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.
10. Almeida R, D’Oliveira Jr. A, Machado P, Bacellar O, Ko AI, de Jesus AR, Mobashery N, Carvalho EM. Randomized, double-blind study of stibogluconate plus human granulocyte macrophage colony-stimulating factor versus stiboglucoate alone in the treatment of cutaneous leishmaniasis*.* **J Infect Dis** 1999;180:1735-37.
11. Ko AI, Reis JN, Coppola SJ, Gouveia EL, Cordeiro SM, Lôbo TS, Pinheiro RM, Salgado K, Dourado CR, Tavares-Neto J, Rocha H, Reis MG, Johnson, Jr., WD, Riley LW. Clonally related penicillin-nonsusceptible serotype 14 *Streptococcus pneumoniae* from cases of meningitis in Salvador, Brazil. **Clin Infect Dis** 2000;30:78-86.
12. BarocchiMR, Ko AI, Ferrer SR, Faria MT, ReisMG, Riley LW. Identification of a new repetitive element in *Leptospira interrogans* serovar copenhageni and its application to PCR-based differentiation of *Leptospira* Serogroups. **J Clin Microbiol** 2001;39:191-95. PMCID: PMC87700.
13. Santiago M, Martinelli R, Ko A, Reis EA, Fontes RD, Nascimento EG, Pierangeli S, Espinola R, Gharavi A. Anti-β2 glycoprotein I and anticardiolipin antibodies in leptospirosis, syphilis and Kala-azar. **Clin Exp Rheumatol** 2001;19(4):425-30.
14. Guerreiro H, Croda J, Flannery B, Mazel M, Matsunaga J, Reis MG, Levett P, Ko AI, Haake D. Leptospiral proteins recognized by the humoral immune response during human leptospirosis. **Infect Immun** 2001;69: 4958-68. PMCID: PMC98588.
15. Flannery B, Haake D, Costa D, Guerreiro H, Carvalho F, Silva ED, Ferreira AP, Riley LW, Reis MG, Ko AI. Evaluation of recombinant *Leptospira* antigen-based enzyme immunoassays for serodiagnosis of leptospirosis. **J Clin Microbiol** 2001;39(9):3303-3310. PMCID: PMC88335.
16. FlanneryB, Pereira MM, Velloso LF, Carvalho CC, Codes LG, Orrico GS, Dourado CMR, Riley LW, Reis MG, Ko AI. Referral pattern of leptospirosis cases during a large urban epidemic of dengue. **Am J Trop Med Pub Hyg** 2001;65(5):657-663.
17. Reis JN, Cordeiro SM, Copolla SJ, Salgado K, Bonfim G, Teixeira LM, Thompson TA, Facklam R, Reis MG, Ko AI. Population-based survey of antimicrobial susceptibility and serotype distribution of *Streptococcus pneumoniae* from meningitis patients in Salvador, Brazil. **J Clin Microbiol** 2002;40(1): 275-277. PMCID: PMC120107.
18. Silva HR, Tanajura GM, Tavares-Neto J, Gomes MLC, Linhares AC, Vasconcelos PFC, Ko AI. Aseptic meningitis syndrome due to enterovirus and *Leptospira* sp in children from Salvador, Bahia. **Rev Soc Bras Med Trop** 2002;35(2):159-165.
19. Sarkar U, Nascimento SF, Barbosa R, Martins R, Nuevo H, Kalafanos I, Grunstein I, Flannery B, Dias J, Riley LW, Reis MG, Ko AI. A population-based case-control investigation of risk factors for leptospirosis during an urban epidemic. **Am J Trop Med Pub Hyg** 2002:66(5):605-10.
20. Reis JN, Lima JB, Ribeiro GS, Cordeiro SM, Salgado K, Reis MG, Ko AI. Antimicrobial resistance in *Haemophilus influenzae* isolated during population-based surveillance for meningitis in Salvador, Brazil. **Antimicrobial Agents Chemotherap**. 2002;46(11):3641-3643. PMCID: PMC128747.
21. Barocchi M, Ko AI, Reis MG, McDonald KL, Riley LW. Rapid translocation of polarized MDCK cell monolayers by *Leptospira interrogans*: An invasive but not intra-cellular pathogen. **Infect Immun** 2002;70(12):6926-32. PMCID: PMC132952.
22. Turetz ML, Machado PR, Ko AI, Alves F, Bittencourt A, Almeida RP, Mobashery N, Johnson Jr WD, Carvalho EM. Disseminated leishmaniasis: A new and emerging form of leishmaniasis. **J Infect Dis** 2002;186:1829-34.
23. Ribeiro GS, Reis JN, Cordeiro SM, Lima JBT, Gouveia ELG, Petersen M, Salgado K, Silva HR, Zanella RC, Almeida SCG, Brandileone MC, Reis MG, Ko AI. Prevention of Haemophilus influenzae type B meningitis and emergence of serotype replacement with type A strains following introduction of Hib immunization in Brazil. **J Infect Dis** 2003;187(1):109-16.
24. Ludtke CB, Coutinho ML, Jouglard SDD, Moreira CN, Fernandes CHP, Brod CS, Haake DA, Ko AI, Dellagostin OA, Aleixo JAG. Monoclonal antibodies against an outer membrane protein from pathogenic *Leptospira*. **Braz J Microbiol** 2003;34(S1):1-4.
25. Matsunaga J, Barocchi MA, Croda J, Young TA, Sanchez Y, Siqueira I, Bolin CA, Reis MG, Riley LW, Haake DA, Ko AI. Pathogenic *Leptospira* species express surface-exposed proteins belonging to the bacterial immunoglobulin superfamily. **Mol Microbiol** 2003;49(4):929-45. PMCID: PMC1237129.
26. [Nascimento AL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Nascimento%20AL%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Ko AI](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ko%20AI%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Martins EA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Martins%20EA%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Monteiro-Vitorello CB](https://www.ncbi.nlm.nih.gov/pubmed/?term=Monteiro-Vitorello%20CB%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Ho PL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ho%20PL%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Haake DA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Haake%20DA%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Verjovski-Almeida S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Verjovski-Almeida%20S%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Hartskeerl RA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hartskeerl%20RA%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Marques MV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Marques%20MV%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Oliveira MC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Oliveira%20MC%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Menck CF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Menck%20CF%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Leite LC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Leite%20LC%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Carrer H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Carrer%20H%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Coutinho LL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Coutinho%20LL%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Degrave WM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Degrave%20WM%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Dellagostin OA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dellagostin%20OA%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [El-Dorry H](https://www.ncbi.nlm.nih.gov/pubmed/?term=El-Dorry%20H%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Ferro ES](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ferro%20ES%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Ferro MI](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ferro%20MI%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Furlan LR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Furlan%20LR%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Gamberini M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gamberini%20M%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Giglioti EA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Giglioti%20EA%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Góes-Neto A](https://www.ncbi.nlm.nih.gov/pubmed/?term=G%C3%B3es-Neto%20A%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Goldman GH](https://www.ncbi.nlm.nih.gov/pubmed/?term=Goldman%20GH%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Goldman MH](https://www.ncbi.nlm.nih.gov/pubmed/?term=Goldman%20MH%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Harakava R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Harakava%20R%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Jerônimo SM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jer%C3%B4nimo%20SM%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Junqueira-de-Azevedo IL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Junqueira-de-Azevedo%20IL%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Kimura ET](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kimura%20ET%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Kuramae EE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kuramae%20EE%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Lemos EG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lemos%20EG%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Lemos MV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lemos%20MV%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Marino CL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Marino%20CL%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Nunes LR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Nunes%20LR%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [de Oliveira RC](https://www.ncbi.nlm.nih.gov/pubmed/?term=de%20Oliveira%20RC%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Pereira GG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pereira%20GG%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Reis MS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Reis%20MS%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Schriefer A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Schriefer%20A%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Siqueira WJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Siqueira%20WJ%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Sommer P](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sommer%20P%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Tsai SM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Tsai%20SM%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Simpson AJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Simpson%20AJ%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Ferro JA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ferro%20JA%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Camargo LE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Camargo%20LE%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Kitajima JP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kitajima%20JP%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Setubal JC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Setubal%20JC%5BAuthor%5D&cauthor=true&cauthor_uid=15028702), [Van Sluys MA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Van%20Sluys%20MA%5BAuthor%5D&cauthor=true&cauthor_uid=15028702). Comparative genomics of two *Leptospira interrogans* serovars reveals novel insights into physiology and pathogenesis. **J Bacteriol** 2004;186(7):2164-2172. PMCID: PMC374407.
