer control, however, systematic data on genotypes in Ethiopian women is understudied.

Cervical Cancer VIA Screen-and-Treat Pilot Project
Project leader: Usha Menon
Dates: Ongoing
About 80% of global cervical cancer cases are in low & middle-income countries (Weggen, 2003; WHO, 2009); 88% of deaths attributed to cervical cancer occur in the developing world (Forouzanfar et al., 2017), and yet 95% of women in developing countries have never been screened for cervical cancer. Women in low-resource countries face multiple barriers to seeking health care. Repeat health care visits may mean loss to follow-up. Point of care (POC) testing allows state of the science medical tests to be available at the bedside or in the field near the patient. Often accomplished through portable, hand held or small test-kits, new smart technology allows for cost-effective and life-saving testing at the POC. The purpose of this project is to test the feasibility and acceptability of POC testing for HPV and the Single Visit Assessment (SVA) for cervical cancer prevention with 18 healthcare providers and 200 screened women in Ethiopia. Early detection and treatment through regular screening can prevent cervical cancer or identify cancer when curative treatment is still an option.

M. bovis/M.TB Rapid Diagnostics
Project leader: Shu-Hua Wang and Belay Tessema
Dates: July 18- August 15
Tuberculosis (TB) is a major cause public health concern in both human and animal. Bovine TB diagnostic tests can be labor intensive, delayed or costly. We will be piloting a rapid point-of-care, easy to use, cost effective diagnostic test for bovine TB. During the Summer, we plan to collect 300 milk samples from peri-urban an rural farms within North Gondar and central Ethiopia. We will conduct field testing using our newly-developed rapid detection system. This project will involve two students from OSU and 4 faculty and students from the Univ. of Gondar and the Ethiopian Public Health Institute.

Study Abroad and Hosting Ethiopian Scholars

OIA Study Abroad Director visit to AAU and UoG
Project leader: Grace Johnson
Dates: June 23 - August 1
Grace Johnson, Director of Study Abroad at the Office of International Affairs, spent 10 days in Ethiopia in March 2015 to share Ohio State’s expertise in internationalizing the campus. Johnson held workshops at the University of Gondar and Addis Ababa University detailing internationalization strategies that Ohio State has in place in order to graduate globally competent students and encourage innovative academic and research partnerships around the globe. Ethiopian educators and administrators are now well equipped to support a global education for their students and they are better prepared to advance internationalization efforts at their respective universities.

AAU and UoG International relations offices visiting Ohio State
Project leader: Laura Joseph
Dates: June 22 - July 11
The Center for African Studies is hosting two staff from the University of Gondar & Addis Ababa University through its State Department grant to build capacity in education abroad programming. Along with CAS’s launch of a study abroad program in Ethiopia, Ohio State is exchanging growing numbers of staff, students and faculty with these two universities as part of a university-wide collaboration. The two staff are:

Solomon Assefa is the Vice Director for International Relations at the University of Gondar, as well as a lecturer at the Institute of Public Health/dep of informatics. He has been awarded a Fulbright scholarship for this coming academic year at OSU, and is able to join us for our summer workshop. Sofonias Yosef is Head of the Media Center and Communications Expert in the Office of External Affairs, Publicity, and Communications at Addis Ababa University. Solomon and Sofonias will be based in CAS and will be working with ISS, Study Abroad, Communications as well as many units across campus. They will be joined by another colleague from AAU, Aires Bantigegn, very soon.

2015 - 16 Fulbright Fellowship Winner

Solomon Assefa
University of Gondar
Host
College of Public Health and College of Veterinary Medicine
The Ohio State University
**8000+**

iTunes U subscribers in over 90 countries

**305**

Mothers screened for cervical cancer, 65 treated

**300+**

Ethiopian professionals trained

**66**

Spayed and neutered dogs

**50**

Pulse Oximeter Machine donated

**1**

Prototype Diagnostic platform developed for Tuberculosis

**40+**

Summer time courses

**40305**

In excess of

**100+**

Ohio State Study Abroad Students involved since 2012

**60+**

Ethiopian Scholars from UoG, AAU, and EPHI hosted at Ohio State since 2012

**3**

National and International Awards

(2015 Andrew Heiskell Award by IIE)

APLU Michael P. Malone International Leadership Award

Emerging International Engagement Award

**45**

Ohio State Faculty and Staff involved in 2014 alone
## 2015 Activities Schedule

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Sharon Kim
is a third year veterinary student at the Ohio State University interested in veterinary public health. She pursued a MPH prior to veterinary school where her interest in infectious diseases and global health expanded as she came to understand that herd health affects not only animals, but contributes to a cascade of health effects on the surrounding human population. By working in the Ethiopian community as a veterinary student, she hopes to create a lasting network and relationship between OSU while continuing to promote public health through research and education.

Sarah Waibel
is a second year veterinary student pursuing a DVM at The Ohio State University and a MPH degree with a specialization in veterinary public health at the University of Minnesota. She is interested in pursuing a career in the United States Army as a public health veterinarian with focus on global health and food safety/production. Her project in Ethiopia involves a surveillance and monitoring program for rabies in the local canine population and efficacy testing of the new domestically produced canine rabies vaccine.

Joslyn Tijerina
is a first year graduate student pursuing a Masters of Public Health degree with a specialization in Veterinary Public Health and Global Health at The Ohio State University. She is interested in pursuing a career in public health with a focus in infectious and zoonotic disease prevention. Her interests in Ethiopia are in rabies awareness material development and a follow-up assessment of their efficacy, leading to the distribution of successful awareness materials throughout Ethiopia.

Elspeth Mitchell
is a second year veterinary student at The Ohio State University. She is interested in pursuing a career in wildlife conservation with a special focus on disease transmission. Her interest in Ethiopia is in control and prevention of rabies in both domestic and wild populations.

Daniel Bendtsen
is a senior at Ohio State studying Communication Analysis and Practice. Writing for The Lantern has dominated his extracurricular efforts while at the university, and he served as Assistant Arts Editor and later Arts Editor for the publication during the 2014-15 academic year. While in Ethiopia, Daniel will conduct focus groups on messaging related to rabies vaccination and will design posters in an effort to raise awareness on this issue.
Our Goals

Build a global health workforce while addressing priority issues.
Better train local and global professionals.
Broaden students’ global perspective and foster multidisciplinary collaboration.
Protect the public from current and potential future emerging diseases.
Build a prototype One Health Model for the Infections of Global Health in the Tropics.

Our model of the One Health Workgroup

Benefits to the Ohio State Community:
Service-learning opportunities for students.
Clinical training opportunities for faculty and students involving cases with a more complex and unique nature rarely experienced domestically.
Promotion of research collaborations producing evidenced-based care strategies.
Build and foster partnership between colleges for improved health communication leading to a more integrated problem solving attitude.
The Ohio State University-Ethiopia Partnership

One Health Summer Institute

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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