

Globalization of Academic Research In Health:

The Johns Hopkins Model

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Global Health

“Global Health is a field of study, research and practice that strives to achieve equity in health for all people. Global Health involves multiple disciplines within and beyond the health sciences, is a synthesis of population-based prevention with individual level of clinical care, promotes inter-disciplinary collaboration and emphasizes transnational health issues and determinants.”

University Consortium for Global Health, Sept 2008

The Global Community is Faced with Numerous Health Challenges

Infectious Diseases

Heart Disease

Obesity

Mental Health

Accidents/Injuries

Cancer

Diabetes

Aging

Child Health

Many Others

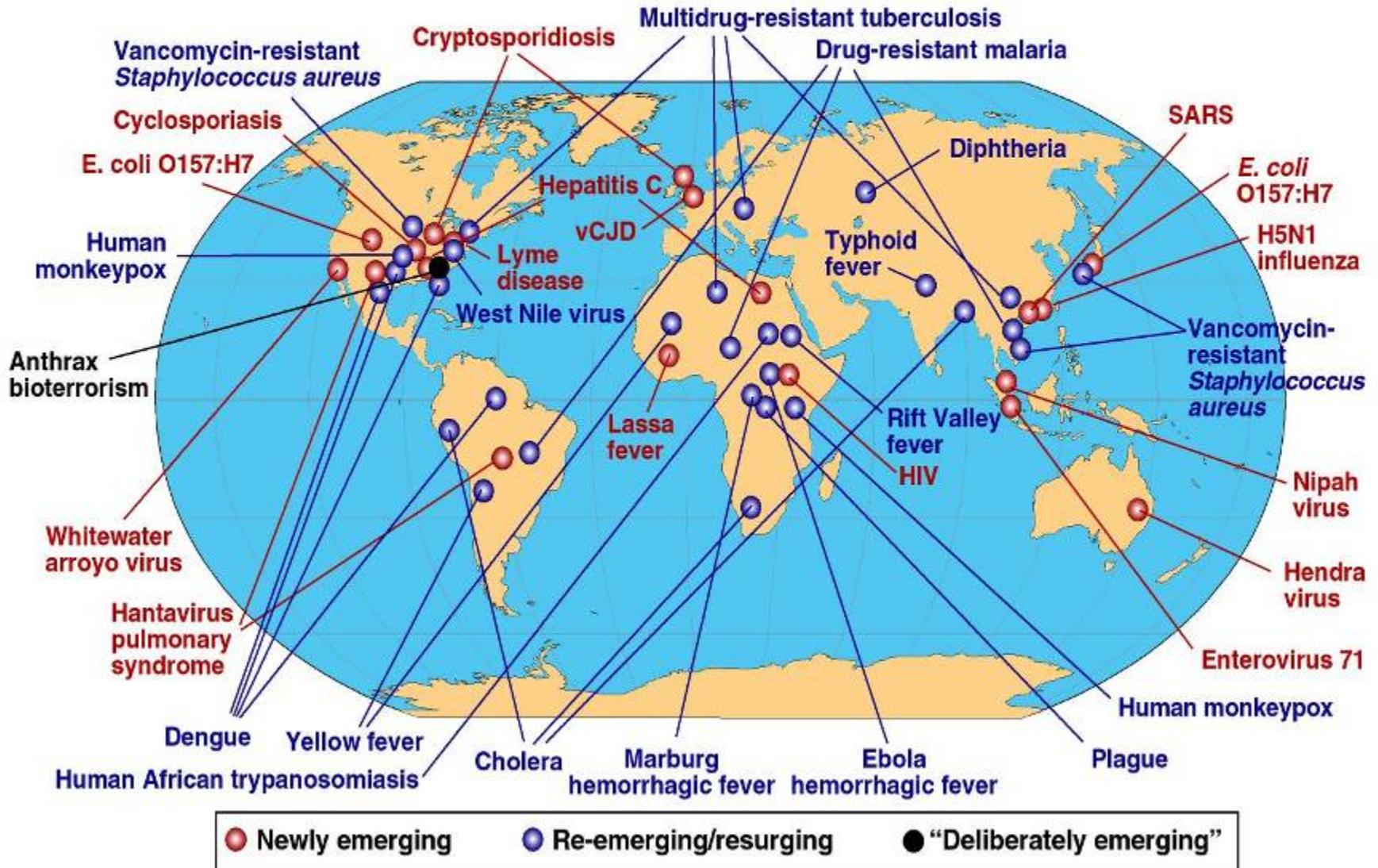
Total annual deaths

Total annual DALYs

>57 million

>1.4 billion

Global Examples of Emerging and Re-Emerging Infectious Diseases



Threat to Global Health The Tobacco Industry



Worldwide 4.9 million deaths per year due to tobacco - related diseases

Worldwide Obesity

- 1 billion adults are overweight
- 300 million adults are obese (BMI > 30)
- 22 million children are overweight
- Increases the risk for coronary heart disease, type 2 diabetes, and certain cancers
- Total economic cost of obesity is \$117 billion per year (incl \$50 billion in avoidable medical costs)
- 5 percent of total annual health care expenditures

The Economist
DECEMBER 13TH-19TH 2003 www.economist.com

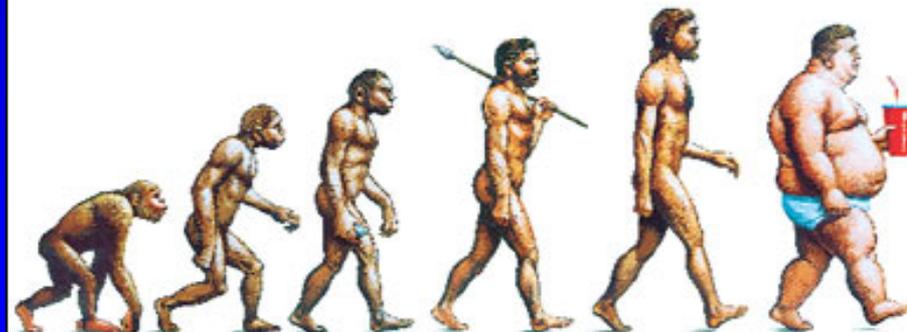
Gore anoints Dean
PAGES 12 AND 33

America's Taiwan test
PAGES 12 AND 29

The future of flight
PAGES 79-81

