



**HARVARD – BRAZIL
COLLABORATIVE PUBLIC HEALTH
FIELD COURSE**



January 3rd to 20th, 2011

Salvador & Vale do Jiquiriçá, Bahia, Brazil

Host Institutions



Harvard School of Public Health (HSPH)



Centro de Pesquisa Gonçalo Moniz, Fundação Oswaldo Cruz (Fiocruz)



DRCLAS
HARVARD UNIVERSITY

David Rockefeller Center for Latin American Studies (DRCLAS)

Collaborating Institutions



Faculdade de Medicina da Universidade de São Paulo (FMUSP)



Faculdade de Ciências Médicas Santa Casa de Misericórdia de São Paulo (FCMSCSP)



Universidade Federal da Bahia (UFBA)



Municipalities of Jiquiriçá & Ubaíra, Bahia



Hospital Couto Maia, Secretaria Estadual da Saúde, Bahia



Centro de Controle de Zoonoses & Unidade Municipal de Saúde de São Marcos

Supporting Institutions



CNPq (Brazil's National Council for Technological and Scientific Development)



Harvard University



Fundação de Amparo à Pesquisa do Estado da Bahia



Harvard Initiative for Global Health (HIGH)

COURSE OVERVIEW & OBJECTIVES

Sejam bem-vindos! This collaborative course is offered by the [Harvard School of Public Health](#) (HSPH), the [Fiocruz's Centro de Pesquisa Gonçalo Moniz](#), and the Brazil Studies Program at Harvard University's [David Rockefeller Center for Latin American Studies](#) (DRCLAS). A Scientific Organizing Committee is responsible for the planning, review, and assessment of the course and is comprised of nine faculty members from the Harvard School of Public Health, Fiocruz's Centro de Pesquisa Gonçalo Moniz, Faculdade de Ciências Médicas da Santa Casa de São Paulo, Faculdade de Medicina da Universidade de São Paulo, and Universidade Federal da Bahia. The 2011 course builds on the experience of the inaugural course in January 2008 and benefits from the continued collaboration of the [Santa Casa de Misericórdia de São Paulo Medical School \(Santa Casa\)](#), which was the first organization to lead the course in Brazil. It also draws strongly from the second session of the course in Salvador in January 2009, when the Fiocruz's Centro de Pesquisa Gonçalo Moniz in Salvador joined the project. In 2010 the course was also conducted in Salvador, and incorporated new faculty from Instituto de Saúde Coletiva, a local research institute affiliated with the Universidade Federal da Bahia.

Bringing together exceptional individuals is core to the success of this course – a fact that is reflected in the primary focus on people in the pages of this packet. A rich set of required and optional readings selected by the course's faculty as well as all course lectures are available for download on the course website. Through this initiative, we seek to strengthen existing collaborations and to foster new ones that create opportunities for joint learning and research during and after the course.

The overall objectives for this course are to enhance participants' abilities to:

- ❖ Critically analyze environmental and socioeconomic factors in Brazil that are associated with a high prevalence and geographic distribution of the infectious diseases discussed in this course.
- ❖ Identify population characteristics, such as nutrition status, immunity, co-morbidities, degree of exposure associated with disease epidemiology and the impact of these factors on disease morbidity and mortality.
- ❖ Identify and describe selected infectious diseases that are prevalent in Brazil.
- ❖ Foster lasting academic collaborations and joint research projects between HSPH and Brazilian participants, strengthening personal networks throughout Brazil and internationally.

We are delighted to have such a distinguished group of students and faculty participating in this field course and we are tremendously grateful to the many individuals and institutions that have made this collaborative course possible.

Grande abraço,



Mary E. Wilson
Associate Professor of Global
Health and Population, HSPH;
Associate Clinical Professor of
Medicine, HMS



Mitermayer Reis
Director and Professor,
Centro de Pesquisas Gonçalo
Moniz - CPqGM (Fiocruz)



Marcia C. Castro
Assistant Professor of
Demography, HSPH

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HOST AND COLLABORATING INSTITUTIONS

Harvard School of Public Health

Founded in 1922, the Harvard School of Public Health (HSPH) is one of Harvard University's eleven schools. Recognized for its leading public health research and education, its work encompasses not only the basic public health disciplines of biostatistics and epidemiology, environmental and occupational health, but also molecular biology, quantitative social sciences, policy and management, human rights, and health communications. The school offers Master's degrees in Public Health, Science and Occupational Health and doctoral degrees in Science (SD), Public Health (DPH) and Biostatistics (PhD) and Biological Sciences (PhD).

Harvard Medical School

Harvard Medical School (HMS) is the third oldest medical school in the United States and was founded in 1782. World renowned for its research and practice-based training, HMS is closely affiliated with a number of hospitals and research foundations including Brigham and Women's Hospital and the Dana-Farber Cancer Institute. Its doctoral degree programs (MD. and PhD) in clinical medicine, basic sciences and the social sciences offer a diversity of training opportunities in disciplines as diverse as neurobiology, molecular genetics, systems biology, health care policy, and global health and social medicine.

Fiocruz's Centro de Pesquisa Gonçalo Moniz

The Centro de Pesquisa Gonçalo Moniz (CPqGM) is a research center of Fundação Oswaldo Cruz (Fiocruz), an institution belonging to the Brazilian Ministry of Health charged with the mission of combating the country's most urgent and important public health challenges. CPqGM is a research, education, information and health assistance facility located in Salvador, Bahia. The main research units of the center are pathology, immunopathology, molecular biology, parasitology, ecology and control of infectious and parasitic diseases. The Centro also offers graduate degrees in human pathology and investigative medicine.

Brazil Studies Program & Brazil Office, David Rockefeller Center for Latin American Studies, Harvard University

Founded in 1994, Harvard's David Rockefeller Center for Latin American Studies (DRCLAS) works to increase knowledge of the cultures, economies, histories, environment, and contemporary affairs of past and present Latin America. The mission of the DRCLAS Brazil Studies Program in Cambridge and Brazil Office in São Paulo, which were established in 2006 is to enhance collaborative research among Harvard faculty and their Brazilian counterparts; encourage faculty engagement with Brazil and student participation in language programs, internships and research projects in Brazil; and provide a hospitable environment for Brazilians at Harvard and for Harvard scholars in Brazil.

Faculdade de Ciências Médicas da Santa Casa de São Paulo

The Faculdade de Ciências Médicas da Santa Casa de São Paulo (FCMSCSP) is a medical school belonging to the Irmandade da Santa Casa de Misericórdia de São Paulo, a nonprofit organization, which is the institution that established the first hospital in the city of São Paulo in 1884 and today administers a network of 12 hospitals and several primary health care clinics throughout the metropolis. One of Brazil's leading medical schools, the school also provides undergraduate and graduate degrees in nursing, speech therapy and health sciences.

Faculdade de Medicina da Universidade de São Paulo

The Faculdade de Medicina da Universidade de São Paulo is the medical school of the University of São Paulo (Universidade de São Paulo or USP), which is one of the three public universities funded by the State of São Paulo. One of Brazil's leading medical schools, the school also provides training in occupational therapy, speech and language therapy and physical therapy. The Hospital das Clínicas is the institution's primary teaching hospital.

Universidade Federal da Bahia

The Universidade Federal da Bahia (UFBA) is a public university located mainly in Salvador, the capital of the state of Bahia, and part of a federally-funded public university system under the Brazilian Ministry of Education comprised of 43 universities. UFBA offers both undergraduate and graduate programs in the fields of public health and medicine including medical, dental and veterinary medicine degrees, as well as Humanities, Arts, Science and Technology.

COURSE LOCATIONS

City of Salvador, Bahia

The city of Salvador, whose official name is São Salvador da Baía de Todos os Santos (Holy Savior of All Saints' Bay) is the capital of the state of Bahia. The city was the first capital and major port of colonial Brazil for almost two centuries and functioned as an important center of the sugar industry and the slave trade. With a population of almost 3.5 million in the metropolitan area, Salvador today is the third most populous city in Brazil. The city is divided into 17 political-administrative zones, each neighborhood rich in its cultural traditions and historical significance. The historical center of Salvador, Pelourinho is renowned for its Portuguese colonial architecture and was declared a World Heritage Site by UNESCO in 1985. The Fiocruz is located in the neighborhood of Brotas, a populous district in the western center of the city. Temperatures in January range from 30°C (86°F) to 21°C (73°F).

Note: The city of Salvador celebrates the Lavagem do Bonfim on the second Thursday after the Magi's Day (January 6). The celebration that represents a cleansing ceremony of the body and soul begins in the morning with the traditional on-foot procession of baianas from the Conceição da Praia Church up to the top of Bonfim, where they wash the stairways and yard of the Igreja do Bonfim using brooms and scented water. In 2011, the Lavagem do Bonfim will take place on Thursday, January 13. For those students in Salvador during the second week of the course, an optional day-trip to participate in the procession will be organized by the course organizers.

Vale do Jiquiriçá

Over the weekend of January 8-9th, the students and faculty participating in the course will travel to the Vale do Jiquiriçá, Bahia where Dr. Jackson Costa, who is a Senior Researcher at CPqGM, has created a reference center for the diagnosis and treatment of cutaneous leishmaniasis. Jiquiriçá is approximately 254 kilometers from Salvador, and Ubaíra is a nearby town where Fiocruz has a laboratory. Students will be visiting and spending time in both locations.

LECTURES

The following lectures will be held on-site at CPqGM. Each session will be 1 hour 45 minutes long, with 45 minutes allotted for the lecture and the remaining time reserved for questions and group discussion. The objectives, key questions, and readings will be determined by each lecturer. Please see the course website for specific information and to download all materials.

- **Lecture 1:** Building Background: Introduction to Brazil and the Unified Health System (Sistema Único de Saúde - SUS) (Naomar de Almeida Filho)
- **Lecture 2:** Building Specialized Knowledge: Nutrition (Mauricio Barreto)
- **Lecture 3:** Building Tools: Data Sources and Analysis (Marcia Castro)
- **Lecture 4:** Building Tools: Dealing with Data (Marcia Castro)
- **Lecture 5:** Building Tools: Human Rights Approach (Aluísio Segurado)
- **Lecture 6:** Building Specialized Knowledge: HIV (Maria Amélia Veras)
- **Lecture 7:** Building Specialized Knowledge: Dengue Fever (Mary Wilson)
- **Lecture 8:** Building Specialized Knowledge: Leptospirosis (Guilherme Ribeiro)
- **Lecture 9:** Building Specialized Knowledge: Schistosomiasis (John David and Mitermayer Galvão Reis)
- **Lecture 10:** Building Specialized Knowledge: Leishmaniasis (Jackson Costa)

SITE VISITS IN SALVADOR



During the first week of the course, there will be three off-site visits in Salvador: to the Hospital Couto Maia, to the community of Pau da Lima and the São Marcos Health Clinic, and to the Zoonosis Control Center.

Hospital Couto Maia

Founded in 1853 as the Hospital de Isolamento de Monte Serrat, Hospital Couto Maia originally served patients with yellow fever arriving on Brazilian and international merchant ships. It is an infectious disease reference hospital that serves the population of Bahia, and that had a major role during various epidemics since its foundation, including yellow fever (1849), cholera (1855), bubonic plague (1904), Spanish Fever (1919), smallpox (1919) and typhoid fever (1924). Located in the Monte Serrat neighborhood in the city of Salvador, the hospital is part of the network of public hospitals of the health department of the State of Bahia, and is responsible for epidemiological surveillance and teaching in the areas of medicine, nursing, pharmacy, biomedicine, and medical history and archives. Currently, the hospital is an important reference center in the state of Bahia for the care of infectious diseases, including patients with meningitis and HIV/AIDS.

Site Visit Objective: To discuss the determinants of the risk of HIV/AIDS infection and the difficulties of diagnosis and patients' adherence to treatment plans.

Pau da Lima and São Marcos Health Clinic

Pau da Lima is a slum neighborhood that grew at the outskirts of urban Salvador with a population of approximately 300,000 inhabitants. Originally, it was unoccupied land that began to attract people in the 1950s given its relative tranquility and closeness to Salvador. Pau da Lima is near two large roadways, which has impacted its growth and increasing population density. For over five years, Fiocruz has been leading community-based cohort studies on urban leptospirosis in Pau da Lima that aim to understand the transmission dynamics of urban leptospirosis within this community. The São Marcos Health Clinic was founded in 2000 by the Hospital São Rafael and Monte Tabor and is the only facility to provide 24-hour care in Pau da Lima. In 2008, the clinic cared for an average of 380 people a day.

