

CURRICULUM VITAE
January 2012

Name: Roger I. Glass, M.D., Ph.D.

Married: Barbara J. Stoll, M.D.

Children: Nina Elizabeth Glass
Michael Gregory Glass
Andrew G.B. Glass

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Present Position: Associate Director for International Research and
June 2006 to Present Director, Fogarty International Center
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1986-2006 Chief, Viral Gastroenteritis Section
Respiratory and Enterovirus Branch
Division of Viral and Rickettsial Diseases
National Center for Infectious Diseases
Centers for Disease Control & Prevention (CDC)
Atlanta, Georgia 30333

1996-2006 Clinical Professor
Division of Infectious Diseases
Department of Pediatrics
Emory University School of Medicine
Atlanta, Georgia 30322

1986-1996 Clinical Associate Professor
Division of Infectious Diseases
Department of Pediatrics
Emory University School of Medicine
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1991-2006

Adjunct Professor
Division of International Health
Rollins School of Public Health
Emory University
Atlanta, Georgia 30322

Education:

1963 Graduated from The Lawrenceville School, Lawrenceville, NJ
1963-67 Harvard College, (magna cum laude A.B.), Cambridge, MA
1967-68 Fulbright Fellowship, Argentina-Brazil (University of Buenos Aires)
1968-72 Harvard Medical School, (M.D.), Boston, MA
1970-72 Harvard School of Public Health, (M.P.H.), Boston, MA
1972-73 Internship: Cambridge Hospital (Harvard Medical School), Cambridge, MA
1974-76 Resident in Internal Medicine - Mount Sinai Hospital, New York, NY
1984 University of Goteborg, Goteborg, Sweden, (Ph.D.) Prof. Jan Holmgren

Board Certification:

1976 American Board of Internal Medicine
1977 American Board of Preventive Medicine
1983 American Board of Epidemiology

Medical Licenses:

Georgia, New York, New Jersey, Maryland

Hospital Privileges 1986-2006:

Grady Memorial Hospital, Emory University School of Medicine, Atlanta, Georgia

Languages:

French, Spanish, Russian, Portuguese, Bengali

Brief Chronology of Employment:

1970-73 Resident Tutor, Department of History of Science, Harvard University.
1972-73 Intern, the Cambridge Hospital, Cambridge, Massachusetts.
1973-74 Special Assistant to the Director, National Institute of Environmental Health Sciences (Dr. David P. Rall). Assigned to the Institute of General and Communal Hygiene, Moscow (6 months).
1974 Lecturer in Medicine, Regius Department of Medicine, Radcliffe Infirmary, Oxford. Sir Richard Doll and Prof. Martin Vessey (6 months).
1974-76 Resident, Internal Medicine, Mt. Sinai School of Medicine, New York, New York.
1976-77 Instructor, Department of Medicine, Mount Sinai School of Medicine, New York, New York. Epidemiology Fellow with Dr. Thomas C. Chalmers.
1977-79 Medical Officer, Environmental Hazards Branch. Centers for Disease Control, Atlanta, Georgia, with Dr. Phil Landrigan.
1979-83 Scientist, International Center for Diarrheal Disease Research, Bangladesh, on assignment from the Enteric Disease Branch, Bacterial Diseases Division, CDC, Atlanta, Georgia. Dr. W. B. Greenough, Director.

- 1983 Visiting Scientist, Institute of Medical Microbiology, University of Göteborg, Sweden. Prof. Jan Holmgren (8 months).
- 1983-86 Medical Officer, Epidemiology Section, Laboratory of Infectious Diseases, NIAID, NIH, Bethesda, Maryland. Dr. A. Z. Kapikian.
- 1986 Chief, Viral Gastroenteritis Unit, Centers for Disease Control, Atlanta, Georgia.
- 1986 Clinical Associate Professor, Department of Pediatrics, Division of Infectious Diseases, Emory University School of Medicine, Atlanta, Georgia. Dr. Andre Nahmias.
- 1991 Adjunct Professor, Division of International Health, Emory University School of Public Health, Atlanta, Georgia. Dr. Glen Maberly.
- 1995-6 Sabbatical leave: Vaccine Research and Development Unit, Global Programme on Vaccines and Immunizations, World Health Organization, Geneva. Dr. J. W. Lee, Dr. Bernard Ivanoff and Dr. Paul Henri Lambert.

Military Service:

- 1977-2006 U.S. Public Health Service, Medical Director (0-6)

Societies:

- American Epidemiological Society
- American Society for Virology
- American College of Epidemiology - Fellow
- Society for Epidemiologic Research
- Infectious Disease Society - Fellow
- American Association for Advancement of Science
- American Society of Microbiology
- American Academy of Microbiology
- American Association of Physicians

Honors and Other Special Scientific Recognition:

- 1967-68 Fullbright Fellowship, University of Buenos Aires, Argentina.
- 1976 Chief of Medicine, Research Award, Mt. Sinai Hospital
- 1980 Alexander D. Langmuir Prize, CDC
- 1983 William Jump Award, Department of Health and Human Services
- 1988 Commendation Medal, U.S. Public Health Service
- 1994 James H. Nakano Citation, National Center for Infectious Diseases
- 1994 Outstanding Service Medal, U.S. Public Health Service
- 1996 Outstanding Unit Citation, National Center for Infectious Diseases
- 1998 Children’s Vaccine Initiative, Geneva- Pasteur Award for Recent Contributions to Vaccine Development—Rotavirus Vaccine
- 2000 Secretary’s Award for Distinguished Service (DHHS)
- 2003 Membership, Institute of Medicine, US National Academy of Science
- 2007 Charles Shepard Lifetime Scientific Achievement Award
- 2007 Charles Merieux Award, National Foundation for Infectious Diseases

Editorial Boards:

- Board of Reviewing Editors, Science, 1985-2000
- Lancet Infectious Diseases (UK)
- Journal of Diarrheal Disease Research (Bangladesh), 1983-present
- Revista de Saude Publica (Brazil), 1991-2005

Journal of Medical Virology, 1994-present
Salud Publica (Mexico), 1996-2005
Virology (Brazil), 1996-2005
Virus Reviews and Research

Special Projects:

1972-78 Work with the US-USSR Joint Committee on Environmental Health Research
1973-74 Sysin Institute for General and Communal Hygiene, Moscow (5 months)
1976 Institute of Nutrition for Central America and Panama (INCAP) Research on the health consequences of natural disasters (Dr. J.J. Urrutia) (2 months)
1978 Evaluation of the famine in Zaire, (C.D.C.) 2 months
1979 Health surveillance for Cambodian refugees arriving in Thailand, International Committee of the Red Cross (ICRC) (2 months)
1982 Control of cholera in Aceh Province, Indonesia (2 months)
1991 Epidemiological Evaluation of the effects of the cyclone in Bangladesh, UNICEF
1992 Survey- Humanitarian assistance in the Newly Independent States of the former USSR, USAID/ Department of State
2001-2007 Bioterrorism Engagement Program – Studies in Russia with former bioweaponers

Consultancies:

1988-90 Member of the Scientific Working Group on Microbiology, Immunology, and Vaccine Development, Diarrheal Disease Control Program, World Health Organization
1988-91 Member of the Technical Advisory Group, Applied Diarrheal Disease Research Project, Harvard Institute for International Development, Cambridge, Massachusetts
1991-1993 Member Scientific Working Group on Enteric Vaccines, Global Programme for Vaccines, World Health Organization
1996-2007 Member, Steering Committee on Diarrheal Disease Vaccines, Global Programme on Vaccines, World Health Organization
1998-2003 Technical Advisor, Bill and Melinda Gates Children's Vaccine Program
2000-2002 Technical Advisor, Global Alliance on Vaccines and Immunizations
2001-2005 Member, Scientific Committee, Foundation Merieux, Lyon France
2001-2006 Senior Associate, Department of International Health, Johns Hopkins University Bloomberg School of Public Health
2002-2006 Adjunct Professor, Yerkes Primate Center, Emory University, Atlanta.
2000-2005 Head, Steering Committee on Cholera Vaccines, International Vaccine Institute, Seoul, Korea (Dr. John Clemens, Director)
2006-present Member, Advisory Board, International Vaccine Institute, Seoul, Korea
2006-present Member, Technical Advisory Group, Pan American Health Organization
2007-present Member, WHO Advisory Committee on Health Research
2007-present NIH Special Volunteer, Laboratory of Infectious Diseases, NIAID

Consultant for the World Health Organization, National Institutes of Health, U.S. Agency for International Development, Pan American Health Organization, International Committee for the Red Cross, Harvard Institute for International Development, The Carter Center-Global 2000, UNICEF; Global Alliance for Vaccines and Immunizations. Foundation Merieux.

Program reviewer for NIAID, NICHD, visiting professor and speaker at many institutions.