A SURVEY OF FOOD
AFTER PAGE 52

The shape of things to come



Argentina	US\$2	Canada	C\$4.95	Germany	€3.10	Spain	€4.50
Australia	A\$3.40	China	¥12.00	India	₹1.00	UK	£3.00
Brazil	R\$10.00	France	€3.50	Italy	€3.00	USA	US\$4.95
India	₹1.00	Japan	¥10.00	Mexico	₹10.00	South Africa	R11.00

THE LANCET

Volume 371 - Number 9613 - Pages 623-696 - February 23-29, 2008

www.thelancet.com

"Africa carries 25% of the world's disease burden yet has only 3% of the world's health workers and 1% of the world's economic resources to meet that challenge."

See *Essay Focus* page 691



Global Health Initiatives

- There is unprecedented interest in global health among faculty and students in North American Universities and a proliferation of academic centers of global health
- “Flexner 21” report for the 21st century has been initiated, examining the human resource needs for health and how they relate to global health, medicine, nursing, public health, and health systems

Collaboration within and between Universities

Collaboration between University faculty and students is all about people, their passion and their long-term commitment to make a difference. It is an exchange of ideas and cultures to enrich one another

Principles of for North-South Collaborations

- The goals must be defined and specific;
- Defining and agreeing on goals and metrics of success at the beginning;
- The relationship must be based on ethical and trusting principles.
- Respect and understanding of differences in culture and perspective;
- Research and training should be based on shared interests and problems;
- The collaboration must be advantageous to both parties;