Site Visit Objective: Visit an urban community whose population is at risk of contracting leptospirosis. Identify the environmental and social determinants of infection. Understand how an emergency healthcare facility serves this community.

Zoonosis Control Center (CCZ)

The Zoonosis Control Center (CCZ - Centro de Controle de Zoonoses) is a public agency of the Health Program of the Municipality of Salvador charged with regulating and controlling the activities of the creation of small animals in urban areas. It plays a vital role in controlling disease hosts (rats, stray dogs and cats, etc) and vectors (primarily insects).

Site Visit Objective: Discuss mosquito control strategies and observe dengue prevention activities (identification of areas of mosquito population proliferation, identification of larvae of *Aedes aegypti*, procedures to evaluate indices of building infestation).

Site Visit Groups

To facilitate organization and coordination, each student has been pre-assigned to a specific group. The listing of each ten member group is summarized below.

First Name	Last Name	From	Site Visit Group
Aastha	Sharma	Harvard	Group A
Dana	Thomson	Harvard	Group A
Elsa	Nhantumbo	Brasil	Group A
Gabriela	Vilar	Brasil	Group A
Jennifer	Ward	Harvard	Group A
Jethe	Oliveira	Brasil	Group A
Laura	Azevedo	Brasil	Group A
Luciana	Lima	Brasil	Group A
Paula	Moraga	Harvard	Group A
Ramadhani	Mwiru	Harvard	Group A
Amadea	Britton	Harvard	Group B
Anibal	Murue	Brasil	Group B
Annie	Li	Harvard	Group B
Christiane	Matos	Brasil	Group B
Geane	Oliveira	Brasil	Group B
Jesse	Heitner	Harvard	Group B
Mariane	Assis	Brasil	Group B
Melina	Santos	Brasil	Group B
Onyinyechi	Ukwuoma	Harvard	Group B
Panji	Hadisoemarto	Harvard	Group B
Cesar	Barros	Brasil	Group C
Cori	Lewis	Harvard	Group C
Daniel	Newman	Harvard	Group C
David	Barbosa	Brasil	Group C
Karina	Pinto	Brasil	Group C
Ramya	Bokkolla	Brasil	Group C
Rebecca	Martinez	Harvard	Group C
Sandra	Pirela	Harvard	Group C
Tamiris	Dias	Brasil	Group C
Trevor	Thompson	Harvard	Group C

GROUP FIELDWORK PROJECTS

Objectives:

- Define a question that needs to be answered in order to control or reduce the burden from the specific disease that the group is addressing.
- Develop a feasible research proposal that would help to answer this question.
- Review the necessary data from electronic databases, published literature, discussions with local researchers, staff, residents, and others to develop a research proposal.
- Draw on the diverse backgrounds of students in the group, who will bring different skills and experiences to the project.
- Present the proposal to the local community (may include clinic staff, community health workers, residents, and/or others).
- Present the final proposal to the entire class (and others from Fiocruz-Bahia and elsewhere) at the end of the course.

Proposals:

- Innovative; in some instances the team may use the course project to further develop one aspect of an existing project;
- Feasible;
- Draw on past research/control efforts (why were past efforts unsuccessful?);
- Will inform policy decisions or public health decisions;
- Will improve control of the disease or improve the health of local population;
- Tailored to local community;
- Take advantage of expertise of all;
- Utilize appropriate research methodologies;
- OK to have >1 part of proposal (or one main subpart);
- Fundable (there may be opportunities to apply for funding to carry out these projects in the future);
- Can be completed in a reasonable timeframe (e.g. a research question that you could answer in approx. one year, although it can draw on past data from many years).

Local Presentation: (approximately 1 hour and 30 minutes)

- Decide who stakeholders are (local community, researchers etc) and decide on specific time and place for presentation of ideas to them for discussion – this should be done during the early part of the week so that the place can be reserved and invitations can be extended;
- Depending on the target audience, it may be more appropriate to conduct the presentation in Portuguese;
- Plan on a 30-minute presentation that includes breadth/depth of information appropriate for your chosen audience;
- Allow approximately 1 hour for discussion and feedback from the audience (you may want to come up with some discussion questions);
- Describe feedback received in presentation (and indicate who has given feedback).

Final course presentation and report: (1 hour and 15 minutes)

- About 30 minutes for presentation and 45 minutes for discussion (1 hour and 15 minutes total);
- Statement of research intent of approximately 3-5 pages including a research question, background, specific aims, significance, data and methods, research plan, and references (references are not included in the 3-page limit);
- Describe role of each student member of team in the project;
- Reflect upon feedback received during local presentation;
- Deliver electronic copy of presentation on day of presentation;
- Include acknowledgments;
- Jointly present – those who do not formally present the group presentation must participate during discussion session;
- Final presentations will be on Tuesday, January 18th starting at 8:45 am in this order:
 - Dengue
 - HIV/AIDS
 - Leishmaniasis
 - Leptospirosis
 - Schistosomiasis

Proposed Final Report Format

Cover Page: (1 page)

Title of the project
Team members

Acknowledgments: (1 page)

Statement of research: (3-5 pages)

Include the following sections:

- Background
 - Briefly sketch the background leading to the proposal, evaluate existing knowledge, and identify the gaps that the project is intended to fill.
- Specific aims
 - List the broad, long-term objectives and the goal of the specific research proposed (e.g. test a stated hypothesis, create a novel design, solve a specific problem, challenge an existing paradigm or clinical practice, address a critical barrier to progress in the field, or develop new technology).
- Significance
 - State the importance and health relevance of the research proposed; how scientific knowledge or clinical practice will be advanced.
- Data
 - Describe what data will be used in the proposed research (e.g. secondary data, new survey and how will be collected, qualitative/quantitative/ mixed).
- Research Plan
 - Describe the research design conceptual or clinical framework procedures, and analysis to be used to accomplish the specific aims of the project; how the data will be analyzed and interpreted; how the information will reach policy makers (translational of knowledge). Discuss potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims.

References: (No page limit)

Role of students: (1 page)

- Describe role of each student member of team in the project development.

Appendix: (As appropriate)

Groups for Fieldwork Projects:

DENGUE (Salvador)

Mary Wilson & Luciano Kalabric

Elsa Maria Nhantumbo	Brasil
Jennifer Ward	Harvard
Karina Pinto	Brasil
Melina Érica Santos	Brasil
Panji Hadisoemarto	Harvard
Rebecca Martinez	Harvard

LEPTOSPIROSIS (Salvador)

Guilherme Ribeiro & Federico Costa

Cori Lewis	Harvard
Dana Thomson	Harvard
Jesse Heitner	Harvard
Luciana Lima	Brasil
Mariane Assis	Brasil
Ramya Bokkolla	Brasil

HIV/AIDS (Salvador)

**Maria Amélia Veras & Aluísio
Segurado**

Anibal Murure	Brasil
Daniel Newman	Harvard
Gabriela Villar	Brasil
Onyinyechi Ukwuoma	Harvard
Ramadhani Mwiru	Harvard
Tamires T. Dias	Brasil

SCHISTOSOMIASIS (Jiquiriçá)

John David & Mitermayer Reis

Aastha Sharma	Harvard
Amadea Britton	Harvard
Cesar Barros	Brasil
Christiane Matos	Brasil
Laura Azevedo	Brasil
Sandra Pirela	Harvard

LEISHMANIASIS (Jiquiriçá)

Jackson Lopes da Costa

Annie Li	Harvard
David Barbosa	Brasil
Geane Maria Oliveira	Brasil
Jethe Oliveira Filho	Brasil
Paula Moraga	Harvard
Trevor Thompson	Harvard

MAPS OF BRAZIL AND COURSE LOCATIONS

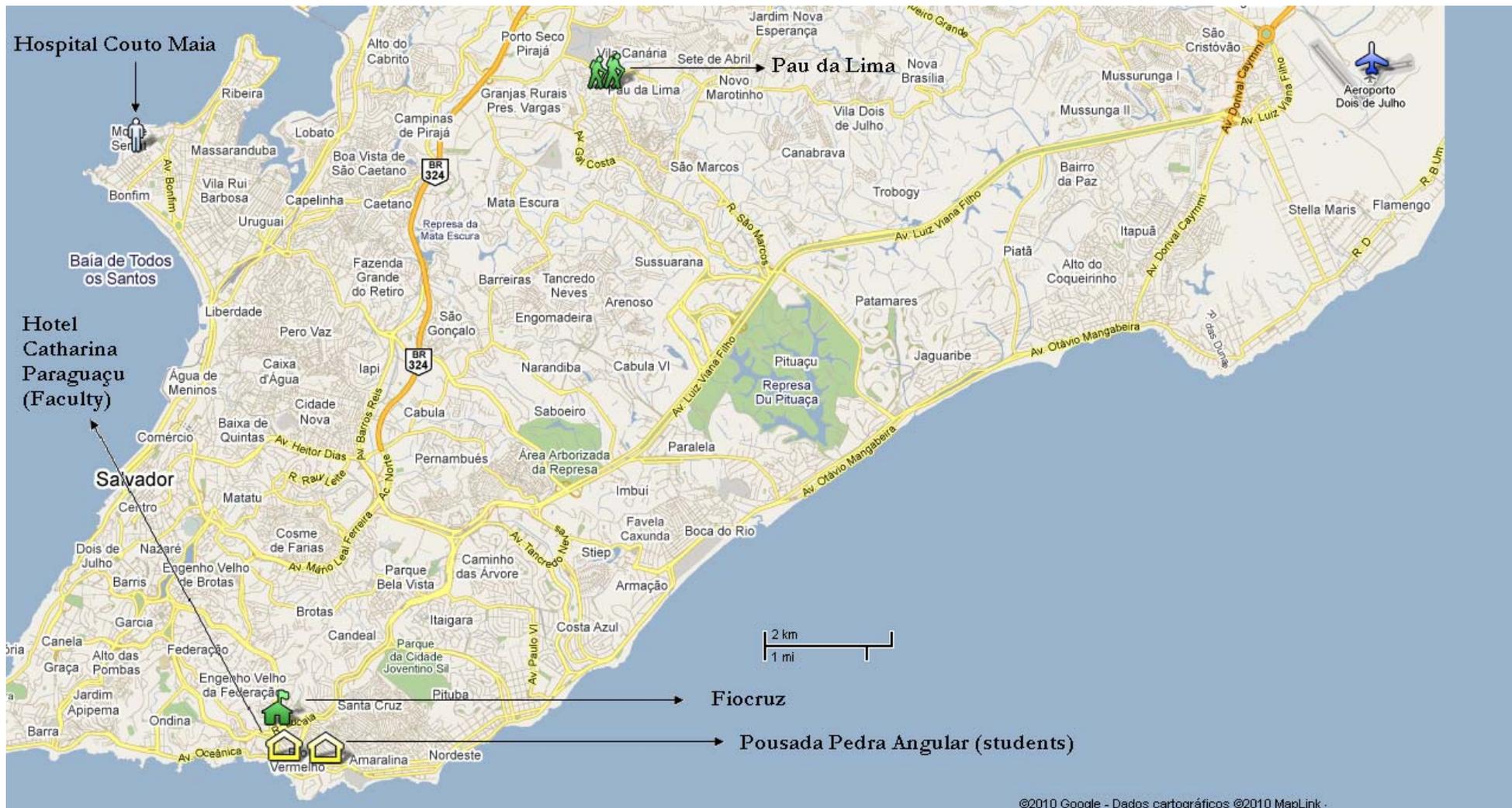
All participants in this course will have the opportunity to visit both the urban and rural sites. Students focused on dengue, leptospirosis, and HIV/AIDS will spend more time in Salvador (urban environment), while students focused on schistosomiasis and leishmaniasis will spend a week in Ubaíra (rural environment).

