



The Ohio State University-Ethiopia Partnership

One Health Summer Institute

June 24 – August 15, 2015



THE OHIO STATE UNIVERSITY

Foreword

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, environment and natural resources and education. We have engaged in innovative models of faculty exchange through adjunct appointments and supported Ethiopian students through fellowships and training programs. Research

For information about project activities and partnerships please contact:

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collaborations focus on critical issues such as rabies and cancer control, developing healthcare workforce, and an HIV-free generation. Recent success in garnering grant funding for topics such as Leishmaniasis, MDR Salmonella, Rotaviruses, prevention of antimicrobial resistance, and Zoonosis and workforce development are evidence of the significance and robust nature of the One Health collaborative between Ethiopia and OSU. Additionally, our partners in Ethiopia have graciously provided educational opportunities for stellar Buckeye students focused on global health and collaborative research and teaching initiatives our world-class faculty. Recognitions such as the Michael Malone Award for International Leadership by the Association of Public and Land-grant Universities, the Andrew Heiskell Award (Honorable mention) by the Institute of International Education (IIE), and the Emerging International Engagement Award by the OSU Outreach 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,



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Introduction

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:

- Service learning, clinical, outreach and research projects that involved more than 300 Ethiopian and 100 Ohio State students
- Delivered more than 40 courses for 300+ Ethiopian and east Africa professionals in annual Summer institutes
- Engaged in high impact societal problems such as Rabies and cervical cancer
- Developed novel and rapid field-deployable diagnostic systems against key infectious diseases such as Bovine Tuberculosis
- Developed novel approaches for training and research delivery using electronic approaches such as iTunesU based courses, MAGPI and iPad based data collection system and others
- Received local, national and international recognitions as shown in detail in later sections



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 – Ethiopia One Health Summer Institute* conducts one to two week modular courses in various health science and related 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

Prototype 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.
- 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/ Sandwich PhD from 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.



THE OHIO STATE UNIVERSITY

2015 Activities

Summer Courses

Advanced Molecular Epidemiology

Instructors: Wondwossen 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 Nigatu

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

Instructors: 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

2015 Activities

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); Hintsa Hadush (FMoH); Yassin 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 Samara (Afar region) and Borana (Oromia) pastoralist and Agro-pastoralists 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 Woldeamanuel Yimtubezenash (AAU)

Dates: July 21 - August 3, AAU, UoG

A team of infection control specialists from Ohio State and university of Gondar will conduct a two week assessment with two-days 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 Haile (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 Tessema

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 DeLaval 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 Melaku (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.



2015 Activities

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 (Waggoner, 2003; WHO, 2009); 88% of deaths attributed to cervical cancer occur in the developing world (Forouzanfar et al., 2011), 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 and 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.



Ohio State Scholarship

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/dept 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, Asres 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