Principles of for North-South Collaborations

- It must be long-term partnership (10-20 years or more);
- The approach to training, research, and patient care should be comprehensive;
- The collaboration must build local capacity and strengthen institutions;
- Health services strengthening and workforce training;
- Transparency generally, and with budget issues specifically;
- The need to involve southern partners to be involved throughout the design, implementation, management, and reporting of projects;
- Equity in exchange of students and faculty;

Top 20 Universities: International Efforts



Harvard, Yale, MIT, Stanford, University of Pennsylvania, Columbia, Duke, Dartmouth, Northwestern, Washington University in Saint Louis, Johns Hopkins, Brown, Rice, Vanderbilt, University of California - Berkeley



Building A Global Health Center At Johns Hopkins University



The Center for Global Health

Mission:

To facilitate and focus the extensive expertise and resources of the Johns Hopkins Institutions together with global collaborators to effectively address and ameliorate the world's most pressing health issues.

IT HAPPENED AT HOPKINS

Breakthroughs In Global Health

Hopkins researchers were hard at work combating global health issues long before the term 'global health' was coined... Some of the greatest breakthroughs HAPPENED AT HOPKINS. Learn more about Hopkins' most recent discoveries throughout this guide.



1937-1962

Advised 50 foreign governments, WHO, and PAHO on water supply, sanitation, and sewage disposal
Abel Wolman



1922

Discovery of vitamin D, leading to virtual elimination of rickets
EV McCollum



1938

Linked smoking to decreased lifespan
Raymond Pearl



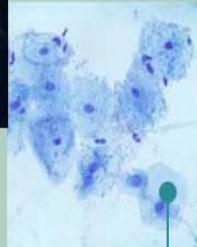
1940s and 50s

Identified three types of poliovirus, noting that an effective vaccine would have to defend against all three; immunized chimpanzees with inactivated vaccines. Laid groundwork for subsequent development of the Salk and Sabin polio vaccines.
David Bodian, Howard Howe, Isabelle Mountain Morgan



1950s

Initiated international faculty exchanges with Asia around human population growth, bringing first public attention to this issue; developed family planning program/research center in West Pakistan; formed first national division of Population Dynamics at Hopkins
Paul Harper, David Bodian, Howard Howe, Isabelle Mountain Morgan



1961

Founding of JHSPH Department of International Health, the first of its kind

1956-1962

Illustrated disease could be spread through drop nuclei
Richard Riley



1968

Founding of JHSPH Department of International Health, the first of its kind

1967

Founding of JHSPH Department of International Health, the first of its kind



1971

Discovery of enterotoxigenic E. Coli – the most common bacterial cause of diarrhea in children in developing countries
R. Bradley Sack



1970s

Success in population reduction by training women to educate others on birth control methods in developing countries
Henry Mosley



1982

Provided children with a 4-cent dose of vitamin A to save lives
Alfred Sommer



1973

Illustrated a diet rich in protein leads to healthier newborns
Bacon F. Chow

Center's Goals

- **Provide faculty members with funding**
- **Support field opportunities for students**
- **Provide full scholarships**
- **Develop and integrate global health concepts into the curriculum**
- **Provide financial and resource support to global-health related organizations**

Center For Global Health Affiliated Organizations

Bloomberg School of Public Health

Bill & Melinda Gates Institute for Population & Reproductive Health
Center for Clinical Trials
Center for Communication Programs
Center for Emerging Infectious Diseases
Center for Epidemiology and Policy
Center for Health & Human Rights
Center for Human Nutrition
Center for Immunization Research
Center for Refugee & Disaster Response
Center for Water & Health
Fogarty AIDS International Training & Research Program
Hopkins Population Center
Institute for Global Tobacco Control
Institute for International Programs
Institute for Vaccine Safety
International Center for Advancing Neonatal Health
Malaria Research Institute
Office for Critical Event Preparedness & Response
PneumoADIP
Welch Center for Prevention, Epidemiology & Clinical Research

