CURRICULUM VITAE

**Name:** Albert Icksang Ko, M.D.

**Term**: Without term (tenure) beginning July 1, 2010

**School:** Yale University Schools of Public Health and Medicine (and the Graduate School)

**Education:** S.B. Chemistry, Massachusetts Institute of Technology, 1981

S.B. Life Sciences, Massachusetts Institute of Technology, 1981

M.D., Harvard Medical School, 1991

Internal Medicine Residency, Brigham and Women's Hospital, Boston, MA, 1994

Infectious Disease Fellowship, Massachusetts General Hospital, Boston, MA, 1997

International Medicine Fellowship, Weill Medical College of Cornell University, New York, NY, 1997

**Academic Appointments**

1995-2010 Visiting Researcher, Oswaldo Cruz Foundation, Ministry of Health, Salvador, Brazil

1997-2000 Instructor of Medicine, Department of Medicine, Weill Medical College of Cornell University, New York, USA

2000-2006 Assistant Professor of Medicine, Department of Medicine, Weill Medical College of Cornell University, New York, USA

2006-2010 Associate Professor of Medicine, Department of Medicine, Weill Medical College of Cornell University, New York, USA

2010-present Collaborating Researcher, Oswaldo Cruz Foundation, Ministry of Health, Salvador, Brazil

2010-2012 Associate (tenure) Professor of Epidemiology, Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, USA

2010-2012 Associate Professor of Medicine, Infectious Disease Section, Department of Medicine, Yale School of Medicine, New Haven, USA

2012-present Professor of Epidemiology, Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, USA

2012-present Professor of Medicine, Infectious Disease Section, Department of Medicine, Yale School of Medicine, New Haven, USA

2013-present Faculty, Graduate Program in Investigative Medicine, Oswaldo Cruz Foundation, Ministry of Health, Salvador, Brazil.

2021-present Raj and Indra Nooyi Professor of Public Health, Yale School of Public Health, New Haven, USA

**Administrative Positions**

2003-2012 Program Director, Fogarty NIH Global Infectious Disease Training Program, Oswaldo Cruz Foundation, Ministry of Health, Salvador, Brazil

2010-2012 Head, Division of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT

2012-present Program Director, Fogarty NIH *Global Health Equity Scholars* (D43) Program, Yale School of Public Health, New Haven, CT

2012-2021 Chair, Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT

2020-present Principal Investigator, Yale IMPACT (*Implementing Medical and Public Health Action against COVID-19, Connecticut*) Team and Protocol

**Clinical Positions:**

2006-2010 Visit Attending, Infectious Disease Residency Program, Hospital Couto Maia (State Infectious Disease Hospital), Salvador, Brazil

2016-present Attending Physician, Yale New Haven Hospital, New Haven CT.

**Board Certification:**

1992 National Board of Medical Examiners (#327415)

1994 Medical Licensure, Massachusetts (#79820)

1994, 2022 Board Certification in Internal Medicine, American Board of Internal Medicine (#154831)

2004-present Medical Licensure, Regional Medical Council of the State of Bahia, Brazil (CRM 16878)

2015-present Medical Licensure, Connecticut (#054682)

**Professional Honors & Recognition:**

A) International/National/Regional

1981 Associate Member (Member, 2020), Sigma Xi.

1981 Merck Index Award, Department of Chemistry, Massachusetts Institute of Technology

1992 Arnold Dunne Award, Department of Medicine, Brigham and Women's Hospital.

1997 Special Citation for Fellow-in-Training, 35th Meeting of the Infectious Disease Society of North America.

2008 *Clinical Infectious Disease* Award for outstanding review

2008 Fellow, Infectious Disease Society of America

2014 Fellow, American College of Physicians

2016 Charles F. Craig Lecture, Meeting of the American Society of Tropical Medicine and Hygiene

2019 Fellow, American Society of Tropical Medicine and Hygiene

2020 Member, Connecticut Academy of Science and Engineering

2021 Member, Association of American Physicians

B) University:

2020 Team Research Award, Yale School of Public Health

**Grant History**

1. Current Grants

Agency: NIH/NIAID

ID# 1 R01 AI121207

Title: Naturally-Acquired and Vaccine-Mediated Immunity to Leptospirosis

P.I.: Albert I. Ko, M.D. (M-PI with Mitermayer Reis, M.D., Ph.D)

Percent effort: 10%

Direct costs per year: $559,561

Total costs for project period: $3,438,277

Project period: 12/01/2015 - 11/30/2022 (NCE)

Agency: NIH/NIAID

ID# 1 R01 AI121207 (Supplement)

Title: Natural History and Community Transmission of Zika Virus Infection

P.I.: Albert I. Ko, M.D.

Percent effort: 5%

Direct costs per year: $191,171

Total costs for project period: $564,450

Project period: 03/01/2016 - 11/30/2022 (NCE)

Agency: NIH/NIAID

ID# 5 D43TW010331

Title: Research Training Program on the Impact of Zoonotic and Vector-borne Viruses, *Rickettsiae*, and *Leptospira* in Acute Undifferentiated Febrile Illnesses

P.I.: Patricia V. Aguilar, Ph.D. (Elsio A Wunder Jr, Yale PI for sub-award)

Role on Project: Co-investigator

Percent effort: 1% (no salary support)

Direct costs per year: $26,502 (sub-award)

Total costs for project period: $106,800 (sub-award)

Project period: 03/01/2017 - 2/28/2027

Agency: NIH/NIAID

ID# 3 R01 AI121207 (Supplement)

Title: Zika Neurological Study

P.I.: Albert I. Ko, M.D.

Percent effort: 2%

Direct costs per year: $291,418

Total costs for project period: $625,086

Project period: 06/21/2017 - 11/30/2022 (NCE)

Agency: NIH/NIAID

ID# 3 R01 AI121207 (Supplement)

Title: Eyes in Infants with Zika (EIZ) Study

P.I.: Albert I. Ko, M.D.

Percent effort: 3%

Direct costs per year: $566,218

Total costs for project period: $855,773

Project period: 06/21/2017 - 11/30/2021 (NCE)

Agency: NIH/FIC

ID# 1 D43 TW010540

Title: Global Health Fellows and Scholars Program

P.I.: Albert I. Ko, M.D. (M-PI with Lee W. Riley, M.D., Michele Barry, M.D., Purnima Madhivan, Ph.D.)

Percent effort: 5%

Direct costs per year: $1,057,110

Total costs for project period: $5,278,255

Project period: 07/01/2017 - 06/30/2022

Agency: Research Support Foundation for the State of Bahia (FAPESB), Brazil

ID# TO PET 0021/2016

Title: Natural History of Congenital Zika Virus Infection

P.I.: Mitermayer Reis, M.D.,Ph.D

Role on Project: Co-Investigator

Percent effort: 2% (no salary support)

Direct costs per year: $158,416

Total costs for project period: $442,801

Project period: 08/01/2017 - 07/31/2022

Agency: Zoetis

Title: Attenuated Vaccine for Veterinary Leptospirosis

P.I.: Elsio Wunder, D.V.M., Ph.D.

Role on Project: Co-investigator

Percent effort: 2% (no salary support)

Direct costs per year: $106,000

Total costs for project period: $508,000

Project period: 02/23/2018 - 05/31/2022

Agency: Bill and Melinda Gates Foundation

ID# Grand Challenges Explorations

Title: Advanced Pathogen Detection in an Urban ‘Hot Spot’ for Global Emergence

P.I.: Federico Costa, Ph.D.

Role on Project: Co-Investigator

Percent effort: 3% (no salary support)

Direct costs per year: $100,000

Total costs for project period: $100,000

Project period: 06/01/2019 - 12/31/2021

Agency: NIH/NIAID

ID# DMID 17-0111

Title: A Cluster-Randomized Trial to Evaluate the Efficacy of Wolbachia-infected *Aedes aegypti* Mosquitoes in Reducing the Incidence of Arboviral Infection in Brazil (*EVITA Dengue*)

P.I.: Albert I. Ko (with Srilatha Eduganganti, M.D., Mauro Teixeira, M.D., Ph.D., Derek Cummings, Ph.D.)