Map of Brazil and Location of Course Field Sites:



To view specific course locations (Fiocruz, site visits, international airport, lodging etc.), please see interactive course map at: www.drclas.harvard.edu/brazil/publichealth-salvador-2011/map

Map of Key Site Locations in Salvador



Key Summary Indicators about Brazil

Population (2010 Census): 190,732,694

Life Expectancy at Birth (2010 est.): 72.26 years (68.7 males; 76 females)

Total Fertility Rate (2010 est.): 2.19 children born / woman

Infant Mortality Rate (2010 est.): 21.86 deaths / 1000 live births

Urban population (2008): 86% of the total population

GDP – Purchasing Power Parity (2009 est.): \$2.013 trillion (10th highest in the world)

GDP Composition by Sector (2009 est.): agriculture 6.1%; industry 25.4%; services 68.5%

Labor Force by Occupation (2003 est.): agriculture 20%; industry 14%; service 66%

Unemployment rate (2009 est.): 8.1%

Population below poverty line (2008 est.): 26%

Religions: Roman Catholic (nominal) 73.6%, Protestant 15.4%, Spiritualist 1.3%, Bantu/voodoo 0.3%, other 1.8%, unspecified 0.2%, none 7.4% (2000 census)

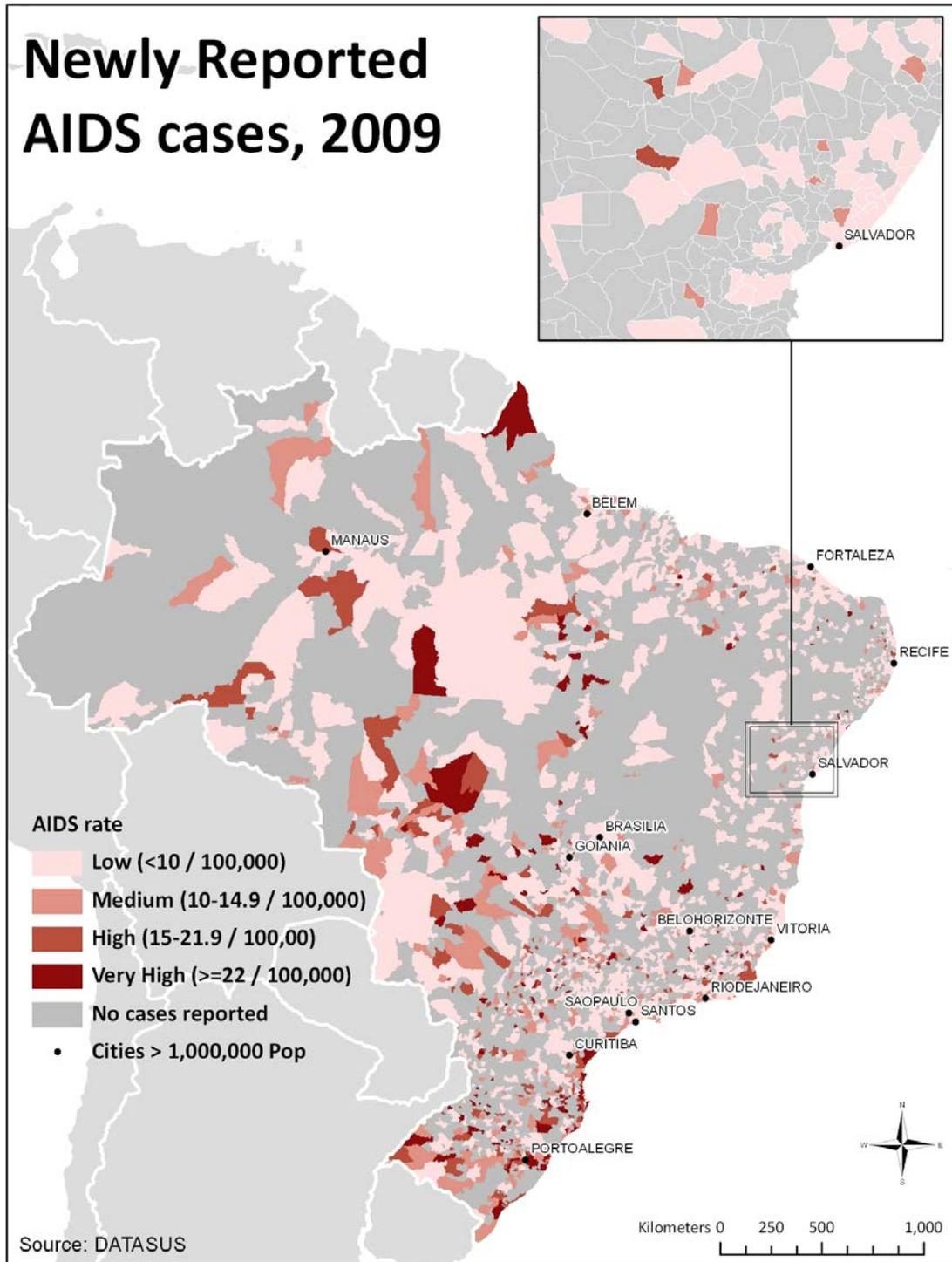
Ethnic Groups: white 53.7%, mulatto (mixed white and black) 38.5%, black 6.2%, other (includes Japanese, Arab, Amerindian) 0.9%, unspecified 0.7% (2000 census)

Sources:

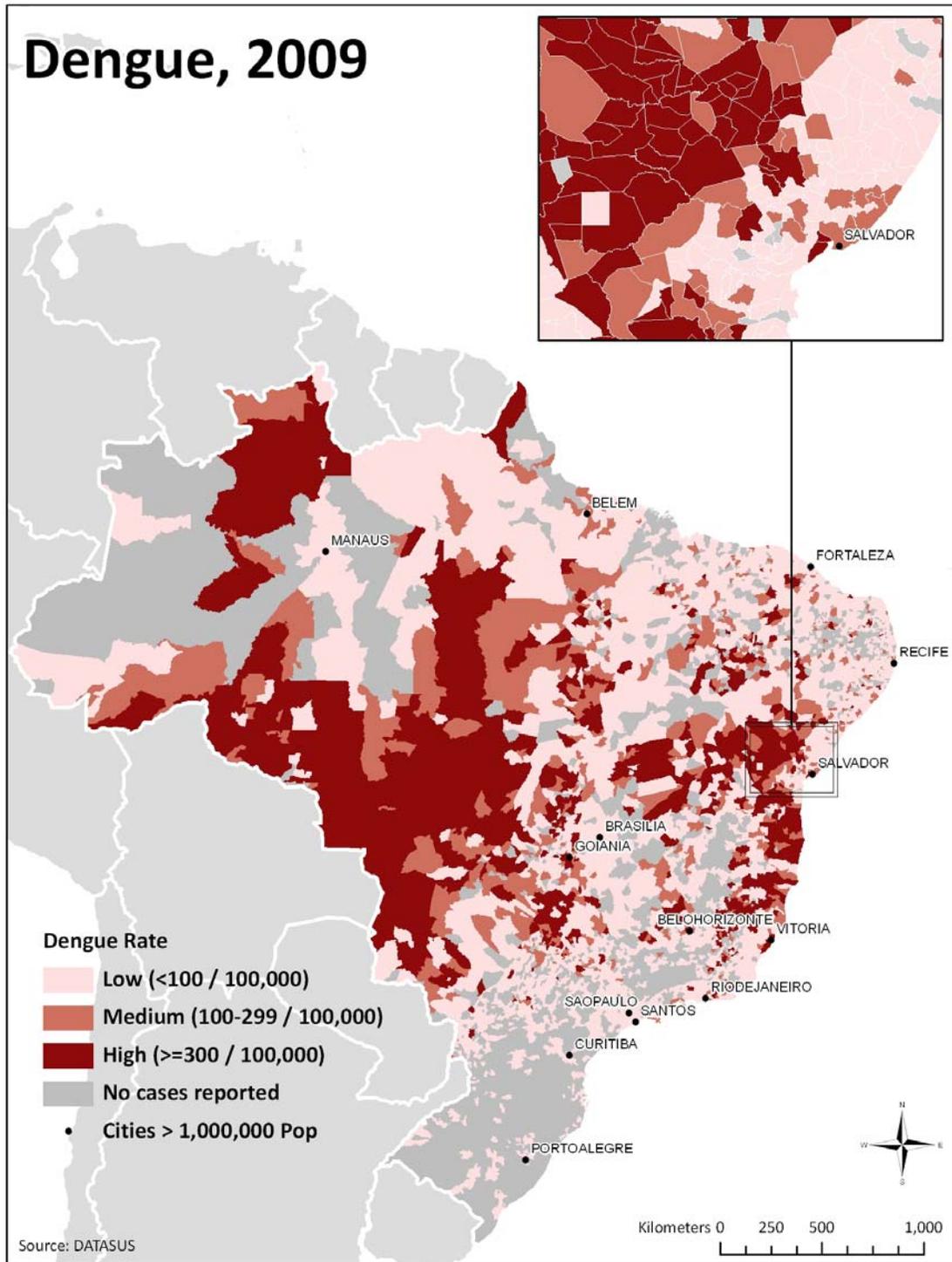
CIA Factbook, <https://www.cia.gov/library/publications/the-world-factbook/geos/br.html>

Brazil Institute of Geography and Statistics - IBGE, www.ibge.gov.br

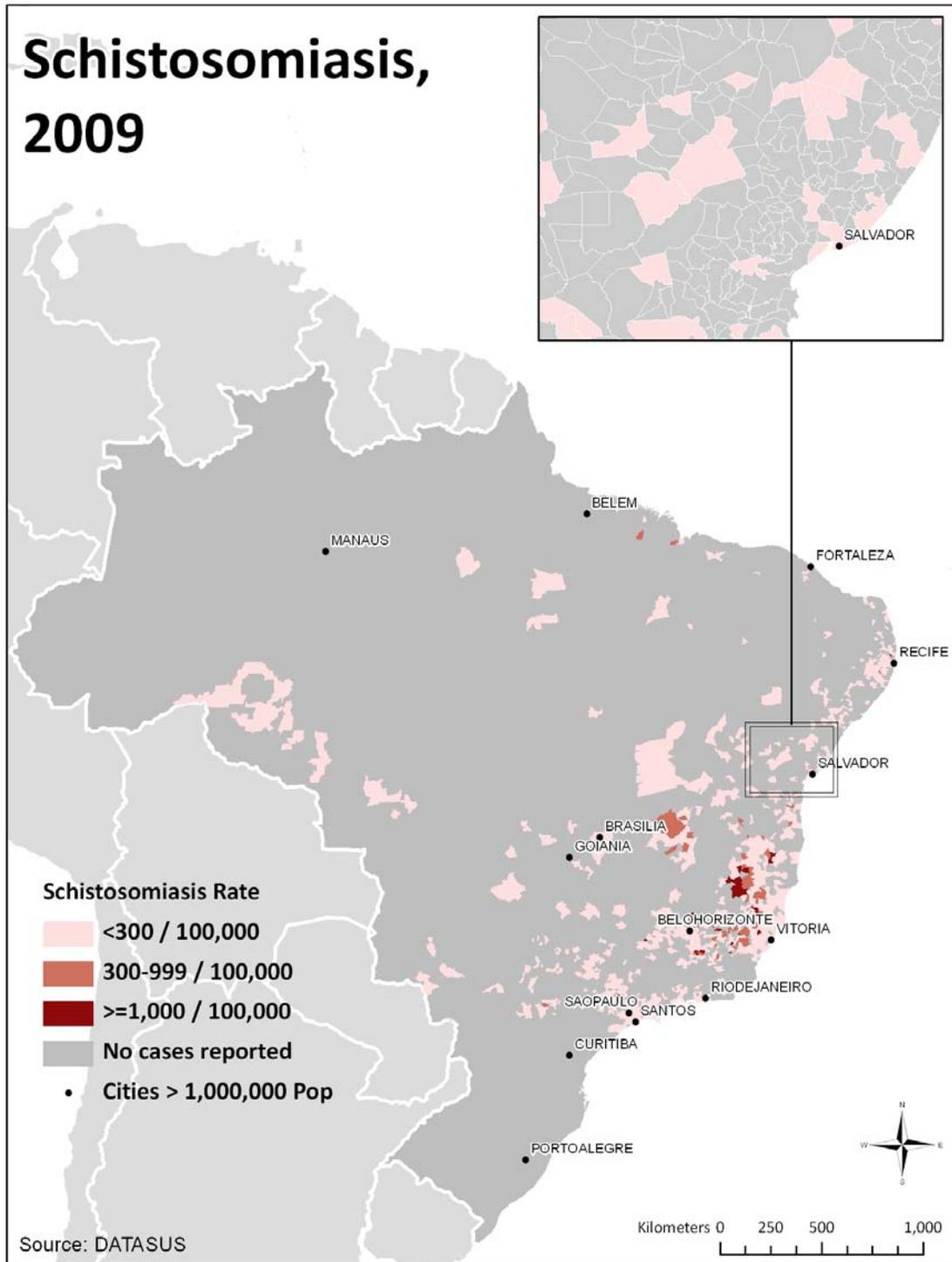
Newly Reported AIDS cases Map for Brazil, Datasus, 2009