Patents:

Astrovirus sequence and its application for use in diagnostics and vaccines (1993-CDC)
Neonatal rotavirus strain 116E for use as a rotavirus vaccine (1994-CDC)

Research Areas:

Epidemiology of infections, enteric diseases, cholera, rotavirus, and viral agents of gastroenteritis.
Vaccinology and new vaccine development and testing;
Assessment of the disease burden of enteric infections;
Virology and viral diagnostics;
Food- and water-borne diseases and their control
Global Health

Current Research Support:

- 1. Senior Scientist, Rotavirus Vaccine Project at PATH: 2002-2006**
Program developed by the Global Alliance for Vaccines and Immunization to accelerate the development and introduction of rotavirus vaccines in the developing world. Provide scientific advice and direction to a \$30 million program to support rotavirus surveillance in target countries, assist in the development of research and communications agendas to promote activities related to rotavirus vaccine introduction.
- 2. Development of a neonatal rotavirus vaccine in India: 2001-present**
Coordinator of a project to develop a rotavirus vaccine in India using strains developed as a collaboration with the All India Institute of Medical Sciences, New Delhi (Prof. M.K. Bhan) and supported by the Children's Vaccine Program at PATH, Seattle, NIAID, WHO, CDC - Foundation and the Indian Government
- 3. Asian Rotavirus Surveillance Network: 1999-2006**
Co-PI on project to establish the disease burden and epidemiology of rotavirus in 9 countries of Asia as a collaboration between WHO, the Children's Vaccine Program (PATH), CDC-Foundation, Merck and Glaxo-Smith Kline.
- 4. Cooperative Research and Development Program, CDC- Yerkes Primate Center, Aventis Pasteur; 1999-2005**
Research effort to develop new strategies to vaccinate against rotavirus and development of a primate model of immunization and challenge.
- 5. Bioterrorism Engagement Program- with Bioweaponers in the former Soviet Union 2003-2008**
Program to engage former Russian scientists involved in bioweapons research with research projects with pathogens of public health importance.

Multiple CDC sponsored projects on Foodborne Disease, Opportunistic infections, new pathogen discovery, development of new diagnostics for enteric viral infections.

Invited Lectures and Presentations

2011

- Dec 16-21 International Vaccine Institute (IVI) Administrative Committee Meeting. Seoul, Korea.
- Dec 3-6 Attended "Advances in Healthcare through Affordable Technologies: A US-India Grand Challenge" with Dr. Collins. Delhi, India.
- Nov 29 Participated in the board meeting for the "Global Alliance for Chronic Disease" (GACD). Canberra, Australia.
- Nov 18 Scientific Symposium Open University of Skolkovo Polytech Museum Panel Discussion "Career Development and the Role of Scientific Societies". Moscow, Russia.
- Nov 16 Welcoming remarks at the US - Russia Scientific Forum Meeting. Moscow, Russia.
- Nov 12-14 Presentation at the 2011 Global Health Conference titled "US NIH's Roles, Activities, and Plans in Global Health Research". Montreal, Canada.
- Sep 14-16 "Rotavirus Vaccines: Studies in Developing Countries" at the Vaccines for Enteric Diseases symposium (VED). Cannes, France.
- Sep 8-10 Transforming Global Health Education Globally: Four Years After. San Francisco.
- Aug 15-18 ROTA Council Meeting. London, England.
- July 4-11 Attended technical advisory group of the PAHO for vaccines. Buenos Aires, Argentina.
- June 21-24 2011 Pacific Health Summit. Seattle, Washington.
- June 6-7 Global Health Symposium at Baylor College of Medicine, "Global Health in the 21st Century". Houston, TX.
- May 30- June 1 Presentation at Research Day at University of Toronto, "John Snow revisited: The Elimination of Rotavirus in the US". Toronto, Canada.
- April 16-19 Vaccine Development Committee of the Bharat Biotech International Ltd rotavirus development project (BBIL VDC). Delhi, India.
- April 14-15 Building Institutions Through Equitable Partnerships in Global Health, panelist for "Evaluating Partnerships" with Drs. Charles Mgone, Imedlga Bates, Ritsuko Kakuma. London, England.
- April 10-13 2nd European Expert Meeting on Rotavirus Vaccination, presented "Do we need other live oral rotavirus vaccines?". Padova, Italy.
- March 9-11 MEPI meeting finishes on 3/10. Johannesburg, South Africa.
- March 8-9 Site visit in Durban with Dr. Collins. Durban, South Africa.
- March 6-8 MEPI meeting. Johannesburg, South Africa.
- Feb 28- March 6 H3African, African Society of Human Genetics. Cape Town, South Africa.
- Feb 25-28 Official meeting with Russian delegate. Atlanta.
- Feb 22-23 Presented at the University of Pennsylvania, School of Nursing on the topic of working in the global health field. Philadelphia.
- Jan 3- Feb 3 Panelist on the International Advisory Panel to the National Rural Health Mission (NRHM). Delhi, India.
- Jan 25-29 Prince Mahidol Award Conference. Bangkok, Thailand.
- Jan 22-24 Advisory Board Member for IVI. Seoul, Korea.
- Jan 17-18 Grand Rounds Presentation at Montefiore Medical Center. New York.

2010

- Nov 30-Dec 1 "Health Professionals for a New Century: Transforming Education to Strengthen Health Systems in an Interdependent World", panel titled "Strategies for Dissemination" with Drs. Fineberg, Dayrit, Thibault, Mogedal, Pablos-Mendez. Boston.
- Nov 22-24 Institut Pasteur International Network Meeting, presented "Global Health Research Collaborations: Lessons from the Fogarty International Center". Hong Kong.
- Nov 17-21 Field visit to Thai Binh city and discussion on vaccine trials. Vietnam.
- Nov 13 Presented at Emory about Global Health. Atlanta, Georgia.

Nov 3-4 Site visit for vaccine development. Pune, India.

Oct 29- Nov 2 Provided welcoming and closing remarks (with Katoch, Bhan, Chandramouli and Whitescarver) at the Meeting on Prevention of Sexually Transmitted Diseases and HIV/AIDS. Delhi, India.

Oct 24-26 Columbia University, presented "The Changing Landscape of Global Public Health". New York, NY, USA.

Oct 15-18 GACD Scientific Meeting, presented "Some thoughts on Research in Implementation Science". Beijing, China.

Oct 11-14 Hypertension Meeting. Beijing, China.

Oct 1-2 2010 Lasker Awards. New York, NY, USA.

Sep 19-22 "Transforming Global Health: The Interdisciplinary Power of Universities" (CUGH), presented during session 0T4: "FIC: Responding to the Global Health Challenge" and was a panelist for: "Mobilizing Resources for Global Health and Connecting with the Academic Sector". Seattle, WA.

Sep 16-18 Ministerial Working Group Meeting, the 2nd Meeting of the NCDnet International Advisory Council. New York, NY, USA.

Aug 19-23 ARVAC VDC Meeting (PATH, SAR), provided the welcoming remarks and presented "Update from Partners" (representing NIH/CDC). Pune, India.

Aug 14-18 Vaccine Microbiome Meeting, provided keynote lecture before the opening dinner and chaired "Setting the stage: What is the problem with oral enteric vaccines for children in low income countries?". Goa, India.

Aug 4-8 Met with the CDC country director. Swaziland.

Jul 28- Aug 4 9th International Rotavirus Symposium, presented "A Celebration of Rotavirus - Highlights in the Field". Johannesburg, South Africa.

Jul 24-28 Meetings at the University of Cape Town and a speaker at WITS School of Public Health. Cape Town, South Africa.

Jun 30- Jul 2 Diabetes Summit in Latin America, featured speaker at the inaugural ceremony and speaker on the topic of "Building Research Partnerships". Salvador, Brazil.

June 27-29 Infection and Immunity in Children (IIC), gave two presentations: "Norovirus and other causes of viral gastroenteritis in children: do they matter?" and "Rotavirus Vaccine and Rehydration: Job Done?" at Keble College in Oxford. Oxford, England.

June 21-26 Pacific Health Summit Conference. London, England.

June 2-3 PATH meeting, presented with Baoming Jiang on Inactivated Rotavirus Vaccines. Seattle, WA, USA.

May 14 Seminar on Human Security and Health (organized by JCIE), roundtable discussion on health and human security at the Institute of International Education. New York, NY, USA.

May 12-13 GH Symposium Celebratory Dinner and New Directions for Global Health Research Meeting. Cambridge, MA, USA.

May 11 Visited the University of Pittsburgh. Pittsburgh, PA, USA.

April 30- May 5 Pediatric Academic Societies (PAS 2010), gave the keynote address: "Implementation Science: Putting Knowledge into Action" and a 2 hour presentation titled "Addressing Vaccine-Preventable Diseases in the Developing World". Vancouver, Canada.

April 29-30 IHME Scientific Oversight Group (SOG). Seattle, WA, USA.

April 26-27 2nd Symposium on Vaccine Science, presented "Rotavirus Vaccines", following the theme of the symposium, "Replicating Vaccines: A New Generation". Cambridge, MA, USA.

April 18-21 Gates Foundation Enteric Meeting. Seattle, WA, USA.

April 8-12 GHEC Conference/Latin American Caribbean Meeting, moderated Plenary Panel V: "Interdisciplinary Approaches to Global Health Education - Beyond the Traditional Medical Model". Cuernavaca, Mexico.

March 30- April 2 SGM Spring Conference (Rotavirus and other enteric viruses, speaker). Edinburgh, Scotland.

March 7-11 Speaker at the Norwegian Institute of Public Health. Oslo, Norway.

March 1-3 Global Public Health Conference. New York, NY, USA.

Feb 9-10 Morehouse College and CDC, presented "Global Health in the 21st Century: A View from Fogarty" at the 22nd Annual Curtis L. Parker Student Research Symposium at Morehouse School of Medicine. Atlanta, Georgia.

- Jan 31-Feb 6 Earth Institute - on the International Advisory Panel (IAP) to the Ministry of Health regarding NRHM of India. Delhi, India.
- Jan 21-23 CDC Site Visit . Shanghai, China.
- Jan 18-20 CDC Site Visit . Hefei, China.
- Jan 15-17 CDC - Rotavirus Consultation. Beijing, China.

