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Global Translational Research and Education

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Global Translational Research and Education

Katherine Luzuriaga, MD

Associate Provost, Global Health



UMMS Strategic Goal 6: Have a Significant Impact in the World

The UMMS Office of Global Health (OGH) was founded in 2009 to enhance and expand UMMS research and training programs in global health

GOALS:

•EDUCATION:

- Work with UMMS medical, graduate, and nursing schools; UMass campuses; and global partners to create programs that rigorously prepare trainees for careers in global health

•RESEARCH:

- Create infrastructure to support the development and conduct of global health projects
- Leverage institutional funding sources to increase extramural funding:
 - Administer grant programs that provide seed money for innovative research and educational programs.
 - Pilot project grants
 - Travel grants
- Sponsor seminars and symposia



UMMS Strategic Goal 6: Have a Significant Impact in the World

- **Academic institutions as agents of change:**
 - **Fostering investigation and discovery**
 - **Translating discovery into evidence-based, cost-effective policies and practice**
 - **Developing innovative education and training programs to build human resource capacity and future leaders**
- **Health and health care are integral components of any strategy for economic development and security**
 - **Governmental and foundation resources to support global health programs have increased more than ten-fold**



Rationale for Global Research Partnerships:

- Educational experiences
- Scientific expertise/collaboration
- Innovative, lower cost approaches to health care
- Access to unique patient cohorts:
 - Rare diseases
 - Diseases endemic in lower resource settings
- Funding: Development assistance for health in LMIC doubled from \$5.6 billion in 1990 to roughly 10 billion in 2001; it doubled again to \$21.8 billion in 2007 (Ravishankar et al, Lancet, 2009)



Development assistance for health from 1990 to 2007 by source of funding

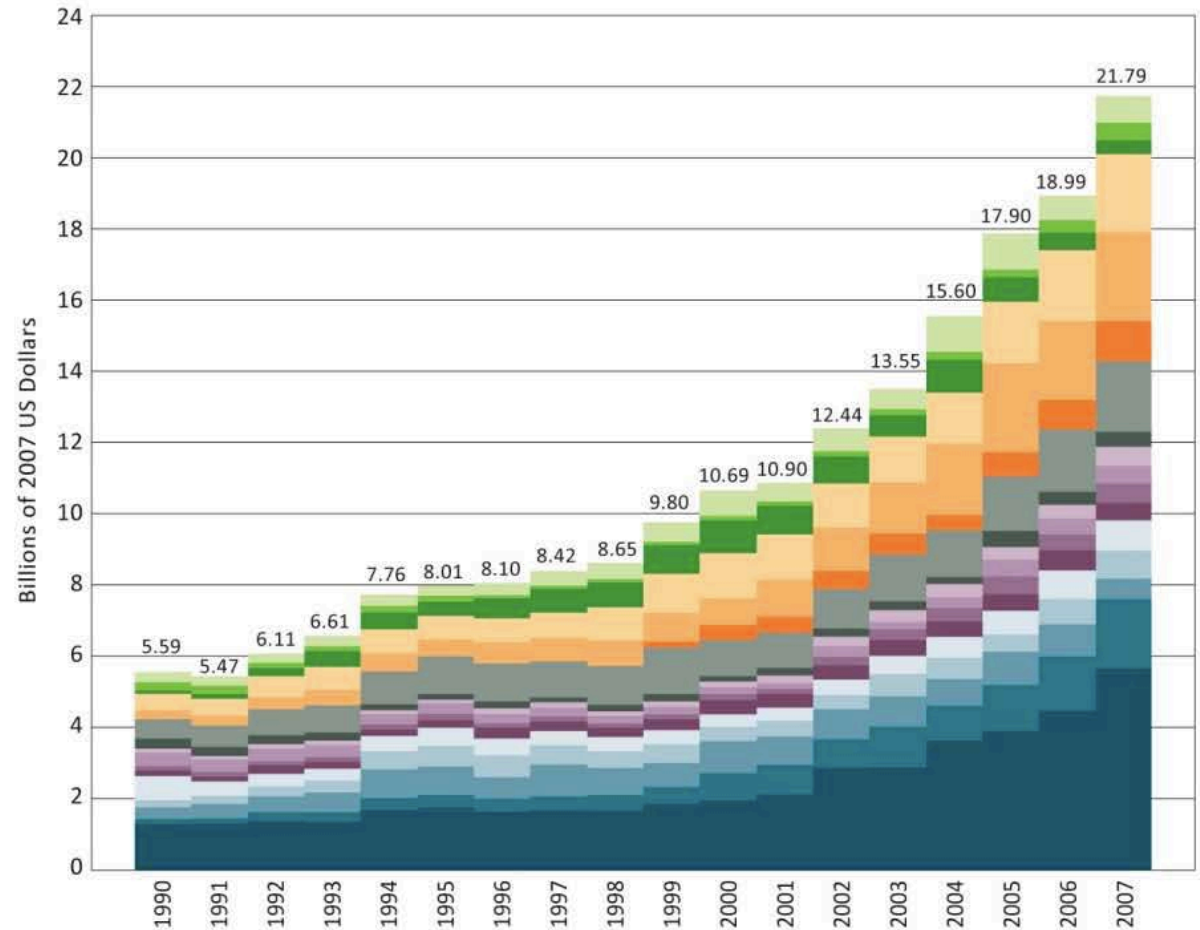
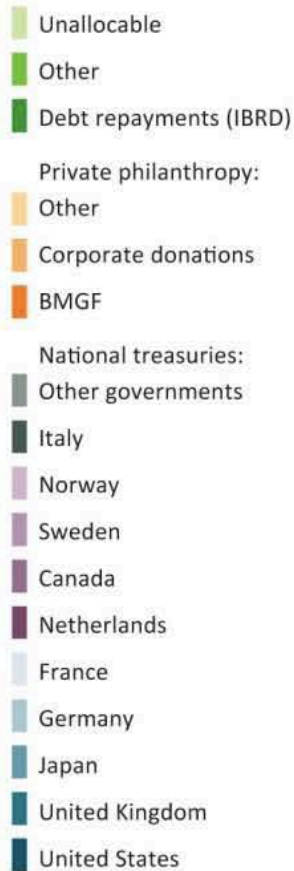


Fig. 1. NCI's new Center for Global Health promotes a collaborative effort to reduce the burden that cancers impose on people and countries around the world.