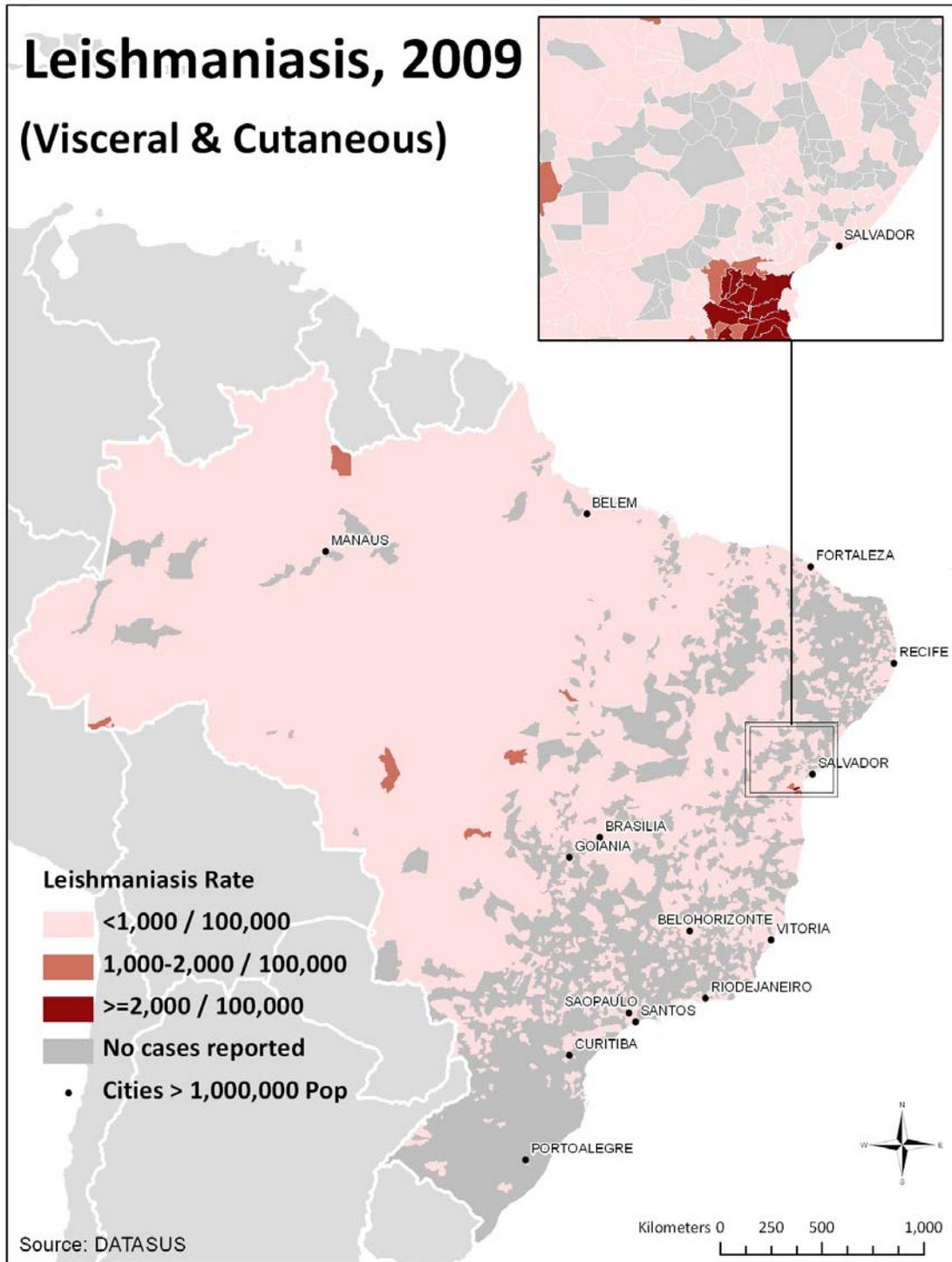
Dengue cases Map for Brazil, Datasus, 2009



Schistosomiasis cases Map for Brazil, Datasus, 2009



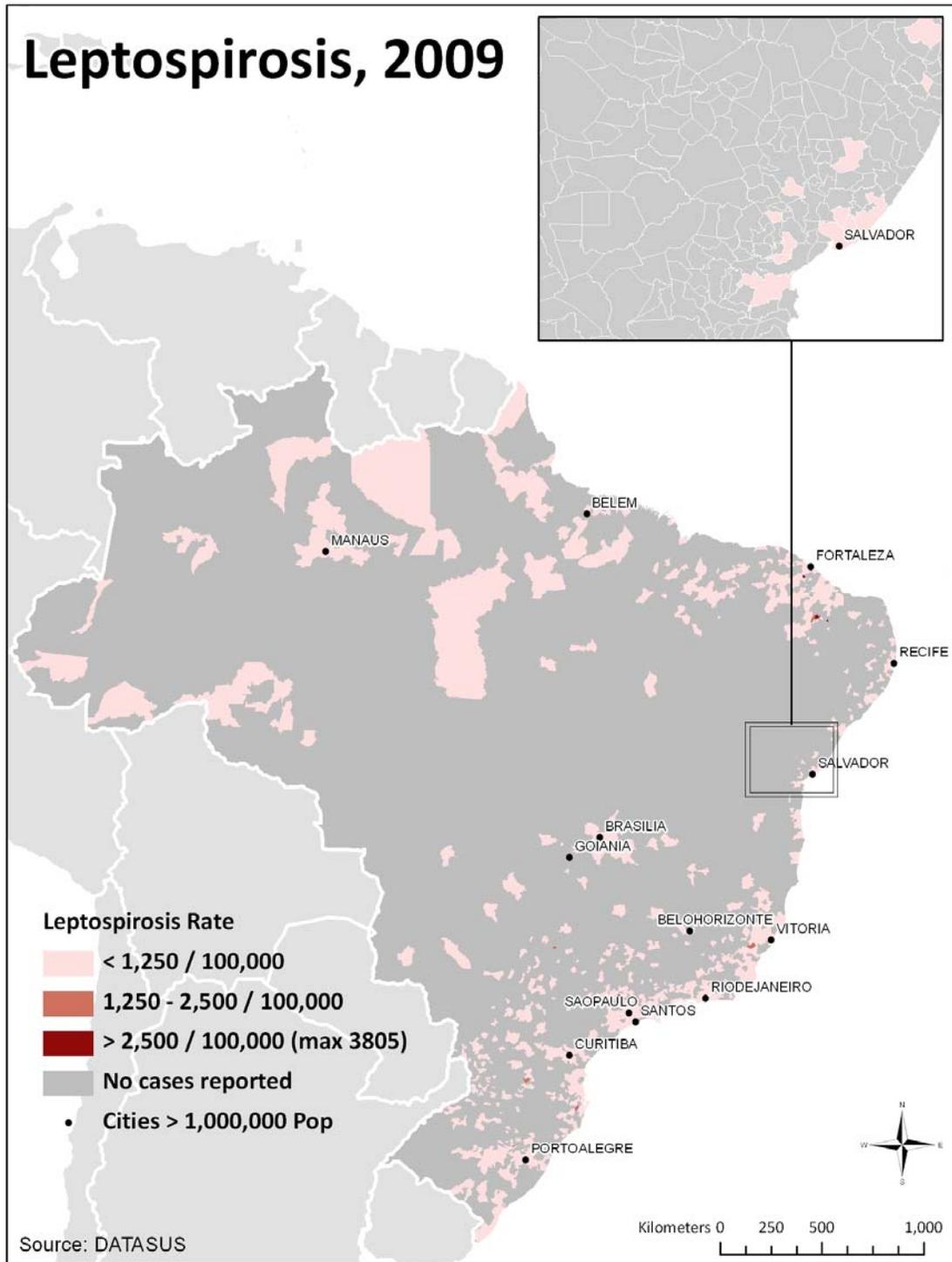
Leishmaniasis cases Map for Brazil, Datasus, 2009



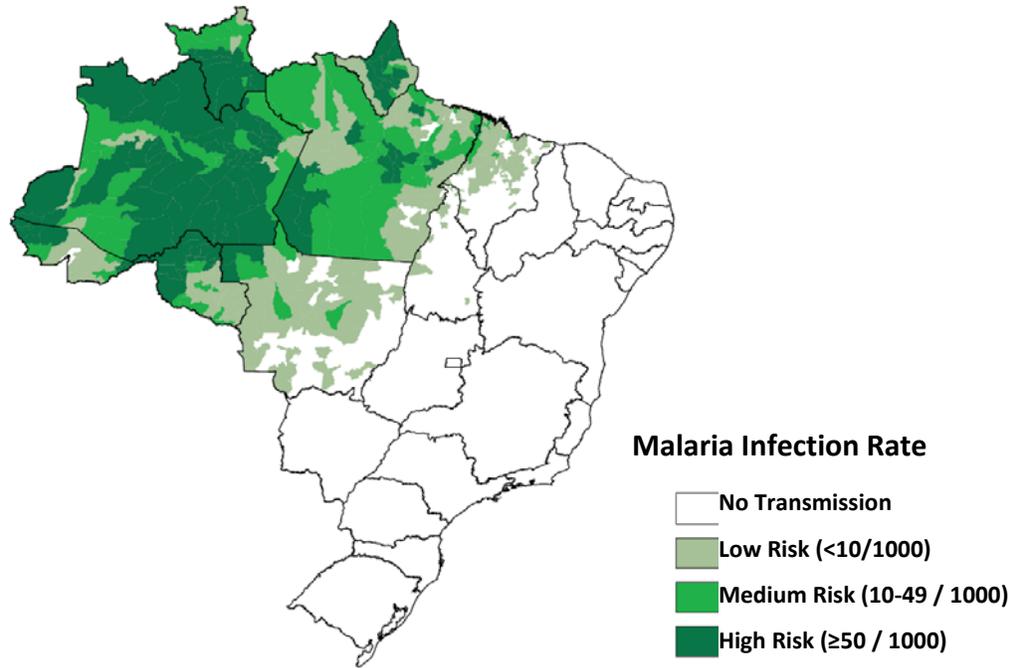
Chagas Disease cases Map for Brazil, Datasus, 2009



Leptospirosis cases Map for Brazil, Datasus, 2009



Malaria, 2008



Fonte: Sivep-Malária/SVS/MS

Yellow Fever: CDC Risk Map for Brazil, 2010



SCIENTIFIC ORGANIZING COMMITTEE

A Scientific Organizing Committee is responsible for the planning, review, and assessment of the 4th Harvard-Brazil Collaborative Public Health Field Course. The committee is composed of nine faculty members from the Harvard School of Public Health, Fiocruz's Centro de Pesquisa Gonçalo Moniz, Faculdade de Ciências Médicas da Santa Casa de São Paulo, the Faculdade de Medicina da Universidade de São Paulo, and the Universidade Federal da Bahia. The scientific organizing committee is structured to ensure representation of both the academic disciplines and institutions that have been critical to the development of the course.



Mary E. Wilson
Associate Professor, Department of Global Health and Population, HSPH



Mitermayer Galvão dos Reis
Director and Professor, Fiocruz, Salvador; Professor, Escola Bahiana de Medicina e Saúde Pública



Marcia Castro
Assistant Professor of Demography, Department of Global Health and Population, HSPH



Aluísio Segurado
Associate Professor, School of Medicine, University of São Paulo (USP)□



Guilherme de Sousa Ribeiro
Associate Professor of Epidemiology at the Institute of Collective Health of the Federal University of Bahia (UFBA); Visiting Researcher, Fiocruz



Jackson M. L. Costa
Senior Researcher, Fiocruz; Professor of Human Pathology, Universidade Federal da Bahia



John R. David
Professor of Tropical Public Health, Emeritus, Department of Immunology and Infectious Diseases, HSPH



Luciano Kalabric Silva
Public Health Technologist in Pathology and Molecular Biology Laboratory, Fiocruz



Maria Amélia de Sousa Mascenas Veras
Assistant Professor of Social Medicine, School of Medical Sciences, Santa Casa de São Paulo

TEACHING ASSISTANT



Dana Thomson
Masters of Science candidate,
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COLLABORATING FACULTY

(Alphabetical by first name)

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Epidemiologist at National Malaria
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Jamie Maguire
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Medical School and Senior
Physician at Brigham and Women's
Hospital in the Division of
Infectious Disease.