2009

- Dec 2-5 IVI Joint Seminar and FAC. Madrid, Spain.
- Nov 29-Dec 1 HIV Prevention workshop. Moscow, Russia.
- Nov 11-15 WHO PAHO & ACHR Joint meeting. Panama City, Panama.
- Nov 7-10 Enabling a Future of Personalized Medicine Cancer Medicine: Leveraging 30 Years of China-US Scientific Progress . Beijing, China.
- Nov 6-7 RVDP SAR Meeting. Chennai, India.
- Nov 2-5 Global Alliance for Chronic Disease (GACD) Meeting . New Delhi, India.
- Oct 4-10 African Institutions Initiative Launch Workshop (Wellcome Trust); chaired panel discussion on institutional strengthening with CARTA, IIDP, SNOWS, SACIDS. Arusha, Tanzania.
- Sep 11-13 Interscience Conference on Antimicrobial Agents and Chemotherapy , presented "Vaccine for Global Health". San Francisco, CA.
- Sep 7-11 5th Annual Vaccines for Enteric Diseases Conference, presented "Alternative Vaccine Approaches to prevent Rotavirus diarrhea among children in poor developing countries". Malaga, Spain.
- Aug 12-15 Visited PEPFAR people in Pretoria. Pretoria, South Africa.
- Aug 9-12 The Disease Control Priorities Project: crafting a South Africa specific strategy. Johannesburg, South Africa.
- June 26 dsRNA Symposium in Hamilton Island. Sydney, Australia
- June 19-20 Israel Symposium on Rotavirus. Tel Aviv, ISR.
- June 3-4 Accompanied the US-Norway delegation to the Barrow Arctic Research Consortium. Barrow, AK.
- June 2-3 Behavioral and Mental Health in the Circumpolar Arctic: USG Strategy Planning Meeting. Anchorage, AK.
- May 11-12 Recipient of the Arthur W. Ludwig Memorial Lectureship in Humanism in Medicine Award and completed grand rounds at Mount Sinai Hospital. New York, NY.
- May 11 Grand Rounds presentation at Mount Sinai Medical Center. New York.
- April 30 Downs Syndrome Symposium at Yale University. New Haven, CT.
- April 17-20 Doris Duke Charitable Foundation's African Health Initiative Advisory Council Dinner and Foundation meeting. New York, NY.
- March 29-2009 Board of Trustees Meeting, International Vaccine Institute (IVI), Special Symposium: The Scientific Advisory Group Facilities Committee (SAG). Bangkok, Thailand.
- April 6 Boston Universities Public Health Grand Rounds. Boston.
- March 11 MVP Health Sector Retreat at Columbia University. New York, NY.
- March 3 MVP Health Sector Retreat at Columbia University. New York, NY.
- Feb 10-12 Mucosal Immunology of the Gut Conference. Seattle.

2008

- Nov 20-21 University of Cambridge, presented as part of the Gates distinguished lecture series. Cambridge, England.
- Nov 16-19 2008 Bamako Global Ministerial Forum on Research for Health, head of the official US delegation and panelist for "Implementations and Operations Research". Bamako, Mali.
- Oct 7-10 50th session global advisory committee on health research (WHO). Geneva, Switzerland.
- Oct 5-7 Global Health Expert Delegation to the UK to develop new strategies and partnerships between UK and US global health experts. London, England.
- Sep 10-12 Global Enteric Multi-Center Study (GEMS). Seattle, Washington.
- Sep 1-2 Award presented at Brown University. Providence, Rhode Island.
- Aug 25-28 WHO meeting on Prioritized Research Agenda for Prevention and Control of Noncommunicable Diseases. Geneva, Switzerland.
- Aug 1-3 FIC hosted a meeting prior to the AIDS 2008 meeting to highlight the capacity building efforts for

- research through the AIDS International Training and Research Program (AITRP). Mexico City, Mexico.
- July 26-29 Review of Population Health Implementation & Training planning grant proposals for the Doris Duke Charitable Foundation African Health Initiative (DDCFahi). Johannesburg, South Africa.
- July 19-25 Health Informatics and eHealth Capacity Building Conference. Milan, Italy.
- June 18-19 Presented at the 13th ICID conference (International Society for Infectious Diseases) on Infectious Diarrhea and Enteric Fever. Kuala Lumpur, Malaysia.
- June 17 2008 Pacific Health Summit Conference. Seattle, Washington.
- June 1-5 Keynote speaker at the 8th International Rotavirus Symposium. Istanbul, Turkey.
- May 26-29 49th Session of ACHR (Advisory Committee on Health Research). Geneva, Switzerland.
- May 20-23 2008 9th Advanced Vaccinology Course (ADVAC), presented "Vaccine Development as an interactive process: the example of Rotavirus". Annecy, France.
- May 16-19 Keynote speaker at the Emory Pediatrics Global Health Week. Atlanta, Georgia.
- May 1-2 NIEHS Frontiers in Environmental Science Series. Raleigh, NC.
- April 27 American Society Clinical Investigations and American Academy of Pediatrics conference. Chicago, IL.
- April 25 World Malaria Day Meeting. New York, New York.
- April 1-5 Annual International Vaccine Institute (IVI) Meeting, presented "Vaccine for the 21st Century". Seoul, Korea.
- March 29- April 1 Reviewed the results of the Rotavirus Surveillance project. Hanoi, Vietnam.
- March 26 Climate Knowledge for Global Health at Columbia's Campus. New York, New York.
- March 21-24 Presented at the Symposium on "Considering the Prevention of Birth Defects & Infections". New York, New York.
- Feb 21-23 Novartis Vaccines Institute for Global Health's Symposium. Siena, Italy.
- Jan 16-17 Doris Duke Charitable Foundation's African Health Initiative, Stage 1 Review Panel. New York, New York.

2007

- Dec 12-14 PHRI Symposium at NY Academy of Sciences, talk encompassing the new and emerging vaccines. New York, New York.
- Nov 27-30 Moderator for WHO Meeting: Rotavirus Vaccines. Atlanta, GA.
- Nov 19-21 48th WHO Global Advisory Committee on Health Research. Manila, Philippines.
- Nov 13-15 Monitoring and Evaluation Framework meetings for the African Health Initiative, part of the Doris Duke Charitable Foundation. Seattle, Washington.
- Nov 9-13 3rd International Caliciviruses Conference, Scientific Program Committee Member. Cancun, Mexico.
- Nov 6-7 Multilateral Initiative on Malaria Strategic Advisory Board Meeting to discuss FICs directions in the advancement of Malaria research. Philadelphia, PA.
- Oct 18-19 DZau Global Health Grand Rounds in Brigham & Women's Hospital. Boston, MA.
- Oct 7-9 Meeting with the President of the Chinese Medical Board & others. Beijing, China.
- Sept 23-26 UCSF's Global Health Meeting, presented "Innovative Approaches in Policy & Financing for Global Health Sustainability & Human Capacity Development". San Francisco.
- Sept 13-17 25th Anniversary meeting, American College of Epidemiology, presented "Global Burden of Disease". Ft. Lauderdale.
- Aug 18-29 Accompanied Secretary of HHS throughout Africa. Africa: Johannesburg, Durban, Maputo, Dar es Salaam, Zanzibar, Kigali, Nairobi.
- July 27-Aug 1 Indian Council of Medical Research meeting to discuss US-India research collaborations. New Delhi, India.
- July 25-27 Attended semi-annual meeting of the Rotavirus Project. Hyderabad, India.
- June 12-15 8th Infectiology National Days in Dijon France, spoke during Viral Gastroenteritis Session. Dijon, France.
- June 6-7 Presented at a seminar at Massachusetts General Hospital on Mucosal Immunology. Boston, MA.
- June 3-5 Meeting with Doris Duke Charitable Foundation. Manhattan, NY.

May 30 UCSH Global Health Services luncheon panel on health diplomacy. Washington, D.C..
 May 24-26 Hosted by Harvard University, Boston Univ and Northwestern Univ speaker at the "Values and Moral Experiences in Global Health workshop". Boston, MA.
 May 23 Monclair University's Medical Broadcasting Channel (MMC), presentation titled "Plain Talk about Health, Tomorrow's Medicine Today". Newark, NJ.
 April 23-29 4th International Vaccine for Enteric Diseases On Science Advisory Panel (IVI) (moderator and gave closing remarks). Lisbon, Portugal.
 April 17-18 1st Annual Global Health Symposium at Rice University, presented "Integrated Technology Solutions to Advance Global Health". Houston, TX.
 April 11-12 Presented at the Global Health Seminar at Duke University . Duke University, NC.
 March 27 University of Georgia Lecture on Global Health. Atlanta, GA.
 March 14 Met with CEO of the Google Foundation to discuss global collaboration. Mountain View, CA.
 March 11-13 Global Health Diplomacy Conference. San Diego, CA.
 March 6-8 Served as Federal Liaison at the IVI Board of Trustees Meeting. Kolkata, India.
 March 4-5 Collaborative vaccine research meeting. Bangkok, Thailand.
 March 2-3 Served as the Federal Liaison on the IVI Scientific Advisory Group . Seoul, Korea.
 Jan 19-20 1st Annual Investigators Meeting for Rotavirus Vaccine Program (RVP); overview RotaTeq protocol, provide protocol-specific training. London, England.