School of Medicine

Center for AIDS Research
Center for Clinical Global Health Education
Center for STD Research, Prevention, & Training
Center for Tuberculosis Research
Center for Viral Hepatitis
Comprehensive Transplant Center
Dana Center for Preventative Ophthalmology
Department of Hospital Epidemiology and Infection Control
Division of Infectious Diseases
Johns Hopkins Medicine International
McKusick-Nathans Institute of Genetic Medicine
Point of Care Information Technology (POC-IT) Center

School of Nursing

Center for Collaborative Intervention Research
Center on Health Disparities Research
Center for Nursing Research
Global Health Promotion Research Program
Institute for Johns Hopkins Nursing
Office of Global Nursing

Other Entities

Berman Institute of Bioethics
JHPIEGO
Paul H. Nitze School of Advanced International Studies (SAIS)

www.hopkinsglobalhealth.org

The Center for Global Health website includes a variety of tools for visitors:

- Global Health Projects Map/Search
- Global Health news from Hopkins/world
- Events
- Funding Opportunities
- Announcements
- Free email newsletter

The screenshot shows the homepage of the Johns Hopkins Center for Global Health. At the top, the logo features a stylized globe with the text "JOHNS HOPKINS CENTER FOR GLOBAL HEALTH" and the tagline "Transcending Borders for World Health". Below the logo is a navigation bar with links to "JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH", "JOHNS HOPKINS SCHOOL OF MEDICINE", and "JOHNS HOPKINS SCHOOL OF NURSING".

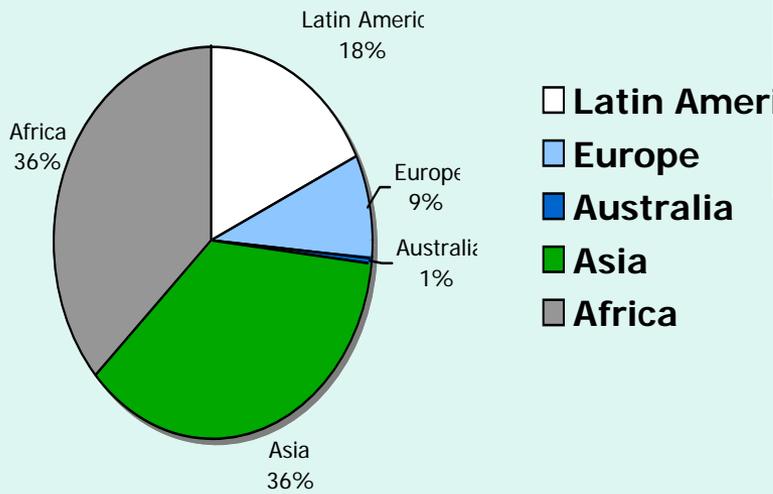
The main content area is divided into several sections:

- Home**: A vertical menu with buttons for "Home", "About the Center", "Our Work", "Education/Events", "Resources", and "Make a Gift".
- Sign up for our FREE e-newsletter**: A green button with the text "Join our Global Health Yahoo! Group".
- Search**: A search bar with a "go" button and links for "Advanced Search" and "Help".
- Global Health at Hopkins**: A section with a blue header and a list of news items, each with a small image and a date. The items include: "10/2/05 - Center for Global Health publishes booklet highlighting programs", "9/24/05 - A call to action is issued regarding ethics in global health training programs", "9/22/05 - Media overlook food system/climate change connection", "8/22/05 - Malaria researchers identify new mosquito virus", and "7/23/05 - Bloomberg and Gates pledge \$500 million for tobacco control".
- Global Projects Map/Search**: A section with a blue header and a world map showing project locations. Below the map is a search bar and a "go" button.
- Funding Opportunities**: A section with a blue header and a list of funding opportunities, including "Hopkins Faculty Grants in Global Health - Deadline Oct. 20" and "Hopkins Framework Program in Global Health - Deadline Nov. 17".

At the bottom of the page, there is a footer with the text "Last Updated 9/15/2005".