Varmus H , Trimble E L Sci Transl Med 2011

Global Cancer Deaths

	Global Cancer Deaths	% in low resource settings
2008	6.2 million	55%
2008	7.6 million	64%
2030 (Projected)	13.2 million	69%

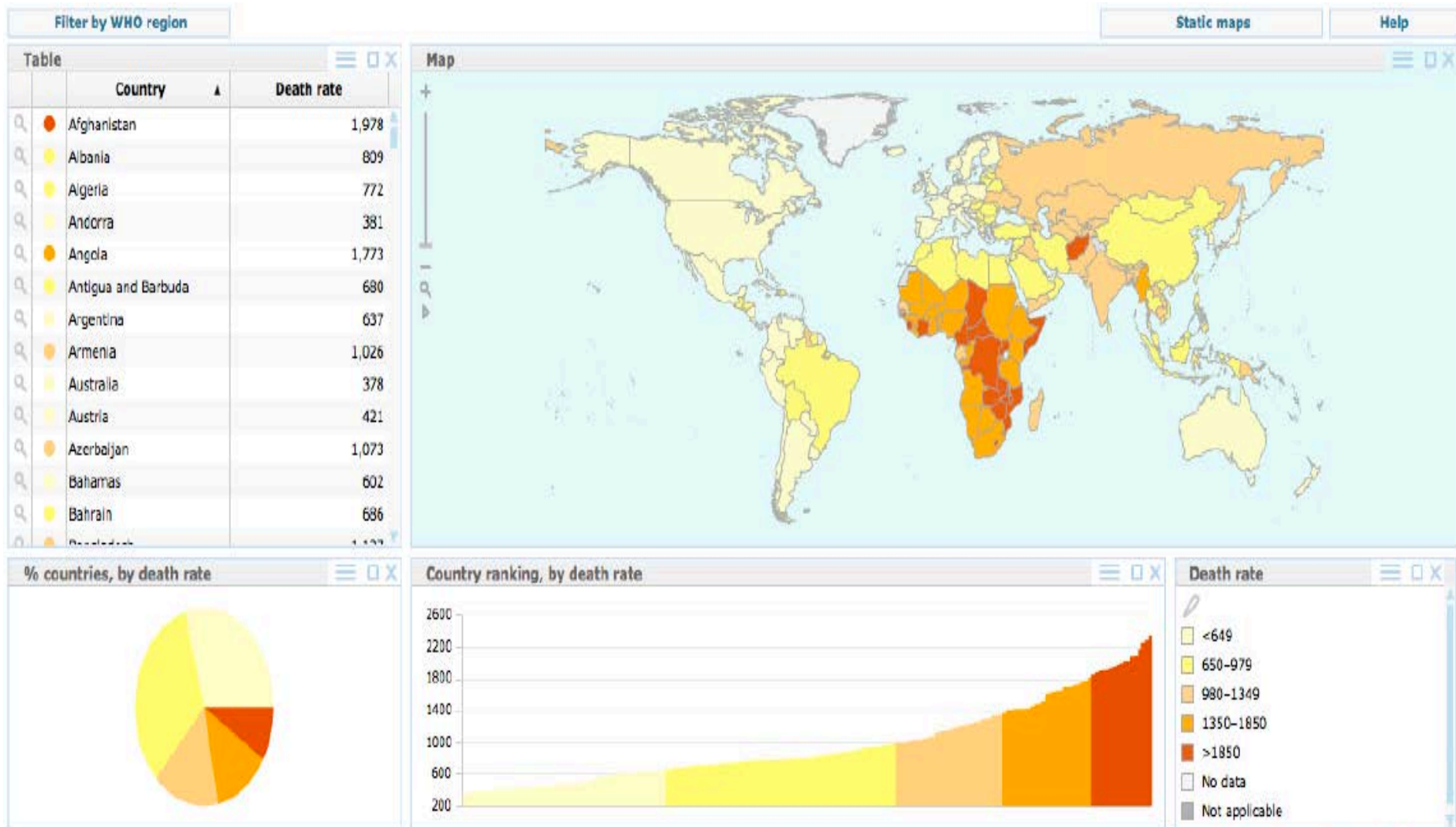
25% of cancers in limited resource settings are associated with infectious agents

Varmus and Trimble, Sci Tran Med, 2011

Table 1.1: General rules of infection and cancer

Infection					
HPVs	Cervical cancer	100%	490,000		✓
HBV	Liver cancer	50%	340,000		✓
HCV	Liver cancer	25%	195,000		✗
EBV	Burkitt lymphoma	>90%			
	Hodgkin lymphoma	>50%	113,000		✗
	Post-transplant lymphoma	>80%			
	Nasopharyngeal carcinoma	100%			
KSHV	Kaposi sarcoma	100%			
	Primary effusion lymphoma	100%	66,000		✗
	Multi Castleman's disease	>50%			
HTLV1	Adult T cell leukaemia	100%	3,000		✗
H. pylori	Gastric carcinoma	30%			
	MALT lymphoma	100%	603,000		✗