2006

Nov 16-17 Vanderbilt University gave Infectious Diseases Seminar. Nashville, TN.
 Nov 2 NFID Vaccinology Course, presented "Rotavirus Vaccines". Atlanta, GA.
 Oct 19-20 Leadership Symposium: Championing the Role of Collaboration in Global Health. Atlanta, GA.
 Oct 18 ADVAC Scientific Committee at University of Penn. Philadelphia, PA.
 Oct 11-13 Harvard, Global Burden of Disease: 10th Anniversary Symposium. Cambridge, MA.
 Sept 24-28 Indo-US Vaccine Action Program Workshop (JWG Collaboration). New Delhi, India.
 Aug 16-21 Provided keynote address at 2nd Smogen Summer Symposium on Virology. Gothenborg, Sweden.
 Aug 11-13 Google sponsored "Science Foo Camp" (special invitation conference for people interested in science and computing). Mountain View, CA.
 Aug 7-8 "The Role of Private Foundations in the Global Health Fight", Council on Foreign Relations. Manhattan, NY.
 July 20-21 Pediatric Society of Thailand 2006 Vaccinology Conference, presented "Overview of Rotavirus Vaccine: An Effective Way to Prevent". Pattaya, Thailand.
 July 17-19 Asian Rotavirus Surveillance Network Meeting, gave opening remarks and moderated Session 1: "Review of progress from members of ARSN". Pattaya, Thailand.
 July 5-7 Foundation Merieux meeting "Les Pensieres", presented "Interference Issues in Vaccination with Multivalent Live Attenuated Viral Vaccines: Myths and Realities". Veyrier du Lac, France.
 June 12-13 7th International Symposium on Rotavirus, presented "The Need for Rotavirus Vaccines". Lisbon, Portugal.
 March 28-30 World Health Organization (WHO) meeting on Rotavirus Vaccination Development Upstream Candidates and the Role of Emerging Vaccine Producers. Geneva, Switzerland.
 March 23-24 World Health Organization (WHO) meeting on Economic Burden of Rotavirus Disease and the Cost Effectiveness of Rotavirus Vaccination. Geneva, Switzerland.
 March 22 PATH Rotavirus Vaccine Program Technical Review and Advisory Committee (TRAC) meeting. Ferney, France
 March 9-10 Meet with Dr. Robert Breiman, Director CDC Kenya Office, and other potential Investigators to assess the capacity of the site for conducting clinical trials for rotavirus vaccine. Kisumu, Kenya.
 March 7-8 Meet with Dr. Robert Breiman, Director CDC Kenya Office, and other potential Investigators to assess the capacity of the site for conducting clinical trials for rotavirus vaccine. Nairobi, Kenya.
 March 1-6 Disease Control Priorities Project book launch and related activities. Beijing, China.
 Feb 24-25 Meet with Collaborators from the Central Research Institute for Epidemiology (CRIE) and Vector on our BTEP Project #58 (concerning health information collection and diagnostics for viral agents of gastroenteritis. Moscow, Russia.

- Feb 22-23 World Health Organization (WHO) Meeting on “New Vaccine Introduction. Moscow, Russia.
- Feb 15-17 Visit the Serum Institute of India Limited to discuss the progress of the Rotavirus Vaccine Program in India. Pune, India.
- Feb 11-14 Semi Annual Meeting on Rotavirus VaccineProject and to review progress on the CDC Rotavirus Vaccine Development Project in India. New Delhi, India.

2005

- Dec 13-16 Facilitate a training course on Surveillance for Rotavirus Gastroenteritis (collaboration between CDC and PAHO). Rio De Janeiro, Brazil.
- Dec 6-12 Meet with the India Government to review the Clinical Development Program with pilot lots of vaccine. New Delhi, India.
- Nov30-Dec3 World Health Organization (WHO) meeting. Presenter: External Review of Burden of Disease Attributed to Rotavirus. Geneva, Switzerland.
- Nov 28-29 Meeting with DAKO to negotiate an Agreement between DAKO and CDC for provisions of reagents to international sites for collection of rotavirus health information in 30 countries that participate in the CDC collection of rotavirus health information. Copenhagen, Denmark.
- Nov 8-12 World Health Organization (WHO) meeting on Challenges of Rotavirus Vaccines. Presentation: Introduction of the Rotavirus Vaccine and whether sufficient information is available for Regional or Global recommendation. Geneva, Switzerland.
- Oct 21-24 2005 Institute of Medicine (IOM) Annual Meeting (35th Year). Washington, District of Columbia.
- Oct 6-9 Attend the 43rd Annual Meeting of the Infectious Diseases Society of America (IDSA). San Francisco, California
- Sept 27-28 Meeting with PAHO and Merck to discuss potential country support for rotavirus vaccine demonstration project. Washington, District of Columbia.
- Sepe 14-16 PATH RVP TRAC Meeting (Rotavirus surveillance activities meeting between CDC and PATH). Seattle, Washington.
- Sept 5-11 Emergency travel due to Hurrican Katrina deployment activities. Houston, Texas
- Aug 28-30 India Rotavirus Vaccine Development Project. Invited Presenter: Overview of India Rotavirus Vaccine Development Project. Washington, District of Columbia.
- Aug 25-26 INDO-US Vaccine Action ProgrammeJoint Working Group. Invited Presenter: rotavirus Vaccine trial Update. Washington, District of Columbia.
- July 19 Fudan Medical School, Shanghai, China. Invited professor: Presentation: The potential value of a rotavirus vaccine for China.
- July 10-12 China CDC; Workshop on Rotavirus and Rotavirus Vaccines in China. Co-sponsored by CDC & WHO. Convenor and Speaker. Beijing, China
- June 27-9 Oxford Course on Hot Topics in Pediatric Infectious Diseases, Oxford University organized by the European Society for Pediatric Infectious Diseases. Invited speaker: Rotavirus vaccines: The past, present and future.
- June 8-10 Latin American Society for Pediatric Infectious Diseases, Veracruz, Mexico. Invited speaker: Viral agents of gastroenteritis: How important are they ?
- June 1-4 French Society for Pediatrics and the Association of French Speaking Pediatricians. Paris, France
Invited speaker.
- May 25-28 Advanced Course in Vaccinology, organized by the the Fondation Merieux, Annecy, France. Invited Faculty.
- May 18-9 WHO-Afro: Workshop on rotavirus surveillance in Africa: An introduction to rotavirus vaccines.
- May 10 Sabin Institute: Annual award dinner: Invited presentation commemorating Dr. Albert Kapikian, Sabin award winner for 2005.
- May 9 Colgate-Palmolive, Highland Park, New Jersey. Consultation on the prevention of the spread of viral agents of gastroenteritis. Invited presentation: Viral agents of gastroenteritis: A review
- May 6 WHO, Geneva, Switzerland. Steering committee on new vaccines. Consultation on live oral vaccines. Invited presentation: Live Oral Rotavirus Vaccines: Will they work where they are needed most?
- April 12-3 WHO Steering Committee on Enteric Vaccines. Paris, Institute Pasteur. Member of Steering Committee
- April 11 Pasteur Institute, Paris. Invited presentation on Rotavirus Vaccine Development.
- March 28 Kuwait City; First Conference of the Ministry of Health on Recent Trends in Infectious Disease. Keynote

- speaker. Rotavirus vaccines: Global perspectives and Prospects for Kuwait. Meeting with officials in the Ministry of Health concerning new vaccine introduction.
- Mar 8-11 Gates Foundation: Consultation on Enteric Vaccines. Seattle.
- Feb 23-25 Butantan Institute, Sao Paulo Brazil. Meeting on technical transfer of NIH rotavirus vaccine to Inst. Butantan. Receipt of award for technology transfer from the Chief Minister of the State of Sao Paulo.
- Feb 7-9 WHO/PAHO Informal Consultation on Standards for Quality of Rotavirus Vaccines. Mexico City. Keynote speaker: An overview of rotavirus vaccines.
- Jan 29-31 Consultation of Asian Leaders on Introduction of rotavirus vaccines in Asia. Kuala Lumpur, Presentation on Rotavirus Epidemiology in Asia.
- Jan 26-28 UNICEF/ BBC Production of a movie about the Introduction of Rotavirus Vaccines in Mexico. On site in Mexico City and Villahermosa, Tabasco.
- Jan 11-13 Meeting of the DOMI Project of the International Vaccine Institute, in Hanoi, Vietnam. Chairman of the session on new cholera vaccines.

2004

- Dec 16-7 Christian Medical College, Vellore, India. Anniversary meeting of CMC. Invited lecture on Rotavirus vaccines
- Dec 11-14 6th Semiannual Review of the Indian Neonatal Rotavirus Project, Hyderabad, India.
- Dec 7-10 40th Anniversary of the US Japan Program, Meeting in Kyoto, Special session on Viral Gastroenteritis
- Nov 17-18 Rotavirus Vaccine Program, Technical Review Advisory Committee, meeting in Seattle
- Nov 11-14 Bioterrorism Engagement Project, Working group meeting to finalize protocols and workplans, Moscow
- Nov 7-10 2nd International Calicivirus Workshop, Dijon, France. Convenor and member of the Scientific Advisory Group.
- Nov 3-5 Technical Advisory Group of the Pan American Health Organization, Mexico City, Invited talk on the 6th International Rotavirus Symposium and an update on the status of rotavirus vaccines.
- Oct 28-29 SAFE-ID – Zurich, Switzerland. Invited speaker for symposium on Infectious Diseases in the Developing World
- Sept Organizational Meeting on Rotavirus Surveillance in the Eastern Mediterranean Regional Office of WHO, Organizer and presenter on the Status of Rotavirus Vaccines.
- Jul 31-Aug10 Fieldwork, Vietnam- Project to review epidemiology of rotavirus in Vietnam in anticipation of a rotavirus vaccine trial.
- July 28-31? International Vaccine Institute, Seoul Korea, Visiting Scientist, External reviewer of projects and activities.
- July 7-9 6th International Rotavirus Symposium, Mexico City, Organizer and Keynote Speaker.
- June 7-11 5th WHO/GAVI Global Vaccine Research Forum, Montreux, Switzerland
- May 27-8 20th Meeting of the European Society of Pediatric Infectious Diseases. Special Symposium on Viral Vaccines honoring Prof. Timo Vesikari. Invited lecture on Rotavirus Vaccines: Targeting the Developing World
- May 12 Fifth Advanced Vaccinology Course, Annecy, France. Vaccine development as an interactive process: The example of rotavirus. Faculty Member
- April 28-30 Second Conference: Vaccines for Enteric Diseases. Montego Bay, Jamaica. Conference Convenor. Plenary lecture: Rotavirus vaccines : The past, present and future
- April 26-7 World Health Organization: Steering Committee Meeting on Enteric Vaccine. Montego Bay, Jamaica Feb 12-14 Nuffield Symposium on Ethics in Field Trials, Capetown, S. Africa. Invited presentation on Ethics in Clinical Trials
- Feb 12-14 Nuffield Symposium on Ethics in Field Trials, Capetown, S. Africa. Invited presentation on Ethics in Clinical Trials
- Feb 10-11 Visiting Scientist; Johannesburg, S. Africa. National Institute for Infectious Diseases
- Jan 8-10 14th Symposium on Virology, Swiss Association for Education in Infectious Diseases, SAFE-ID, Gstaad, Switzerland, Invited lecture on Viral Agent