Hopkins' World Presence

370 faculty members
40 centers & institutes
494 projects
115 countries



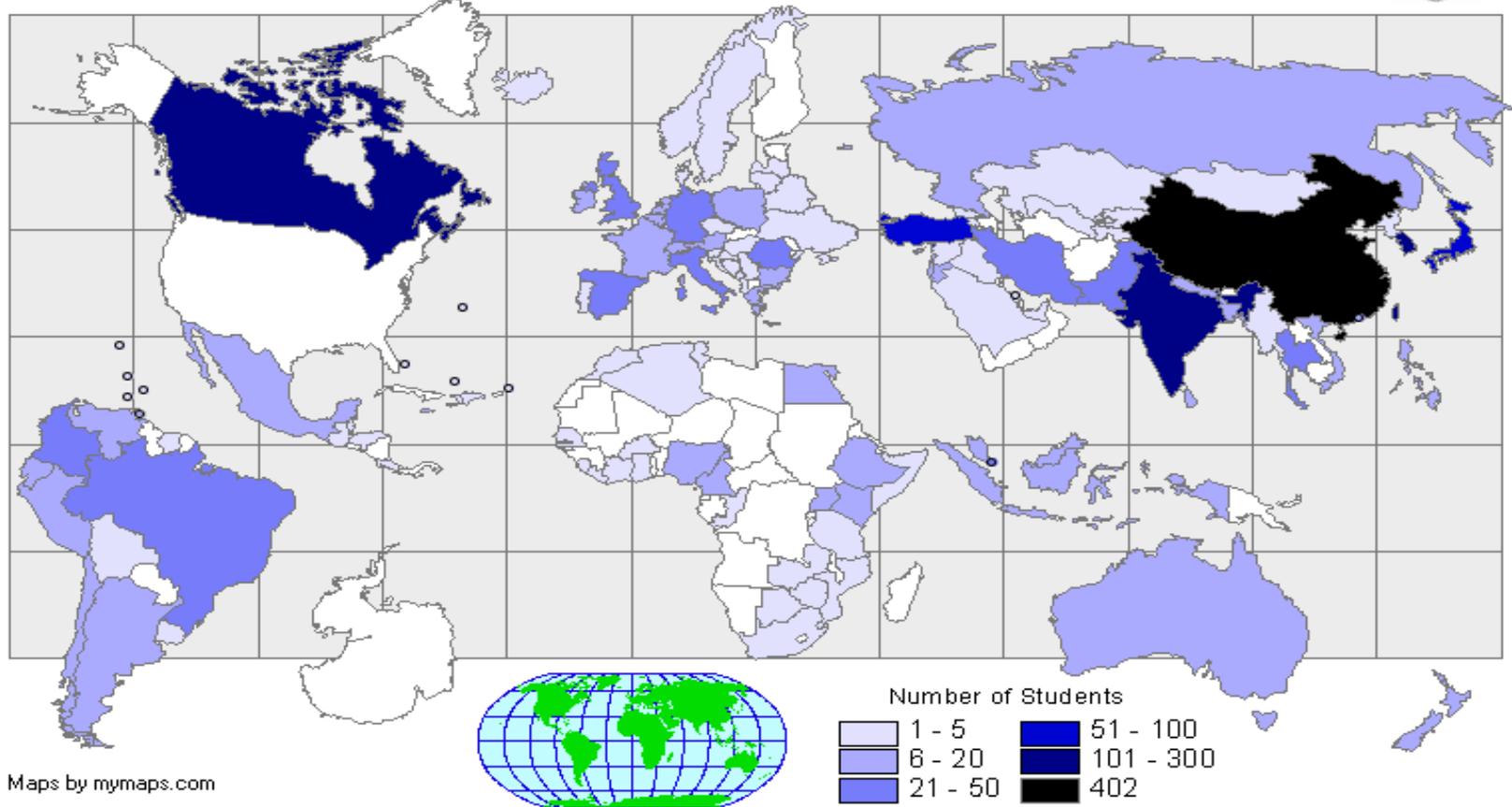


13 Formal Exchange Programs

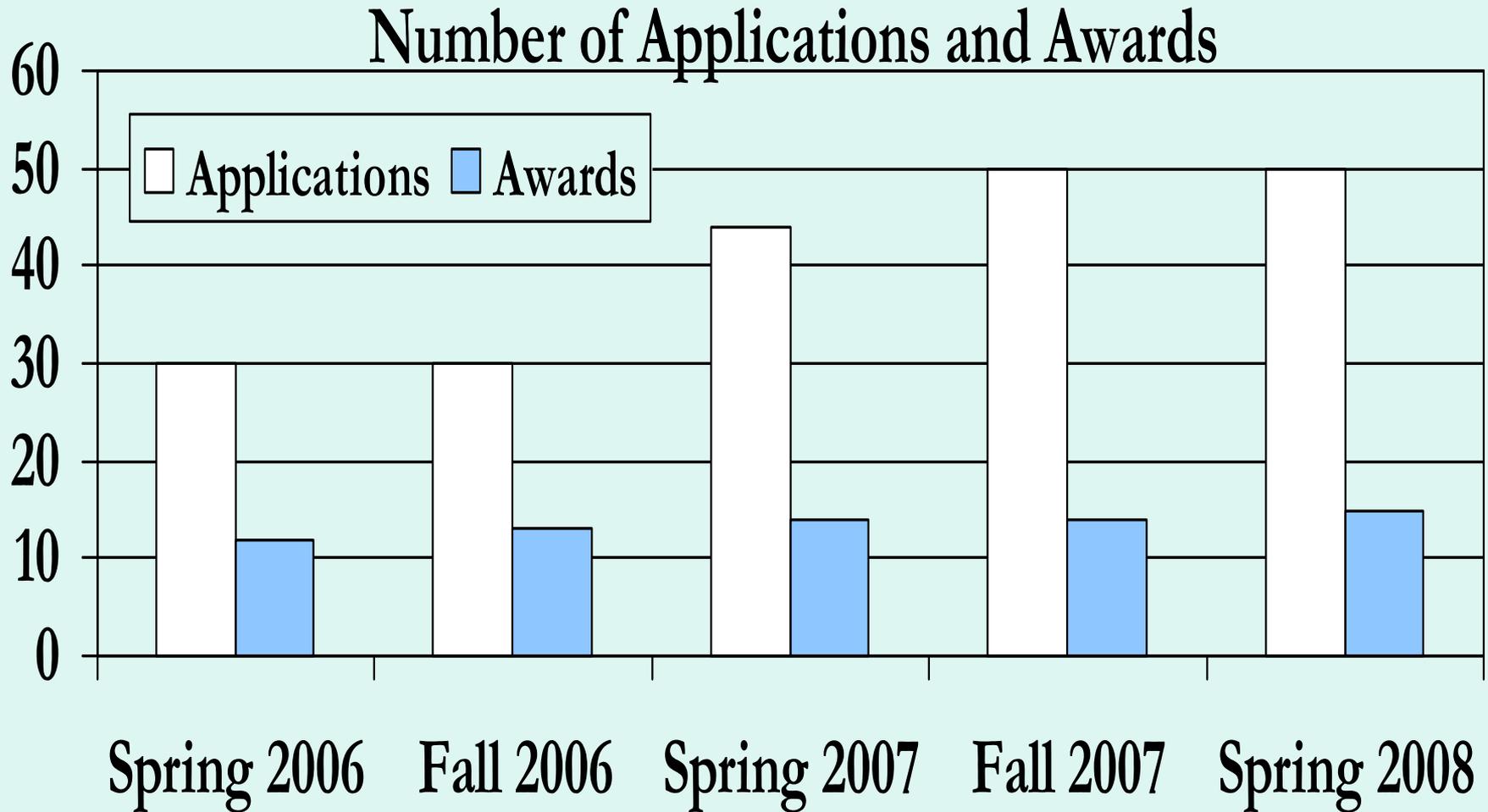
Hopkins' International Students

JOHNS HOPKINS International University Students

The 123 shaded nations represent 2,412 international undergraduate and graduate students enrolled in all Johns Hopkins divisions in Fall 2006.