27. Santiago M, Martinelli R, Reis MG, Reis EA, Ko A, Fontes RD, Silva MP, Nascimento EG, de Jesus R, Pierangeli S, Espínola R, Gharavi A. Diagnostic performance of anti-β2 Glycoprotein I and anticardiolipin assays for clinical manifestations of the antiphospholipid syndrome. **Clin Rheumatol** 2004;23:485-489.
28. Castellucci L, Cheng LH, Araújo C, Guimaraes LH, Lessa H, Machado P, Almeida MF, Oliveira A, Ko A, Johnson WD, Wilson ME, Carvalho EM, De Jesus AR**. Familial aggregation of mucosal leishmaniasis in Northeast Brazil. Am J Trop Med Hyg 2005;73(1):69-73.**
29. Cullen PA, XuX, MatsunagaJ, SanchezY, Ko AI, Haake DA, Adler B. The surfaceome of *Leptospira.* **Infect Immun** 2005;73:4853-4863. PMCID: PMC1201201.
30. Bonfim MRQ, Ko AI, Khoury MC. Evaluation of the enzyme-linked immunosorvent assay with recombinant leptospira antigen rLipL32 for the serodiagnosis of bovine leptospirosis. **Vet Microbiol** 2005;109:89-94.
31. McBride AJA, Athanazio DA, Reis MG, Ko AI. Leptospirosis. **Curr Opin Infect Dis** 2005;18(5):376-86. PMID: 16148523.
32. Santiago MB, Martinelli R, Reis MG, Reis EA, Ko AI, Fontes RD, Silva MP, Nascimento EG, Espinola R, Harris N, Gharavi A, Pierangeli S. Frequency of antiphospholipid antibodies in patients with infectious diseases using three different ELISA methods. **J Bras Patol Med Lab** 2006;42(1):17-21.
33. Maciel EAP, Athanazio DA, Reis EAG, Cunha FQ, Queiroz A, Almeida D, McBride AJA, Ko AI. Reis MG. High serum nitric oxide levels in patients with severe leptospirosis. **Acta Tropica**. 2006;100(3):256-60. PMCID: PMC1805659.
34. Doungchawee G, Sirawaraporn W, Ko AI, Kongtim S, Naigowit P, Thongboonkerd V. Use of immunoblotting as an alternative method for detecting and serogrouping *Leptospira*. **J Med Microbiol**. 2007;56(5):587-92*.*
35. Tomich RGC, Bomfim MQR, Koury MC, Pellegrin AO, Pellegrin LA, Ko AI, Barbosa-Stancioli EF. Leptospirosis serosurvey in bovines from Brazilian Pantanal using IgG ELISA with recombinant protein LipL32 and microscopic agglutination test. **Braz J Microbiol** 2007;38:674-680.
36. CoutinhoML, Vasconcellos FA, Fernandes CPH, Seyffert N, Seixas FK, Haake DA, Ko AI, Dellagostin OA, Aleixo JAG. Evaluation of the anti-LipL32 monoclonal antibodies potential for use in leptospirosis immunodiagnostic tests. **J Immunoassay Immunochem** 2007;28(3):279-288*.*
37. Fernandes CPH, Seixas FK, Coutinho ML, Vasconcellos FA, Seyffert N, Brod CS, Croda J, McBride AJ, Ko AI, Dellagostin OA, Aleixo JAG. Monoclonal antibodies against LipL32, the major outer membrane protein of pathogenic *Leptospira*: Production, characterization and testing in diagnostic applications. **Hybridoma** 2007;26(1):35-41.
38. Riley LW, Ko AI, Unger A, Reis MG. Slum health: Diseases of neglected populations. **BMC Intl Health Human Rights.** 2007;7:2. PMCID: PMC1829399.
39. Silva EF, Brod CS, Cerqueira GM, Bourscheidt D, Seyffert N, Queiroz A, Santos CS, Ko AI, Dellagostin OA. Isolation of *Leptospira noguchii* from sheep. **Vet Microbiol**. 2007;121(1-2):144-149*.* PMCID: PMC1868676.
40. Croda J, Ramos JGR, Matsunaga J, Queiroz A, Homma A, Riley LW, Haake DA, Reis MG, Ko AI. Antibody response to *Leptospira* Ig-like protein is a serodiagnostic marker for acute leptospirosis**. J Clin Microbiol**2007;45(5):1528-34*.* PMCID: PMC1865864.
41. Ribeiro GS,Lima JBT, Reis JN, Gouveia EL, CordeiroSM, Lôbo TS, Pinheiro RM, Ribeiro CT, Neves AB, Salgado K, Silva HR, Reis MG, Ko AI. *Haemophilus influenzae* meningitis five years after introduction of the *Haemophilus influenzae* type B conjugate vaccine in Brazil. **Vaccine** 2007:25:4420-28.
42. McBride AJA, Pereira FA, da Silva ED, de Matos RB, da Silva ED, Ferreira AGP, Reis MG, Ko AI. Evaluation of the *EIE-IgM Leptospirose* assay for the serodiagnosis of leptospirosis. **Acta Tropica** 2007;102:206-211. PMCID: PMC1994159.
43. Ristow P, Bourhy P, McBride FWC, Figueira CP, Huerre M, Ave P, Saint Girons I, Ko AI, Picardeau M. Virulence attenuation in *Leptospira interrogans* by disruption of an *ompA*-like gene. **PLoS Pathogens**2007;3(7):e97*.* PMCID: PMC1914066.
44. Silva EF, Medeiros MA, McBride AJA, Matsunaga J, Esteves GS, Ramos JGR, Croda J, Homma A, Dellagostin OA, Haake DA, Reis MG, Ko AI. The terminal portion of leptospiral immunoglobulin-like protein LigA confers protective immunity against lethal infection in the hamster model of leptospirosis. **Vaccine** 2007; 25(33):6277-6286. PMCID: PMC1994161.
45. [Dias JP](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Dias+JP%22%5BAuthor%5D), [Teixeira MG](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Teixeira+MG%22%5BAuthor%5D), [Costa MC](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Costa+MC%22%5BAuthor%5D), [Mendes CM](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Mendes+CM%22%5BAuthor%5D), [Guimaraes P](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Guimaraes+P%22%5BAuthor%5D), [Reis MG](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Reis+MG%22%5BAuthor%5D), [Ko A](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Ko+A%22%5BAuthor%5D), [Barreto ML](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&itool=pubmed_Abstract&term=%22Barreto+ML%22%5BAuthor%5D). Factors associated with *Leptospira sp* infection in a large urban center in northeastern Brazil. **Rev Soc Bras Med Trop** 2007;40(5):499-504.
46. McBride AJA, Santos BL, Queiroz A, Santos AC, Hartskeerl RA, Reis MG, Ko AI. Evaluation of four whole-cell *Leptospira*-based serological tests for the diagnosis of urban leptospirosis. **Clin Vaccine Immunol** 2007;14:1245-1248*.* PMCID: PMC2043306.
47. Matsunaga J, Medeiros MA, Sanchez Y, Werneid KF, Ko AI. Osmotic regulation of expression of extracellular matrix binding proteins and a hemolysin of *Leptospira interrogans*: Differential effects on LigA and Sph2 extracellular release. **Microbiology** 2007;153(10)3390-3398.
48. Tucunduva de Faria M, Athanazio DA, Ramos EAG, Silva EF, Calderwood MS, Reis MG, Ko AI. Morphological alterations in the kidney of ratswith natural and experimental leptospiral infection. **J Comp Pathol** 2007;137:231-238.
49. Cordeiro SM, Neves AB, Ribeiro CT, Petersen M, Gouveia EL, Ribeiro GS, Lobo TS, Reis JN, Salgado KM, Reis MG, Ko AI. Active hospital-based surveillance for meningococcal meningitis in Brazil. **Trans Roy Soc Trop Med Hyg**2007;[101(11](https://webvpn.med.cornell.edu/science%2CDanaInfo%3D.awxyCwholvloou4sr9Qu76%2B?_ob=PublicationURL&_tockey=%23TOC%2313100%232007%23998989988%23669603%23FLA%23&_cdi=13100&_pubType=J&view=c&_auth=y&_acct=C000022719&_version=1&_urlVersion=0&_userid=492150&md5=bc5ab294ba472d9df9abba4f72b2e8e8)):1147-1153*.* PMCID: PMC2042916.