2003

- Dec 9-10 Asian Scientific Congress on Diarrheal Diseases (ASCODD) Dhaka, Bangladesh, Invited speaker: The Future of rotavirus vaccines
- Oct 24-5 1st Meeting on Rotavirus Vaccines in China, Beijing. Organizer with China-CDC. Presentation on Why China needs a rotavirus vaccine.
- Oct 20-23 Meeting of the Asian Rotavirus Surveillance Network, Manila, Organizer . Presentation. Graduation address to Members of the Asian Rotavirus Surveillance Network.
- Sept ?? dsRNA Meeting, Lucca, Italy. Member of the Organizing Committee. Invited speaker: Rotavirus vaccines: Lessons from the past for the future.
- July 17 37th Joint Viral Disease Panel of the US- Japan Cooperative Medical Sciences Program. Houston, Texas.
- July 16 8th Richard J. Duma /NFID Annual Press Conference and Symposium on Infectious Diseases. National Press Club,

Washington, D.C. , Presentation: Norovirus: an emerging viral pathogen.
 June 18 Presentation to BIOS – Biotechnology Symposium : When is a vaccine safe enough? Rotavirus vaccines as a case study.
 May 25-28 Fourth Advanced Vaccinology Course, Annecy, France. Faculty Visiting Professor.
 April 24-27 Harold C Neu Infectious Diseases Conference, San Francisco, CA
 April 12-16 Oxford University, Fundamental Issues in Vaccine Immunology, Invited Speaker: The last, present and future of rotavirus vaccines.
 Mar 14-20 Hong Kong. Convenor of Meeting of the Asian Rotavirus Surveillance Network project.
 Feb17-27 Dhaka, Bangladesh. RAPID meetings.

2002

Dec 13-15 Antwerp, Belgium. 3rd Elzenveld Workshop on Infectious Diseases. Presentation: The public health impact of enteric infections.
 Dec 12-13 Lyon, France. Scientific meeting of the Fondation Merieux.
 Dec 10-11 Geneva. Meeting on cholera vaccines.
 Dec 4-12 Moscow, Russia. Met with Russian collaborators to set up BTEP proposals and projects.
 Nov 10-13 First Asian Congress of Pediatric Infectious Diseases mtg in Chonburi, Thailand. Presentation: The disease burden of rotavirus among children in Asian countries.
 Oct 27-30 ADIP Mtg for rotavirus vaccines, Geneva.
 Oct 15-20 Hyderabad, India. Participate in annual collaborator meeting for India Rotavirus Project.
 Oct 6-9 Seattle, Washington. Meeting of the Bill and Melinda Gates's Children's Vaccine Program Strategic Advisory Council.
 Sept 30-10/3 Sao Paulo, Brazil. XIII Brazilian Society for Virology Meeting. Presentation: New approaches to the study, detection, and prevention of viral gastroenteritis.
 Sept 19-20 Accra, Ghana. Rotavirus Infection in Africa: A Scientific Proceeding. Presentation: Rotavirus research in Africa.
 Sept 18 Rixensart, Belgium. Rotavirus A Partnership for Immunization and Development (RAPID) meeting of GlaxoSmithKline Biologicals.
 July 23 Paris, France. Participated in the XII International Congress of Virology. Presentation: The present and future of rotavirus vaccines.
 June 12-14 3rd Advanced Vaccinology Course, Annecy, France.
 June 9-11 WHO Temporary Advisor to Global Vaccine Research Forum, Geneva.
 May 23 GAVI meeting, Washington, DC.
 May 8-12 1st Asian Rotavirus Surveillance Network meeting, Bangkok, Thailand.
 May 7 National Foundation for Infectious Diseases 5th Annual Conf on Vaccine Research, Baltimore. Presentation: Rotavirus vaccine development by the Global Alliance for Vaccines and Immunizations.
 May 6 Participate in meeting of Global Alliance for Immunization Practices at UNICEF in New York City to discuss the Rotavirus Partnership for Immunization and Development Program (RAPID).
 April 24 Meeting at Merck Vaccines in Lansdale, PA. Discuss perspectives on the global status of rotavirus activities, the RAPID group, and how this relates to the McKinsey and other GAVI activities.
 Mar 21-22 Annual mtg of the American Epidemiological Society, New York, NY.
 Mar 12 Bangkok, Thailand. Met with officials at the Ministry of Health, FETP.
 Mar 5-10 Member of WHO Steering Committee on Diarrheal Disease Vaccines, Hanoi, Vietnam.
 Feb 23-24 American Academy of Microbiology Colloquium on the global burden of infectious diseases through the gastrointestinal tract. Galway, Ireland.
 Jan 13-14 Technical expert at GlaxoSmithKline meeting to review results of rotavirus vaccine trial in Finland, Cincinnati, Ohio.

2001

Dec 17 Meeting with Gates CVP officers and Krishna Ella from Bharat Biotech, India in Seattle, Wa.
 Dec 4 Ohio State University Food Safety Seminar Series.
 Nov 26 Ateliers de Vaccinologie meeting. Moderated session >L=Association temporelle entre une vaccination et pruve de causalite. Annecy, France.
 Sept 12-14 Vaccines for Enteric Diseases meeting in Tampere, Finland. Presentation: Rotavirus vaccines: an overview.
 Sept 8-12 Moscow and Novosibirsk, Russia, site visit to Institute of Epidemiology, Central Research Institute, to discuss rotavirus diagnostics and explore possible studies for future collaborations with CDC.
 Sept 5-7 Participate in National Vaccine Advisory Committee workshop on intussusception, rotavirus and oral vaccines, Arlington, Virginia
 July 5-19 New Delhi and Hyderabad, India. Meet with AIIMS collaborators to initiate a 5-yr project to develop live oral

- rotavirus vaccines in India..
- July 1-5 Lyon, France. Third technical meeting with collaborators at Aventis Pasteur, to review progress to develop an inactivated rotavirus vaccine.
- May 29-6/22 Advanced Vaccinology Course, Annecy, France. Presentation: Rotavirus vaccines and issues of intussusception.
- May 13-14 WHO/CDC-sponsored workshop, Global Alliance for Vaccines and Immunizations (GAVI), task force for research and development on fast-tracking vaccine development.
- Mar 25-29 19th Annual meeting of the European Society for Pediatric Infectious Diseases (ESPID), Istanbul, Turkey. Presentation: Rotavirus vaccines: what have we learned and where are we going?
- Mar 22-23 2001 Harold C Neu Infectious Diseases Conference, Palm Springs, CA. Presentation: Rotavirus vaccines in developing countries.
- Mar 11-14 SAC meeting of the Bill and Melinda Gates Children=s Vaccine Program, Seattle, WA.
- Feb 5-9 El Salvador. Serve as Expert to Emergency Response to rotavirus diarrhea outbreak.

2000

- Dec 9-14 Hong Kong, China. Participate in 7th Western Pacific Congress of Chemotherapy and Infectious Diseases. Presentations: (1) Global surveillance and strategies in vaccination for human rotaviruses; (2) Foodborne viruses-epidemiology and detection.
- Dec 2-7 Aruba. Participate in the 7th International dsRNA meeting. Chair Molecular Epidemiology session.
- Nov 12-17 Hanoi, Vietnam. Finish up 1st two years of the Rotavirus Surveillance Project with Dr. Nguyen Van Mann at PVRPC.
- Nov 9-11 Seoul, Korea. WHO-sponsored meeting of Steering Committee on Vaccines.
- Oct 23 NIH, Bethesda, MD. Participate in NVAC meeting.
- Oct 15-16 Calcutta, India. Visit National Institute of Cholera and Enteric Diseases.
- Oct 8-14 New Delhi and Hyderabad, India. Sponsored by PATH. Review proposal to develop neonatal rotavirus vaccine strains for India and visit vaccine site.
- Oct 7 WHO-sponsored meeting with SmithKline Beecham, Brussels, Belgium to discuss testing rotavirus vaccines for use in developing countries.
- July 31-8/7 Dhaka, Bangladesh. Meet with ICDDR,B collaborators to finalize proposal for Gates funding for rotavirus vaccine activities.
- July 25-30 Bangkok, Thailand. PATH-sponsored meetings with MOH to discuss rotavirus surveillance activities in Asia
- July 19-22 Japan. US Japan Meeting, Inuyama City. Presentation: (1) Caliciviruses; (2) Rotavirus vaccine issues.
- June 28-30 Rio de Janeiro, Brazil. Temporary Advisor to PAHO XII Congresso Brasileiro de Infectologia Pediatrica, Rio de Janeiro. Presentation: Future of rotavirus vaccines.
- May 30-6/2 Zurich, Switzerland. Swiss Society for Food Hygiene Virology Meeting. Presentation: The emerging role of human enteric caliciviruses in outbreaks of foodborne disease
- May 25-29 Advanced Vaccinology Course, Annecy, France. Presentation: Rotaviruses
- May 16-18 Novartis Foundation Symposium, London, UK. Presentation: Gastroenteritis Viruses: An Overview
- Jan 17 Institut Pasteur. External expert on rotavirus research at Programme de Recherche Fondamentale en Microbiologie et Maladies Infectieuses et Parasitaires, Jouy en Josas, France.