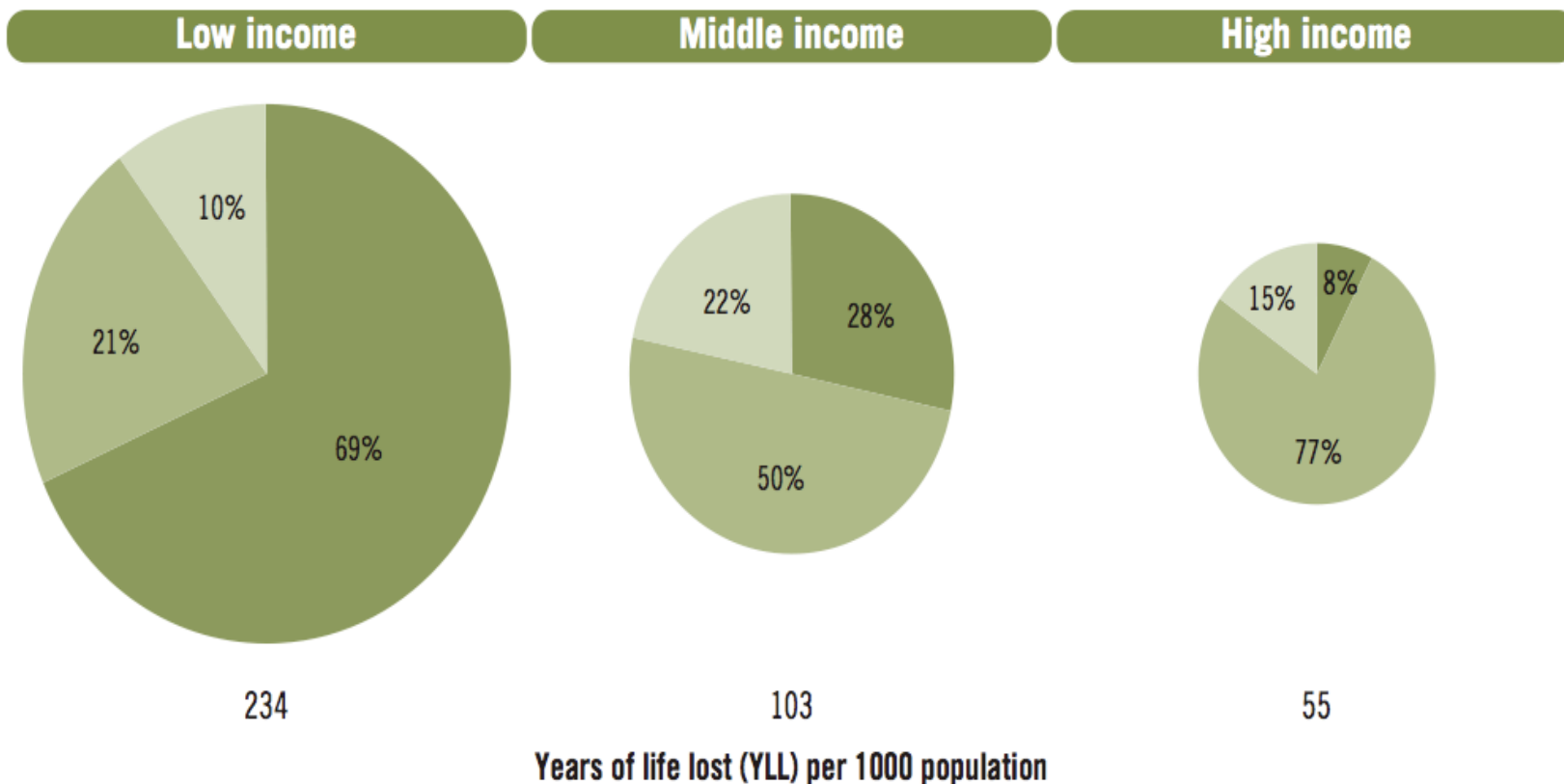
AGE STANDARDIZED DEATH RATES (PER 100 000 POPULATION) 2008



Use your mouse to select data. Use Ctrl-key to make multiple selections. Click on the right mouse button to clear selections.

© WHO 2011. All Rights Reserved. Map Disclaimer.

YEARS OF LIFE LOST (YLL) DUE TO PREMATURE MORTALITY BY BROAD CAUSE AND COUNTRY-INCOME GROUP



- Communicable diseases, maternal and perinatal conditions and nutritional deficiencies
- Noncommunicable conditions
- Injuries

UMMS RESEARCH STRENGTHS: Communicable Diseases

- **Programs and Centers**
 - Center for AIDS Research
 - Immunology Virology Program
 - Microbiology and Physiological Systems
 - Molecular Genetics and Microbiology
 - Program in Molecular Medicine
 - Institute for Drug Resistance
 - UMass Biologics Laboratory
 - Mass State Lab
 - Advanced Therapeutic Cluster
- **Specific Diseases**
 - HIV
 - Malaria
 - Tuberculosis



UMMS RESEARCH STRENGTHS: Non-communicable Diseases

- **Programs and Centers**
 - Brudnick Neuropsychiatric Research Institute
 - Cancer Center
 - Cardiovascular Center of Excellence
 - Center for Tobacco Treatment Research and Training
 - Commonwealth Medicine
 - Diabetes and Endocrinology Research Center
 - Institute of Child Health and Human Development Intellectual and Developmental Disabilities Research Center (IDDRC)
 - Quantitative Health Sciences
 - Pediatrics, Family Medicine, Emergency Medicine, OB/GYN
- **Specific Conditions:**
 - Aging
 - Cancer
 - Cardiac Disease
 - Developmental/neurologic disorders
 - Diabetes
 - Injury prevention
 - Maternal-Child Health
 - Obesity
 - Outcomes research



EXTERNAL AND INTERNAL PARTNERS

US Partners

- USAID
- NIH Fogarty Center
- Center for Disease Control
- Consortium of Universities for Global Health
- Higher Education for Development
- Global Health Education Consortium
- Global Health Council
- Health, Education and Relief Through Teaching (HEARTT)
- Bill and Melinda Gates Foundation