50. Spichler A, Ko AI, Fagonde E, De Brito T, Silva A, Silva, C, Athanazio D; Seguro A. Reversal of renal tubule transporter down-regulation during severe leptospirosis with antimicrobial therapy. **Am J Trop Med Hyg** 2007;77(6):1111–1119.
51. Maciel EAP, de Carvalho ALF, Nascimento SF, de Matos RB, Gouveia EL, Reis MG, Ko AI. Household transmission of *Leptospira* infection in urban slum communities. **PLoS Negl Trop Dis** 2008;2(1):e154*.* PMCID: PMC2270796.
52. Athanazio DA, Silva EF, Santos CS, Rocha GM, Vannier-Santos MA, McBride A, Ko AI, Reis MG. *Rattus norvegicus* as a model for persistent colonization by pathogenic *Leptospira interrogans*. **Acta Tropica**2008;105(2):176-180*.*
53. Codeço CT, Lele S, Pascual M, Bouma M, Ko A. A stochastic model for ecological systems with strong nonlinear response to environmental drivers: Application to two waterborne diseases. **J Roy Soc Interface** 2008;5:247–252. PMCID: PMC2705977.
54. Gouveia EL, Metcalfe J, de Carvalho ALF, Aires TSF, Villalobos-Bisneto JC, Queirroz A, Santos AC, Salgado K, Reis MG, Ko AI. Leptospirosis-associated severe pulmonary hemorrhage syndrome, Salvador, Brazil. **Emerg Infect Dis**2008;14(3):505-508*.* PMCID: PMC2570821.
55. Tassinari WS, Pellegrini DCP, Sá CSBP, Reis RB, Ko AI, Carvalho MS. Detection and modeling of case clusters for urban leptospirosis**. Trop Med Int Health** 2008;3(4):503-12*.* PMID: 18312472.
56. Reis RB, Ribeiro GS, Felzemburgh RDM, Santana FS, Mohr S, Melendez AXTO, Queiroz A, Santos AC, Ravines RR, Tassinari WS, Carvalho MS, Reis MG, Ko AI. Impact of environment and social gradient of *Leptospira* infection in urban slums. **PLoS Negl Trop Dis** 2008;2(4):e228*.* PMCID: PMC2292260
57. Silva EF, Santos CS, Athanazio DA, Seyffert N, Seixas FK, Cerqueira GM, Fagundes MQ, BrodCS, Reis MG, Dellagostin OA, Ko AI. Characterization of virulence of *Leptospira* isolates in a hamster model. **Vaccine** 2008;26(31):3892-6. PMCID: PMC2654257.
58. Vanasco NB, SchmelingMF, Lottersberger J, CostaF, Ko AI, Tarabla HD. Clinical characteristics and risk factors of human leptospirosis in Argentina (1999-2005). **Acta Tropica** 2008;107:255–258*.* PMID: 18671932. \*Not as a result of NIH funding.
59. Reis JN, Palma T, Ribeiro GS, Pinheiro RM, Ribeiro CT, Cordeiro SM, da Silva Filho HP, Moschioni M, Thompson TA, Facklam RR, Spratt B, Riley LW, Barocchi MA, Reis MG, Ko AI. Transmission of *Streptococcus pneumoniae* in an urban slum community. **J Infect**2008;57(3):204-13*.* PMCID: PMC2654257.
60. de Faria MT, Calderwood MS, Athanazio DA, McBride AJA, Hartskeerl RA, Pereira MM, Ko AI, Reis MG. Carriage of *Leptospira* *interrogans* among domestic rats from a high endemic urban setting for leptospirosis in Brazil. **Acta Tropica** 2008:108:1-5*.* PMCID: PMC2596941.
61. Croda J, Figueira CP, Wunder E, Reis MG, Ko AI, Picardeau M. Targeted mutagenesis in pathogenic *Leptospira*: Disruption of the LigB gene does not affect virulence in animal models of leptospirosis. **Infect Immun**2008;76(12):5826-33*.* PMCID: PMC2583567.
62. Lacerda HG, Monteiro GR, Oliveira CCG, Suassuna FB, Quieroz JW, Barbosa JDA, Martins DR, Reis MG, Ko AI, Jerônimo SMB. Leptospirosis in a subsistence farming community in Brazil. **Trans Roy Soc Trop Med Hyg** 2008;102(12):1233-8. PMCID: PMC3970206.
63. Murray GL, Morel V, Cerqueira GM, Croda J, Srikram A, Henry R, Ko AI, Dellagostin OA, Bulach DM, Sermswan R, Adler B, Picardeau M. Genome-wide transposon mutagenesis in pathogenic *Leptospira* spp. **Infect Immun**2009;77(2):810-6*.* PMCID: PMC2632054.
64. McBride AJA, Cerqueira GM, Suchard MA, Moreira AN, Zuerner RZ, Reis MG, Haake DA, Ko AI, Dellagostin OA. Genetic diversity of the Leptospiral immunoglobulin-like (Lig) genes in pathogenic *Leptospira* spp. **Infect Gen Evol** 2009;9(2):196-205*.* PMCID: PMC2812920.
65. Murray GL, Srikram A, Hoke DE, Wunder EJ, Henry R, Lo M, Zhang KK, Sermswan R, Ko AI, Adler B. Major surface protein LipL32 is not required for either acute or chronic infection with *Leptospira interrogans*. **Infect Immun***.* 2009;77(3):952-958*.* PMCID: PMC2643616.
66. Silva EF, Cerqueira GM,Seyffert N, Seixas FK, Hartwig DD, Athanazio DA, Pinto LS, Queiroz A, Ko AI, Brod CS, Dellagostin OA, *Leptospira noguchii* and human and animal leptospirosis, Southern Brazil. **Emerg Infect Dis** 2009;15(4):621-3. PMCID: PMC2671420.
67. Santos MS, Ribeiro GS, Oliveira TQ, Santos RCN, Gouveia E, Salgado K, Takahashi D, Fontes C, Campos LC, Reis MG, Ko AI, Reis JN. Burden of group A streptococcal meningitis in Salvador, Brazil: Report of eleven years of population-based surveillance. **Int J Infect Dis** 2009;13:456-461*.* PMCID: PMC2733169.
68. Cerqueira GM, McBride AJA, Picardeau M, Ribeiro SG, Moreira NA, Morel V, Reis MG, Ko AI, Dellagostin OA. Distribution of the Leptospiral immunoglobulin-like (Lig) genes in pathogenic *Leptospira spp.* and application of *ligB* to typing leptospiral isolates. **J Med Microbiol***.* 2009;58(Pt 9):1173-81. PMCID: PMC2887549.
69. Campos LC, Carvalho MGS, Beall BW, Cordeiro SM, Takahashi D, Reis MG, Ko AI, Reis JN. Prevalence of *Streptococcus pneumoniae* serotype 6C among invasive and carriage isolates in metropolitan Salvador, Brazil, from 1996 to 2007. **Diag Microbiol Infect Dis**. 2009;65(2):112-5*.* PMCID: PMC2752964.
70. Chagas Junior AD, McBride AJA, Athanazio DA, Figueira CP, Medeiros MA, Reis MG, Ko AI, McBride FWC. A rapid method for evaluating leptospiral burden in the hamster model of vaccine-mediated immunity for leptospirosis. **J Med Microbiol** 2009;58(Pt 12):1632-37*.* PMCID: PMC2887544.
71. Cerqueira GM, McBride AJA, Queiroz A, Pinto LS, Silva EF, Hartskeerl RA, Reis MG, Ko AI, Dellagostin OA. Monitoring *Leptospira* strain collections: the need for quality control. **Am J Trop Med Hyg** 2010;82(1):83–87. PMCID: PMC2803514.
72. Marotto PC, Ko AI, Mutra-Nascimento C , Seguro AC, Prado RR, Barbosa MC, Cleto, SS, Eluf-Neto J. Early identification of leptospirosis-associated pulmonary hemorrhage syndrome by use of validated prediction model. **J Infect** 2010;60(3):218-23. PMCID: PMC3921886.