Percent effort: 10%

Total costs for project period: $8,000,000 (sub-award $652,477)

Project period: 01/01/2020 - 12/31/2024

Agency: NIH/NIAID

ID# U19 AI08992 (Supplement)

Title: Systems Immune Profiling of Divergent Responses to Infection

P.I.: David Hafler, M.D., Ph.D.

Role on Project: Supplement M-PI

Percent effort: 20%

Direct costs per year: $436,481

Total costs for project period: $1,351,591

Project period: 04/15/2020 – 11/30/2021

Agency: CDC

ID# U01 CK000572 (Supplement)

Title: Comprehensively Profiling Social Mixing Patterns in Workplace Settings to Model Pandemic Influenza Transmission

P.I.: Saad Omer, MBBS, Ph.D.

Role on Project: Co-Investigator

Percent effort: 5%

Direct costs per year: $436,508

Total costs for project period: $550,000

Project period: 06/01/2020–08/31/2022 (NCE)

Agency: NIH/NIAID

ID# 1 R56AI145326-01A1

Title: Elucidating a Novel Flagellar Architecture from the Pathogenic Spirochete *Leptospira* and Its Role in Motility

P.I.: Albert I. Ko, M.D. (M-PI with Charles Sindelar, Ph.D., Alexander Buschiazzo, Ph.D.)

Percent effort: 5%

Direct costs per year: $339,627

Total costs for project period: $565,500

Project period: 09/01/2020 - 08/31/2022 (NCE)

Agency: Connecticut Department of Public Health

ID# 2021-0071

Title: Emerging Infections Program (EIP): COVID-19

P.I.: Albert I. Ko

Percent effort: 30%

Direct costs per year: $880,987

Total costs for project period: $4,589,533

Project period: 10/20/2020 - 10/19/2022

Agency: Department of Defense

ID# PR201784

Title: Systems analyses of emerging coronavirus diseases with big data and machine learning

P.I.: Sidi Chen, Ph.D.

Role on Project: Co-Investigator

Percent effort: 5%

Direct costs per year: $45,775 (Sub-only)

Total costs for project period: $244,168 (Sub-only)

Project period: 01/15/2021 - 01/14/2024

Agency: Merck Investigator Studies Program

Title: Harnessing Large Cohorts and a Rapid Knowledge Pipeline to Elucidate Immunity to SARS‐CoV‐2 Infection

P.I.: Albert I. Ko, M.D. (M-PI with Wade Schulz, M.D., Ph.D.)

Percent effort: 5%

Direct costs per year: $289,087

Total costs for project period: $751,627

Project period: 04/15/2021 - 04/14/2023

Agency: Regeneron

Title: SARS-CoV-2 Variant Sequencing from Patient Samples Collected by Yale New Haven Health (YNHH) System

P.I.: Albert I. Ko, M.D. (M-PI with Wade Schulz, M.D., Ph.D.)

Percent effort: 5%

Direct costs per year: $417,283

Total costs for project period: $1,048,038

Project period: 06/21/2021-06/20/2023

1. Pending Grants

Agency: NIH/FIC

ID# 2 D43 TW010540-06

Title: Global Health Fellows and Scholars Program

P.I.: Albert I. Ko, M.D. (M-PI with Lee W. Riley, M.D., Michele Barry, M.D., Purnima Madhivan, Ph.D.)

Percent effort: 5%

Direct costs per year: $1,041,788

Total costs for project period: $5,212,461

Project period: 07/01/2022 - 06/30/2027

1. Past Grants

Agency: Connecticut Department of Public Health

ID# 2017-0026-5

Title: Emerging Infections Program and Epidemiology Program: COVID-19 Related Responses

P.I.: Linda Niccolai, Ph.D.

Role on Project: Sub-contract PI

Percent effort: 25%

Direct costs per year: $128,332

Total costs for project period: $214,956

Project period: 08/26/2020 - 10/19/2020

Agency: Westat

ID# #6579-S0

Title: NICHD International and Domestic Pediatric and Maternal HIV and Other High Priority Infectious Diseases Data Coordinating Center

P.I.: Barbara Driver

Role on Project: Sub-award PI

Percent effort: 5%

Direct costs per year: $563,364

Total costs for project period: $687,745

Project period: 04/01/2018 - 08/31/2020

Agency: NIH/NIAID

ID# 2 U19 AI089992 (Supplement)

Title: ZIP Immunology Consensus Substudy

P.I.: Ruth R. Montgomery, Ph.D.

Role on Project: Co-investigator

Percent effort: 2%

Direct costs per year: $534,136 (sub-award $120,032)

Total costs for project period: $ 802,333 (sub-award $468,030)

Project period: 09/01/2017 - 11/30/2019

Agency: NIH/NIAID

ID# DMID 17-0111

Title: A Phase 3, Parallel-Design, Cluster-Randomized Trial to Evaluate the Efficacy of Releasing Genetically-Engineered Mosquitoes to Control the Arboviral Disease Burden in Sao Jose do Rio Preto, Brazil

P.I.: Srilatha Edupuganti, M.D.

Role on Project: Co-Principal Investigator (with Srilatha Eduganganti, M.D., Mauro Teixeira, M.D., Ph.D., Derek Cummings, Ph.D.)

Percent effort: 5%

Direct costs per year: $6,101

Total costs for project period: $10,219

Project period: 07/01/2018 - 07/31/2019

Agency: Medical Research Council (MRC), UK

ID# MR/P0240841

Title: Optimal control strategies for rodent-borne zoonoses in Brazillian slum settlements

P.I.: Albert I. Ko, M.D. (M-PI with Michael Begon, Ph.D., Peter Diggle, Ph.D.)

Percent effort: 3%

Direct costs per year: $345,431 (sub-award $27,163)

Total costs for project period: $690,922 (sub-award $55,143)

Project period: 04/01/2017 – 3/31/2019

Agency: NIH/NIAID

ID# 1 R01 AI121207 (Supplement)

Title: International Zika in Infants and Pregnancy (ZIP) Consortium Study

P.I.: Albert I. Ko, M.D.

Percent effort: 2%

Direct costs per year: $503,862

Total costs for project period: $1,261,312

Project period: 04/01/2016 – 11/30/2018

Agency: NIH/FIC

ID# [1](https://public.era.nih.gov/grantfolder/piAppDetails/genericStatus.do?encryptedParam=k1Jn9f6AO-c.VuULQHGaEhStFUNL1DrDiOAhF82dZm50j2AYEcQDfJI.) R01 TW009504

Title: Ecoepidemiology of Leptospirosis in the Urban Slums of Brazil

P.I.: Albert I. Ko, M.D.

Percent effort: 15%

Direct costs per year: $381,999

Total costs for project period: $2,439,783

Project period: 07/01/2012 - 07/31/2018

Agency: NIH/FIC

ID# [5 R25 TW009338](https://public.era.nih.gov/grantfolder/piAppDetails/genericStatus.do?encryptedParam=k1Jn9f6AO-c.VuULQHGaEhStFUNL1DrDiOAhF82dZm50j2AYEcQDfJI.)

Title: Global Health Fellows and Scholars Program

P.I.: Albert I. Ko, M.D. (M-PI with Lee W. Riley, M.D., Michele Barry, M.D., Purnima Madhivan, Ph.D.)

Percent effort: 7%

Direct costs per year: $600,000

Total costs for project period: $3,838,084

Project period: 04/04/2012 - 06/30/2018

Agency: NIH/NIAID

ID# 1 R41 AI114064

Title: RNA detection as an improved diagnostic assay for human leptospirosis

P.I.: Albert I. Ko, M.D. (M-PI with Michel Ledizet, Ph.D., Utpal Pal, Ph.D.)