UMass System

- UMass President's Office
- UMass China Institute
- UMass School of Public Health (Amherst)
- UMass Amherst Institute for Global Health
- UMass Boston Center for Democracy & Development
- UMass Dartmouth School of Nursing
- UMass Lowell School of Nursing

International Partners

- Universidade Federal de Minas Gerais (Brazil)
- West China School of Medicine (China)
- Peking Union Medical College (China)
- Peking University Health Sciences (China)
- Tongji University Medical School (China)
- East China Stem Cell Bank (China)
- Universidad Tecnológica de Santiago (Dominican Republic)
- Royal College of Surgeons of Ireland (Ireland)
- Kenya Medical Research Institute (Kenya)
- John F. Kennedy Medical Center (Liberia)
- Health Education and Relief Through Teaching (HEARTT)

UMMS

- School of Medicine
- Graduate School of Nursing
- Graduate School of Biomedical Science
- Graduate Medical Education
- International Medical Education
- Center for Clinical & Translational Science
- MA State Laboratory
- MA Biologics Laboratories
- The Shriver Center
- Center for Drug Resistance
- Center for AIDS Research
- New England AIDS Education & Training Center

GLOBAL HEALTH PROJECT MAP



UMMS OFFICE OF GLOBAL HEALTH

GOAL: Develop infrastructure to support the development and conduct of global health training, research, and service projects

- **International Project Resources**
 - **International Project Registration**
 - **Memoranda of Understanding**
 - **Travel Resources and Registration**
 - **Communication Portals**
 - **Funding**

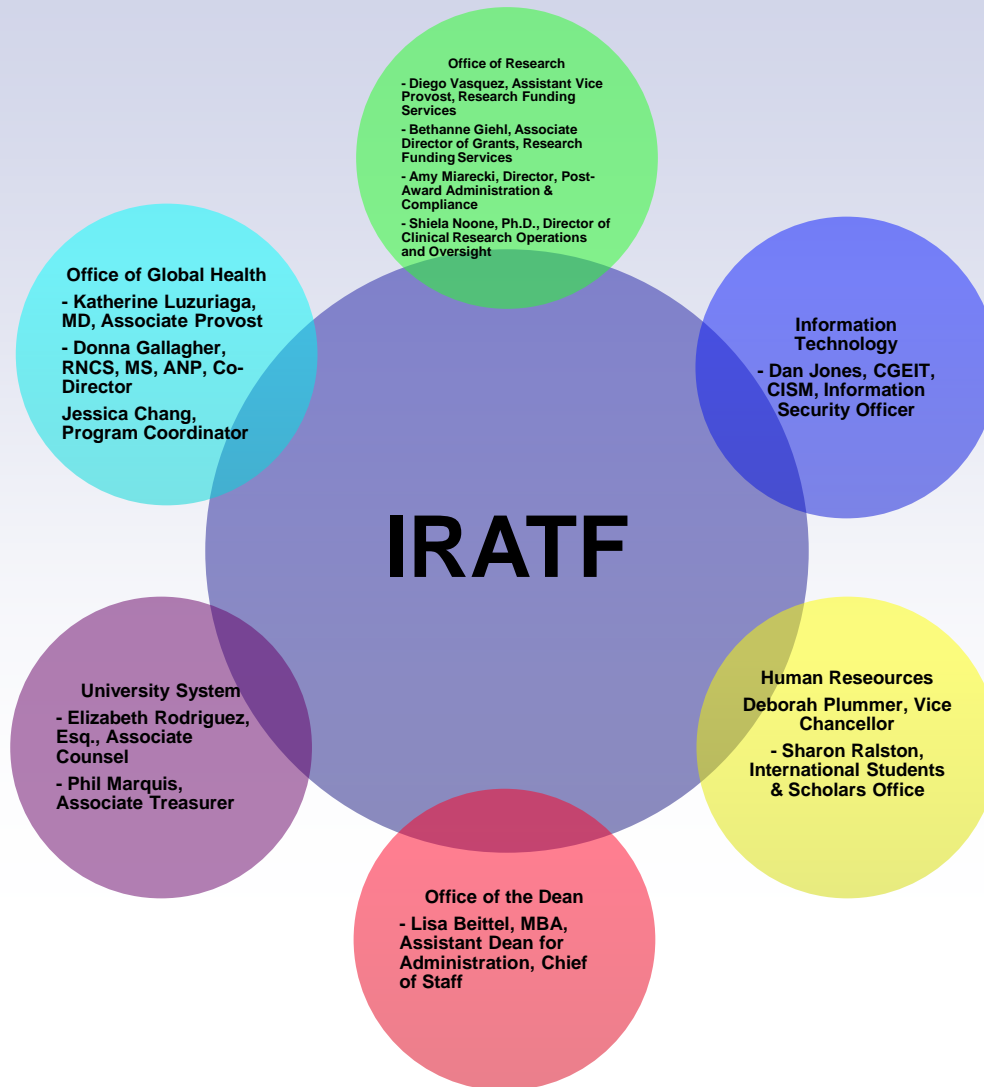


UMMS INTERNATIONAL RESEARCH ADMINISTRATION TASK FORCE

Advise on the development of policies and procedures that

- **facilitate the development and implementation of international research projects**
- **ensure compliance with federal, state, and host country laws, as well as UMass/UMMS policies**

International Research Administration Task Force Members



FOREIGN PROJECTS FUNDING

- **Global Health-Related Extramural Funding : FY2011**
 - **Direct Costs = \$1,888,686**
 - **Indirect Costs = \$739,872**

- **FY2012: Thus far, \$1.3 million direct, \$290K indirects (\$1.6 m) new grants**

FOREIGN PROJECTS AND MOUS

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→ **NEW DEADLINE!!! OGH
Pilot Project and Travel
Award RFAs. Application Due:
April 9th, 2012**

Foreign Projects and Memoranda of Understandings

On Monday, March 5th, 2012, the Dean of UMass Medical School, Dr. Terence Flotte, sent out a memo informing all UMMS faculty, staff, student and trainees of the updated programs and support systems that the Office of Global Health has developed. These programs are in place to facilitate the development and implementation of Global Health clinical, research, and educational projects. To find out more about Foreign Project Registration or development of an MOU, please visit the links provided on the left menu bar.