1999

- Nov 18-21 37th Annual Mtg of IDSA, Philadelphia, PA. Presentation: Rotavirus vaccines and intussusception.
- Nov 1-5 26th Annual Mtg of the Venezuelan Society of Microbiology in Valencia, Venezuela. Presentation: Rotavirus vaccines: what problems are still to solve?
- Oct 26 Wadsworth Center Seminar, NY State Health Department. Presentation: Caliciviruses: an unappreciated cause of gastroenteritis outbreaks and sporadic cases.
- Sept 28 SAC meeting for Bill and Melinda Gates Foundation.
- Sept 26 39th ICAAC San Francisco, CA. Presentation: Molecular epidemiology of the human calicivirus: are they really so important?
- Sept 6-9 1st Global Conference on Vaccines and Immunisation into the Next Millennium, Manchester, UK. Presentation: Rotavirus vaccines.
- Aug 29 Keynote speaker at meeting of Argentinian Congress of Virology, Buenos Aires, Aug 29-31, 1999. Presentation: Viral diarrhea in humans. Also present at round table discussion of human vaccines, entitled Rotavirus Vaccines.
- Aug 8 XIth International Congress of Virology, Sydney, Australia. August 9-13. Presentation Rotavirus vaccines: current status and future challenges.
- June 21 Meet with PAHO public health officials to plan rotavirus studies in the Americas.
- June 11-13 Marabou Symposium at Kraft Freia Marabou, Sundbyberg, Sweden. Nutrition and viruses: from molecular biology to public health. June 11-13.

June 6 Meet with NIH and collaborators on US-Indo Vaccine Action Project.
 May 4-8 Participate in XXXIIeme Congres de l'Association des Pediatres de Langue Francaise, Tours, France. Presentation: Epidemiology of rotavirus diarrhea and vaccines against rotavirus.
 April 11-21 WHO Advisor to Monitoring Committee on Rotavirus Vaccine Evaluation in Bangladesh.
 Mar 11-13 Participate in workshop Curriculum Development for Clinical Trials Monitors, organized by the European Commission, the Merieux Foundation and the National Institute of Health. Presentation: The rotavirus experience.
 Mar 3-5 Participate in follow up mtg of Strategic Advisory Council of the William H Gates Foundation, Childrens Vaccine Program.
 Feb 24-27 Organized and chaired First Rotavirus Surveillance in Asia meeting, Bangkok, Thailand.
 Feb 11-14 Participate in exploratory workshop on infectious diseases sponsored by the Academy of Finland for Research Funding and Science Policy. Presentation: Molecular epidemiology of the enteric viruses: new insights based on novel diagnostics.
 Jan 31/2-1 Washington, D.C. -- (a)Advisor to World Bank Rotavirus Scientific Panel to provide an initial assessment of RotaMunes efficacy in developing countries; (b) Pan American Health Organization to discuss rotavirus surveillance in the Americas;

1998

Dec 1-13 WHO advisor to Monitoring Committee to conduct site visit to monitor cholera cost-effectiveness study in Vietnam.
 Nov 16 Philadelphia, PA. Participate in a rotavirus G9 consultant's meeting at Merck Research Lab to discuss rotavirus vaccines.
 Nov 10-14 Participate in the North South Cooperation Symposium on Vaccine Research and Development. Presentation: Rotavirus vaccines: specific issues for available vaccines.
 Nov 8 Attend CVI Consultative Group Meeting, Geneva, and accept CVI Pasteur Award for Recent Contributions to Vaccine Development.
 Nov 3-5 Participate in 1st mtg of Strategic Advisory Council of the William H Gates Foundation, Childrens Vaccine Program. Presentation: Current status of rotavirus vaccines and global infant immunization.
 Oct 1-3 Attend the 2nd Intl Rushmore Conference on Mechanisms in the Pathogenesis of Enteric Diseases. Presentation: Epidemiology of gastroenteric diseases.
 Sept 24-25 38th Interscience Conference on Antimicrobial Agents & Chemotherapy (ICAAC). Presentation: Rotavirus: 25 years from virus discovery to the first effective vaccine for severe diarrhea of infants and young children.
 Sept 6-10 Survey Vietnamese rotavirus surveillance/production activities and meet with Ministry officials, Hanoi & Ho Chi Minh City, Vietnam.
 Sept 1-4 32nd Joint Working Conference on Viral Diseases, US-Japan Conference, Kyoto, Japan. Presentation: Rotavirus: 25 yrs from virus discovery to the 1st effective vaccine for severe diarrhea of infants and young children.
 August 25 Universidad de Costa Rica Public Health Forum. Presentation: Estado actual de la vacuna para rotavirus.
 August XXII Intl Congress of Pediatrics, Amsterdam. Presentation: New rotavirus vaccines.
 July WHO meeting on agenda for control of rotavirus diarrhea through vaccination. A discussion with industry.
 May 19 ASM 98th General Meeting, Atlanta, GA. Presentation: Epidemiology of gastrointestinal viral infection.
 May 4-7 Congres des Pediatres de Langue Francaise, Tours, France. Presentation: Epidemiology of Rotavirus.
 April 29-5/3 WHO Temporary Advisor, Meeting of the Steering Committee on Diarrheal Disease Vaccines, Geneva, Switzerland, to discuss strategies for rotavirus vaccines in developing countries.
 April 26-28 Attend XVIII Pediatric Congress, Santiago, Chile. Presentation: Strategies for rotavirus vaccines.
 Apr 14-16 Attend International Workshop on Vaccine Development, Rio de Janeiro, Brazil, April 14-16. Presentation: Vaccines against rotavirus.
 Mar 23-28 Advisor to World Health Organization. Meet with Vietnamese collaborators in Hanoi, Vietnam to finalize WHO protocol for studies on rotavirus surveillance and vaccine development.
 Jan 17-24 Temporary advisor to the World Health Organization. Visit the Lanzhou Institute of China to assist in Preparation of a revised protocol on the evaluation of immunogenicity of rotavirus vaccine in China, and to evaluate manufacturing facilities for preparing vaccine.
 Jan 10 Participated in advisory meeting on the prevention of rotavirus gastroenteritis, sponsored by Wyeth Lederle Vaccines and Pediatrics, in Pointe Verde, Florida. Presentation: Overview of rotavirus infection and disease and the introduction of a rotavirus vaccine into the Americas.

1997

Dec 16 Participated in volunteer studies with patented 116E virus at Children's Hospital, Cincinnati, Ohio.
 Dec 12 FDA Advisory Committee meeting, Bethesda, MD, to consider rotavirus vaccine.

- Dec 1 Commercial Colloquium on Rotavirus Diarrhea (10th anniversary of the Indo-US Vaccine Action Project), Indian Institute of Science, Bangalore, India. Presentation: 1. The burden of rotavirus infection and disease; 2. A review of epidemiologic and laboratory studies.
- Nov 20-22 World Health Organization. Visit field site to review WHO-approved protocol to conduct a rotavirus vaccine effectiveness study in Valencia, Venezuela.
- Nov 9-14 International Symposium on dsRNA Viruses, Morelos, Mexico. Presentation: Preparing for the introduction of rotavirus vaccines in the United States.
- Nov 1-2 Advisor to Redbook Committee of the American Academy of Pediatrics meeting, New Orleans, Louisiana. Presentation: Epidemiology of rotavirus infections and the appropriate use of a rotavirus vaccine.
- Oct 29 Wyeth Lederle and Vaccines and Pediatrics seminar, Pearl River, NY. Presentation: Rotavirus vaccines. The remaining challenges.
- Sept 22-25 Chile??
- Sept 30-10/4 Annual Scientific Meeting of the Australian Society for Microbiology, Adelaide, Australia. Presentation: Rapid advances towards rotavirus vaccines and their use in American children.
- Sept 24-27 31st Congreso Argentino de Pediatria, Mendoza, Argentina. Presentation: Rotavirus: estado actual del desarrollo de la vacuna.
- Sept 1-9 Temporary Advisor to Children=s Vaccine Initiative (CVI), Global Programme on Vaccines and Immunization (GPV), World Health Organization (WHO), Geneva, Switzerland.
- June 28-7/3 Peru - meet with Peruvian collaborators to discuss ICIDR project to determine the disease burden of viral gastroenteritis in Peruvian cohort studies.
- June 15 AWWA Convention, Atlanta. Presentation: Chasing Norwalk virus and eating oysters.
- May 29-31 Swedish Pediatric Association Annual Meeting, Umea, Sweden. Presentation: New lessons for rotavirus vaccines.
- May 15-17 Harold C Neu Infectious Diseases Conference, Chicago. Presentation: New agents of viral gastroenteritis in developing and developed countries. (Outside Activity).
- Mar 23-25 Rotavirus surveillance meeting with Dr. Joel Ward of UCLA Medical Center and HMO representatives to discuss pending rotavirus vaccine.
- Mar 13-14 International Symposium on Acute Diarrhea, Brazilian Forum on Diarrheal Diseases in Infancy. Presentation: Diagnostic advances in viral etiologies. Participated in conference, Viral etiologies in acute diarrhea.
- Feb 19-23 INCLEN meeting, Penang, Malaysia. Invited presentation: Anticipating rotavirus vaccines: basic surveillance activities for rotavirus diarrhea. Temporary advisor for Children=s Vaccine Initiative.
- Feb 16-18 ICDDR,B. Meeting to finalize rotavirus vaccine protocol (Prof. Patrick Vaughan).
- Jan 7-16 Consensus Workshop on Rotavirus Vaccines for the Immunization of Children in Developing Countries (organizer) at WHO, Geneva. Presentation: The epidemiology of rotavirus infection in developing countries; served as temporary advisor to WHO.