Percent effort: 17%

Direct costs per year: $238,569 (sub-award $53,891)

Total costs for project period: $599,972 (sub-award $188,419)

Project period: 07/01/2014 - 06/30/2017

Agency: NIH/NIAID

ID# 1 U01 AI088752

Title: Disease determinants for urban leptospirosis

P.I.: Albert I. Ko, M.D.

Percent effort: 20%

Direct costs per year: $672,751

Total costs for project period: $3,518,149

Project period: 08/10/2010 - 07/31/2016

Agency: Glaxo Smith Kline

ID# [Project](https://public.era.nih.gov/grantfolder/piAppDetails/genericStatus.do?encryptedParam=k1Jn9f6AO-c.VuULQHGaEhStFUNL1DrDiOAhF82dZm50j2AYEcQDfJI.) contract

Title: Prospective evaluation of dengue burden in an urban slum community in Salvador, Brazil

P.I.: Guilherme S. Ribeiro, M.D., Ph.D.

Role on Project: Co-investigator

Percent effort: 5%

Direct costs per year: $1,689,134 (sub-award $29,104)

Total costs for project period: $1,860,700 (sub-award $29,104)

Project period: 01/01/2015 – 06/30/2016

Agency: NIH/NIAID

ID# 1 F31 AI114245

Title: Rodent Population Dynamics and Leptospirosis Infection in Urban Slum Environments

P.I.: Kathryn Hacker

Role on Project: Sponsor

Percent effort: 0%

Direct costs per year: $55,273

Total costs for project period: $110,546

Project period: 07/01/2014 - 06/30/2016

Agency: NIH/NIAID

ID#: 7 R01 AI052473

Title: Natural history of urban leptospirosis

P.I.: Albert I. Ko, M.D.

Percent effort: 8%

Direct costs per year: $253,258

Total costs for project period: $1,731,008

Project period: 02/01/2009 – 01/31/2016

Agency: NIH/NIAID

ID# 1 U01 AI088752 diversity supplement

Title: Disease determinants for urban leptospirosis

P.I.: Albert I. Ko, M.D.

Percent effort: 20% on parent grant

Total costs for project period: $160,379

Project period: 02/15/2013 - 02/14/2014

Agency: NIH/FIC

ID# 1 R24 TW007988

Title: Fogarty International Clinical Research Fellows Program: Determinants of severe leptospirosis in urban slum population

P.I.: José Hagan, M.D.

Role on Project: Mentor

Percent effort: 2.5%

Total costs for project period: $160,045

Project period: 07/01/2011 - 02/15/2013

Agency: NIH/NIAID

ID# 1 U01 AI088752 supplement

Title: Disease determinants for urban leptospirosis

P.I.: Albert I. Ko, M.D.

Percent effort: 20% on parent grant

Direct costs per year: $106,000

Total costs for project period: $150,000

Project period: 08/01/2011 - 07/31/2012

Agency: NIH/NIAID

ID# 2 R01 AI034431

Title: Outer membrane proteins of pathogenic *Leptospira* species

P.I.: David A. Haake, M.D.

Role on Project: Co-investigator

Percent effort: 2%

Total costs for project period: $1,187,500

Project period: 12/01/2002 - 03/31/2012

Agency: NIH/NIAID

ID# 2 R44 AI072856

Title: Rapid serodiagnostic test for leptospirosis

P.I.: Albert I. Ko, M.D. (M-PI with Konstantin Lyashchenko, Ph.D.)

Percent effort: 20%

Direct costs per year: $654,212

Total costs for project period: $2,964,163

Project period: 06/25/2009 - 05/31/2012

Agency: NIH/FIC

ID# 7 D43 TW00919

Title: Emerging infectious diseases and urbanization

P.I.: Albert I. Ko, M.D.

Percent effort: 5%

Direct costs per year: $125,020

Total costs for project period: $793,848

Project period: 09/01/2003 - 07/31/2012

Agency: NIH/FIC

ID# 1 R01 TW007303-05

Title: Transmission of drug-resistant *Streptococcus pneumoniae* in Brazil

P.I.: Joice N. Reis, Ph.D.

Role on Project: Mentor

Percent effort: 0%

Direct costs per year: $50,000

Total costs for project period: $270,000

Project period: 04/01/2005 - 03/31/2011

Agency: NIH/FIC

ID# 1 R24 TW007988

Title: Fogarty International Clinical Research Fellows Program: Burden of leptospirosis in slum communities

P.I.: Juan Calcagno, M.D.

Role on Project: Mentor

Percent effort: 2.5%

Direct costs per year: $62,960

Total costs for project period: $66,377

Project period: 07/01/2009 – 06/30/2010

Agency: NIH/NIAID

ID# 1 R43 AI072856

Title: Rapid serodiagnostic test for leptospirosis

P.I.: Albert I. Ko, M.D. (M-PI with Konstantin Lyashchenko, Ph.D.)

Percent effort: 15%

Total costs for project period: $285,787

Project period: 04/01/2007-06/24/2009

Agency: NIH/NIAID

ID# 1 R01 AI052473

Title: Natural history of urban leptospirosis

P.I.: Albert I. Ko, M.D.

Percent effort: 75%

Total costs for project period: $1,187,500

Project period: 02/15/2003 - 01/31/2009

Agency: NIH/FIC

ID# 1 D43 TW00919

Title: International training in emerging infectious diseases in Brazil

P.I.: Warren D. Johnson Jr. M.D.

Role on Project: Co-investigator

Percent effort: 10%

Direct costs per year: $180,000

Total costs for project period: $972,000

Project period: 09/20/1997 - 08/31/2003

Agency: NIH/NIAID

ID# K08 AI01605

Title: Pathogenesis of leptospirosis

P.I.: Albert I. Ko, M.D.

Percent effort: 100%

Total costs for project period: $235,500

Project period: 09/30/1999-08/31/2002

# Invited Speaking Engagements, Presentations, Symposia & Workshops

2021 2021 JAX Healthcare Forum, Jackson Laboratories, Farmington, USA: “Setting the Stage: The biology and epidemiology of a Coronavirus pandemic. What have we learned?”

2021 Committee for Economic Development, The Conference Board: Townhall webcase: “Understanding the Delta Variant”

2021 ASEAN Military Medical Conference, Pandemic Preparedness: Enhancing Readiness to Respond to and Manage Infectious Disease Outbreaks, Brunei: Invited speaker, “Addressing pandemics through population health-based approaches”

2021 Alan Turing Institute and Royal Statistical Society Laboratory Distinguished Lecture, London, UK: “Methodological challenges in translating data and evidence into policy during the COVID-19 pandemic”

2021 American Industrial Hygiene Association Connecticut River Valley Section Meeting, New Haven USA: Invited speaker, “COVID-19 vaccines”

2020 United States Military Academy, West Point, USA: “Leading in a Pandemic: Examples and Pitfalls during COVID-19”

2020 Brown University Decoding Disparities Lecture Series, Providence, USA: “Effect of Urbanization on Health Disparities”

2020 Pediatric Grand Rounds, Connecticut Children’s Medical Center, Hartford, USA: “Reopening Connecticut as the COVID-19 Pandemic Evolves: Where Do We Stand”

2019 Pediatric Grand Round, Bridgeport Hospital, Bridgeport, USA: “Zika Virus Infection and Congenital Zika Syndrome”

2019 Leptospirosis National Workshop, Indonesian Ministry of Health, Kuta, Indonesia: Invited Speaker, “Interventions for Leptospirosis”

2019 Shanghai Jiao Tong University Medical School, Shanghai, China: “New Challenges for Global Health: Zika Pandemic and Emergence of Congenital Zika Syndrome”

2019 1st Belt & Road International Conference of Infectious Diseases and 11th Conference of the Infectious Disease Society, Chinese Medical Doctor Association, Hainan, China: “Global Emergence of Zika and Congenital Zika Syndrome”

2019 Beijing International Influenza Conference, Beijing Health Commission and CDC, Beijing, China: Invited speaker “Zika Pandemic: Lessons Learned for Public Health Preparedness”

2019 55th Congress of the Brazilian Society of Tropical Medicine, Belo Horizonte, Brazil: Invited speaker, “Maternal Dengue Antibodies and the Risk for Congenital Zika Syndrome Associated Microcephaly”

2019 55th Congress of the Brazilian Society of Tropical Medicine, Belo Horizonte, Brazil: Invited keynote speaker, “Immunological Aspects of Dengue After the Emergence of Zika in an Endemic Area of Salvador”

2019 Technical Workshop for Zika Virus Prepardness and Response for Southeast Asian Countries, Thai Ministry of Health, Pattaya, Thailand: Invited speaker, “Management of Zika in Pregnant Women and Infants.