Dean's Global Health
Memo

Dean Terence Flotte's Memo on updated OGH programs and support systems.

Foreign Project
Registration

OGH policy on Foreign Project Registration.

Download the Foreign
Project Registration Form

Fill out the Foreign Project Registration Form

Memoranda of
Understanding

OGH policy on developing a Memoranda of Understanding.

OFFICE OF
GLOBAL HEALTH
AT UMASS MEDICAL SCHOOL

INTERNATIONAL PROJECT REGISTRATION FORM

1. **General information** (investigator and admin. contacts)
2. **Scope of work** (research, educational, or patient care)
3. **Infrastructure** (personnel, real estate, international travel)
4. **Legal** (MOUs, other agreements)
5. **Financial** (funding sources, sub-awards, field advances)
6. **Export control** (Item import/export; hosting students/visitors)
7. **Departmental Signoff**

Foreign Project Registration Form

Anyone initiating or renewing a foreign project under University of Massachusetts Medical School auspices must complete this registration form. Depending on the nature of the project, further consultation may be required.

GENERAL INFORMATION

Today's Date	
Project Name	
Overseas Location(s)	
Principal Investigator	
Name	
Department	
Email	
Work Phone	
Cell Phone	
Department/Project Administrator	
Name	
Email	
Work Phone	
Cell Phone	
Primary Contact Person (if different from above)	
Name	
Email	
Work Phone	
Cell Phone	
Foreign Partner	
Institution/Organization	
Contact person	
Address	
Email	
Phone	

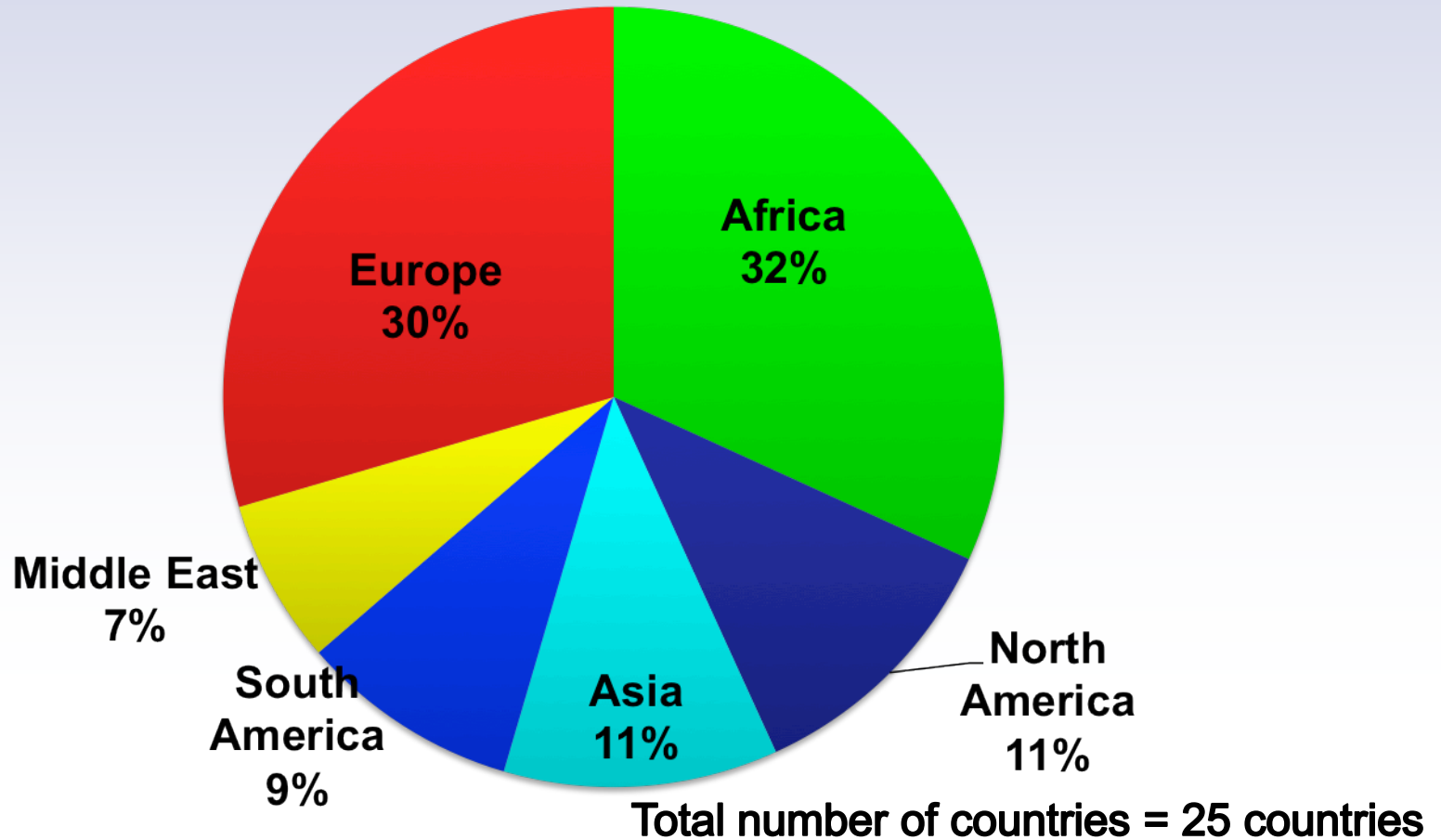
LEGAL/INFRASTRUCTURE

Has a Memorandum of Understanding been signed?		
<input type="checkbox"/> No	<input type="checkbox"/> Yes; Responsible parties: _____ Please send an electronic copy of the MOU to kiger.lau@umassmed.edu .	Effective dates: _____
Have financial agreements been signed?		
<input type="checkbox"/> No	<input type="checkbox"/> Yes; Responsible parties: _____ Please send an electronic copy of the agreement to kiger.lau@umassmed.edu .	Effective dates: _____
Have other documents describing the scope of work been created?		