73. Lima JBT, Ribeiro GS, Cordeiro SM, Gouveia EL, Salgado K, Spratt BG, Godoy D, Reis MG, Ko AI, Reis JN. Poor clinical outcome for meningitis caused by *H. influenzae* serotype a strains containing the IS1016-bexA deletion. **J Infect Dis** 2010;202(10):1577-84. PMCID: PMC2957550.
74. Menezes APO, Campos LC, dos Santos MS, Azevedo J, dos Santos RCN; Carvalho MGS, Beall BW, Martin SW, Salgado K, Reis MG, Ko AI, Reis JN, Serotype distribution and antimicrobial resistance of *Streptococcus pneumoniae* prior to introduction of the 10-valent pneumococcal conjugate vaccine in Brazil, 2000-2007. **Vaccine** 2011;29(6):1139-44. PMCID: PMC3026083.
75. Silva N, Eremeeva ME, Rozental T, Ribeiro G, Paddock CD, Ramos E, Favacho ARM, Reis MG, Dasch GA, de Lemos ERS, Ko AI. Eschar-associated spotted fever rickettsiosis in Bahia, Brazil due to a novel *Rickettsia* agent. **Emerg Infect Dis** 2011;17(2):275-78. PMCID: PMC3204763
76. Choy HA, Kelley MM, Croda J, Matsunaga J, Babbitt JT, Ko AI, Picardeau M, Haake DA. The multifunctional LigB adhesion binds homeostatic proteins with potential roles in dermal infection by pathogenic *Leptospira interrogans*. **PLoS One**2011;6(2):e16879. PMCID: PMC3036719
77. Wilson ME, Fregni F, de S M Veras MA, Dyett J, Shei A, Ribeiro GS, David J, Castro MC, Segurado AC, Ko AI, Reis MG. Collaborative teaching and learning: A model for addressing neglected tropical diseases. **PLoS Negl Trop Dis**2011;5(3):e939*.* PMCID: PMC3066161
78. Szonyi B, Agudelo-Flórez P, Ramírez M, Moreno N, Ko AI. An outbreak of severe leptospirosis in capuchin (Cebus) monkeys. **Vet J**. 2011;188(2):237-9*.* PMCID: PMC3865605.
79. Figueira CP, Croda J, Choy HA, Haake DA, Reis MG, Ko AI, Picardeau M. Heterologous expression of pathogen-specific genes *ligA* and *ligB* in the saprophyte *Leptospira biflexa* confers enhanced adhesion to cultured cells and fibronectin. **BMC Microbiol** 2011;11:129. PMCID: PMC3133549
80. [Melo CB](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Melo%20CB%22%5BAuthor%5D), [Reis RB](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Reis%20RB%22%5BAuthor%5D), [Ko AI](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ko%20AI%22%5BAuthor%5D), [Barreto CM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Barreto%20CM%22%5BAuthor%5D), [Lima AP](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Lima%20AP%22%5BAuthor%5D), [Silva ÂM](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Silva%20%C3%82M%22%5BAuthor%5D) [Geographical distribution of leptospirosis in Aracaju, State of Sergipe from 2001 to 2007] [**Rev Soc Bras Med Trop**](http://www.ncbi.nlm.nih.gov/pubmed/21860894) 2011;44(4):475-80. PMID: 21860894
81. Gouveia EL, Reis JB, Flannery B, Cordeiro SM, Lima JBT, Pinheiro RM, Salgado K, Mascarenhas AV, Carvalho MG, Beall BW, Reis MG, Ko AI. Clinical outcome of pneumococcal meningitis during the emergence of pencillin-resistant *Streptococcus* *pneumoniae*: an observational study **BMC Infect Dis** 2011;11:323. PMCID: PMC3276609
82. Ribeiro GS, Tartof SY, Oliveira DWS, Guedes ACS, Reis, MG, Riley LW, Ko AI. Surgery for Valvular Heart Disease: A Population-Based Study in a Brazilian Urban Center. **PLoS One** 2012;7(5):e37855. PMCID: PMC3362603
83. Carmona-Gasca CA, Lara LL, Castillo-Sánchez LO, Ramírez-Ortega JM, Ko A, Palomera CL, de la Peña-Moctezuma A. Detection of *Leptospira santarosai* and *L. kirschneri* in cattle: new isolates with potential impact in bovine production and public health. **Vet Méx** 2012;42 (4):277-288. \*Not available in PubMed.
84. Angel MO, Ristow P, Ko AI, DiLorenzo C. Serological trail of *Brucella* infection in an urban slum population in Brazil. **J Infect Dev Countries** 2012;6 (9):675-9. PMCID: PMC3800144.
85. Costa F, Martinez-Silveira MS, Hagan J, Hartskeerl R, Reis MG, Ko AI. Surveillance for Leptospirosis in the Americas, 1996-2005: a Review of Data from Ministries of Health. **Rev Panam Salud Publica** 2012;32 (3):169-77. PMCID: PMC3970205.
86. Nabity SA, Ribeiro GS, Aquino CL, Takahashi D, Damião AO, Gonçalves AHO, Miranda-Filho DB, Greenwald R, Esfandiari J, Lyashchenko KP, Reis MG, Medeiros MA, Ko AI. Accuracy of a Dual Path Platform (DPP) Assay for the rapid point-of-care diagnosis of human leptospirosis. **PLoS Negl Trop Dis** 2012; 6 (11):e1878. PMCID: PMC3486890.
87. Araújo WN, Finkmoore B, Ribeiro GS, Reis RB, Felzemburgh RDM, Hagan JE, Reis MG, Ko AI, Costa F. Knowledge, attitudes and practices related to leptospirosis among urban slum residents in Brazil. **Am J Trop Med Hyg** 2013; 88(2): 359-363. PMCID: PMC3583330.
88. Wu HM, Cordeiro SM, Harcourt BH, Carvalho M, Azevedo J, Oliveira TQ, Leite MC, Salgado K, Reis MG, Plikaytis BD, Clark TA, Mayer LW, Ko AI, Martin SW and Reis JN. Accuracy of real-time PCR, gram stain and culture for *Streptococcus pneumoniae*, *Neisseria meningitides* and *Haemophilus influenza* Meningitis diagnosis. **BMC Infect Dis** 2013; 13: 26. PMCID: PMC3558362
89. Sacchi F, Croda M, Estevan A, Ko AI, Croda J. Sugar cane manufacturing is associated with tuberculosis in an indigenous population in Brazil. **Trans R Soc Trop Med Hyg** 2013; 107(3) : 152-7 PMID: 23306443. \*Not a result of NIH funding.
90. Reis EAG, Hagan JE, Ribeiro GS, Carvalho AT, Martins-Filho OA, Montgomery RR, Shaw AC, Ko AI, Reis MG. Cytokine response signatures in disease progression and development of severe clinical outcomes for leptospirosis. **PLoS Negl Trop Dis** 2013;7(9):e2457. PMCID: PMC3777885
91. Lessa-Aquino C, Pablo J, Sasaki R, Jasinskas A, Liang L, Wunder Jr., EA, Ribeiro GS, Vigil A, Galler R, Molina D, Liang X, Reis MG, Ko AI, Medeiros MA, Felgner P. Identification of seroreactive proteins of *Leptospira interrogans* serovar Copenhageni using a high-throughput protein microarray approach. **PLoS Negl Trop Dis** 2013;7(10):e2499. PMCID: PMC3798601
92. Hacker KP, Seto KC, Costa F, Corburn J, Reis MG, Ko AI, Diuk-Wasser MA. Urban slum struction: integrating socioeconomic and land cover data to model slum evolution in Salvador, Brazil. **Int J Health Geogr** 2013;12(1):45. PMCID: PMC3924348.
93. Costa F, Porter F, Robrigues G, Farias H, De Faria T, Wunder E, Osikowicz L, Kosoy M, Reis MG, Ko AI, Childs JA. Infections by Leptospira interrogans, Seoul Virus, and Bartonella spp. Among Norway Rats (Rattus norvegicus) from the Urban Slum Environment in Brazil. **Vector Borne Zoonotic Dis** 2013; 14(1):33-40. PMCID: PMC3880909.