2018 6th Symposium of the Institute Colombiana de Medicina Tropical, Apartado, Colombia: Invited speaker, “Congenital Zika Syndrome”

2018 6th Symposium of the Institute Colombiana de Medicina Tropical, Apartado, Colombia: Invited speaker, “Leptospirosis”

2018 67th Meeting of the American Society of Tropical Medicine and Hygeine, Pre-Course onThe Global Health Impact of Urbanization and Megacities – Trends, Risk Management and Research Needs, New Orleans, LO: Invited Lecturer, “Emerging Infectious Disease Threats in the Urban Slum Environment”

2018 International Vaccine Institute, Seoul, Korea: “Emergence of Congenital Zika Syndrome”

2018 Shanghai Public Health Clinical Center, Fudan University, Shanghai, China: “Emergence of Congenital Zika Syndrome”

2018 5th International Forum on Clinical Microbiology and Infectious Diseases and 10th Sino-American Forum on Infectious Diseases, Shanghai, China: Invited speaker, “Leptospirosis Vaccine Development”

2018 Zhejiang University School of Basic Medicine, Hangzhou, China: “Leptospirosis: From Rats and Urban Slums to Vaccine Development”

2018 54th Congress of the Brazilian Society of Tropical Medicine, Recife, Brazil: Invited speaker, “Experience of Prospective Cohort Studies of Leptospirosis in Brazil” and “Recurring Neutralizing Antibodies against Zika Virus”

2018 28th European Congress of Clinical Microbiology and Infectious Diseases, Madrid, Spain: Educational Workshop Speaker, “Leptospirosis”

2018 Icahn School of Medicine at Mount Sinai, Department of Microbiology Seminar, New York, NY: “Emergence of Congenital Zika Syndrome”

2018 WHO/NIAID, Workshop on Immune Correlates and Surrogates for Zika Vaccine Development, Bethesda, MD: Invited panelist, “Perspectives on Post-licensure Studies”

2018 Rutgers New Jersey Medical School, Biochemistry and Molecular Genetics and Public Health Research Institute Joint Seminar Series, Newark, NJ: “Emergence of Congenital Zika Syndrome”

2018 WHO, Workshop on Zika Research: Looking Ahead, Geneva, Switzerland: Invited speaker, “Long Term Cohort Studies: Brazil”

2018 Gordon Research Conference, Biology of Spirochetes, Ventura, California: Invited speaker, “Leptospirosis Trek: Going Where No One Has Gone Before”

2018 U.S.-Japan Cooperative Medical Sciences Program 20th International Conference on Emerging Infectious Diseases Viral Panel, Shenzhen, China: Invited Speaker, “Emergence of Congenital Zika Syndrome”

2018 U.S.-Japan Cooperative Medical Sciences Program 20th International Conference on Emerging Infectious Diseases, Shenzhen, China: Invited Speaker, “Mother-to-Child Transmission of Zika Virus”

2017 National Academy of Science, Engineering and Medicine, Forum of Microbial Threats Workshop on Urbanization and Slums: New Transmission Pathways of Infectious Diseases in the Built Environment, Washington, DC: Invited Speaker, “Emerging Vector-Borne and Zoonotic Diseases in the Urban Landscape”

2017 66th Meeting of the American Society of Tropical Medicine and Hygeine, Symposium on Fogarty International Center: Advancing multidisciplinary research to understand the ecology and evolution of infectious diseases, Baltimore, MD: Invited Speaker, “Slums, Rats and Leptospirosis: Eco-epidemiology of the Disease in a Brazilian Urban Settlement”

2017 17th Colombian Congress on Infectious Diseases, Barranquilla, Colombia: Invited speaker, “Leptospirosis and Advances in Vaccination” and “Recurring Neutralizing Antibodies against Zika Virus”

2017 Ministry of Public Health Workshop on Southeast Asia (SEA) Framework for Zika Virus Preparedness and Response, Bangkok, Thailand: Plenary speaker, “Zika Virus Epidemic in Brazil” and “Zika Infection in Pregancy”

2017 XVII Congress of the Argentinean Infectious Disease Society, Mar del Plata, Argentina: Invited Speaker, “Emergence of Congenital Zika Syndrome”

2017 3rd Faculdade de Medicina do Rio Preto and University of Texas Medical Branch Meeting, São José do Rio Preto, Brazil: Invited Speaker, “Zika Virus in Salvador, Brazil”

2017 Institut Pasteur, Leptospirosis Consultation Meeting, Paris, France: Invited speaker, “Leptospirosis Vaccines”

2017 University of Chicago, Microbiology Seminar Series, Chicago, USA: “Emergence of Congenital Zika Syndrome”

2017 Washington University of St. Louis, 5th Annual Global Health and Infectious Disease Conference, St. Louis, USA: Invited speaker, “Congental Zika Syndrome and its Emergence in the Americas”

2017 Gordon Research Conference on Tropical Diseases, Galveston, USA: Invited speaker, “Congental Zika Syndrome and its Emergence in the Americas”

2017 Pediatric Grand Rounds, Weill Cornell Medical College, New York, USA: “Emergence of Zika Congenital Syndrome”

2017 Medical Grand Rounds, Memorial Sloan Kettering Cancer Center, New York, USA: “Zika virus in the Americas”

2016 Charles Franklin Craig Lecture, 65th Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, USA: “Emergence of Zika Congenital Syndrome”

2016 Brazilian Academy of Sciences Workshop, The Zika Menace in the Americas: Challenges and Perspectives, Rio de Janeiro, Brazil: Invited speaker, “Zika outbreak in the Americas: Clinical and epidemiological aspects in the US”

2016 WHO Global Leptospirosis Environment Action Network Meeting, Kuala Lumpur, Malaysia: Keynote Speaker, “Impact and benefits of investments in leptospirosis Control”

2016 Medical Grand Rounds, Weill Cornell Medical College, New York, USA: “Emergence of Zika Congenital Syndrome”

2016 19th International Congress of Tropical Medicine and Malaria, Brisbane, Australia: Keynot speaker, “Environment, social inequity and infectious diseases in urban slum communities”

2016 Universidade de São Paulo-Fiocruz-Institut Pasteur Tripartite workshop, *Beyond Zika*, São Paulo, Brazil: Invited Speaker, “Meeting the diagnostic needs for the Public Health response to Zika”

2016 9th Sino-American Conference on Infectious Diseases, Shanghai, China: Keynote Speaker, “Emergence of Zika virus in the Americas

2016 2nd Faculdade de Medicina do Rio Preto and University of Texas Medical Branch Meeting, São José do Rio Preto, Brazil: Keynote Speaker, “Outbreak of Zika virus-associated microcephaly in newborn infants in Salvador, Brazil”

2016 Zika Meeting, Escola Paulista da Medicina, São Paulo, Brazil: Invited speaker, “Zika: Current situation and perspectives for research”

2016 34th Conference of the Connecticut Infectious Disease Society, New Haven, CT: Invited speaker, "Emergence of Zika virus in the Americas"

2016 NASEM Standing Committee on Medical and Public Health Research During Large-Scale Emergency Events: Invited WebEx Speaker, “Experiences and Challenges Faced In Disaster Research: Infectious Disease Outbreaks”

2016 National Institutes of Health, Zika Virus in the Americas: an HHS expert consultation to accelerate the development of countermeasures, Rockville, MD: Invited Panelist, “Pathogenesis, epidemiology and natural history”.

