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Pre-proposal for five-year perspective

Global Health Research, Education and Translation (GHREAT) Center

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Transitioning from Program Research Center to Campus-wide Organized Research Unit

In 2009, the Program in Public Health received a grant from the National Institutes of Health's John E. Fogarty International Center for Advanced Studies in the Health Sciences to develop a Framework Program in Global Health (FRAME grant; R25TW008125). We are one of ~ 35 institutions in the country to have this award, aimed at developing academic programs in global health supported by a sustainable administrative structure. More than 30 faculty members support this initiative. Professor Guiyun Yan and Professor Oladele Ogunseitan served as director and co-director of the global health FRAME grant. In 2010, we received a Graduate Growth Incentive Awards (GglA) from the UCI Graduate Division to develop Global Health emphases in our graduate programs, including the new Ph.D. in Public Health with concentrations in global health and in disease prevention. Professor Ogunseitan served as the Principal Investigator of the award, which in concert with the NIH FRAME-Global Health award has facilitated the development of a strong academic curriculum, graduate student engagement, and research community in global health at UC Irvine.

Faculty members in the UC Irvine global health framework program have been very productive in winning research grants, including \$20 million from the Bill and Melinda Gates Foundation, to develop new methods for controlling the transmission of vector-borne diseases. The NIH awarded \$40 million on biodefense and emerging infectious disease, and \$20 million to support various topics, including malaria, natural disasters, and transboundary movement of health hazards. UC Irvine is home to the Global Infectious Disease Research Training Program funded by the NIH Fogarty International Center for Advanced Study in the Health Sciences.

The UC Irvine Framework Program in Global Health, had thirty-two supporting faculty members drawn from:

- The Program in Public Health
- Program in Nursing Science
- Department of Pharmaceutical Sciences
- The Institute for Clinical and Translational Sciences
- The School of Medicine
 - Department of Emergency Medicine
 - Department of Pediatrics



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Division of Infectious Diseases – Department of Medicine
Chao Family Comprehensive Cancer Center
The School of Biological Sciences
 Department of Microbiology and Molecular Genetics
 Department of Ecology and Evolutionary Biology
The School of Engineering
 Department of Civil and Environmental Engineering
Urban Water Research Center
The School of Social Sciences
 Department of Anthropology
 Department of Political Science
 Department of Sociology
Center for Global Peace and Conflict Studies
The School of Social Ecology
 Department of Planning, Policy, and Design
 Department of Psychology and Social Behavior

The global health framework award enabled us to develop new curricula in global health for undergraduate and graduate students; we have established a strong research-training program in global health for graduate students and junior faculty. We have also created an administrative structure to coordinate global health education, research and outreach activities at UC Irvine. We have funded 30 graduate students and faculty to conduct research all over the world, including Argentina, Mexico, Kenya, Sweden, India, Ghana, Uganda, Thailand, Philippines, China, and Indonesia¹. We host an annual spring colloquium featuring a keynote speaker and the work of fellows supported by the framework program. The 2012 colloquium occurred on May 4 at the Cal-IT2 auditorium, and the keynote speaker was Dr. Segundo Leon from the University of Cayateno, Peru.

At the conclusion of the NIH FRAME grant, we established a Program initiative, entitled Global Health Research, Education and Translation (GHREAT)² with Dr. Brandon Brown as the Director. He joined UC Irvine's Program in Public Health after earning a Ph.D. in International Health at Johns Hopkins University followed by postdoctoral research at UCLA's Institute for Global Health. The Global Health Research Education and Translation (GHREAT) program is committed to promoting global health awareness and developing a comprehensive global health

¹ Program in Public Health at UC Irvine - Global Health Framework. http://publichealth.uci.edu/gh_docs/index

² <http://ghreat.uci.edu/globalhealth>



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research, education and training program. Since the establishment, demand from undergraduates, graduate students, and faculty members to conduct global health research at UCI and in developing countries has grown rapidly. Affiliated faculty and students have received support from major organizations, including the National Institutes of Health, UC Global Health Institute, Bill and Melinda Gates Foundation, Merck pharmaceuticals, USAID, and the Global Infectious Disease Research Training Program. Recent work includes creation of a compendium of videos as a tool to illustrate the effect of our research activities on the human beings afflicted with disease and infirmity in developing countries including Peru, Thailand, China, and Myanmar.

GHREAT activities include the global health journal club, the global health seminar series on OpenCourseware, the global health certificate program, the global health peer mentor program, and the integration of UC Irvine into the UC Global Health Institute, all which are listed on the GHREAT website (<http://ghreat.uci.edu/globalhealth>). Our quarterly GHREAT newsletter highlights faculty and student-led global health projects and includes articles in which students analyze global health issues of interest. Participation in UC Global Health Day has allowed the GHREAT team to share the achievements of the GHREAT Program with other members of the UC community and to establish connections for future collaborative efforts.

We believe that GHREAT is ready to transition to a formal campus-wide organized research unit (ORU) to facilitate broader research collaborations; disseminate research results through research conferences, meetings and other activities; strengthen graduate and undergraduate education by providing students with training opportunities and access to facilities; and to seek extramural research funds; and carry out university and public service programs related to the global health. Moreover, we intend for GHREAT to become the main portal for UC Irvine to interact with the UC Systemwide Global Health Institute³.

³ <http://www.ucghi.universityofcalifornia.edu/>