94. Kajdacsi B, Costa F, Hyseni C, Porter F, Brown J, Rodrigues G, Farias H, Reis MG, Childs JE, Ko AI, Caccone A. Population genetics of urban slum-dwelling rats (*Rattus norvegicus*) in Salvador, Brazil. **Mol Ecol** 2013;22(20):5056; PMCID: PMC3864905.
95. Nogueira SV, Backstedt BT, Smith AA, Qin JG, Wunder Jr EA, Ko A, Pal U. *Leptospira interrogans* enolase is secreted extracellularly and interacts with plasminogen. **PLoS One** 2013;8(10):e78150. PMCID: PMC3799732
96. Araujo AM, Reis EAG, Athanazio DA, Ribeiro GS, Hagan JE, Araujo GC, Damião AO, Couto NS, Ko AI, Dutra AAN, Reis MG. Oxidative stress markers correlate with renal dysfunction and thrombocytopenia in severe leptospirosis. **Am J Trop Med Hyg** 2014 Apr;90(4):719-23. PMCID: PMC3973519.
97. Shei A, Costa F, Reis MG, Ko AI. The impact of Brazil’s Bolsa Família conditional cash transfer program on children’s health care cash transfer program on children’s health care. **BMC Intl Health Human Rights** 2014; 14:10. PMID: PMC4021270.
98. Weinberger D, Baroux N, Grangeon JP, Ko AI, Goarant C, El Niño Southern Oscillation and leptospirosis outbreaks in New Caledonia. **PLoS Neglected Trop Dis**, PMID: PMC3990495.
99. Eshghi A, Becam J, Lambert A, Sismeiro O, Dillies MA, Jagla B, Wunder Jr. EA, Ko AI, Coppee JY, Goarant C, Picardeau M. A putative regulatory genetic locus modulates virulence in the pathogen *Leptospira interrogans*. **Infect Immun**, 2014 Jun:82(6):2542-52. PMCID: PMC4019197.
100. agan JE, Dias JS, Villasboas-Bisneto JC, Falcão MB, Ko AI, Ribeiro GS. Puerperal brain cryptococcoma in a HIV-negative woman successfully treated with fluconazole: A case report. **Rev Soc Bras Med Trop**, 2014 Mar-Apr;47(2):254-6. PMCID: PMC5437703.
101. Felzemburgh RDM, Ribeiro GS, Costa F, Reis RB, Hagan JE, Melendez AXTO, Fraga D, Santana FS, Mohr S, dos Santos BL, Silva AQ, Santos AC, Ravines RR, Tassinari WS, Carvalho MS, Reis MG, Ko AI. Prospective study of leptospirosis transmission in an urban slum community: Role of poor environment in repeated exposures to the *Leptospira* agent. **PLoS Negl Trop Dis**, 2014 May 29;8(5):e2927. PMCID: PMC4038618.
102. Reller ME, Wunder Jr. EA, Miles JJ, Flom JE, Mayorga O, Woods CW, Ko AI, Dumler JS, Matute AJ. Unsuspected leptospirosis is a cause of acute febrile illness in Nicaragua. **PLoS Negl Trop Dis**. 2014 Jul 24;8(7):e2941. PMCID:PMC4109853
103. Evangelista K, Hahn B, Robbins G, Wunder E, Ko A, Haake D, Coburn J. Identification of cell-binding adhesins of *Leptospira interrogans*. **PLoS Negl Trop Dis**, 2014 Oct 2;8(10):e3215. PMCID: PMC3907533.
104. Lewnard JA, Jirmanus L, Nery Júnior N, Machado PR, Glesby MJ, Ko AI, Carvalho EM, Schriefer A, Weinberger DM. Forecasting temporal dynamics of cutaneous leishmaniasis in Northeast Brazil. **PLoS Negl Trop Dis**, 2014 Oct 30;8(10):e3283. PMCID: PMC4214672.
105. Witchell TD, Eshghi A, Nally JE, Hof R, Boulanger MJ, Wunder Jr EA, Ko AI, Haake DA, Cameron CE. Post-translational modification of LipL32 during *Leptospira interrogans* infection. **PLoS Negl Trop Dis**. 2014 Oct 30;8(10):e3280. PMCID: PMC4214626.
106. Lessa-Aquino C, Wunder Jr., EA, Lindow J, Rodrigues CB, Pablo J, Nakajima R, Jasinskas A, Liang L, Reis MG, Ko AI, Medeiros MA, Felgner PL. Proteomic features predict sero-reactivity against leptospiral antigens in leptospirosis patients. **J Proteome Res** 2015 Jan 2;14(1):549-56. PMCID: PMC4286151.
107. Costa F, Ribeiro GS, Felzemburgh RDM, Santos N, Reis RB, Santos AC, Fraga DBM, Araujo WN, Santana C, Childs JE, Reis MG, Ko AI. Influence of household rat infestation on *Leptospira* transmission in the urban slum environment. **PLoS Negl Trop Dis** 2014 Dec 4;8(12):e3338. PMCID: PMC4256176.
108. Thomé S, Lessa-Aquino C, Ko AI, Lilenbaum W, Medeiros MA. Identification of immunodominant antigens in canine leptospirosis 1 by Multi-Antigen Print ImmunoAssay (MAPIA). **BMC Vet Res**. 2014 Dec 3;10(1):288. PMCID: PMC4269070.
109. Sacchi FPC, Praça RM, Tatara MB, Simonsen V, Ferrazoli L, Croda MG, Suffys PN, Ko AI, Andrews JR, Croda J. Prisons as a reservoir for community transmission of tuberculosis: mixed-methods evidence from a Brazilian city. **Emerg Infect Dis** 2015 Mar;21(3):452-5. PMCID: PMC4344267.
110. Carbone ASS, Paião DSG, Sgarbi RV, Lemos EF, Cazanti RF, Ota MM, Laranjeira Junior A, Bampi JVB, Elias VPF, Simionatto S, de Castro ARCM, Pompílio MA, de Oliveira SMVL, Ko AI, Andrews JR, Julio Croda. Active and latent tuberculosis in Brazilian correctional facilities: a cross-sectional study. **BMC Infect Dis** 2015 Jan 22;15(1):24. PMCID: PMC4307675.
111. Porter FH, Costa F, Rodrigues G, Farias H, Cunha M, Glass GE, Reis MG, Ko AI, Childs JE. Morphometric and demographic differences between tropical and temperate Norway rats (*Rattus norvegicus*). **J Mammology** 2015;96(2):317–323. doi:10.1093/jmmal/gyv033. First published online: 25 April 2015. <https://doi.org/10.1093/jmammal/gyv033>
112. Unger A, Felzemburgh RDM, Snyder RE, Ribeiro GS, Mohr S, Costa VBA, Melendez AXTO, Reis RB, Santana FS, Riley LW, Reis MG, Ko AI. Pau da Lima Urban Health Team. Hypertension in a Brazilian urban slum population. **J Urban Health** 2015 Jun;92(3):446-59. PMCID: PMC4456479.
113. Costa F, Wunder Jr., EA, de Oliveira DS, Bisht V, Rodrigues G,Reis MG, Ko AI, Begon M, Childs JE.Patterns in *Leptospira* shedding in Norway rats (*Rattus norvegicus*) from Brazilian slum communities at high risk of disease transmission**. PLoS Negl Trop Dis**. 2015;9(6): e0003819. PMCID: PMC4457861.
114. Backstedt BT, Buyuktanir O, Lindow J, Wunder Jr. EA, Reis MG, Usmani-Brown S, Ledizet M, Ko AI, Pal U. Efficient detection of pathogenic leptospires using 16S ribosomal RNA. **PLoS One**. 2015; 10(6): e0128913. PMCID: PMC4474562.
115. Urrego, J, Ko A; da Silva Santos Carbone, A; Sanchez Guimaraes, D; Viebrantz Enne, R; Yeckel, C; Andrews, J; Croda, J. The Impact of Ventilation and Early Diagnosis on Tuberculosis Transmission in Brazilian Prisons. **Am J Trop Med Hyg**. 2015 Oct 7;93(4): 739-46. PMCID: PMC4596592.
116. Costa F, Hagan JE, Calcagno J, Kane M, Torgerson P, Martinez-Silveira MS, Stein C, Abela-Ridder B, Ko AI. Global Morbidity and Mortality of Leptospirosis: A Systematic Review. **PLoS Negl Trop Dis**. 2015 September; 9(9): e0003898. PMCID: PMC4574773.