2016 RedditScience AMA, “Zika Virus Infection and Stillbirths”

2016 Johns Hopkins Bloomberg School of Public Health, Symposium on Zika: The Current Epidemiology, Research Agenda, & Public Health Response, Baltimore, MD: Invited Speaker, “Outbreak study design in Brazil”

2016 National Academic of Sciences, Research Priorities to Inform Public Health and Medical Practice for Domestic Zika Virus Infection: A Workshop”, Washington, DC: Invited Speaker, “Clinical management and public health interventions”

2016 Weill Cornell Medical College-Memorial-Sloan Kettering Infectious Disease Advanced Topics Lecture Series, New York, NY: “Emergence of Zika Virus in the Americas”

2015 RedditScience AMA, “Global mortality and morbidity of leptospirosis”

2015 PAHO International Workshop on Leptospirosis Translational Research, Rio de Janeiro, Brazil: Invited speaker, “Leptospirosis Vaccines”

2015 University of Texas Medical Branch Infectious Disease and Immunity Colloquium, Galveston, Texas: “Rain, rats and sewers: Leptospirosis as an emerging slum health problem”

2015 Interscience Conference on Antimicrobial Agents and Chemotherapy ICAAC/2015, San Diego CA: Invited symposium organizer and speaker, “Streams, Sewers and Slums: Emergenence of Leptospirosis in New Settings”

2015 Universidade Estadual de Pernumbuco Graduate School Seminar Series, Recife, Brazil: Research on the urban health of impoversished populations”

2015 CDC Dengue Branch Seminar Series, San Juan, Puerto Rico: “Rain, rats and sewers: Leptospirosis as an emerging slum health problem”

2015 Gordon Research Conference on Tropical Diseases, Galveston, Texas, Invited speaker and session organizer, “Urban slums and neglected diseases”

2014 12th Latin American Congress of Microbiology, Cartagena, Colombia: Invited speaker, “Zoonotic diseases: Update on disease burden and new emerging threats”

2014 63rd Meeting of the American Society of Tropical Medicine and Hygeine, Symposium on *Leptospirosis at the Human:Animal Interface*, New Orleans LO: Invited Speaker, “Global burden of leptospirosis”

2014 IDWeek 2014, Symposium on *Progress on Tropical Diseases*, Philadelphia, PA: Invited speaker, “Leptospirosis: Addressing the public health challenge for this neglected disease”

2014 Gonçalo Moniz Research Center, Oswaldo Cruz Foundation Seminar, Salvador, Brazil: “Leptospirosis: Slums, flagella and vaccine development for this neglected disease”

2014 32nd Conference of the Connecticut Infectious Disease Society, New Haven, CT: Invited speaker, "Rats, rain, and sewers: Leptospirosis as an emerging slum health problem"

2014 NIH Fogarty International Center's Research and Policy in Infectious Disease Dynamics (RAPIDD), Workshop on *Environmental drivers of behavior and disease*, Stanford CA: Invited speaker

2014 9th Conference Louis Pasteur on *Emerging Infectious Diseases*, Paris, France: Invited speaker, “Leptospirosis as an emerging slum health problem”

2014 Institut Pasteur Department of Microbiology seminar, Paris, France: Invited speaker, “Leptospirosis: Favelas, flagella and vaccine development

2013 62nd Meeting of the American Society of Tropical Medicine and Hygeine, Symposium on *Climate, extreme weather, and waterborne disease: Assessing the evidence and options*, Washington DC: Invited speaker, “Rain, rats and sewers: seasonal epidemics of leptospirosis in urban slum communities”.

2013 National Academy of Sciences, Forum on Microbial Threats, Workshop on *Global environmental change and infectious disease dynamics*, Washington DC: Invited speaker, “Rapid urbanization and social inequity as drivers of infectious disease emergence: Example of leptospirosis in urban slums”

2013 Joint Meeting of the Queensland Tropical Health Alliance and Australasian College of Tropical Medicine: Keynote speaker, “Future patterns of tropical diseases”

2013 Memorial-Sloan Kettering Infectious Disease Advanced Topics Lecture Series, New York, NY: “Slums, rats and leptospirosis”

2013 Ecology and Evolution of Infectious Disease Meeting, Athens GA, “Ecoepidemiology of Leptospirosis in the urban slums of Brazil”

2013 University of Maryland School of Veterinary Medicine Seminar Series, College Park MD: “Leptospirosis as an emerging slum health problem”

2012 USDA International Workshop on *Alternative Methods for Leptospira Vaccine Potency Testing*, Ames IO: Invited speaker, “Next generation of human *Leptospira* vaccines”

2012 28th International Congress of Tropical Medicine and Malaria, Rio de Janeiro, Brazil: Symposium organizer and speaker, “Epidemiology and clinical management of leptospirosis”

2012 52nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco CA: Invited symposium speaker, “Leptospirosis”

2012 University of Connecticut Retreat on Infectious Diseases, Inflammation and Immunology, Storrs CT: Keynote speaker, “Constructing collaborations to address neglected diseases”

2012: Gordon Research Conference, Biology of Spirochetes, Ventura, California: Invited speaker, “Natural history of leptospirosis”

2012 Orotta Medical School, Asmara, Eritrea: “Addressing Public Health Needs through Interdisciplinary and Translational Research”

2012 Orotta Medical School, Asmara, Eritrea: Medical school lecture, “Molecular Epidemiology of Infectious Diseases”

2011 State University of Campinhas, Campinhas, Brazil: Addressing NTDs Through Basic, Clinical and Public Health Research

2011 Yale Week in Brazil, Fundação Estudar, São Paulo, Brazil: Making a contribution to Brazilians and their health: Example of Yale research and training in Brazil

2011 7th Meeting of the International Leptospirosis Society, Merida, Mexico: Invited speaker, “Mounting effective responses to leptospirosis: Public health challenges and needs”

2011 Commemoration of the 178th Anniversary of the Faculty of Medicine, Universidad Autónomo de Yucatan, Merida, Mexico: Invited speaker: Leptospirosis as an emerging cause of hemorrhagic fever””

2011 NIH Fogarty International Center Workshop on Integrating Sociological, Epidemiological and Ecological Study of Infectious Disease Dynamics, Buenos Aires, Argentina: Invited speaker: “Urbanization and social inequity: Epidemiology of leptospirosis in Brazilian slum communities”

2011 Memorial-Sloan Kettering Infectious Disease Advanced Topics Lecture Series, New York, NY: “Understanding the pathogenesis of leptospirosis: From the community to virulence”

2011 47th Congress of the Brazilian Society of Tropical Medicine, Natal, Brazil: Invited speaker, “Global burden of leptospirosis”

2011 Multidisciplinary expert workshop on leptospirosis, Global Outbreak and Alert Response Network, WHO, Marseille, France: Invited speaker, “Prevention of human leptospirosis”

2011 9th University of California at San Francisco Biology of Infectious Disease Retreat: Keynote speaker, “Leptospirosis: An emerging slum health problem”

2011 University of California at Berkeley School of Public Health Seminar Series, Berkeley, CA: “Urban leptospirosis in Brazil”

2011 University of California at Berkeley Urban Slum Health Colloquium, Berkeley, CA: “Urban slums and health in Brazil

2010 59th Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA: Symposium speaker, “Epidemiology of leptospirosis”

2010 Meeting - Operationalizing “One Health”: Assessing Progress and Defining Implementation, Stone Mountain, GA: Invited speaker, “One Health in Brazil”

2010 NIH DMID International Research in Infectious Disease Meeting, National Institutes of Health: Plenary speaker, “Leptospirosis: An emerging slum health problem”

2010 1st International Congress on Leptospirosis, Syphilis and Borreliosis, Instituto Pedro Khouri, Ministry of Health, Havana, Cuba: Invited speaker, “Clinical management of leptospirosis”

2010 46th Congress of the Brazilian Society of Tropical Medicine, Foz Iguaçu, Brazil: Plenary speaker, “Urban leptospirosis as a neglected diseases: Prospective studies in slum communities”