João Carlos Pinto Dias
Senior Researcher of Fiocruz



Maurício Barreto
Professor of Epidemiology at the
Institute of Collective Health of the
Federal University of Bahia



Naomar Almeida-Filho
Professor of Epidemiology at the
Institute of Collective Health of the
Federal University of Bahia and also
President of UFBA

COURSE SUPPORT STAFF AND ASSISTANTS

(Alphabetical by first name)

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Gilmar Ribeiro Júnior
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Cruz



Marcelo Ramos Executive
Executive Coordinator of the
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Scientific Initiation at Fundação
Oswaldo Cruz (Fiocruz),
Salvador

STUDENT FACEBOOK

Students from Harvard University



Aastha Sharma

Master's of Science degree candidate, with a concentration in Global Health and Population, Harvard School of Public Health (HSPH)



Amadea Britton

Master's of Science degree candidate, with a concentration in Global Health and Population, Harvard School of Public Health (HSPH)



Annie Li

Master's degree in Public Health candidate, Harvard School of Public Health (HSPH)



Cori Lewis

Bachelor's of Arts candidate in Social Anthropology, Harvard College



Daniel Newman

Master of Public Administration candidate in International Development, Harvard Kennedy School (HKS)



Jesse Heitner

Doctor of Science candidate in Global Health and Population, Harvard School of Public Health (HSPH)

Students from Brazil



Anibal Murure

Master's degree in Public Health candidate with a concentration in Epidemiology, Federal University of Minas Gerais (UFMG)



Cesar Barros

Resident Student in Infectious Diseases, Emilio Ribas Infectious Diseases Institute



Christiane Matos

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(Alphabetical by first name)



Aaron Litvin

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Aaron Litvin is the Brazil Studies Program Manager at DRCLAS in Cambridge. To this role, he brings his experience in advising students, organizing conferences, and planning exchange programs for non-profit education organizations. After graduating from Harvard College with a degree in Latin American Studies, Litvin was a Fulbright Scholar in Brazil and obtained a Master of Sciences in Sociology at the University of São Paulo. For his thesis, entitled “The Social and Economic Adaptation of Brazilian Migrants in Japan,” he did fieldwork in Japan as a Japanese Government Scholar. Litvin also produced and directed the documentary From Brazil to Japan, which was screened as part of the DRCLAS Brazilian Film Series in 2010.



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Most recently, Aastha worked on gender and health research, policy advocacy and trainings through Sama, a non profit organization in Delhi. She conducted qualitative research on the implications of assisted reproductive technologies on women’s lives, analyzing and critiquing health related programs and policies like the draft Assisted Reproductive Technologies Bill and the National Health Bill in India. Prior, Aastha was involved in assessing the impact of the Girl’s Education Project for UNICEF in rural Uttar Pradesh; worked on rehabilitation of patients falling below the poverty line at AIIMS (a tertiary hospital in New Delhi); and implemented interventions in child health and education at an urban slum in India. She holds a graduate degree in social work and an undergraduate degree in journalism. Her interests include addressing global health disparities, enhancing access to drugs, and health delivery system strengthening.



Aluísio Segurado

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Aluísio C. Segurado is an Associate Professor in the Department of Infectious and Parasitic Diseases in the School of Medicine at the University of São Paulo. He was a Visiting Research Fellow in the Program of International Health and Human Rights at the Harvard School of Public Health in 2008. After graduating in Medicine from the University of São Paulo, Brazil, he completed his Master's in Science and Ph.D. degrees in Infectious Diseases from the same institution in 1991 and 1994. His research focuses on human retroviral infections (HIV/AIDS and HTLV) with particular interests in understanding the vulnerability of different population groups to viral acquisition, as well as to disease progression and response to care interventions. Dr. Segurado's academic activities cross disciplines and encompass the fields of molecular virology, clinical medicine and public health. His international experience includes acting as Visiting Scientist at the Centers for Disease Control and Prevention, in Atlanta, Georgia, as technical "ad hoc" advisor to the WHO, as well as previous academic research visits to Japan, France and the United States.



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Amadea graduated from Princeton University in 2008 with a degree in Ecology and Evolutionary Biology. While there she focused on applications of ecological theory to public health and wrote a senior thesis examining the emergence and spread of antibiotic-resistant infections in the U.S. healthcare system. She also spent a semester doing field research with the Smithsonian Tropical Research Institute in Panama. She has worked for the Public Health Association Saxony and Saxony-Anhalt in Dresden, Germany as a Congress-Bundestag Youth Exchange for Young Professionals fellow, the Alliance for the Prudent Use of Antibiotics, and Newsweek Magazine. Her particular areas of interest include vectored and zoonotic diseases, the ecology of antimicrobial resistance, and science writing for policy issues.

Ana Carolina Santelli

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Dr. Ana Carolina Faria e Silva Santelli is an epidemiologist at The National Malaria Control Program in Brazil, currently coordinating a Global Fund Grant in Brazil. Dr Santelli earned her MD and infectious diseases fellowship from the State University of Campinas (UNICAMP), and Tropical Medicine specialization from the University of Brasília. After a two-year training in field epidemiology, through cooperation between Centers for Disease Control and Prevention (CDC) and Ministry of Health in Brazil, she joined the National Malaria Control Programme (NMCP) in 2007. She worked for PAHO/WHO as a Malaria National Officer and then returned to the NMCP to coordinate a Malaria Project financed with a Global Fund Grant.



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Anibal Murure is a student in the Master of Public Health Program at Federal University of Minas Gerais (UFMG) with a concentration in Epidemiology. He is Mozambican and earned a degree in Geography of Population and Development from the University Eduardo Mondlane, Mozambique in 2005. In 2006, Anibal worked for several NGOs addressing HIV/AIDS, including Teboho Trust which helps orphans in Johannesburg-Soweto South Africa. He then moved to his home country to work as a Family Strengthening Project Coordinator with SOS Children's Village between 2007 and 2008, and then in 2008 became a Project Coordinator with Right To Play Mozambique which uses sports to prevent diseases. While serving as a Project Coordinator of Pro-Idoso in 2009, Anibal consulted with the World Bank and the Ministry of Public Works and Housing on water improvement projects.



Anika Grubbs

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Anika Grubbs joined DRCLAS as the Development and External Relations Coordinator in December 2009. She previously assisted the DRCLAS's Events team and the Cuban Studies Program after graduating cum laude from Harvard College in June 2009 with a degree in Government and a secondary field in Romance Languages and Literatures. As an undergraduate, Anika was an Events intern and Brazil Studies Program intern at DRCLAS, co-chair of the Brazil Studies Program Student Advisory Committee, and participated in the DRCLAS Summer Internship Program in Chile, the Harvard Summer School Program with PUC-Rio, and interned for the Brazilian human rights non-governmental organization Justiça Global in Rio de Janeiro.



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Originally from Los Angeles, California, Annie received her B.S. in Animal Science from University of Massachusetts Amherst and her Doctor of Veterinary Medicine (D.V.M.) from Cornell University (2009). During vet school, Annie became interested in global health and completed externships at the Food and Agriculture Organization (FAO) and the United States Department of Agriculture (USDA). She also founded Cornell's Veterinary Public Health Association and helped to plan the first annual Zoonotic Disease Symposium at the university. After graduation, Annie received a Fulbright Fellowship to study avian influenza and H1N1 in Taiwan. Her interests are in zoonotic diseases, education, and global health.



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Cesar is currently a medical resident in infectology at the Emílio Ribas Infectious Diseases Institute. Born in the warm and friendly city of Cuiabá, Mato Grosso, Cesar received a medical degree from Cuiabá University School of Medicine (UNIC). His career trajectory has been influenced by the high prevalence of tropical diseases in his home state, including dengue fever, Hansen's disease and leishmaniasis. Since college, Cesar's interests have been at the interface of health and disease where disease pathology arises, takes shape, and takes hold of a population. This passion inspired Cesar to volunteer with the Red Cross as a medical educator in Mato Grosso. Cesar's current work to control infectious and parasitic diseases focuses on AIDS, Viral Hepatitis, Meningitis and Leptospirosis. In addition to his medical residency, Cesar organizes volunteers to care for vulnerable populations with the NGO ABCP. In the near future, Cesar wants to apply his epidemiology training to infectious disease surveillance, particularly the surveillance of Hansen's disease which remains at hyperendemic levels in certain municipalities of Mato Grosso.



Christiane Matos

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Born in the city of Ilhéus, Bahia, Christiane earned a Bachelor's degree in Biomedicine and a diploma in Clinical Analysis in 2002 from Universidade Estadual de Santa Cruz. After graduating, she worked for two years in a clinical laboratory where she was responsible for hematology, parasitology, biochemistry and urinalysis. In 2007, Christiane completed a Masters in Health Sciences degree at The René Rachou Research Center (Fiocruz in the state of Minas Gerais) where she researched infectious and parasitic diseases. During her masters program, Christiane developed a methodology using flow cytometry for the optimization of serological diagnosis and monitoring following chemotherapeutic treatment of chronic-state Chagas disease. Following her Masters degree, Christiane taught university courses in biomedicine, biology, pharmacy and nursing. Now a Doctoral student at The René Rachou Research Center, Christiane works at the Triatomine and Chagas Disease Laboratory. Her Doctoral Thesis, entitled "Chagas disease in Bambuí: current status and surveillance," is being supervised by Dr. João Carlos Pinto Dias. Christiane's research focuses on the diagnosis, epidemiology, and control of neglected tropical diseases, specifically Chagas Disease. Since 2008, Christiane has consulted with CQMed, a distance education company, to perform clinical analysis of parasites, parasite hosts, and the relationships between them.



Cori Lewis

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Born and raised in Southern California, Cori was always interested in health. After her freshman year in college, she became a part of the non-profit organization Health Leads, which works in hospitals across the country to connect low-income patients with social resources that may otherwise impede their health. Her last summer was spent researching resources for the Health Leads location in New York City. She worked as an advocate at Boston Medical Center (BMC) for a year, and is now the Boston site's Resource Coordinator for Health Leads' first ever Resource Team. She is particularly interested in health disparities and social barriers to health, and hopes to learn more about these topics after graduating from Harvard this spring.



Dana Thomson

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Following high school, Dana volunteered in Angola for six months with an HIV/AIDS testing and counseling clinic, and worked on the Westside of Chicago as an AmeriCorps health outreach worker. In 2008, she completed her undergraduate degree in Geography and Geographic Information Systems (GIS) at George Washington University, then worked as a GIS Specialist at Macro International on the MeasureDHS Project, and the World Bank. As an undergraduate, Dana led a project to map HIV/AIDS socioeconomic data in Washington, DC where HIV prevalence is as high as many African countries, and this past summer she was involved with health-GIS projects in The Democratic Republic of the Congo, Cameroon, and India. Her interests include spatial analysis techniques and international health disparities. In her spare time, Dana enjoys cooking and biking with her partner, and hopes to learn to hang-glide after she graduates in May.



Daniel Newman

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Danny graduated from Stanford University with a Bachelor's in Economics and a Master's in Financial Math, and has worked in finance in New York and in teaching and entrepreneurship training in Santiago, Chile. He is currently studying international development at Harvard Kennedy School, in the first year of a two-year Master's program. Interests include national health policies across countries, network modeling of disease outbreaks, and connections between poverty and economic opportunity with health outcomes and behavior.



David Barbosa

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David holds a degree in Veterinary Medicine from the State University of Maranhão, in the northeast of Brazil. He is currently pursuing a Master's degree in Epidemiology at the National School of Public Health Sergio Arouca at Oswaldo Cruz Foundation (Fiocruz - Rio de Janeiro). David's research focuses on spatial analysis and epidemiological variables associated with canine and human visceral leishmaniasis in São Luís, Maranhao in northeast Brazil. David brings experience in veterinary medicine and public health, specifically on the epidemiology of communicable diseases, spatial analysis in health, health surveillance, zoonosis control, and education in health.