FOREIGN PROJECTS SUMMARY

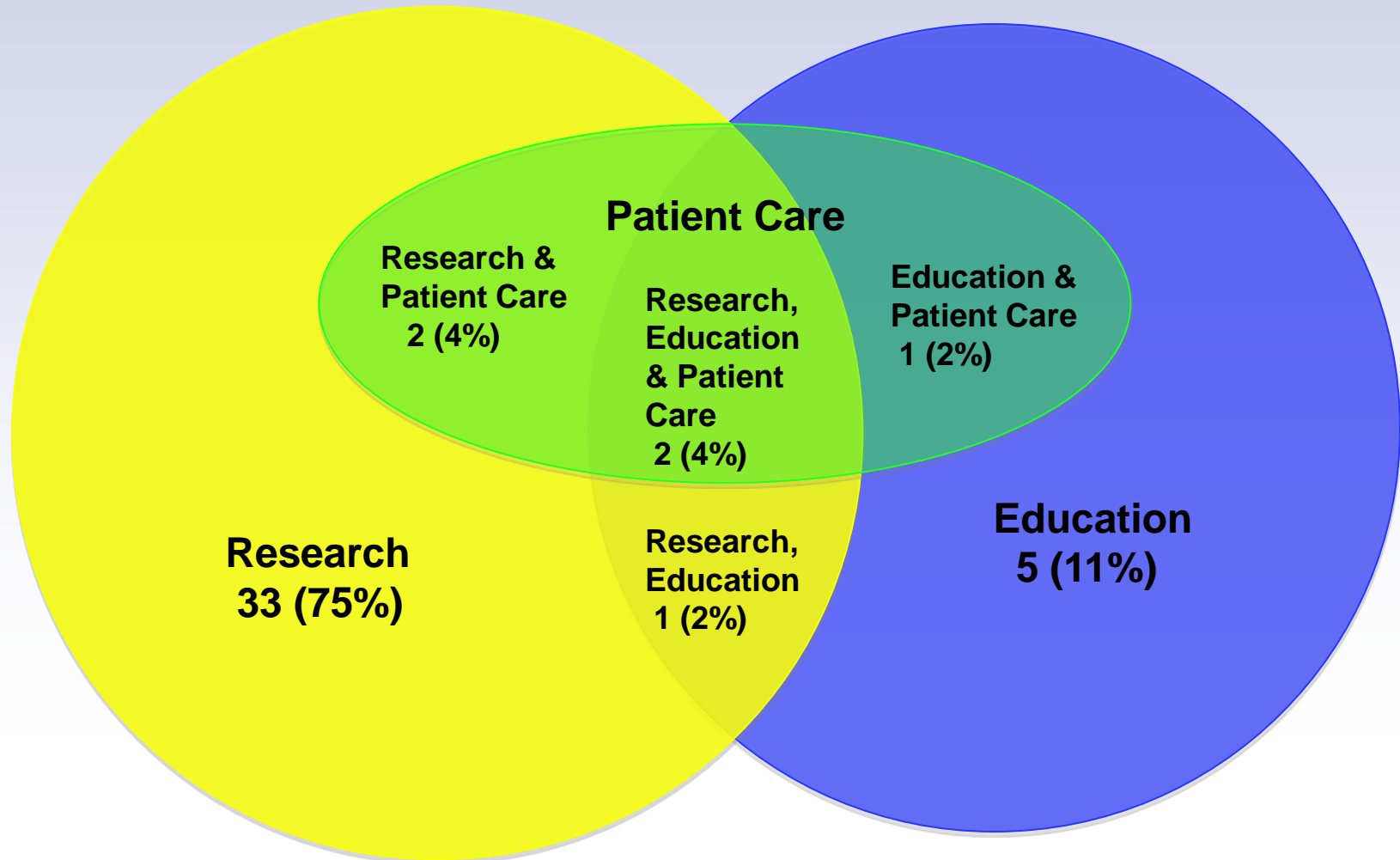
JANUARY, 2011 THROUGH MARCH, 2012

Foreign Projects by Continent



FOREIGN PROJECTS SUMMARY

JANUARY, 2011 THROUGH MARCH, 2012



Total number of projects = 44 projects



FOREIGN PROJECTS SUMMARY

JANUARY, 2011 THROUGH MARCH, 2012

- **Grants or Grant proposals = 21 (48%)**
 - **NIH = 13 (62%)**
 - **Other = 7 (33%)**
 - **Contract for services = 1 (5%)**

Memoranda of Understanding (MOU's)

MOU's formalize an affiliation between UMMS and an international institution or organization:

- **Provide an overview of the affiliation's scope of work and describe the relationship that UMMS is seeking with a partner institution or organization**
- **Lay the groundwork for specific affiliation agreements or contracts**



ESTABLISHING NEW MOU' S

PRINCIPLE:

PARTNERSHIPS WITH PURPOSE

**1. Contact Jessica Chang, OGH
Coordinator for MOU
template.**

**2. Insert the name and logo of the
partner institution; delete any
provisions not applicable to the
proposed partnership.**