117. Kikuti M, Cunha GM, Paploski IAD, Kasper AM, Silva MMO, Tavares AS, Cruz JS, Queiroz TL, Rodrigues MS, Santana PM, Lima HCAV, Calcagno J, Takahashi D, Gonçalves AHO, Araújo JMG, Gauthier K, Diuk-Wasser MA, Kitron U, Ko AI, Reis MG, Ribeiro GS. Spatial Distribution of dengue in a Brazilian Urban Slum Setting: Role of Socioeconomic Gradient in Disease Risk. **PLoS Negl Trop Dis**. 2015 July; 9(7): e0003937. PMCID: PMC4510880.
118. dos Santos MS, Azevedo J, Menezes APO, Cordeiro SM, Escobar EC, Matos JBTL, Campos LC, Carvalho MGS, Reis MG, Ko AI, Reis JN. Temporal trends and clonal diversity of penicillin-non-susceptible pneumococcal isolates in Salvador, Brazil. **BMC Infect Dis.** 2015; 15: 302. PMCID: PMC4520018.
119. Torgerson PR, Hagan JE, Costa F, Calcagno J, Kane M, Martinez-Silveira MS, Goris MGA, Stein C, Ko AI, Abela-Ridder B. Global burden of leptospirosis: estimated in terms of Disability Adjusted Life Years. **PLoS Negl Trop Dis**. 2015 Oct 2;9(10): PMCID: PMC4591975.
120. Sgarbi RVE, Carbone ASS, Paião DSG, Lemos EF, Simionatto S, Motta-Castro ARC, Pompílio MA, Urrego J, Ko AI, Andrews JR, Croda J. A cross-sectional survey of HIV testing and prevalence in twelve Brazilian correctional facilities. **PLoS One**. 2015 Oct 14;10(10): PMCID: PMC4605759.
121. Silva MM, Rodrigues MS, Paploski IA, Kikuti M, Kasper AM, Cruz JS, Queiroz TL, Tavares AS, Santana PM, Araújo JM, Ko AI, Reis MG, Ribeiro GS. [Accuracy of dengue reporting by national surveillance system, Brazil.](http://www.ncbi.nlm.nih.gov/pubmed/26812472) **Emerg Infect Dis**. 2016 Feb;22(2):336-9. doi: 10.3201/eid2202.150495. PMID: 26812472. PMCID: PMC4734515.
122. Menezes AP, Azevedo J, Leite MC, Campos LC, Cunha M, Carvalho Mda G, Reis MG, Ko AI, Weinberger DM, Ribeiro G, Reis JN. Nasopharyngeal carriage of Streptococcus pneumoniae among children in an urban setting in Brazil prior to PCV10 introduction. **Vaccine**. 2016;34(6):791-7. Epub 2016/01/09. doi: 10.1016/j.vaccine.2015.12.042. PubMed PMID: 26742946; PMCID: PMC4729601.
123. Hagan JE, Moraga P, Costa F, Capian N, Ribeiro GS, Wunder Jr EA, Felzemburgh RDM, Reis RB, Nery N, Santana FS, Fraga D, dos Santos BL, Santos AC, Queiroz A, Tassinari W, Carvalho MS, Reis MG, Diggle PJ, Ko AI. Spatiotemporal determinants of urban leptospirosis transmission: Four-year prospective cohort study of slum residents in Brazil. **PLoS Negl Trop Dis**. 2016 Jan 15;10(1):e0004275. doi: 10.1371/journal.pntd.0004275. PMID:26771379. PMCID: PMC4714915.
124. Lewnard JA, Antillón M, Gonsalves G, Miller AM, Ko AI, Pitzer VE. Strategies to prevent cholera introduction during international personnel deployments: a computational modeling analysis. **PLoS Med**. 2016 Jan 26;13(1):e1001947. doi: 10.1371/journal.pmed.1001947. PMID:26812236. PMCID: PMC4727895.
125. Fouts DE, Matthias MA, Adhikarla H, Adler B, Amorim-Santos L, Berg DE, Bulach D, Buschiazzo A, Chang YF, Galloway RL, Haake DA, Haft DH, Hartskeerl R, Ko AI, Levett PN, Matsunaga J, Mechaly AE, Monk JM, Nascimento ALT, Nelson KE, Palsson B, Peacock SJ, Picardeau M, Ricaldi JN, Thaipandungpanit J, Wunder Jr. EA, Yang XF, Zhang JJ, Vinetz JM. What Makes a Bacterial Species Pathogenic?: Comparative Genomic Analysis of the Genus *Leptospira*. **PLoS Negl Trop Dis**. 2016. PMID:26890609. PMCID: PMC4758666
126. Freitas BP, Dias JRO, Prazeres J, Sacramento GA, Ko AI, Maia M, Belfort Jr R. Ocular Findings in Infants with Microcephaly Associated with Presumed Zika Virus Congenital Infection in Salvador, Brazil. **JAMA Ophthalmol**. 2016 Feb 9. doi: 10.1001/jamaophthalmol.2016.0267. PMCID: PMC5444996.
127. De Oliveira D, Figueira CP, Pertile A, Ghizzi G, Gusmão I, Zhan L, Wunder Jr. EA, Rodrigues G, Ramos EAG, Ko AI, Childs JE, Reis MG, Costa F.*Leptospira* in breast tissue and milk of urban Norway rats (*Rattus norvegicus*). **Epidemiol Infect**. 2016 Mar 28:1-10. doi: 10.1017/S0950268816000637. PMCID: PMC5437553.
128. Sarno M, Sacramento GA, Khouri R, do Rosário MS, Costa F, Archanjo G, Santos LA, Nery N Jr, Vasilakis N, Ko AI, de Almeida AR. Zika Virus Infection and Stillbirths: A Case of Hydrops Fetalis, Hydranencephaly and Fetal Demise. **PLoS Negl Trop Dis**. 2016;10(2):e0004517. doi: 10.1371/journal.pntd.0004517. PMID: 26914330; PMCID: PMC4767410
129. Costa F, Sarno M, Khouri R, de Paulo Freitas B, Siqueira I, Ribeiro GS, Ribeiro HC, Campos GS, Alcântara LC, Reis MG, Weaver SC, Vasilakis N, Ko AI, Almeida AR. Emergence of Congenital Zika Syndrome: Viewpoint From the Front Lines. **Ann Intern Med**. 2016 Feb 24. doi: 10.7326/M16-0332. PMCID: PMC5444536.
130. Oliveira CR, Costa GS, Paploski IA, Kikuti M, Kasper AM, Silva MM, Tavares AS, Cruz JS, Queiroz TL, Lima HC, Calcagno J, Reis MG, Weinberger DM, Shapiro ED, Ko AI, Ribeiro GS. Influenza-like illness in an urban community of Salvador, Brazil: incidence, seasonality and risk factors. **BMC Infect Dis**. 2016 Mar 15;16(1):125. doi: 10.1186/s12879-016-1456-8. PubMed PMID: 26975185; PMCID:PMC4791800.
131. Panti-May JA, Carvalho-Pereira TS, Serrano S, Pedra GG, Taylor J, Pertile AC, Minter A, Airam V, Carvalho M, Júnior NN, Rodrigues G, Reis MG, Ko AI, Childs JE, Begon M, Costa F. A Two-Year Ecological Study of Norway Rats (Rattus norvegicus) in a Brazilian Urban Slum. **PLoS One**. 2016 Mar 25;11(3):e0152511. doi:10.1371/journal.pone.0152511. PMCID: PMC4807843.
132. Castiblanco-Valencia MM, Fraga TR, Breda LC, Vasconcellos SA, Figueira CP, Picardeau M, Wunder E, Ko AI, Barbosa AS, Isaac L. Acquisition of negative complement regulators by the saprophyte Leptospira biflexa expressing LigA or LigB confers enhanced survival in human serum. **Immunol Lett**. 2016 Mar 11;173:61-68. doi: 10.1016/j.imlet.2016.03.005. PMCID: PMC5437552.