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Elsa Maria is currently a student in the Master of Public Health Program at the Federal University of Minas Gerais with a concentration in Epidemiology. Born in Mozambique, Elsa Maria earned a bachelor's degree in chemistry and biology in 2005 from Pedagogical University in Maputo, Mozambique. From 2006 to 2010, Elsa Maria worked for the Malaria Prevention and Control Program at the Provincial Health Department in Maputo Mozambique. During this time, she also was a contributor to the Lubombo Spatial Development Initiative (LSDI). Elsa Maria hopes to pursue an academic career as a biologist, focusing on surveillance and control programs of emerging infectious diseases in developing countries.



Eliana Almeida Gomes Reis

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Eliana Almeida Gomes Reis received her degree in Sociology from the Universidade Federal da Bahia (UFBA) in 1986 and her Ph.D. in cellular and molecular biology at the Fiocruz of Rio de Janeiro. A member of the Brazilian Society of Immunology since 1997, she has written on biochemical and immunologic predictors of efficacy of treatment or reinfection risk for *Schistosoma mansoni* and has participated in research projects on immune responses to schistosomiasis.



Federico Costa

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Federico Costa is currently Visiting Researcher at the CPqGM – Fiocruz of Salvador and at Yale University. A biologist from Argentina, he received his Bachelor's degree in 2003 from Rio Cuarto National University as part of an Ecology Study Group of Argentine Hemorrhagic Fever rodent reservoir. He moved to Patagonia in 2004 to conduct research on the distribution of hantavirus rodent reservoirs and risk of human infection. In 2007, he studied the ecology of *Aedes aegypti* mosquitoes and vector control strategies in Puerto Iguazú, Argentina. Federico completed his Master's degree in Pest Control and Environmental Impact at San Martin National University. Since 2007, he has been part of the leptospirosis group at the CPqGM in Salvador conducting a community-based cohort study on the natural history of leptospirosis and developing epidemiological tools to stratify risk for leptospirosis in urban settings. He obtained his PhD at CPqGM in 2010. His interests include the study of urban reservoirs ecology and infectious diseases in the developing world. Federico hopes to pursue future research in disease control programs.



Gabriela Villar

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Gabriela is currently a student in the Field Epidemiology Training Program (FETP – EPISUS) at the Department of Health Surveillance in the Brazilian Ministry of Health. Gabriela graduated from medical school at the Pontifícia Universidade Católica de São Paulo (PUC-SP), and did her residency in Preventive and Social Medicine at the Department of Social Medicine in the Faculty of Medical Sciences of the Santa Casa de São Paulo. Soon after, she received a Master’s of Science degree from the Department of Preventive Medicine of the Faculty of Medicine at the University of São Paulo. Before entering FETP – EPISUS, Gabriela worked for seven years at Santa Casa de São Paulo, a primary health care unit, developing epidemiological surveillance and educational activities for students and residents, and helped to establish the Center for AIDS/STD Testing and Counselling. Gabriela also worked at the primary health care unit at the University of São Paulo’s Faculty of Medicine, caring for patients with tuberculosis. Her current training includes disease surveillance, outbreaks investigation, and public health emergencies related to infectious diseases.



Geane Oliveira

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Geane lives in Recife, Pernambuco with her husband, Josemias, and three year-old daughter, Joanna. Geane majored in veterinary medicine and received a master degree in biochemistry at the Federal University of Pernambuco. As a student, her research was on a diagnostic test for visceral leishmaniasis. Geane has been working in the Pernambuco Health Secretary Laboratory on zoonosis diagnosis, primarily of leishmaniasis and plague for almost 20 years. She also worked for three years in the Public Health Laboratory Coordination office of the Brazilian Health Ministry. Geane is currently in the doctoral program at Centro de Pesquisas Ageu Magalhães – Fiocruz – Pernambuco. Her thesis includes a spatial analysis of plague in Pernambuco and a predictive model for plague reappearance. In this course, she is looking forward to learning from the experiences of colleagues and sharing her experience with them.



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Gilmar Ribeiro Júnior earned his undergraduate degree in Biology from the Universidade Católica do Salvador. He began working at the Centro de Pesquisas Gonçalo Moniz of the Fiocruz in Salvador in 2003 and is currently a technician in the pathology and molecular biology laboratory. At Fiocruz he is involved in projects focused on entomology, more specifically research on Chagas disease and dengue vectors. Gilmar has experience in molecular biology, with an emphasis on molecular entomology, focusing primarily on molecular diagnosis and genotyping of Chagas Disease vectors and genetic population of *Aedes aegypti*, the vector for dengue.



Guilherme de Sousa Ribeiro

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Guilherme Ribeiro is an Associate Professor of Epidemiology at the Institute of Collective Health of the Federal University of Bahia (UFBA) and a collaborating researcher at the Oswaldo Cruz Foundation (Fiocruz). His research focuses on infectious diseases that emerge from social inequalities and urbanization. Currently he is leading a field epidemiology team, which performs active surveillance for acute febrile illness and a prospective community-based cohort study on the natural history of leptospirosis. Dr. Ribeiro received his medical degree from the Universidade Federal da Bahia in 2002 and completed a residency program in infectious disease at the Federal University of São Paulo (UNIFESP) in 2006. He earned a Master's degree in Epidemiology from the Harvard School of Public Health in 2007 and a doctorate degree in Investigative Medicine from Fiocruz in 2008. While at Harvard, Dr. Ribeiro completed his graduate work at HSPH as part of the first cohort of Jorge Paulo Lemann Fellows.



Jackson Mauricio Lopes Costa

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Jackson Costa is a Senior Researcher at the Fundação Oswaldo Cruz (Fiocruz), full professor of human pathology for graduate students at the Universidade Federal da Bahia (UFBA), and an Associate Researcher at the Center for Tropical Pathology and Social Medicine of the Universidade Federal do Maranhão (UFMA). He is responsible for the successful creation of the reference center for the diagnosis and treatment of cutaneous leishmaniasis in Corte de Pedra and in the Jiquiriçá Valley in the state of Bahia and for the reference center for the diagnosis and treatment of leishmaniasis in São Luis do Maranhão. His primary research focus is on the clinical epidemiology of leishmaniasis (cutaneous and visceral; co-infection of leishmaniasis and HIV/Hansen); parasitological diagnosis, clinical trials for first and second choice drugs for leishmaniasis, alternative drugs for leishmaniasis, diagnosis and treatment of diseases caused by fungi (Cromoblastomycose) and other infectious and parasitic diseases. Jackson Costa earned his medical degree from the Universidade Federal do Maranhão (1979), holds a Master's in Tropical Medicine from the Universidade de Brasília (1986), and a Ph.D. in Infectious and Parasitic Diseases from the Universidade Federal de São Paulo-UNIFESP (1998).



James Maguire

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James Maguire is Professor of Medicine at Harvard Medical School and Senior Physician at Brigham and Women's Hospital in the Division of Infectious Disease. He lived in Bahia for almost four years (1978-81) working on Chagas disease in collaboration with colleagues at UFBA, Fiocruz, SUCAM, and HSPH. He returned to Harvard until 2001, when he became Chief of the Parasitic Diseases Branch at CDC in Atlanta, Georgia. Before returning to Harvard in 2008, he was director of International Health at the University of Maryland School of Medicine. His research for the past three decades has focused on epidemiology and clinical features of Chagas disease, leishmaniasis, malaria, toxoplasmosis and other parasitic diseases primarily in Brazil, Bangladesh, Thailand, Guatemala, Peru and Bolivia.



Jason Dyett

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Jason Dyett manages the activities and operations of the Brazil Office of the David Rockefeller Center for Latin American Studies (DRCLAS) at Harvard University serving as Program Director. He first moved to São Paulo in 1996, after two and a half years at the DRCLAS in Cambridge during the Center's launch. From 1997 to 2002, he established the Brazil office of the Economist Intelligence Unit's telecommunications research division and went on to gain experience growing technology companies backed by local and international investors. Jason rejoined DRCLAS from the Corporate Executive Board, a Washington, DC based organization that provides executive education to public and private companies. Since the creation the DRCLAS Brazil Office in 2006, he and the Brazil-based team have worked to develop and strengthen opportunities for Harvard student and faculty engagement with Brazil in close collaboration with the Brazil Studies Program at Harvard University. He has a Master of Business Administration (MBA) in Finance from the University of Chicago Graduate School of Business (2004) and graduated Phi Beta Kappa with a Bachelor's degree in Political Science and Spanish from the University of Vermont (1994).



Jennifer Ward

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Jenny graduated from the University of California Los Angeles with a B.S. in Environmental Science, with minors in Environmental Health Science and Urban and Regional Studies. Jenny has a background in biomedical research, and experience in environmental health consulting, primarily dealing in toxic tort litigation. Her research includes projects on environmental health and disaster preparedness in Thailand, and understanding the potential impacts of climate change on the geography and impact of malaria (in collaboration with the WHO, UNEP, and World Economic Forum in Switzerland). Jenny's areas of academic interest include the effects of climate change on infectious diseases particularly in developing nations, and spatial epidemiology. Additional interests include humanitarian aid to environmental refugees and disaster relief.



Jesse Heitner

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Jesse holds his BA from the University of California Berkeley where he studied biochemistry and political economy. He returned to his beloved alma mater for his masters in Public Policy, during which he focused on health and economic policy. He is now studying health economics at HSPH with a focus on the intersection of poverty and health in late developing countries. His interests include priority setting, bridging funding gaps, barriers to implementation, and the socioeconomic determinants of health. His work experience ranges from campaign fundraising to supervising a homeless shelter, and from biosecurity/bioterrorism research to many fond hours teaching economics to undergraduates. He plans to look up the Portuguese word for "vegan" sometime in the very near future.



Jethe Oliveira Filho

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Jethe is currently in the Master of Biochemistry program at the Universidade Federal do Rio Grande do Norte (UFRN). Born nearby in Natal, Jethe completed his undergraduate degree in biology from UFRN and now works in the medical entomology laboratory where he has gained field experience in endemic areas of leishmaniasis in Rio Grande do Norte. Jethe became very interested in public health after his first infectious disease field experience as a trainee at the Fundação Nacional de Saúde, Rio Grande do Norte in 2005, and later as part of a research group in a molecular biology lab of infectious diseases at UFRN. Currently, his focus is on epidemiological patterns and risk of exposure to infection by parasites of the genus Leishmania. Jethe hopes his work will contribute to the control of visceral leishmaniasis in northeastern Brazil.



João Carlos Pinto Dias

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João Carlos Pinto Dias, has an MD degree from USP, a Master's degree in Medicine from UFMG, and a doctoral degree in Tropical Medicine from Universidade Federal de Minas Gerais (UFMG). He was a full professor of Intern Medicine at UFMG, and since his retirement he's been working as a Senior Researcher of the Oswaldo Cruz Foundation, coordinating the Ethical Committee of the René Rachou Center, and coordinating the Tropical Diseases module of the post graduation course. He has served in many positions, including president of the Brazilian Society of Tropical Medicine (1987-9), Director of the Brazilian Program of Chagas Disease (1985-90), and president of the National Health Foundation (FUNASA-Ministry of Health, 1991-2). He has been a member of the WHO committee on parasitic diseases since 1998. Pinto Dias' has extensive experience with Chagas Disease (American Trypanosomiasis), particularly regarding Epidemiology, Control and Clinical Management of the disease. He has published more than 220 scientific articles, 54 book chapters, and edited 7 books on the subject.



John R. David

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John David has worked in Brazil for over 25 years primarily regarding the immunology of schistosomiasis and the diagnosis, control and treatment of leishmaniasis. His work on HIV/AIDS started in 1996 with the Programa de Colaboração Contra AIDS between the Ministério de Saúde/FIOCRUZ/Centro de Pesquisas Gonçalo Moniz and the HSPH. During the first year of the project, HSPH sent 200,000 condoms and helped organize their distribution during Carnaval using music groups and health posts. In the second year they sent 220,000 condoms and this activated the federal government in Brazil so that in the third year they sent 1 million condoms. Dr. David received his M.D from the University of Chicago. His research interests include the immunobiology of cytokines, development of methods to control schistosomiasis and leishmaniasis, and vaccines. His group produced recombinant migration inhibitory factor (rMIF), the first lymphokine discovered in the 1960s. His current studies are focused on understanding the functions of MIF in a MIF-deficient strain of mice that his team recently developed.