Global Health Travel Grants



Hopkins' Offshore Campuses

SAIS Bologna Center

www.jhubc.it

Now in its sixth decade of operation, the SAIS Bologna Center was founded as the European face of SAIS Washington, D.C. and since then has become one of the top American graduate schools for international affairs in Europe.

The screenshot shows the SAIS Bologna Center website. On the left is a vertical navigation menu with links such as 'ABOUT', 'ACADEMICS', 'ADMISSIONS', 'DEGREE PROGRAMS', 'OUR FACULTY', 'POLICY AND RESEARCH', 'EVENTS', 'ALUMNI', 'SUPPORT THE BOLOGNA CENTER', 'LIBRARY', 'CAREER SERVICES', 'STUDENT SERVICES', 'SAIS WASHINGTON, D.C.', 'JHU', 'CONTACT US', 'ONLINE SERVICES', 'ONLINE FORUM', 'STUDENT EMAIL', and 'FACULTY AND STAFF EMAIL'. The main content area has a header with the SAIS logo and the text 'The Paul H. Nitze School of Advanced International Studies BOLOGNA CENTER JOHNS HOPKINS UNIVERSITY'. Below this is a navigation bar with 'PROSPECTIVE STUDENTS', 'CURRENT STUDENTS', and 'MEDIA AND COMMUNITY'. The main text describes the Bologna Center as a unique interdisciplinary graduate program. A right sidebar features a photo of a student, a quote, and a section for 'UPCOMING EVENTS' listing several seminars.

SAIS
The Paul H. Nitze
School of Advanced
International Studies
**BOLOGNA
CENTER**
JOHNS HOPKINS
UNIVERSITY

ABOUT
ACADEMICS
ADMISSIONS
DEGREE PROGRAMS
OUR FACULTY
POLICY AND RESEARCH
EVENTS
ALUMNI
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ONLINE SERVICES
ONLINE FORUM
STUDENT EMAIL
FACULTY AND STAFF EMAIL

A YEAR IN BOLOGNA, A LIFE IN THE WORLD

PROSPECTIVE STUDENTS CURRENT STUDENTS MEDIA AND COMMUNITY

The Bologna Center of The Johns Hopkins University Paul H. Nitze School of Advanced International Studies (SAIS) is the leading American graduate school for international affairs in Europe.

Located in Bologna, Italy, the SAIS Bologna Center offers a unique interdisciplinary graduate program of study that emphasizes international economics, political science and history, geographic area studies, and languages. The SAIS Bologna experience opens doors to students for careers in the public, private, and non-profit sectors. The Center:

- Offers an unsurpassed student experience: an American program situated in Europe with about 185 students from more than 35 countries;
- Fosters a lively learning environment with small classes taught by a core resident faculty, complemented by world-renowned adjunct and visiting professors;
- Provides an evolving multidisciplinary academic program applicable to topical issues, while retaining fundamental emphasis on international economics, political science and history; and
- Serves as the European face of the Johns Hopkins University Paul H. Nitze School of Advanced International Studies (SAIS), one of the most distinguished U.S. graduate schools preparing future

"After two years as financial director of a telecommunications company, I decided that the time had come for me ... read more
[view all student profiles](#)

UPCOMING EVENTS

Monday, October 13
[The Next Great Depression? Understanding the Global Financial Crisis](#)

Wednesday, October 15
[Benvenuti a Bologna](#)

Thursday, October 16
[The Growth of FDI Relative to Trade: Measurement, Determinants, and Consequences of Outsourcing of Intermediates](#)

Wednesday, October 22
[Europe, the United States, and the Next American President](#)

[Full Events Calendar](#)

Hopkins' Offshore Campuses

Hopkins Nanjing Center

nanjing.jhu.edu

Established in 1986, The Johns Hopkins University-Nanjing University Center for Chinese and American Studies was created to promote a mutual understanding to improved relations between China and the West, by bringing people together for an extended period of intense exposure to each other's history, culture, contemporary thought and society.