**3. Return draft MOU to OGH for
review by Legal, OGH and relevant
UMMS departments and programs.**

**4. OGH will send a copy of the
draft MOU to the partner institution
for approval.**

**5. Once both parties have
approved the MOU, OGH will
arrange for the leadership of each
institution to sign.**

COUNTRY	PARTNERING INSTITUTION/ORGANIZATION	UMMS CONTACT
Brazil	Universidade de Sao Paulo – UMass system wide	UMass President's Office
Brazil	Universidade Federal de Minas Gerais (FIOCRUZ)	Doug Golenbock, MD
Bolivia	Viedma Clinical Hospital and the Institute of Human Development	Doug Golenbock, MD
Chile	Universidad Andrés Bello, Centro de Investigacions Biomédicas	Gary Stein, Ph.D.
China	West China School of Medicine, Sichuan University	Guangping Gao, Ph.D.
China	Peking Union Medical College	Guangping Gao, Ph.D.
China	Peking University Health Science Center	Guangping Gao, Ph.D.
China	Tongji University Medical School	Guangping Gao, Ph.D.
China	East China Stem Cell Bank	Guangping Gao, Ph.D.
Dominican Republic	Universidad Tecnologica de Santiago	Doug Golenbock, MD
Germany	The Universities of the State of Baden-Wurttemberg	Frank Hugus
Haiti	St. Damien Hospital	Patricia McQuilkin, MD
Hungary	Simmelweis University	Gyongyi Szabo, MD, Ph.D.
India	Seth Gordhandas Sunderas Medical college (GSMC)	Avi Patwardhan, MD
Ireland	Royal College of Surgeons in Ireland	Michael Godkin, Ph.D.
Italy	University of Modena and Reggio Emilia	Anthony Carruthers, Ph.D.
Japan	Kitasato University	Mitsuo Ikebe, Ph.D.
Japan	Hokkaido University	Mitsuo Ikebe, Ph.D.
Kenya	Kenya Medical Research Institute	Ann Moormann, Ph.D.
Kenya	Moi / Indiana University	Ann Moormann, Ph.D.
Lebanon	American University of Beirut	Katherine Luzuriaga, MD
Liberia	John F. Kennedy Medical Center	Katherine Luzuriaga, MD
Liberia	Health Education & Relief through Teaching (HEARTT)	Katherine Luzuriaga, MD
Liberia	University of Liberia	UMass President's Office
Nicaragua	Universidad Nacional Autonoma de Nicaragua, UNAN LEON	Michael Godkin, Ph.D.
Puerto Rico	Universidad de Puerto Rico	Robert Goldberg, MD
South Korea	Korean Basic Science Institute	Mitsuo Ikebe, MD
Thailand	Mae Tao Clinic	Meredith Walsh, RN
USA	Ibis Reproductive Health	Meredith Walsh, RN
USA	Medicorps	Melissa Fischer, MD

INTERNATIONAL TRAVEL REGISTRATION



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Announcements

→ **NEW DEADLINE!!! OGH Pilot Project and Travel Award RFAs. Application Due: April 9th, 2012**



55 Lake Avenue North,

International Travel Registration

In compliance with UMMS travel policy, anyone traveling under the University of Massachusetts Medical School auspices must complete this a travel registration form. The information provided is needed for UMass-sponsored AIG international travel insurance, which covers everyone traveling in connection to their work or study at UMMS, and to help us provide assistance should emergencies arise during travel. Upon completion of this form, you will be prompted to download and print the AIG International Travel Insurance Packet.

The University of Massachusetts Medical School abides by the Travel Alerts and Warnings provided by the U.S. State Department. All travelers to countries on the State Department Travel Alert or Warning list must fill out the special travel registration and waiver form instead of the regular travel registration form.

[Travel Registration Form](#) All international travelers register here.

[Special Travel Registration and Waiver Form](#) All travelers to countries listed below register and complete waiver form here.

Travel Warning Countries	Issue Date	Travel Alert Countries	Issue Date
Kenya	04/04/2012	Egypt	03/29/2012
Mali	04/03/2012	Bahrain	01/23/2012
Chad	03/29/2012	Tunisia	01/13/2012
Yemen	03/27/2012	South Pacific Cyclone Season	12/12/2011
Israel, the West Bank and Gaza	03/19/2012	Japan	10/07/2011

OGH TRAVEL REGISTRATION POLICY

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55 Lake Avenue North,
Access Building, AC7-019
Worcester, MA 01655
Tel: 508-856-2840

International Travel: OGH Policy for International Travel

Download Policy for
International Travel

Download the OGH Policy and Requirements for International Travel.

OGH Special Travel Policy

For travelers to countries under U.S. State Department Travel Warnings or Alerts.

Travel Registration Form

Fill out an International Travel Registration or Special Travel Registration & Waiver Form.



POLICY AND REQUIREMENTS FOR INTERNATIONAL TRAVEL

1. Review travel preparation and safety tips 60-90 days before travel and ticket purchase


- a. Review the UMMS OGH International Travel Policy and safety tips, available at <http://umassmed.edu/globalhealth/travelpreparation>.
- b. Review the US Department of State country-specific information and any Travel Warnings or Alerts that pertain to the travel destination, available at <http://travel.state.gov/>.
- c. Review the Centers for Disease Control and Prevention country-specific travelers' health information and any Travel Notices that pertain to the travel destination, available at <http://wwwnc.cdc.gov/travel/default.aspx>.
- d. Consult with Program Directors and in-country hosts to coordinate specific activities, travel logistics, lodging, transportation, in-country emergency plans, etc.

2. Travel to countries with US State Department of CDC Travel Warning, Alert or Notice

ONLINE TRAVEL REGISTRATION



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Room AC7-019
362 Plantation Street
Worcester, MA 01605
Ph. 508.856.2840
Fx. 508.856.1140

INTERNATIONAL TRAVEL: REGISTRATION

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*Indicates a required field.

PERSONAL INFORMATION:

Name*

Email*

Phone number*

Status*

Department/program name

Citizenship*

Non-US citizens may require further consultation with OGH depending on the nature and duration of travel.

PROGRAM INFO:

Name of program abroad

Program director/leader

Email

Phone number

Why Register?