Karina Araújo Pinto

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Karina is currently an Assistant Professor at the Federal University of Bahia Nursing School (UFBA). In 1997, Karina earned her nursing degree from UFBA, then returned and completed her Master's degree at UFBA in 2005. She is now a second year student in the doctoral program of Epidemiology at the Institute of Collective Health at UFBA. A woman of many hats, Karina is additionally working on a collaborative Longitudinal Study of Adult Health – ELSA BRASIL, a multi-center study of the determinants of cardiovascular diseases and diabetes. Whether it is in her classroom, or in meetings with the undergraduate students she advises, Karina can present theory and practical examples of the social determinants of infectious diseases. Drawing from her work, Karina is intimately familiar with tuberculosis, hypertension and diabetes control programs at government-managed health care centers.



Laura Azevedo

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Laura Marques de Azevedo is currently in the first year of the residency in Infectious Disease in the Emilio Ribas Institute of Infectology. She was born in São Paulo and went to the country side to study medicine at the University of São Paulo in Ribeirão Preto. During graduation she participated in researches with new antiretroviral drugs on multifailed patients and went to an internship in France with traveler's diseases and immigrants. She plans on working in field with socially neglected communities specifically with HIV/AIDS patients and tropical diseases and she believes that the Collaborative Public Health Course will bring her more knowledge and skills to work in this area.



Luciana Lima

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Luciana is currently a Ph.D candidate in Demography at the Center of Development and Regional Planning (Cedeplar) at the Federal University of Minas Gerais (UFMG). She received a degree in Social Sciences at UFMG in 2006, and a year later began her Masters degree in Demography at Cedeplar. Her Master's dissertation focused on infant mortality differentials by mother's age in Brazil based on Demographic and Health Survey (DHS) data. Her work continues to focus on infant and child health. Luciana's Ph.D. dissertation is examining trends in socioeconomic inequalities in child mortality in Brazil between 1960 and 2010. She is interested in measuring socioeconomic inequalities in child mortality across time, regions and microregions. Part of her work investigates the impact of the most important cash transfer program in Brazil (Programa Bolsa Família) on child mortality rates and the spatial patterns of child mortality and associated factors. Beyond infant and child health, she is interested in quantitative methods for the social sciences, intimate partner violence and race/ethnicity studies.



Luciano Kalabric Silva

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Luciano Kalabric Silva earned his undergraduate degree in Biology from the Universidade Católica do Salvador (1993) and his Master's and Doctorate degrees in Human and Experimental Pathology from the Universidade Federal da Bahia (1998). Currently, he is a Public Health Technologist in the Pathology and Molecular Biology Laboratory at Fiocruz in Salvador, an Assistant Professor at the União Metropolitana de Educação e Cultura, and a Professor of graduate students in Biotechnology in Health and Investigative Medicine at the Fiocruz's Centro de Pesquisa Gonçalo Moniz in Salvador. Luciano has strong experience in biochemistry, with an emphasis on molecular biology, focusing primarily on molecular diagnosis and genotyping of hepatitis B and C and on *S. mansoni*. He completed post-doctorate work in genetic epidemiology at Case Western Reserve University (2005), where he developed studies to map human genes associated with susceptibility to severe cases of dengue and in patients with active hepatitis.



Marcelo Ramos

Executive Coordinator of the Institutional Program for Scientific Initiation at Gonçalo Moniz Research Center (CPqGM), Fiocruz

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Marcelo Ramos holds a degree in business administration from Federal University of Bahia (2004) and earned his Master's degree in Business Administration with focus on Integrated Management Systems at the University of Salvador (2010). He joined FIOCRUZ-Bahia in 2005 as part of a training project focused on research and management of science, technology and innovation in health. He holds the post of Executive Coordinator of the Institutional Program for Scientific Initiation at Fiocruz-Bahia and has experience in organizing scientific events, such as courses, symposium and seminars.



Marcia Castro

Assistant Professor of Demography,
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Marcia Castro's research addresses the challenges related to the introduction of large-scale colonization projects focused on agriculture and wide-ranging human settlement, as well as the construction of infrastructure, such as roads and dams in the Brazilian Amazon. She studies the patterns (spatial & temporal) and the determinants of malaria transmission the Brazilian Amazon and urban areas in Africa, using a multidisciplinary framework of analysis, and combining varied methodological approaches. Results of her research have contributed to stress the need for spatially targeted interventions for malaria control. They have also facilitated the design of alternative strategies of control, integrating social, economic, and ecological issues. In Brazil, she collaborates with researchers at the Federal University of Minas Gerais (UFMG), the Oswaldo Cruz Foundation (Fiocruz), several governmental health departments in Rondônia, and the Ministry of Health in Brasília. Professor Castro has a Ph.D. in Demography from Princeton University (2002), a Master's degree in Demography from Cedeplar/UFMG in Brazil (1997), and a Bachelor's of Science degree in Statistics from Universidade do Estado do Rio de Janeiro (Brazil).



**Maria Amélia de Sousa Mascenas
Veras**

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Maria Amélia de Sousa Mascenas Veras is an Assistant Professor in the Department of Social Medicine of the School of Medical Sciences of the Santa Casa de São Paulo and a Visiting Scientist in the Department of Global Health and Population at the Harvard School of Public Health in 2009-2010. Her research interests include the epidemiology, prevention and control of the HIV/AIDS epidemic, other sexually transmitted diseases and vaccine studies. She has received fellowships from the Fogarty International AIDS Training Program at the University of California, San Francisco (1998) and from the University of California, Berkeley (1999 -2001) to support her research and training. She received her medical degree from the Universidade Federal de Pernambuco, a Master's degree in Public Health from the University of California, Berkeley, and Master's and doctorate degrees in Preventive Medicine from the Universidade de São Paulo. She serves as a distance tutor for the London School of Hygiene & Tropical Medicine and is a member of the International Epidemiology Association.



Mariane Carvalho de Assis

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Mariane is currently a Master's student in Remote Sensing at the National Institute for Space Research (INPE) in São José dos Campos, in São Paulo state. Born in Lorena, she earned her bachelor's degree in Geography in 2008. During her undergraduate program, Mariane had her first taste of applying Geotechnologies to public health and enjoyed it. Her current work seeks to identify social and environmental causes of malaria in Lábrea, a county in Amazonas state, and understand its spatial distribution in order to provide information to AID disease control.



Marina de Moura

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Marina joined the Brazil Office of Harvard University's David Rockefeller Center for Latin American Studies in 2006. She is experienced in student advising, event organization and scholarship application administration. Among her responsibilities, Marina provides advice to Harvard students and helps organize and execute the Brazil Summer Internship Program, Public Policy Immersion Program and collaborative courses involving students from Brazil and from Harvard. Having completed her Master's degree in Social Psychology from the Pontifícia Universidade Católica de São Paulo in 2007, Marina is currently pursuing a Ph.D. at the Universidade Presbiteriana Mackenzie in Education, Arts and History of Culture.



Mary E. Wilson

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Mary E. Wilson is Associate Professor of Global Health and Population at the Harvard School of Public Health and Associate Clinical Professor of Medicine at the Harvard Medical School. Her academic interests include the ecology of infections and emergence of microbial threats, travel medicine, tuberculosis, and vaccines. She was Chief of Infectious Diseases at Mount Auburn Hospital, a Harvard-affiliated community teaching hospital in Cambridge, Massachusetts for more than 20 years. She has served on the Advisory Committee for Immunization Practices (ACIP) of the U.S. Centers for Disease Control and Prevention (CDC), the Academic Advisory Committee for the National Institute of Public Health in Mexico, and on four committees for the Institute of Medicine of the National Academies, including the Committee on Emerging Microbial Threats to Health in the 21st Century, whose report (Microbial Threats to Health: Emergence, Detection, and Response) was released in March 2003. She has worked in Haiti at the Albert Schweitzer Hospital. She serves as a Special Advisor to the GeoSentinel Surveillance Network, a global network and is an associate editor for Journal Watch Infectious Diseases. She is author of *A World Guide to Infections: Diseases, Distribution, Diagnosis* (Oxford University Press, New York, 1991) and senior editor, with Richard Levins and Andrew Spielman, of *Disease in Evolution: Global Changes and Emergence of Infectious Diseases* (New York Academy of Sciences, 1994).



Maurício Barreto

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Mauricio Barreto is a Professor of Epidemiology at Public Health Institute of Universidade Federal da Bahia. He is trained as a Physician, with a Master degree in Community Health, and a Ph.D in Epidemiology. His research focuses on epidemiological aspects of infectious diseases, malnutrition, assessing population impacts of interventions, and theoretical and methodological aspects of epidemiology. Since 1998 he is I-A researcher of CNPq, in 2003 was elected a Fellow of the Brazilian Academy of Sciences, and since 2002 he is the Latin America Director of the International Epidemiological Association. Also, he has participated in several advisory committees at the World Health Organization, and in Brazil he was a member of the Board of the Tuberculosis Control Programme (2003-6) and the Commission's Monitoring and Evaluation of the National Health Surveillance (since 2006). Since 2006, Barreto is a member of the Population and Public Health Funding Committee of the Wellcome Trust. In scientific publishing area, is currently Editorial Consultant of the Lancet (since 2006), Associate Editor of the Journal of Epidemiology (since 1997), Emerging Themes in Epidemiology (since 2003), and the Science & Public Health (2004-7). He is a member of the Editorial Board of Epidemiology and Health Services (since 1998), Brazilian Journal of Maternal and Child Health (since 1999), and Tropical Medicine & International Health (since 2000). Starting in March 2008, he became the editor in chief of the Journal of Epidemiology and Community Health.



Melina Érica Santos

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Melina is currently pursuing a Medical Residency Program in Social and Preventive Medicine at the University of São Paulo Medical School (USP). She received her Bachelor's degree in Medicine from Botucatu Medical School of São Paulo State University. Upon graduation, Melina worked for the Brazilian Navy in the Amazon offering primary health care and assistance to populations near the rivers in the Brazilian Amazon rainforest. Her current research and work interests social medicine and public health, specifically medical education, social realities, social and behavioral determinants of health, epidemiological surveillance, information in health services, health management and organization of health systems. Melina intends to work at the public health system, and study the intersections of surveillance, infectious diseases, and social conditions which have great importance in public health, especially in Brazil.



Mitermayer Galvão dos Reis

Director and Professor, Gonçalo
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Mitermayer Reis earned his medical degree from the Escola Bahiana de Medicina e Saúde Pública (EBMSP) in 1979 and his master's and doctorate degrees in human pathology from the UFBA in 1986 and 1993, respectively. His research has focused on schistosomiasis, hepatitis, leptospirosis, dengue, bacterial meningitis and diseases of the blood. Dr. Reis currently directs the molecular biology and pathology laboratory at Fiocruz in Salvador, Bahia and is Co-Director of the Ibero-American Program for the Development of Science and Technology (CYTED). In 1988-1989, he did post-doctoral work at the Harvard School of Public Health.



Naomar Almeida-Filho

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Naomar Almeida-Filho is a Professor of Epidemiology at the Institute of Collective Health of the Federal University of Bahia. He holds a medical degree and a Master's degree in Community Health from UFBA and a Ph.D in Epidemiology from the University of North Carolina, Chapel Hill (UNC). Dr. Almeida-Filho joined the faculty of the Medical School at UFBA in 1982, where he has taught epidemiology and research methods for twenty years. He is the founder and first dean of the Institute of Collective Health at UFBA and has been a visiting scholar in several North-American universities including UNC, University of California, Berkeley, University of Montréal and Harvard University. In the early 1980s, Professor Almeida-Filho introduced modern psychiatric epidemiology in Brazil by conducting pioneer epidemiologic surveys of neuropsychiatric disorders in the State of Bahia. Currently, his research interest has focused on the epidemiology of social inequality particularly the impact of socio-cultural processes (migration, poverty, urbanization, gender) upon behavioral and psychosomatic disorders, which include the first studies (outside Europe and the United States) of mental health correlates of race/racism. In parallel, he has written a series of textbooks on epidemiologic theory and methods. For his achievements as a researcher, Professor Almeida-Filho has been awarded, six times in a row, the top rank Senior Research Fellowship Award (Level 1-A) of the National Research Council of Brazil (CNPq). In 2003, he was honored by McGill University with a Doctor of Science Honoris Causa degree. Among the 15 scientific prizes he has been awarded are the Roche Prize for Research on Depression, the International Prize on Social Psychiatry, the Acta Prize of Social Psychiatry. From 2002 until 2010, he served as President (Reitor) of the Federal University of Bahia. In this role, he has also published studies on the university and its relation to society.