1996

- Nov 13-14 National Symposium Celebrating 25 years of ORT use in the U.S., Johns Hopkins University. Presentation: Diarrheal morbidity and mortality in the U.S.
- Oct 29 Workshop on the Surveillance of Rotavirus in Europe (Organizer) WHO, Geneva, Switzerland
- Oct 24 50 Years of Virology in the PHLS, Jubilee Symposium. Public Health Laboratory Service, UK. Presentation: Rotavirus vaccines: have we arrived?
- Oct 10 Les Rotavirus en Medecine Humaine et Veterinaire, Paris, France. Presentation: Epidemiologie des Infections a Rotavirus.
- Oct 4 Georgia Chapter of the American Academy of Pediatrics, Atlanta, Ga; Presentation: Rotavirus Vaccines: Why, When, and for Whom?
- Sept 24-26 Consultant to Working Group on Foodborne Viral Infections, Advisory Committee on the Microbiological Safety of Food, UK.
- Aug 11-15 Xth International Congress of Virology, Israel. Presentation: Will rotavirus vaccines work in developing countries?
- July 10-12 National Institute of Epidemiology, Madrid, Spain. Presentation: Rotavirus vaccines and national surveillance; viral agents of gastroenteritis.
- June 18-21 14th Annual Meeting of the European Society for Pediatric Infectious Diseases, Elsinore, Denmark; a symposium on rotavirus vaccines. Presentation: Results of U.S. efficacy studies of rotavirus vaccines.
- June 10-13 7th International Congress for Infectious Diseases. Symposium commemorating the 200th anniversary of Edward Jenner's first vaccination against smallpox; Hong Kong. Presentation: Rotavirus vaccines.
- May 28-30 Viruses in Food meeting, Stockholm, Sweden. Presentation: SRSVs as a problem in water and food contamination.
- April 22-25 Latin American Society for Microbiology Meeting, Buenos Aires, Argentina. Workshops on surveillance of

enteric viruses in Latin America.
Mar 13-16 Wyeth-Lederle Advisory Panel, Philadelphia. Presentation: Rotavirus vaccine data and cost effectiveness analysis.

1995

Oct 22-26 8th Nestle Nutrition Workshop, Islamabad, Pakistan. Presentation: The etiology of acute viral gastroenteritis.
Oct 16-18 Fifth Rotavirus Vaccine Workshop: Current Issues and Future Developments (organizer), Atlanta, Georgia
Oct 16-18 Presentation: Epidemiology of rotavirus diarrhea in the U.S.: surveillance and estimates of disease burden.
Sept 17-19 35th ICAAC meeting, San Francisco. Invited guest. Symposium on vaccine development: State of the art lecture on rotavirus vaccines.
July 3-8 Visiting professor at the 13th International Course on Applied Epidemiology, Mexico City, Mexico, under the auspices of the Mexican Field Epidemiology Training Program .
June 26-30 The Sapporo International Symposium on Viral Gastroenteritis. Presentation: The epidemiology of astrovirus based on new studies with strain characterization, serotyping, and novel molecular techniques.
May 17 Grand Rounds at Vanderbilt University School of Medicine, Nashville, Tennessee. Presentation: Viral agents of gastroenteritis.
April 25-28 Latin American Congress of Epidemiology, Salvador, Brazil. Presentation: The epidemiology of viral gastroenteritis: new ideas on prevention and control.
April 19-22 The Argentinian Society for Microbiology, Buenos Aires, Argentina. Presentation: Viral Gastroenteritis.
Mar 19-23 Attend the 5th Intl Symposium on ds-RNA Viruses, Djerba, Tunisia. Presentation: Epidemiologic and laboratory studies of rotavirus infections in India.
Feb 19-3/2 The International Center for Diarrheal Disease Research, Bangladesh (ICDDR,B. Consultant to develop a long-range plan for the virology lab.
Jan 20-31 Consultant: Prepare protocol on investigation of diarrheal deaths in Peruvian children, in Arequipa and Lima, Peru, as advisor for PAHO.

1994

Nov 19-25 Brazilian Society of Virology VII National Meeting, Sao Lourenco, Brazil round table on enteric viruses.
Nov 2 Annual meeting of the Venezuelan Microbiological Society, Caracas, Venezuela. Presentation: Novel agents of viral gastroenteritis.
Oct 28 Workshop on the Microbiological Safety of Food (ACMSF) and SGMSF Workshop on Foodborne Viral Infections, Gatwick, England, sponsored by the U.K. Department of Health. Presentation: Foodborne viruses in the U.S. and Canada.
Oct 6-9 ICAAC/IDSA meetings, Orlando, Florida. Presentation, Recent food and waterborne outbreaks of infectious diseases.
Sept 28 Participated in review of results of rotavirus vaccine study for Merck Research Laboratories, Rahway, New Jersey.
Sept 5-14 Participated in the External Evaluation of the Mexico Diarrheal Disease Control Program in Mexico City by invitation of PAHO.
July 27 U.S.-Japan Cooperative Medical Science Program, 28th Joint meeting of the Viral Diseases Panel, Tokyo, Japan. Presentation: Typing human astroviruses from clinical specimens by using enzyme immunoassay and nucleotide sequencing.
July 11-12 Indo-U.S. Vaccine Action Program joint working group meeting, National Institutes of Health, Washington, D.C. Presentation: Progress in understanding neonatal rotavirus infections in India.
June 13 Reviewer for the Experimental Virology Study Section, National Institutes of Health, Washington.
April 11 James H. Steele Lecturer at the University of Texas School of Public Health and Medical School at Houston, Texas; and, the Robert Woods Johnson visiting professor for 1994.
March 2-3 USAID's symposium celebrating 25 years of Oral Rehydration Therapy in Washington, D.C. Participant.
Feb 14-16 US-Mexican workshop in Cuernavaca, Mexico, organized by the Mexican Government and the Fogarty International Center, NIH. Invited guest.
Feb 9 The Aga Khan Medical University. Invited guest. Dept of Community Medicine
Feb 4-6 ICDDR,B in Bangladesh 25th anniversary celebration of ORS.
Jan 29 Met with Indo-U.S. VAP collaborators at AIIMS to complete strain characterization and to review longitudinal cohort studies in Delhi.
Jan 23-27 INCLen meeting in Chiang Mai, Thailand. Invited participant.
Jan 11-13 Reviewer, Division of Microbiology and Infectious Diseases, NIH, Washington, D.C.

1993

- Dec 5-7 Rhesus Rotavirus Vaccine Meeting of Investigators, Philadelphia, Pennsylvania. Review proposal.
- Nov 2-6 National Meeting of Epidemiologists, Mexico City. Presentation: The Impact of Prevention Programs on Diarrheal Diseases.
- Oct 18 ICAAC Meeting, New Orleans. Presentation: An Outbreak of Viral Gastroenteritis Traced to a School Lunch.
- Oct 7 ORT presentation, Coca-Cola, Atlanta.
- Sept 14 Participated in expert panel review of contract proposals for Statistical and Clinical Coordinating Center for HIV; NIH-NIAIS-DAIDS-94-05, Bethesda, Maryland.
- Aug 29 U.S. Japan Cooperative Medical Sciences meeting, San Diego, California.
- Aug 8-13 IXth International Congress of Virology, Glasgow, Scotland. Presentation: Novel agents of Viral Gastroenteritis: Laboratory and Epidemiologic Approaches.
- Mar 5-7 International Congress on the Impact of HIV Infection on the Gastrointestinal Tract, Bologna, Italy. Presentation: Viral agents of gastroenteritis in HIV infected patients.
- Feb 2 Consultation with Dr. Ron Dagan, Director of Pediatric Infectious Diseases, Soroka Medical Center, Israel. Project sponsored by the Binational Science Foundation on enteric viruses in a cohort of Bedouin children, Beer Sheva, Israel.
- Jan 6-7 Scientific Review, NICHD, NIH, Bethesda, Maryland