UMass Travel Insurance

Emergency Assistance



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LIBERA GROUP

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[Medical School 3rd Year Curriculum](#)

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Welcome to the Office of Global Health's Liberia Intranet Page



OFFICE OF
GLOBAL HEALTH
AT UMASS MEDICAL SCHOOL

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55 Lake Avenue North

Worcester, MA 01655

Ph. 508.856.2840

Fx. 508.856.1140

To navigate this website, use the blue menu on the left. If you have questions or content to add, please contact Kiger Lau at kiger.lau@umassmed.edu.

UMMS OFFICE OF GLOBAL HEALTH

• Peer reviewed grant awards:

• Pilot grants

- Project development
- Fund clinical or laboratory infrastructure
- Support specific translational research projects (T1 to T3)

• Travel awards

- Support training of care providers and global health researchers through participation in international clinical activities and research



2009 OGH GRANT RECIPIENTS

Pilot Project Grants

- Hardy Kornfeld, MD: Impact of Diabetes on TB Disease
- Douglas Ziedonis, MD: Addressing Tobacco through Organizational Change (ATTOC) in China



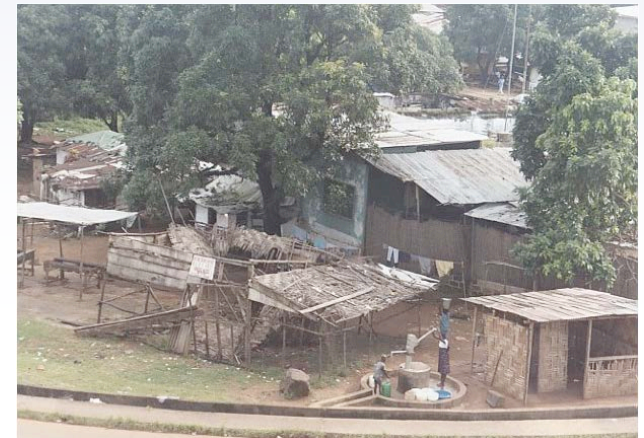
Travel Grants

- Tara Babu, MS-4: Cytokine Response in Malaria Infections
- Carol Bova, PhD, RN, ANP: Exploring the Healthcare Needs of Rural Women in Armenia
- Stuart Levitz, MD: ID Visiting Professorship (Dr. Thomas Harrison)
- Yungsheng Ma, MD, PhD: UMMS and Tongji Medical Schools: Preventive Medicine Research Collaboration



2010 OGH PILOT PROJECT GRANTS

- **Ann Moormann, PhD, MPH (Pediatrics)**
 - **Qualitative Measurements of Measles Virus Immunity from a Prospective Pediatric Cohort Study in Kenya**
- **Meredith Walsh, MPH, RN (GSN)**
 - **Addressing Barriers to the Adoption of IUDs Among Women Seeking Post-Abortion Care on the Thai/Burma Border**



2010 OGH TRAVEL GRANTS

FALL, 2010

- Roger Davis, PhD, PMM: First South American Spring Symposium on Signal Transduction and Molecular Medicine
- Patricia McQuilken, MD, Pediatrics: Assessing the Impact of a Pediatric Training Program in Liberia
- Thomas Peteet, MS-1: Impact of International Volunteer Service on Community Health in Uganda's Mukono District



SPRING, 2010

- Alan Picarillo, MD, FAAP: Strengthening Neonatal Resuscitation Capacity in Liberia
- Robin Toft Klar, DNSc, RN and Rosemary Theroux, PhD, WH Women's Self-Care Practices in Ghana
- Max Fraden, MS-1: The Nuru Light: A Solution to Africa's Lighting Crisis
- Alison Lima, MS-1: Cape Verde Research and Language Immersion Project



CURRENT GLOBAL HEALTH RFAs

Gates Foundation Grand Challenges Exploration

- An initiative to encourage innovative and unconventional global health and development solutions
- Proposals are being accepted on the following topics:
 - New Approaches for the Interrogation of Anti-malarial Compounds
 - **Aid is Working. Tell the World**
 - Design New Approaches to Optimize Immunization Systems
 - Explore New Solutions in Global Health Priority Areas
 - Protect Crop Plants from Biotic Stresses From Field to Market
- Initial grants are US \$100,000 each, and projects showing promise will have the opportunity to receive additional funding of up to US \$1 million.
- Application due date: May 15, 2012



CURRENT GLOBAL HEALTH RFAs

Gates Foundation HIV Diagnostic

- Identification of novel biomarkers that can be used effectively to measure HIV incidence at the population level.
- Individual grants will not exceed US \$1 million.
- Application due date: May 18, 2012



CURRENT GLOBAL HEALTH RFAs

NIH US-China Program for Biomedical Collaboration

- The purpose of the U.S.-China Program for Biomedical Collaborative Research is to stimulate collaborative basic, translational, and applied research between United States (U.S.)-based researchers and Chinese researchers in the areas of allergy, immunology, and infectious diseases including HIV/AIDS and its co-morbidities and co-infections, cancer, mental health, Parkinson's disease (PD), and stroke.

- Application due date: August 18, 2012



CURRENT GLOBAL HEALTH RFAs

Fogarty International Research Training Award: Chronic, Non-Communicable Diseases and Disorders Across the Lifespan (NCD-LIFESPAN) (D43)

- Funding for collaborative research training between institutions in the US and low-and middle-income countries (LMIC), with the ultimate goal of implementing evidence-based interventions relevant to their countries.
- Application due date: Sep 21, 2012.



STUDENT FUNDING OPPORTUNITIES

Various Student/Trainee Global Health Funding and Internship Opportunities

- A list of ongoing international travel scholarships, as well as fellowship and training programs focused on global health. [Click to download. For information on Global Health internship opportunities please see the Internship Opportunities list. Click to download.](#)