2009 25th Brazilian Congress of Microbiology, Porto das Galinhas, Brazil: Invited speaker, “Pathogenesis of the agent for leptospirosis”

2009 France-Brazil Symposium, French and Brazilian Ministries of Education, Rio de Janeiro, Brazil: Invited speaker, “Leptospirosis: From the favelas to the molecule”

2009 Epidemiology of Microbial Diseases Division Seminar Series, Yale School of Public Health: “Leptospirosis: An emerging slum health problem”

2009 NIH Workshop on Underserved Bacterial Pathogens, Bangkok, Thailand: Invited speaker, “Natural History of Leptospirosis”

2009 Indian Medical Society, Cochin, India: Invited lecturer, “Leptospirosis and multi-organ dysfunction”

2009 George Washington University Department of Microbiology Seminar, Washington D.C: “Leptospirosis: An emerging slum health problem”

2009 Memorial-Sloan Kettering Infectious Disease Advanced Topics Lecture Series, New York, NY: “Leptospirosis as an emerging slum health problem”

1. Wyeth Vaccines Research Seminar, Pearl River, NY: “Vaccine development for leptospirosis”

2009 New York Academy of Sciences Vaccine Discussion Group Series, New York, NY: Seminar organizer and speaker, “Dengue, pneumococcal and meningococcal vaccines: Strategies & delivery for their use in developing countries”

2009 45th Congress of the Brazilian Society of Tropical Medicine, Foz Iguaçu, Brazil: Invited speaker, “Transmission dynamics of urban leptospirosis”

2008 National Institute of Health, Bogota, Colombia: Course lecturer, “National Meeting on Zoonotic Diseases”

2008 21st Pan-American Congress of Veterinary Sciences, Guadalajara, Mexico: Invited speaker, “Leptospirosis as an emerging zoonotic disease in the Americas”

2008 16th National Congress on Animal Health, Guadalajara, Mexico: Invited speaker, “Role of social determinants for zoonotic diseases”

2008 National Autonomous University of Mexico Faculty of Veterinary Medicine Seminar, Mexico City, Mexico: “Epidemiological aspects of leptospirosis as an emerging disease”

2008 27th Congress of the International Society of Tropical Medicine and Malaria, Cheju, Korea: Invited speaker, “Transmission dynamics of urban leptospirosis: Prospective cohort studies in a Brazilian slum community”

2008 International Vaccine Institute Seminar, Seoul, Korea: “Leptospirosis: From the favelas to the molecule”

2008 9th International Symposium on the Epidemiological Control of Vector-Borne Diseases, Buenos Aires, Argentina: Invited speaker, “Urban leptospirosis in Brazil”

2008 Rocky Mountain Laboratories Seminar Series, Hamilton, MO: “Leptospirosis: From the Favelas to the Molecule”

2008 Rockefeller University Science and Society Seminar Series: “Vaccine Development for Leptospirosis”

2008 New York Academy of Sciences Vaccine Discussion Group Series, New York, NY: “Vaccine Development for Leptospirosis”

2008 Memorial-Sloan Kettering Infectious Disease Advanced Topics Lecture Series, New York, NY: “Leptospirosis: Rats, Sewers and Urban Slums”

2007 Federal University of Parana, School of Medicine Seminar, Curitiba, Brazil: “Clinical Management of Leptospirosis”

2007 41st Congress of the Brazilian Society of Clinical Pathology, Salvador, Brazil: Invited speaker, “Epidemiology of leptospirosis and advances in its diagnosis”

2007 Institut Pasteur Seminar, Paris, France: “Leptospirosis: From the favelas to the molecule”

2007 5th European Congress of Tropical Medicine and International Health, Amsterdam, The Netherlands: Invited speaker, “Leptospirosis: A neglected diseases of neglected populations”

2007 43th Congress of the Brazilian Society of Tropical Medicine, Foz Iguaçu, Brazil: Plenary speaker, “Leptospirosis in Brazil: New strategies for intervention”

2006 Novartis Vaccines seminar, Siena, Italy: “Intervention Strategies for Leptospirosis”

2005 54th Meeting of the American Society of Tropical Medicine and Hygiene, Washington, D.C.: Symposium speaker, “Clinical and Laboratory Diagnosis of Leptospirosis”

2005 4th Meeting of the International Society for Leptospirosis, Chiang Mai, Thailand: Invited speaker, “Addressing Severe Clinical Forms of Leptospirosis”

2005 Mahidol University Siriraj Hospital Seminar, Bangkok, Thailand: “New Intervention Strategies for Leptospirosis”

2005 2nd Latin American-Caribbean Conference on Infectious Diseases, Merieux Foundation, Rio de Janeiro, Brazil: Invited speaker, “Emerging Infectious Diseases: New Challenges in the Era of Urbanization and Social Inequality”

2005 41st Congress of the Brazilian Society of Tropical Medicine, Florianopolis, Brazil: Plenary speaker, “Epidemiology of Leptospirosis”

2004 53rd Meeting of the American Society of Tropical Medicine and Hygiene, Miami, FL: “Urban Epidemic Leptospirosis: A New Emerging Pattern in Developing Countries”

2004 Federal University of São Paulo School of Medicine Grand Rounds, São Paulo, Brazil: “Public Health Approaches to Urban Epidemics of Leptospirosis”

2004 New York-Presbyterian Hospital Medical Ground Rounds, New York, NY: “Leptospirosis: From the Favelas to the Molecule”

2004 Pan-American Health Organization and Pediatric Dengue Vaccine Initiative Workshop in Dengue Disease Burden Studies, Panama City, Panama: “Dengue Disease Burden in Brazil”

2004 Gordon Research Conference on the Biology of Spirochetes, Ventura, CA; Invited speaker, “Surface-Associated Ig-Like Repeat Domain Proteins in Pathogenic *Leptospira*”

2003 Universidad del Valle, Cali, Colombia: “Urban Leptospirosis as an Emerging Infectious Disease”

2003 Thai Ministry of Public Health, Nonthaburi, Thailand: “Epidemiology of Urban Leptospirosis and Strategies for its Prevention”

2003 22nd Congress of the Brazilian Society of Microbiology, Florianopolis, Brazil: “Identification of a New Virulence Factor in *Leptospira”*

# PROFESSIONAL SERVICE

**Peer Review Groups/Grant Study Sections**

2021 Ad-hoc Member, Special Emphasis Panel, **ZRG1 PSE-N (90),** Infectious Disease and Reproductive Epidemiology (IRAP) Study Section, NIH

2019 Ad-hoc Member, Special Emphasis Panel, ZRG1 IDM-Z (55), PAR Panel Global Infectious Disease Training Program Study Section, NIH

2015-2019 Standing Member, Clinical Research and Field Studies of Infectious Diseases (CRFS) Study Section, NIH

2014 Ad-hoc Member, Scientific Review Group, Clinical Research and Field Studies of Infectious Diseases (CRFS) Study Section, NIH

2013 Ad-hoc Member, Special Emphasis Panel, ZRG1 IDM-S (02), NIH

2012 Ad-hoc Member, International Research in Infectious Diseases including AIDS (IRIDA) Study Section, ZRG1 IDM-R (50), NIH

2011 Ad-hoc Member, International Research in Infectious Diseases including AIDS (IRIDA) Study Section, ZRG1 IDM-R (50), NIH

**Journal Service**

2015-2017 Member, International Editorial Advisory Board, *Memorias do Instituto Oswaldo Cruz*

2014-present Member, Editorial Board, *Revista da Sociedade Brasileira da Medicina Tropical*

2005-2020 Deputy Editor, *PLoS Neglected Tropical Diseases*

1995-present Reviewer for *New England Journal of Medicine, Lancet, Lancet Infectious Diseases, PLoS Medicine, PLos One, American Journal of Medicine, Pediatrics, Clinical Infectious Diseases, Emerging Infectious Diseases, Journal of Clinical Microbiology, Journal of the American Society of Tropical Medicine, MBio.*

**Professional Organizations**

Advisory Boards

2021-present Member, V181 Dengue Program Scientific Advisory Committee, Merck & Co, Inc

2020-present Member (Chair, 2021), Inaugural Expert Panel, Reckitt Global Hygiene Institute

2020-present Member, Scientific and Technology Advisory Group, Shanghai Jia Tong University-University of Edinburgh One Health Center.