Onyinyechi Ukwuoma

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Onyinyechi obtained her medical degree from the University of Port Harcourt, Nigeria. She practiced medicine for five years in both public and private health care settings in Nigeria and served as a volunteer for local and international non-governmental organizations. Prior to coming to Harvard, she worked for Doctors without Borders in Nigeria. Her interests lie in reducing health care disparities and using cost efficient means to provide health care delivery of the highest quality.



Panji Hadisoemarto

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After graduating from the medical school, Panji worked for a couple of year as a field clinician for a U.S.-based infectious disease lab in Indonesia. His primary responsibility was to follow high-risk community clusters in an attempt to early identify and characterize the immunopathology of dengue infections. In addition, he was also involved in the thrilling experience of investigating first cases of human H5N1 in Indonesia. He is now a faculty in Padjadjaran University in his hometown of Bandung, Indonesia, and focuses his research more on the public health intervention in the prevention and control of dengue, particularly on the potential uses of vaccines. Before he came to HSPH, he received Fulbright scholarship to obtain his MPH from Georgia State University, Atlanta. In his leisure, he practice very hard in his mostly futile attempts to play classical guitar.



Paula Moraga-Serrano

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Paula is Spanish and received her degree in Mathematics and Statistics from the University of Valencia, Spain, in 2006. As an undergrad she spent two semesters studying at the Johannes Gutenberg-Universität Mainz, Germany, under the Erasmus programme. After graduating, she worked as a mathematician in a financial services firm developing algorithms to obtain efficient portfolios. In 2007 she began her doctoral studies in Statistics and obtained the Diploma of Advanced Studies in 2009. During this time she collaborated with the National Childhood Cancer Registry in Spain conducting studies on the spatio-temporal distribution of several cancers. In 2009/2010 she was a visiting fellow at the Harvard Medical School researching statistical methods for the estimation of geographic variations in disease temporal trends. Paula also worked on the early detection of infectious disease outbreaks in the Brigham and Women's Hospital in Boston. Paula is interested in disease surveillance and her research focuses on the development of new methodology for the spatio-temporal statistical analysis of health data and in particular clustered health data



Ramadhani Mwiru

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Rama was born and grew up in a small village in Singida, Central Tanzania. His background is in medicine - from University of Dar es Salaam, Tanzania and further received a Masters degree in Epidemiology from HSPH in which he graduated in 2006. He worked as a Fogarty-Ellison research fellow in clinical and global health, and as a coordinator of Prevention of Maternal-to-Child Transmission of HIV program with the Tanzania-Harvard partnership before coming to HSPH for a doctorate degree in nutritional epidemiology. His research interests are the relationship of nutrition and infectious diseases particularly HIV/AIDS, and maternal and child health.



Ramya Bokkolla Geya

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Ramya Bokkolla Geya is currently doing a master's degree in Preventive Medicine UNIFESP and MBA in health care management also at the Federal University of São Paulo (UNIFESP) and an additional third year residency on Family Medicine. Her research is about studying and comparing primary care in four different countries- Brasil, India, USA and UK. Recently worked with the Health Management and Research Institute (HMRI) that is responsible for the health care of the State of Andra Pradesh, India where she got the inspiration to compare the different types of health systems. She finished her residency in Family Medicine and Community at UNIFESP and was also awarded a scholarship by the Royal College of General Practitioners in the UK for her thesis project. Her main interests are preventive medicine, public health, primary care and international health. She earned her medical degree from PUC-Campinas and did internships at prestigious institutions in the United States, UK and India. Aggregates from childhood, knowledge of Ayurveda traditional Indian medicine.



Rebecca Havlir Martinez
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History, Science and Global Health,
and Health Policy, Harvard College

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Rebecca Martinez is a Californian and senior at Harvard College pursuing a degree in the History and Science, and Global Health and Health Policy. Her research interests are vast, but include public health messaging and the use technology to deliver higher quality, more patient centered care that is easily accessible within all communities. To this end, Becky interned at the World Health Organization with the TB/HIV working group to investigate strategies to reduce coinfection rates of Tuberculosis and HIV. Becky has also worked on a research team to determine the cost-effectiveness of a blood safety intervention as a tool to inform the implementation of this technology. She will be attending medical school next year. She is currently learning Portuguese and eager to delve into the research project with her colleagues.



Sandra Pirela
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Environmental Health, Harvard
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Venezuelan-born Sandra Pirela graduated Cum Laude from the City College of New York with a bachelor's degree in Biology and obtained her master's degree in Environmental Health sciences from New York University (NYU) in May 2010. She is currently pursuing a doctorate degree in Environmental Health Sciences at the Harvard School of Public Health. Sandra has maintained a focus in toxicology research throughout her undergraduate and graduate studies. While an undergraduate student at City College of New York, she had the opportunity to intern at the United States Geological Survey (USGS) under the supervision of USGS aquatic ecologist Dr. Karen Murray to study methyl mercury contamination in the northeastern Adirondack area. The following year she was an intern in Dr. Jeanine D'Armiento's laboratory at the Columbia University Medical Center (CUMC) studying the effects of cigarette smoke extract on diseases such as atherosclerosis and aneurysms. Her master thesis project at NYU was focused on the effects of resveratrol, a powerful antioxidant, on tumor parameters of male offspring prenatally exposed to cigarette smoke.



Tamiris Tatiane Dias

Master's degree in Biotechnology in Health and Investigative Medicine candidate with a concentration in Molecular Epidemiology and Investigative Medicine at the Gonçalo Moniz Research Center (CPqGM), Fiocruz

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Tamiris is in the first year of the Master's of Biotechnology in Health and Investigative Medicine program with a concentration in Molecular Epidemiology and Investigative Medicine at the Gonçalo Moniz Research Center, Fiocruz (Bahia). She was born in São Paulo, and moved just outside Salvador along with her family almost 11 years ago. Tamiris earned her undergraduate degree in Pharmacy from União Metropolitana de Educação e Cultura (Unime) in 2009. Since 2008, she has been working with hepatitis C when she joined the scientific initiation program at the Gonçalo Moniz Research Center, Fiocruz (Bahia) as a student. She is part of the hepatitis research team, working with its mother-to-child transmission. Her current research focuses on the host and viral factors that may contribute to the hepatitis C virus clearance. Tamiris is fluent in Portuguese and English, but also has knowledge of French, Japanese and Spanish. She is looking forward to meeting students with different backgrounds and points of view in January 2011.



Trevor Thompson

Bachelor's of Arts candidate in Environmental Science and Public Policy, Harvard College

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Trevor was born in Manhattan, New York and grew up in Marietta, Georgia. He is about to obtain his bachelor's degree in Environmental Science and Public Policy, a secondary in either Ethnic Studies or African American Studies, and a language citation in Spanish. Trevor recently completed an internship with the Stop Tuberculosis Department of the World Health Organization, and has a wide range of interests in social policy, environmental health, environmental justice, and climate change and its impacts on infectious diseases and marginalized groups.

EMERGENCY CONTACTS



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The local area code in Salvador is 71. If you call any local phone number you do not need to dial an area code.

International SOS: 0021-1-215-942-8226

Police (Polícia): 190

Fire (Bombeiros): 193

For international collect calls and operator-assisted calls from Brazil: 0800 703 21 21

The American Consular Agency

Salvador Trade Center, sala 1401, Torre Sul,

Avenida Tancredo Neves, 1632

Caminho das Árvores

41.820-020 Salvador, Bahia

Working Hours: 8:30AM - 11:30AM

Telephone numbers: (71) 3113-2090 / 3113-2091

Fax: (71)3113-2092

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Consular Agent: Heather Marques

The U.S. consulate in Salvador is open to the public from 8:30 AM to 11:30 AM, every morning, except for U.S. and Brazilian holidays. The American Consular Agent is a notary public for the U.S. and can provide notarial services as a power of attorney. Additional consular services are available such as renewal of U.S. passport. If a U.S. Citizen is a victim of crime in Brazil, please report it to the U.S. Consular Agent. There are now programs in the U.S. which offer financial compensation to victims of crime.

COURSE SCHEDULE

WEEK 1							
	<i>Salvador</i>	<i>Salvador</i>	<i>Salvador</i>	<i>Salvador</i>	<i>Salvador</i>	<i>Salvador</i>	<i>Jiquiriçá</i>
	Mon Jan 3	Tues Jan 4	Wed Jan 5	Thurs Jan 6	Fri Jan 7	Sat Jan 8	Sun Jan 9
8:45 am - 10:30 am		Lecture #1. Building Background: Introduction to Brazil and SUS (Naomar de Almeida Filho)	Lecture #3. Building tools: A. Data Sources & Analysis (Marcia Castro)	Lecture #5. Building tools: Human Rights Approach (Aluisio Segurado)	Lecture #7. Topic: Dengue (Mary Wilson)	Travel	Lecture #9. Topic: Schistosomiasis (John David and Mitermayer)
10:30 am - 11:00 pm (BREAK)							
11:00am - 12:45 pm		Lecture # 2. Topic: Nutrition (Mauricio Barreto) Followed by a 15 minute discussion with Maria Amelia Veras on patient participation	Lecture #4. Building tools: B. Dealing with Data (Marcia Castro)	Lecture # 6. Topic: HIV (Maria Amelia Veras)	Lecture #8. Topic: Leptospirosis (Guilherme Ribeiro)		Lecture #10. Topic: Leishmaniasis (Jackson Costa)
12:45 pm - 2:00 pm (LUNCH)							
2:00 pm - 2:30 pm		Travel time	Travel time	Travel time			Site Visit: Day trip to Ubaira
2:30 pm - 5:30 pm	4pm: Introduction at Fiocruz with faculty and students - Tour Fiocruz - Library, Labs	Group A: Couto Maia Hospital (HIV/AIDS) Group B: Pau da Lima (Lepto) Group C: Zoonotic control center (Dengue)	Group B: Couto Maia Hospital (HIV/AIDS) Group C: Pau da Lima (Lepto) Group A: Zoonotic control center (Dengue)	Group C: Couto Maia Hospital (HIV/AIDS) Group A: Pau da Lima (Lepto) Group B: Zoonotic control center (Dengue)	Discussion / Prep for travel / Intro. to projects / Lab hands-on	Site Visit: Jiquiriçá	Briefing session re: projects (all students)
Evening	Opening dinner - Restaurant TBA	Flexible time	Groups meet with monitors over pizza dinner at Fiocruz	Flexible time	Flexible time		
Notes							

WEEK 2							
	Mon Jan 10	Tues Jan 11	Wed Jan 12	Thurs Jan 13	Fri Jan 14	Sat Jan 15	Sun Jan 16
8:45 am - 2:00 pm	Some travel back to Salvador	Projects	Projects	Projects	Projects (or local presentations)	Local presentations	Optional Beach Trip
2:00 pm - 5:30 pm	Projects					Teams in Rural area travel back to Salvador	
Evening							
Notes							

WEEK 3					
	Mon Jan 17	Tues Jan 18	Wed Jan 19	Thurs Jan 20 - <u>Symposium: Chagas Disease and Malaria: the Brazilian experience</u>	
8:45 am - 10:00 am	Open session for discussion	Presentation 1	Course evaluations	9:00 am - 9:15 am	Introduction - Marcia Castro
10:00 am - 11:15 am		Presentation 2	Closing program	9:15 am - 9:45 am	Chagas 1: João Carlos Pinto Dias
11:15 am - 11:45 am (BREAK)				9:45 am - 10:15 am	Chagas 2: Jamie Maguire
11:45 am - 1:00 pm	Finalize presentations	Presentation 3	Conclusion of written version of projects	10:15 am - 11:00 am	Discussion
1:00 pm - 2:00 pm (LUNCH)				11:00 am - 11:30 am	Break
2:00 pm - 3:30 pm	Finalize presentations	Presentation 4	Conclusion of written version of projects	11:30 am - 12 noon	Malaria 1: Marcia Castro
3:30 pm - 5:00 pm		Presentation 5		12 noon - 12:30 pm	Malaria 2: Ana Carolina Santelli
Evening	Flexible time	Fiocruz Party	Flexible time	12:30 pm - 1:15 pm	Discussion
Notes				1:15 pm - 1:30 pm	Conclusion