Transcending Borders for World Health

A screenshot of the Hopkins Nanjing Center website. The header includes the Hopkins Nanjing Center logo (with Chinese characters "中美中心"), the SAIS logo (The Paul H. Nitze School of Advanced International Studies, Nanjing, China), and the Johns Hopkins University logo. Navigation tabs include Home, Admissions, Academics, Prospective Students, Current Students, and Alumni. A search bar is present. The main content area features a video player with the title "Interact With World-Class Faculty" and a "Read more" link. Below the video are three columns of text: "Welcome to the Hopkins-Nanjing Center", "Our Students Learn About China From First-Hand Experience", and a testimonial from Jill Wright. The right sidebar contains "TOOLS & RESOURCES", "ACADEMIC CALENDAR" (listing dates from Fall 2008 to Spring 2009), and "No residence required in the Center during winter vacation".

Johns Hopkins School of Nursing/ Peking Union Medical College

The screenshot shows the website for the Johns Hopkins School of Nursing. At the top, there is a navigation bar with the university logo, the school name, a search bar, and menu items like 'About Us', 'Academics', and 'Research'. The main content area features a news article titled 'FIRST DOCTORAL STUDENTS GRADUATE FROM JOINT HOPKINS/PUMC NURSING PROGRAM'. The article includes a photograph of five graduates and text describing the joint program between Johns Hopkins University and Peking Union Medical College. A sidebar on the left contains links to 'News and Publications', 'News Releases', and 'Publications'. A sidebar on the right lists various categories like 'Local to Global Nursing' and 'News & Publications'.

JOHNS HOPKINS UNIVERSITY | **School of Nursing**

Enter Keyword Topics People Advanced

About Us Apply Academics Research Alumni Information For...

Home Page > Newsevents > News : Current Page

News & Announcements
[News Release Index](#) | [Contact Communications Office](#)

FIRST DOCTORAL STUDENTS GRADUATE FROM JOINT HOPKINS/PUMC NURSING PROGRAM
Posted: 7/10/2008

Through a joint program between the Johns Hopkins University School of Nursing (JHUSON) and the Peking Union Medical College (PUMC) School of Nursing, five doctoral students are the first Chinese nurses to receive a nursing PhD from a Chinese university.



The first graduates Gao Feng Li, He Zhong, Liang Tao, Liang Xiaokun and Li Yang received their degrees in Beijing on July 9, 2008. The five new PhD nurses are either current faculty members or hospital nurse executives at PUMC. All will eventually become faculty in the PhD Program at PUMC.

The joint JHUSON-PUMC program, funded by the China Medical Board of New York, Inc., was established in 2004 with the goal of bringing China and its health care system an internationally recognized, doctoral-level model for Chinese nursing education. "This is an historic moment in the healthcare of China and reflects on the breathtaking timeline from the planning to outcomes of this program," says Marie T. Nolan, PhD, MPH, RN, associate professor and director of the JHUSON-PUMC Doctoral Program Partnership.

Dr. Nolan and Dr. Martha N. Hill, PhD, RN, FAAN, Dean of the JHUSON,

- > Local to Global Nursing
- > News & Publications
- > Resources
- > Giving
- > Institute for Johns Hopkins Nursing
- > RWJF Nurse Faculty Scholars
- > Faculty
- > Blogs

Hopkins' Offshore Campuses

Johns Hopkins in Singapore

www.imc.jhmi.edu

Mission: In the tradition of Johns Hopkins' excellence in Research, Education and Patient Care, we, as a team of dedicated professionals, are committed to providing the highest quality of healthcare in Asia and meeting the unique needs of our patients and their families.

JOHNS HOPKINS in SINGAPORE

features:

- IMC Executive Health Program
- Hopkins News for You
- Read our latest Hopkins' Voice - March 2008
- Corporate Information
- Contact Us

patient care

Johns Hopkins Singapore International Medical Centre

Johns Hopkins clinical services for patients from Singapore and abroad

education

Johns Hopkins Singapore International Medical Centre

Johns Hopkins clinical services for patients from Singapore and abroad

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