2019-present Taskforce Member, WHO R&D Roadmap for Zika Virus.

2018-present Member, WHO R&D Blueprint Working Group on Clinical Trial Design

2018 Working Group Member, 2018 Annual Review of the WHO R&D Blueprint Priority List of Diseases.

2016-present Member, Zika Task Force, Global Virus Network.

2011-present Steering Committee Member, Global Leptospirosis Environmental Action Network (GLEAN), WHO.

2011 Advisory Group Member, Meningitis Environmental Risk Information Technologies (MERIT) Program, WHO.

2011-2013 Consultant, Global Outbreak and Alert Response Network (GOARN), WHO.

2009-2013 Member, Leptospirosis Burden Epidemiology Review Group (LERG), WHO.

2008-2011 Member, Committee on Guidelines for the Diagnosis and Clinical Management of Leptospirosis, Brazilian Ministry of Health.

2008-2010 Advisor, Zoonotic Disease Group, Department of Epidemiological Surveillance, Colombian National Institutes of Health.

2008 Member, Working Group on Methods for Assessing the Burden of Leptospirosis, WHO.

2000-2010 Advisor, Meningitis Division, Secretariat for Health Surveillance, Brazilian Ministry of Health.

1999-2010 Advisor, Zoonotic Disease Coordination, Secretariat for Health Surveillance, Brazilian Ministry of Health.

Societies

2021-present Member, American Association of Physicians

2020 Member, Connecticut Academy of Science and Engineering

2014-present Member, Connecticut Infectious Disease Society

2011-2017 Judge, Young Investigator Award, American Society of Tropical Medicine and Hygiene

2008-2011 Member, Steering Committee for the Vaccine Discussion Group, New York Academy of Sciences

2004-present Member, Fellow (2019), Board of Directors (2018-2022), American Society of Tropical Medicine and Hygiene

2001-present Member, Brazilian Society of Tropical Medicine

1999-present Executive Board Member (2009-present), International Leptospirosis Society

1998-present Fellow (2008), Infectious Disease Society of America

1995-present Fellow (2014), American College of Physicians

1995-present Member, American Society of Microbiology

1992-present Member, Massachusetts Medical Society

Meeting Planning/Participation

2020 Participant, Virtual Meeting of the Global Research and Innovation Forum on COVID-19, WHO, Geneva, Switzerland

2020 Participant, Global Research and Innovation Forum: Towards a Roadmap for the 2019 novel Coronavirus, Geneva, Switzerland

2019 Participant, Workshop: WHO R&D Blueprint Working Group on Clinical Trial Design for Ebola, Crimean Congo Haemorrhagic Fever and Rift Valley Fever, Geneva, Switzerland.

2018 Participant, WHO R&D Blueprint Working Group, 5th Consultation on Clinical Trial Designs on Lassa, Ebola and Chikugunya Vaccines, Geneva, Switzerland.

2018 Participant, WHO R&D Blueprint Working Group, Efficacy trials of Plague and Lassa Vaccines: Endpoints, Trial Design, Site Selection, Paris, France.

2018 Panelist, Immune Correlates and Surrogates for Zika Vaccine Development, WHO and NIAID Bethesda, MD.

2018 Participant, Zika Research: Looking Ahead, WHO, Geneva, Switzerland.

2018-present Member, Organizing Committee, *2020 Pan American Dengue Research Network Meeting*, Lima, Peru.

2017-2018 Co-chair, Scientific Sub-Committee, 2018 Pan American Dengue Research Network Meeting, Galveston, TX.

2017 Advisor, Leptospirosis Research and Development Strategy Meeting, Paris, France, Institut Pasteur.

2017 Participant, Efficacy Trials of ZIKV Vaccines: Endpoints, Trial Design, Site Selection, WHO, Geneva, Switzerland.

2017 Planning Committee Member, National Academic of Sciences, Engineering and Medicine Workshop: *Urbanization and Slums: New Transmission Pathways of Infectious Diseases in the Built Environment*, Washington, DC.

2017 Participant, Scientific Consultation on Zika Virus Vaccine Development, WHO and NIAID Bethesda, MD.

2015 Scientific Committee Member, 9th Meeting of the International Leptospirosis Society, Fukuoka, Japan.

2015 Session Organizer, Gordon Research Conference on Tropical Diseases, Galveston, TX.

2014 Symposium Organizer, 63rd Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, LO.

2013 Consultant, Fiji Leptospirosis Experts Meeting, West Pacific Regional Office/WHO and Fijian Ministry of Health, Suva, Fiji.

2013 Member, Scientific Committee, 49th Congress of the Brazilian Society of Tropical Medicine, Campo Grande, Brazil

2013 Member, Scientific Committee, 8th Meeting of International Leptospirosis Society, Cochin, India.

2011 Member, Scientific Committee, 7th Meeting of International Leptospirosis Society, Merida, Mexico.

2010 Participant, Workshop: Operationalizing One Health: Assessing progress and defining implementation, World Organization for Animal Health (OIE), Atlanta, GA.

2010 Member, Scientific Committee, Annual Meeting of the International Network of Pasteur Institute, Hong Kong, PRC.

2009 Member, Advisory Board, 6th Meeting of the International Leptospirosis Society, Quito, Ecuador.

2005 Member, Advisory Board and Abstract Selection Committee, 4th Meeting of the International Leptospirosis Society, Chiang Mai, Thailand.

Course Planning/Participation

2019 Course organizer and lecturer, 19th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2019 Lecturer, “Leptospirosis”, Vector-Borne and Zoonotic Diseases Course, Harvard School of Public Health, Boston, MA.

2019 Lecturer, “Leptospirosis”, Water-Borne Infections Course, Harvard School of Public Health, Boston, MA.

2018 Lecturer, “Leptospirosis”, Vector-Borne and Zoonotic Diseases Course, Harvard School of Public Health, Boston, MA.

2018 Lecturer, “Leptospirosis”, Water-Borne Infections Course, Harvard School of Public Health, Boston, MA.

2018 Course organizer and lecturer, 18th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2018 Lecturer, Master’s Course in Vaccinology and Pharmaceutical Development, University of Siena, Siena Italy.

2017 Lecturer, “Leptospirosis”, Water-Borne Infections, Harvard School of Public Health, Boston, MA.

2017 Course organizer and lecturer, 17th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2016 Course organizer and lecturer, 16th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2015 Course organizer and lecturer, 15th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2015 Lecturer, “Leptospirosis”, Water-Borne Infections Course, Harvard School of Public Health, Boston, MA.

2014 Course organizer, Fiocruz-Yale Clinical Research Course, Oswaldo Cruz Foundation, Salvador, Brazil.

2014 Course organizer and lecturer, 14th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2013 Course organizer and lecturer, 13th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2012 Course organizer and lecturer, Yale-Fiocruz-Berkeley Course on Ecological and Social Determinants of Health, Oswaldo Cruz Foundation, Salvador, Brazil.

2012 Course organizer and lecturer, 12th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2011 Course organizer and lecturer, 11th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.”

2010: Organizing committee member and lecturer, Collaborative Public Health Field Course, Harvard School of Public Health and Oswaldo Cruz Foundation, Salvador, Brazil.

2010 Course organizer and lecturer, 10th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2009: Lecturer, Vaccinology Course, Oswaldo Cruz Institute, Rio de Janeiro, Brazil,

2009: Organizing committee member and lecturer, Collaborative Public Health Field Course, Harvard School of Public Health and Oswaldo Cruz Foundation, Salvador, Brazil.