IMPACT

IMPACT

IMPACT

IMPACT

8000+
iTunes U
subscribers in
over 90 countries

300+
Ethiopian
professionals
trained

66
spayed and
neutered dogs

50
Pulse Oximeter
Machine donated

305
Mothers screened
for cervical cancer,
65 treated

40
iPads
delivered

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

60+
Ethiopian Scholars
from UoG, AAU, and
EPHI hosted at Ohio
State since 2012

1
Prototype
Diagnostic platform
developed for
Tuberculosis

40+
summer time
courses

100+
Ohio State Study
Abroad Students
involved since
2012

2015 Activities Schedule

Ohio State Ethiopia One Health Summer Institute		Instructors/ Primary contacts		July				August			
	Course/Activity Details	Ohio State	Ethiopia	1	2	3	4	1	2	3	4
Courses	<i>Advanced Molecular Epidemiology (5 days)</i>	Gebreyes	Seleshi Nigatu			July 20 - 26					
	<i>Diagnosis and Management of Infectious Diseases (5 days)</i>	Wang / Balada-Llasat	Tamrat				July 27 - 31				
	<i>Clinical Immunology (5 days)</i>	J. Balada-Llasat	Tamrat				July 27 - 31				
	<i>International Trade and Introduction to Risk Analysis</i>	Hoet	Nigatu				July 27 - August 1				
	<i>Research Methods and Ethics (5 days)</i>	Menon / Hayes-Ozello	Getnet				July 27 - August 2				
	<i>Advanced Biostatistics and Health Analytics</i>	Huerta	Wakgari			July 20 - 26					
	<i>Project Mgmt, Monitoring & Evaluation (7 days)</i>	Lindstedt	Desalegne		July 13 - 20						
	<i>Environmental and Occupational Health</i>	Bisesi	Zemichael						August 10 - 15		
	<i>Communications</i>	Kraft	Mustafa			July 18 - 28					
Projects	<i>Rabies surveillance/monitoring</i>	O'Quin	Asefa / Reta								
	<i>M. bovis/ M.TB LAM Rapid Diagnostics</i>	Wang	Belay								
	<i>Syndromic Surveillance</i>	Gebreyes	Desalew								
	<i>Rabies awareness assessment</i>	Kraft	Reta								
	<i>Rabies- Serosurveillance in wildlife</i>	Wolfe /	Deressa / Reta								
	<i>Cervical Cancer Genotyping</i>	Balada-Llasat / Menon									
	<i>Cervical Cancer VIA Screen-and-Treat Pilot Project</i>	Menon									
Workshops	<i>Ohio State - Ethiopia One Health Workshop</i>	Gebreyes	Reta				July 18 - 28				
	<i>Pastoralist health strategy- Needs Assessment</i>	Gebreyes	Hintsu				July 27 - 31				
	<i>OSU-UoG Vet. Curriculum twinning</i>	Hoet	Acheneb				July 27 - August 1				
	<i>eCapacity/ Digital project workshop</i>										
	<i>Antimicrobial Stewardship and Infection Control</i>	Stevenson	Desalew / Jamerh								

2015 Faculty



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Ohio State Students



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.



Elsbeth 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.

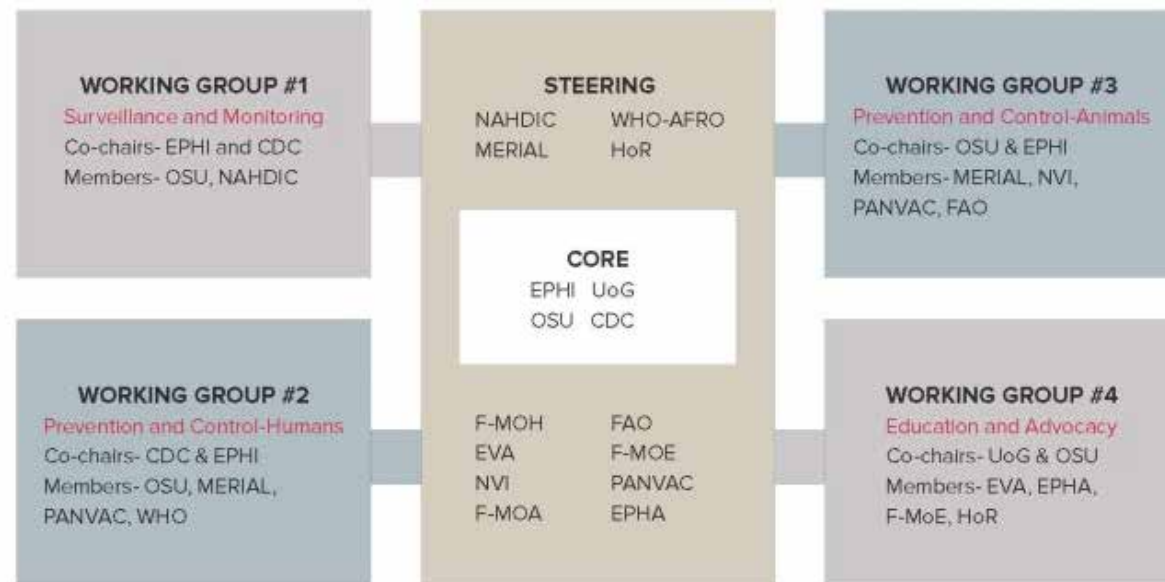


Daniel Bendtsen is a senior at Ohio State studying Communication Analysis and Practice. Writing for The Lantern has dominated his extracurricular efforts while at the university, and he served as Assistant Arts Editor and later Arts Editor for the publication during the 2014-15 academic year. While in 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.

Ohio State External Partners

United States

CDC
NIH - Fogarty
University of California, Davis
USAID - PREDICT
North Carolina State University

Ethiopia

Federal Ministry of Health
Federal Ministry of Agriculture
Ethiopian Wildlife Conservation Authority
Samara University
Bule Hora University

Cornell University
Veterinarians Without Borders
North Carolina Zoological Society
Columbus Zoo and The Wilds

Eastern Africa

Kenya Medical Research Intitute
Sakoine University of Agriculture
University of Nairobi
International Livestock Research Institute
Biosciences east and central Africa





The Ohio State University-Ethiopia Partnership One Health Summer Institute



F O G A R T Y



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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