1992

- Nov 20 Gerontology Society of America, 1992 Annual Meeting, Washington, D.C. Presentation: Diarrhea in the Elderly: A health care challenge.
- Oct 20 ICAAC meeting, Anaheim, California. Presentation: Enteric viruses in an HIV cohort: association of Picobirnavirus and astrovirus with gastroenteritis.
- Sep 28-10/17 Participated as member of USAID Assessment Team to Newly Independent States of the former U.S.S.R. to assess the current capacity of indigenous relief assistance to areas affected by civil strife and/or significant population displacements.
- Sept 5-12 Meeting of the U.S.-Japan Cooperative Medical Sciences Program, Nara, Japan. Presentation: Molecular Confirmation and Characterization of Astroviruses from Patients with Gastroenteritis, and, Enteric Viruses in an HIV Cohort: Association of Picobirnavirus and Astrovirus with Gastroenteritis.
- Jul 13-17 The Australian Microbiology Association Annual Meeting, Sydney, Australia. Presentations: 1. Novel Methods to Detect Viral Agents of Gastroenteritis; 2. Viral Agents of Gastroenteritis in an HIV Cohort. New South Wales Virology Group (NSWVG). Presentation: Recent Outbreaks of the Viral Gastroenteritis.
- June 22 Rotavirus symposium, Merck Sharp & Dohme Research Labs., Wayne, Pennsylvania. Invited lecture: Worldwide Epidemiology of Rotavirus.
- June 11 Meeting of the Indo-US Vaccine Action Program (VAP) Joint Working Group Meeting, Washington, D.C. Presentation: Neonatal Rotavirus Infections in India.
- May 27 Annual Meeting of the American Society of Microbiologists: Symposium on Cholera, New Orleans, Louisiana. Presentation: The Epidemiology of Cholera: From Snow to Ceviche.
- April 21 First International Symposium on Cholera in the Americas, Mexico City. Presentation: Epidemiology of Cholera in Asia.
- April 14 All India Institute of Medical Sciences, New Delhi, India. Meet with CDC project collaborator and prepare new cohort for study of neonatal rotavirus infections in children.
- April 2 Rotavirus Vaccine Investigators Meeting, San Juan, Puerto Rico. Exchange information and ideas with experts on development of vaccines to prevent rotavirus diarrhea.
- March 31 Participate as adviser to the Steering Committee on Diarrhoeal Disease Vaccines, WHO, UNDP, Program for Vaccine Development, Geneva, Switzerland.
- March 25 Pediatrics Grand Rounds speaker, The Johns Hopkins University School of Medicine.
- March 13 Tulane University Medical Center, New Orleans, Louisiana, Department of Tropical Medicine. Presentation: Control of Diarrheal Diseases.

1991

- Dec 2 Annual Meeting, American Society of Tropical Medicine and Hygiene, Boston, Massachusetts. Opening Lecture, Plenary Session: The Epidemiology of Cholera: From Snow to Ceviche.
- Nov 26 Guatemalan National Congress of Microbiology, Guatemala City, Guatemala. Presentation: Viral Agents of Gastroenteritis and The Epidemiology of Cholera.
- Nov Annual Meeting, Brazilian Society of Virology, Belem, Brazil. Convenor of a symposium on rotavirus and adenovirus gastroenteritis in Brazil, sponsored by the Pan American Health Organization.
- Nov 8 Symposium on Recent Progress with 27nm Agents of Viral Gastroenteritis, Digestive Disease Center and the Division of Geographic Medicine, Stanford University School of Medicine, Palo Alto, California. Presentation:

- epidemiology of Viral Diarrheas.
- Oct 25 Workshop on Cholera Vaccines, biannual meeting of the Consultative Group for Vaccine Development, National Vaccine Program and NIAID, National Institutes of Health, Bethesda, Maryland. Presentation: The epidemiology of cholera in Latin America and Africa.
- Oct 10 Meeting for Technical Review and Methodological Standardization of Protocols for Cholera Vaccine Field Trials in Latin America. Pan American Health Organization, Washington, DC. Advisor.
- Sep 22 Annual Meeting, The Royal College of Physicians and Surgeons of Canada, Quebec City, Canada. Invited lecture: Novel Agents of Viral Gastroenteritis.
- Aug 1 Working Group on Cholera Preparedness along the US-Mexico Border, Centers for Disease Control and the Mexican Ministry of Health, El Paso, Texas. Invited lecture: Clinical Management of Cholera.
- July 9 Executive Staff Seminar, National Center for Health Statistics, Hyattsville, Maryland. Presentation: The Disease Burden of Gastroenteritis in the United States.
- June 9-24 UNICEF, Dhaka, Bangladesh. Member of team to evaluate cyclone-related morbidity in Bangladesh.
- May 8 National Meeting on the Diagnosis of Viral Diarrheas, Institute of Virology, Chinese Academy of Preventive Medicine, Beijing, People's Republic of China. Presentation: New Methods to Detect Viral Agents of Gastroenteritis.
- May 3- Meeting on cholera vaccines, Pan American Health Organization, Washington, DC. Consultant.
- Feb 28 Regional Meeting on Cholera, World Health Organization, Lusaka, Zambia. Presentation: Rapid Response to Cholera Epidemics; The Key to Early Control.
- Jan 17 Symposium on Oral Rehydration Therapy; Maryland's Office for Children, Youth, and Families, Johns Hopkins University, and the Maryland Chapter of the American Academy of Pediatrics; Baltimore, Maryland. Presentation: Diarrheal Deaths and Hospitalizations in American Children.

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- Nov 27 Fifth Annual Meeting, Brazilian Society for Virology, São Lorenzo, Brazil. Presentation: Norwalk Virus, Astrovirus and Calicivirus as Agents of gastroenteritis.
- Nov 19 Infectious Disease Lecture Series, University of Massachusetts School of Medicine, Division of Infectious Diseases, Department of Medicine, Worcester, Massachusetts. Presentation: Rotavirus Epidemiology and the Potential for Control with Vaccines.
- Nov 16 National Shellfish Indicator Study, Louisiana University's Marine Consortium, Atlanta, Georgia. Participant.
- Nov 5 Fourth NIH Rotavirus Vaccine Workshop, National Institutes of Health, Bethesda, Maryland. Presentation: National Surveillance of Rotavirus in the United States.
- Oct 16 Immunology of Milk and the Neonate, a symposium sponsored by the National Institute of Child Health and Human Development, NIH, Bethesda, Maryland. Presentation: The Response to Rotavirus Vaccines Among Breastfed and non-Breastfed Children.
- Sep 28 US/Japan Cooperative Medical Research Program Meeting, Sendai, Japan. Presentation: The Molecular Biology and Epidemiology of Astroviruses.
- Sep 6- Fifth Meeting of the USAID Consultative Group on Vaccine Development, Agency for International Development, Washington, DC. Consultant.
- July 19 Workshop on Necrotizing Enterocolitis, National Institute of Child Health and Human Development, NIH, Bethesda, MD. Presentation: The Epidemiology of Necrotizing Enterocolitis; New Approaches for Research.
- July 3 Third International Course on Health in Disasters, Centre for Research on the Epidemiology of Disasters, Brussels, Belgium. Instructor: Epidemiologic Surveillance Following Natural Disasters: Some Practical Approaches to Disease and Casualty Prevention.
- May 28 Symposium on New Vaccines Against Enteric Infections, Swedish Agency for Research Cooperation with Developing Countries, Göteborg, Sweden. Presentation: Cost Benefit Studies of Rotavirus Diarrhea in the United States.
- May 18 Mead Johnson Symposium on The Management of Acute Diarrheal Disease in Infants in the U.S.A., Cornell University Medical College, Stuart, Florida. Presentation: Magnitude of the Morbidity and Mortality due to Diarrheal Disease Among Infants in the United States.
- Feb 2 The National Oral Rehydration Therapy Project, Rayburn Building, U.S. House of Representatives, Washington, DC. Presentation: Diarrhea Morbidity and Mortality in the United States.

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- Nov 2-5 Annual Conference, National Association for the Education of Young Children, Atlanta, Georgia. Presentation: Giardiasis, Shigellosis, Rotavirus, and other Viral and Bacterial Infections in Child Care Centers.
- Oct 13 Workshop on Progress in the Development of Diagnostics for Diarrheal Diseases and Typhoid Fever, Program for Appropriate Technology in Health, Washington, DC. Presentation: New Developments in the Diagnosis of

- Viral Diarrheas.
- Oct 5 Basic Science Seminar, Annual Meeting, American College of Epidemiology, Washington, DC. Presentation: Rotavirus Vaccine Development: Lessons from Home and Abroad.
- Oct 3 Workshop on Shigella Vaccine, Office of International Health and the Agency for International Development, Washington, DC. Presentation:
- Sept 5- Eighth Meeting of the Scientific Working Group on Immunology, Microbiology and Vaccine Development, Diarrhoeal Disease Control Programme, World Health Organization, Geneva, Switzerland. WHO Temporary Advisor.
- May 29 University of São Paulo, Department of Microbiology, Institute of Biomedical Sciences, São Paulo, Brazil. Consultant on a longitudinal study of diarrhea in children.
- May 22 Workshop on Immunoglobulin Class and Subclass, Centers for Disease Control, Atlanta, Georgia. Presentation: Immune Response to Rotavirus Vaccine and Infection.
- April 20 International Meeting on the Molecular Genetics of Rotaviruses, INRA, Foundation Merieux, and the Wistar Institute, Jouy-en-Josas, France. Review panel on advances in the molecular biology of rotavirus.
- March 1-3 Scientific Working Group on Immunology, Microbiology and Vaccine Development, Diarrhoeal Disease Control Programme, World Health Organization, Geneva, Switzerland. WHO Adviser.

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- Nov 16-19 Fourth International Meeting on Human Lactation - Breastfeeding, Nutrition, Infections, and Infant Growth in Developed and Emerging Countries, San Jose, Costa Rica. Presentation: Human Milk Protection Against Cholera.
- Sep 8-9 Third NIH Rotavirus Workshop, Bethesda, Maryland. Presentation: National Surveillance of Rotavirus Serotypes in the United States.
- Aug 29-31 Symposium on Infections in Developing Countries, Medical Research Council, Johannesburg, South Africa. Presentation: The Disease Burden of Rotavirus Diarrhea in Developing Countries: Prospects for Control with Vaccines.
- Mar 1-4 Fifth Meeting of the Scientific Working Group on Immunology, Microbiology and Vaccine Development, World Health Organization, Geneva, Switzerland. Participant/Ad hoc member.