2009 Course organizer and lecturer, 9th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2008: Lecturer, “National Workshop on Leptospirosis”, Ministry of Health and Malaysian Society of Infectious Diseases, Kuala Lumpur, Malaysia.

2008 Course organizer and lecturer, 8th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2008: Lecturer, 4th International Workshop on Leptospirosis, Instituto Pedro Khouri, Ministry of Health, Havana, Cuba.

2007 Course organizer and lecturer, 7th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2006: Lecturer, 3rd International Workshop on Leptospirosis, Instituto Pedro Khouri, Ministry of Health, Havana, Cuba.

2006 Course organizer and lecturer, 6th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2006: Lecturer, Workshop on Leptospirosis, Institute of Tropical Medicine, Ministry of Health, Azores, Portugal.

2005 Course organizer and lecturer, 5th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2004: Lecturer, 2nd International Workshop on Leptospirosis, Instituto Pedro Khouri, Ministry of Health, Havana, Cuba.

2004 Course organizer and lecturer, 4th Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2003: Course organizer and lecturer, Molecular Epidemiology of Emerging Infectious Diseases, Congress of the Brazilian Society of Infectious Diseases, Goiania, Brazil.

2003 Course organizer and lecturer, 3rd Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2002 Course organizer and lecturer, 2nd Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

2001 Course organizer and lecturer, 1st Latin American Course on the Molecular Epidemiology of Infectious Diseases, Oswaldo Cruz Foundation, Salvador, Brazil.

**Yale University Service**

School of Public Health Committees

2017-2019 Member, Search Committee for faculty in climate change and health, Yale School of Public Health

2017-2018 Chair, Search Committee for junior faculty in field and laboratory-based epidemiology, Department of Epidemiology of Microbial Diseases, Yale School of Public Health

2016 Member, Search Committee for junior faculty in global health justice, Yale School of Public Health

2014-2019 Member, Steering Committee, Yale Climate Change and Health Initiative, Yale School of Public Health

2013-2014 Member, Search Committee for junior faculty in global infectious diseases, Department of Epidemiology of Microbial Diseases, Yale School of Public Health

2011-2012 Chair, Search Committee for junior faculty in epidemiology, Division of Epidemiology of Microbial Diseases, Yale School of Public Health

2010-2020 Member, Appointment & Promotions Committee, Yale School of Public Health

2010-2019 Member, Global Health Concentration Committee, Yale School of Public Health

2010-2011 Member, Search Committee for joint Yale School of Public Health-Yale Cancer Center junior faculty

School of Medicine Committees

2020-present COVID Studies Translational Subcommittee

2020-present COVID-19 Response Coordination Team (CoReCT)

2012-2018 Member, Advisory Committee, Yale Doris Duke Charitable Foundation International Clinical Medical Student Fellowships

2011-2016 Member, Downs Fellowship Committee

2010, 2011 Reviewer, Yale Center for Clinical Investigation Scholar Awards

University Committees

2020-present COVID-19 Contingency Planning Committee, Public Health

2019-present Provost's Standing Advisory and Appointments Committee (SAAC) for the Yale School of Management

2018-present Council Member and Advisory Committee Member, Council on Latin American & Iberian Studies

2018-2019 Yale College Fulbright Study/Research Committee

2016-present Provost's Standing Advisory and Appointments Committee (SAAC) for the Yale School of Nursing

2014-2015 Fox Fellowship Committee

2013-present Member, Steering Committee, Global Health Justice Partnership, Yale Schools of Public Health and Law

2012-2013 Yale College Fulbright Study/Research Committee

2011-2015 Member, Global Health Initiative (GHI) Faculty Advisory Committee

Yale College

2011-present Fellow and College Advisor, Davenport College

# Public Service

2020-2021 Member, Scientific Subgroup, Governor’s COVID-19 Vaccine Advisory Group, State of Connecticut

2020-present Special Advisor to the Governor on COVID-19, State of Connecticut

2020 Co-Chair, Reopen Connecticut Advisory Group, State of Connecticut

2002-present Founding member, Urban Health Council of the Residents’ Associations of Pau da Lima, Salvador, Brazil

**BIBLIOGRAPHY**

1. **Peer-Reviewed Original Research Articles**
2. Roush WR, Ko AI, Gillis HR. Stereochemical aspects of the intramolecular Diels-Alder reactions of methyl deca-2,7,9-trienoates. 1. Thermal cyclizations. **J Org Chem** 1980;45(21): 4264-7.
3. Roush WR, Gillis HR, Ko AI. Stereochemical aspects of the intramolecular Diels-Alder reactions of methyl deca-2,7,9-trienoates. 3. Thermal, Lewis acid-catalyzed, and asymmetric cyclizations. **J Am Chem Soc** 1982;104(8): 2269-83.
4. Waxman DJ, Ko AI, Walsh C. Regioselectivity and stereoselectivity of androgen hydroxylation catalyzed by cytochrome P-450 isozymes purified from phenobarbital-induced rat liver**. J Biol. Chem** 1983;258(19): 11937-47.
5. Harn D, Oligino L, Ko A, Stein L. Protective epitopes for *Schistosoma mansoni*. **J Cell Biochem Suppl** 1987;11A: 151.
6. Ko A, Harn D. Characterization of protective and non-protective surface membrane carbohydrate epitopes of *Schistosoma mansoni*. **Mem Inst Oswaldo Cruz** 1987;82(4): 115-9.
7. Harn D, Quinn J, Cianci C, Ko A. Evidence that a protective epitope is involved in early but not late phase immunity in *Schistosoma mansoni*. **J Immunol** 1987;138(5): 1571-80.
8. Ko A, Drager U, Harn D. A *Schistosoma mansoni* epitope recognized by a protective monoclonal antibody is identical to the Stage-Specific Embryonic Antigen 1. **Proc Nat Acad Sci** **USA** 1990;87: 4159-63. PMCID: PMC54067.
9. Ko AI, Reis MG, Dourado CR, Johnson Jr WD, Riley LW. Urban epidemic of severe Leptospirosis in Brazil. Salvador Leptospirosis Study Group. **Lancet** 1999;354:820-825.
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1. *Surface proteins of* Leptospira

Authors: Ana L. T. O. Nascimento, Albert I. Ko, Paulo L. Ho, Elizabeth A. L. Martins, Luciana C. C. Leite, Marcia Gamberini, Joao C. Setúbal, Marie-Anne Van Sluys, Luis E. A. Camargo, Claudia B. Monteiro-Vitorello, Joao P. Kitajima, Jesus A. Ferro, Mariana C. Oliviera, Helaine Carrer, Luiz L. Coutinho, Julio Croda, Hamza El-Dorry, Emer S. Ferro, Maria Inês T. Ferro, Luis R. Furlan, Eder A. Giglioti, Gustavo H. Goldman, Maria Helena S. Goldman, Ricardo Harakaya, Edna T. Kimura, Eiko E. Kuramae, Eliana G. M. Lemos, Manoel V. F. Lemos, Celso L. Marino, Luiz R. Nunes, Regina C. de Oliveira, Gonçalo G. Pereira, Mitermayer G. dos Reis, Isadora Siqueira, Walter J. Siqueira, Siu M. Tsai.

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3. *LigA and LigB (Leptospira Ig-like (Lig) domain) proteins for immunization and diagnostics*

Authors: Albert Ko, Marco Medeiros, Everton Fagonde da Silva, Mitermayer Galvão Reis, Alan McBride, Flávia McBride, Odir Dellagostin, João Gabriel Ramos, Júlio Croda

National Institute of Industrial Property (Brazil): P10505529, Submitted 05/02/2005

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1. *Methods and compositions of protein antigens for the diagnosis and treatment of leptospirosis*

Authors: Albert Ko, Philip Felgner, Elsio Wunder

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1. *Compositions and methods of preparing* Leptospira

Authors: Albert Ko, Elsio Wunder

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1. *Methods and compositions for the detection of flavivirus infections*

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United States Patent Office: 62/503,201, Submitted 05/08/2017

World Intellectual Property Organization: PCT/US2018/031540, Submitted 05/08/2018