133. Costa, F, Richardson J, Dion K, Mariani C, Pertile A, Childs JE, Ko AI, Caccone A. Multiple Paternity in in the Norway rat, *Rattus norvegicus*, from urban slums in Salvador, Brazil. **J Hered**. 2016 Mar; 107(2): 181-6. PMCID: PMC5893012.
134. Hacker KP, Minter A, Begon M, Diggle PJ, Serrano S, Reis MG, Childs JE, Ko AI, Costa F. A comparative assessment of track plates to quantify fine scale variations in the relative abundance of Norway rats in urban slums. **Urban Ecosystems**. 2016:1-15. doi: 10.1007/s11252-015-0519-8. PMCID: PMC4955619.
135. Jones FK, Ko AI, Becha C, Joshua C, Musto J, Thomas S, et al. Increased rotavirus prevalence in diarrheal outbreak precipitated by localized flooding, Solomon Islands, 2014. **Emerg Infect Dis**. 2016 May. doi: 10.3201/eid2205.151743. PMCID: PMC4861519.
136. Wunder Jr. EA, Figueira CP, Benaroudj N, Hu B, Tong BA, Trajtenberg F, Liu J, Reis MG, Charon NW, Buschiazzo A, Picardeau M, Ko AI. A novel flagellar sheath protein, FcpA, determines filament coiling, translational motility and virulence for the *Leptospira* spirochete. **Mol Microbiol**. 2016. PMID:27113476. doi: 10.1111/mmi.13403. PMCID: PMC4979076.
137. Wunder Jr, EA, Figueira CP, Santos GR, Lourdault K, Matthias MA, Vinetz JM, Ramos E, Haake DA, Picardeau M, dos Reis MG, Ko AI. Real-Time PCR Reveals Rapid Dissemination of Leptospira interrogans after Intraperitoneal and Conjunctival Inoculation of Hamsters. **Infect Immun**. 2016 Jun 23;84(7):2105-15. PMCID: PMC4936353.
138. Alfaro-Murillo JA, Parpia AS, Fitzpatrick MC, Tamagnan JA, Medlock J, Ndeffo-Mbah ML, Fish D, Ávila-Agüero ML, Marín R, Ko AI, Galvani AP. A Cost-Effectiveness Tool for Informing Policies on Zika Virus Control. **PLoS Negl Trop Dis**.PMCID: PMC4874682.
139. do Rosario M, Jesus PA, Vasilakis N, Farias D, Novaes MA, Rodrigues S, Martins L, Vasconcelos P, Ko A, Alcantara LC, Siqueira I. Guillain-Barré Syndrome after Zika Virus Infection in Brazil. **Am J Trop Med Hyg**. 2016 Sep 19. pii: 16-0306. PMCID: PMC5094232.
140. Riediger IN, Hoffmaster AR, Casanovas-Massana A, Biondo AW, Ko AI, Stoddard R. An optimized method for quantification of pathogenic *Leptospira* in environmental water samples. **PLoS One**. 2016;11(8):e0160523. PMID: PMC4972417.
141. Paião DSG, Lemos EF, Carbone ASS, Sgarbi RVE,Larangeira Junior A, da Silva FM, Brandão LM, dos Santos LS, Martins VS, Simionatto S, Mota-Coimbra ARC, Pompílio MA, Urrego J, Ko AI, Andrews J, Croda J. Impact of mass-screening on tuberculosis incidence in a prospective cohort of Brazilian prisoners. **BMC Infect Dis**. 2016 Oct 3;16(1):533. PMCID: PMC5048439.
142. Puckett EE, Park J, Combs M, Blum MJ, Bryant JE, Caccone A, Costa F, Deinum EE, Esther A, Himsworth CG, Keightley PD, Ko A, Lundkvist A, McElhinney LM, Morand S, Robins J, Russell J, Strand TM, Suarez O, Yon L, Munshi-South J. Global population divergence and admixture of the brown rat (Rattus norvegicus). **Proc R Soc B** 2016 Oct 26;283: 20161762. doi:10.1098/rspb.2016.1762. PMCID: PMC5095384.
143. Lindow JC, Wunder Jr. EA, Popper SJ, Min JN, Mannam P, Srivastava A, Yao Y, Hacker KP, Raddassi K, Lee PJ, Montgomery RR, Shaw AC, Hagan JE, Araújo GC, Nery Jr N, Relman DA, Kim CC, Reis MG, Ko AI. Cathelicidin insufficiency in patients with fatal leptospirosis. **PLoS Pathog** 2016 Nov 3;12(11): e1005943. doi:10.1371/journal.ppat.1005943. PMCID: PMC5094754
144. Lewnard JA, Gonsalves G, Ko. AI. Low risk of international Zika virus spread due to the 2016 Olympics in Brazil. **Ann Intern Med**. 2016;165(4):286-7. PMCID: PMC5444538.
145. Walker R, Cavalho-Pereira T, Serrano S, Pedra G, Hacker K, Taylor J, Minter A, Pertile A, Panti-May A, Carvalho M, Nery Junior N, Rodrigues G, Bahiense T, Reis MG, Ko AI, Childs JE, Begon M, Costa F. Factors affecting carriage and infection intensity of *Calodium hepaticum* within Norway rats (*Rattus norvegicus*) from an urban slum environment in Salvador, Bahia, Brazil. **Epidemiol Infect**. 2017 Jan;145(2):334-338. PMCID: PMC6247895.
146. Freitas BP, Ko AI, Khouri R, Mayoral M, Henriques DF, Maia M, Belfort Jr R. Glaucoma and congenital Zika syndrome. **Ophthalmol**. 2017 Mar; 124(3): 407-408. PMID: 27914834. PubMed Journal in process.
147. Richardson JL, Burak MK, Hernandez C, Shirvell JM, Mariani C, Carvalho-Pereira TSA, Serrano S, Pedra GG, Taylor J, Pertile AC, Carvalho M, Rodrigues G, Costa F, Childs JE, Ko AI, Caccone A. Using fine scale spatial genetics of Norway rats to improve control efforts and reduce leptospirosis risk in urban slum environments. 2017 Feb 23;10(4):323-337. **Envol Appl.***.* PMCID: PMC5367079.
148. Vinhaes ES, Santos LA, Dias L, Andrade NA, Bezerra VH, de Carvalho AT, de Moraes L, Henriques DF, Azar SR, Vasilakis N, Ko AI, Andrade BB, Siqueira IC, Khouri R, Boaventura VS. Transient Hearing Loss in Adults Associated with Zika Virus Infection. **Clin Infect Dis**. 2017 Mar1:64(5):675-677. PMCID: PMC5850413.
149. Bourdillon PM, Gonçalves CCM, Pelissari DM, Araraki-Sanchez D, Ko AI, Croda J, Andrews JR. Increase in Tuberculosis Cases among Prisoners, Brazil, 2009-2014. **Emerg Infect Dis**. 2017 Mar;23(3):496-499. PMCID: PMC5382752.
150. Emont JP, Ko AI, Homasi-Paelate A, Ituaso-Conway N, Nilles EJ. Epidemiological investigation of a diarrhea outbreak in the South Pacific island nation of Tuvalu during a severe La Ninã-associated drought emergency in 2011. **Am J Trop Med.** 2017 Mar;96(3):576-582. PMCID: PMC5361530.
151. Santos N, Sousa E, Reis MG, Ko AI, Costa F. Rat infestation associated with environmental deficiencies in an urban slum community with high risk of leptospirosis transmission. **Cad Saúde Pub**. 2017 Feb;33(2):e00132115. PMID: 28300969.
152. Lessa-Aquino C, Lindow JC, Randall A, Wunder E, Pablo J, Nakajima R, Jasinskas A, Reis MG, Ko AI, Medeiros MA, Felgner PL. Distinct antibody responses of patients with mild and severe leptospirosis determined by whole proteome microarray analysis. **PLoS Negl Trop Dis**. 2017 Jan; 11(1): e0005349. PMCID: PMC5302828.
153. San Martin F, Mechaly AE, Larrieux N, Wunder EA, Ko AI, Picardeau M, Trajtenberg F, Buschiazzo A. Crystallization of FcpA from *Leptospira*, a novel flagellar protein that is essential for pathogenesis. **Acta Crystal F**. 2017 Mar 1; 73(Pt 3): 123-129. PMCID: PMC5349305.
154. Robbiani DF, Bozzacco L, Keeffe JR, Khouri R, Olsen P, Gazumyan A, Schaefer-Babajew D, Avila S, Nogueira L, Patel R, Azzopardi S, Uhl L, Saeed M, Sevilla-Reyes EE, Agudelo M, Yao KH, Golijanin J, Hurley A, Caskey M, Pai J, Oliveira T, Wunder Jr EA, Sacramento G, Nery Jr N, Orge C, Costa F, Reis MG, Thomas NM, Eisenreich T, Weinberger DM, de Almeida ARP, West Jr AP, Rice CM, Bjorkman PJ, Reyes-Teran G, Albert I. Ko, MacDonald MR, Nussenzweig MC. Recurrent potent human neutralizing Antibodies to Zika Virus in Brazil and Mexico. **Cell.** 2017 May 4; 169(4): 597-609. PMCID: PMC5492969.
155. Correa ME, Croda J, Motta-Castro AR, Oliveira S, Pompilio M, Souza RO, Queiroz JHS, Silva KE; Ko AI, Simionatto S. High prevalence of *Treponema pallidum* infection in Brazilian prisoners. **Am J Trop Med Hyg.** 2017 Oct;97(4): 1078-1984 [Epub 2017 Aug 18]. PMIC: 28820706. Pubmed Journal in process.
156. Freitas BP, Zin A, Ko A, Maia M, Ventura, CV, Belfort Jr R. Anterior-segment ocular findings and microphthalmia in congenital zika syndrome. **Ophthalmol**. 2017 Jul 1. Pii: S0161-6420(17)31294-0. [Epub ahead of print]. PMID: 28676282. PubMed Journal in process.
157. Riediger IN, Stoddard RA, Ribeiro GS, Nakatani SM, Moreira SDR, Skraba I, Biondo AW, Reis MG, Hoffmaster AR, Vinetz JM, Ko AI, Wunder Jr., AW. Rapid, Actionable Diagnosis of Urban Epidemic Leptospirosis Using a Pathogenic *Leptospira* *lipL32*-Based Real-Time PCR Assay. **PLoS Negl Trop Dis**. 2017 Sep; 11(9): e0005940. PMCID: PMC5617227.
158. Carvalho-Pereira T, Souza F, Santos L, Walker R, Pertile A, Oliveira D, Pedra G, Minter A, Rodrigues MG, Bahiense T, Reis M, Diggle P, Ko A, Childs J, da Silva E, Begon M, Costa F. The helminth community of a population of *Rattus norvegicus* from an urban Brazilian slum and the threat of zoonotic diseases. **Parasitol**. 2018 May;145(6):797-806. Doi: 10.1017/S0031182017001755. Epub 2017 Nov 8. PMCID: PMC6277907.
159. Cordeiro SM, Cardoso CW, de Araújo LG, Silva RCV, Reis MG, Ko AI, Reis JN. Dissemination of the ST-103 clonal complex serogroup C meningococci in Salvador, Brazil. **Microbes Infect**. 2017 Sep 27. Pii: S1286-4579(17)30154-5. [Epub ahead of print]. PMID: 28962886.
160. Minter A, Diggle PJ, Costa F, Childs J, Ko AI, Begon M. Evidence of multiple intraspecific transmission routes for *Leptospira* acquisition in Norway rats (*Rattus norvegicus)*. **Epidemiol Infect**. 2017 Dec;145(16):3438-3448. doi: 10.1017/S0950268817002539. Epub 2017 Nov 27. PMCID: PMC6252042.
161. Nogueira ML, Nery Júnior NRR, Estofolete CF, Terzian ACB, Guimarães GF, Zini N, Silva RF, Silva GCD, Franco LCJ, Rahal P, Bittar C, Carneiro B, Vasconcelos PF, Henriques DF, Barbosa DMU, Rombola PL, de Grande L, Reis AFN, Palomares SA, Catelan MW, Cruz LEAA, Necchi SH, Mendonça RCV, dos Santos INP, Caron SBA, Costa F, Bozza FA, de Souza AS, de Mattos CCB, de Mattos LC, Vasilakis N, Oliani AH, Oliani DCMV, Ko AI. Adverse birth outcomes associated with Zika virus exposure during pregnancy in São José do Rio Preto, Brazil. **Clin Microbiol Infect**. 2017 Nov 10. pii: S1198-743X(17)30634-1. doi: 10.1016/j.cmi.2017.11.004. PMID: 29133154.
162. Snyder RE, Rajan JV, Costa F, Lima HCAV, Calcagno JI, Couto RD, Riley LW, Reis MG, Ko AI, Ribeiro GS. Differences in the prevalence of non-communicable disease between slum dwellers and the general population in a large urban area in Brazil. **Trop Med Infect Dis**. 2017;2:47. PMCID: PMC6082112.
163. Casanovas-Massana A, Costa F, Riediger IN, Cunha M, de Oliveira D, Mota DC, Sousa E, Querino VA, Nery Jr N, Reis MG, Wunder Jr EA, Diggle PJ, Ko AI. Spatial and temporal dynamics of pathogenic *Leptospira* in surface waters from the urban slum environment. **Water Res**. 2018 Mar 1;130:176-184. doi: 10.1016/j.watres.2017.11.068. PMCID: PMC5767135.
164. Maceda EB, Gonçalves CCM, Andrews JR, Ko AI, Yeckel CW, Croda J. Serum vitamin D levels and risk of prevalent tuberculosis, incident tuberculosis and tuberculin skin test conversion among prisoners. **Sci Rep**. 2018 Jan 17;8(1):997. doi: 10.1038/s41598-018-19589-3. PMCID: PMC5772514.
165. Nabity SA, Hagan JE,Araújo G,Damião AO, Cruz JS, Nery N, Wunder E, Reis MG, Ko AI, Ribeiro GS. Prospective evaluation of accuracy and clinical utility of the DPP assay for the point-of-care diagnosis of leptospirosis in hospitalized patients. **PLoS Negl Trop Dis**. PLoS Negl Trop Dis. 2018 Feb 20;12(2):e0006285. doi: 10.1371/journal.pntd.0006285. PMCID: PMC5834199.
166. Ribeiro GS, Kikuti M, Tauro LB, Nascimento LCJ, Cardoso CW, Campos GS, Ko AI, Weaver SC, Reis MG, Kitron U. Does immunity following Zika virus infection cross-protect against dengue? **Lancet Global Health**. 2018 Feb;6(2):e140-e141. doi: 10.1016/S2214-109X(17)30496-5. PMID: 29389533.
167. Lazzarini T, Gonçalves C, Benites W, da Silva L, Tsuha D, Ko A, Rohrbaugh R, Andrews, JR, Croda J. Clustering of suicide in Brazilian indigenous children and adolescents by household. **Rev Saúde Púb**. 2018;52:56. PMCID: PMC5958965.
168. Oliveira-Filho J, Felzemburgh R, Costa F, Nery Jr N, Mattos A, Ko AI, Salvador Zika Response Team. Seizures as a complication of congenital Zika syndrome in early infancy. **Am J Trop Med Hyg**. 2018 Jun;98(6):1860-1862. PMCID: PMC6086187.
169. Adhikarla H, Wunder Jr EA, Mechaly AE, Mehta S, Wang Z, Santos L, Bisht V, Diggle P, Murray G, Adler B,Lopez-Giraldez F,Townsend JP, Groisman E, Picardeau M, Buschiazzo A, Ko AI. Lvr, a signaling system that controls global gene regulation and virulence in pathogenic Leptospira. **Front Cell Infect Microbiol**. 2018 Feb 23; 8:45. PMCID: PMC5863495.
170. Schneider AG, Casanovas-Massana A, Hacker KP, Wunder Jr EA, Begon M, Reis MG, Childs JE,Costa F, Lindow JC, Ko AI. Quantification of Pathogenic *Leptospira* in the Soils of a Brazilian Urban Slum. **PLoS Negl Trop Dis**. 2018 Apr 6;12(4):e0006415. PMCID: PMC5906024.
171. Wunder Jr. EA, Slamti L, Suwondo DN, Gibson KH, Shang Z, Sindelar CV, Trajtenberg F, Buschiazzo A, Ko AI, Picardeau M. FcpB is a surface filament protein of the endoflagellum required for the motility of the spirochete *Leptospira*. **Front Cell Infect Microbiol**. 2018 May 8;8:130. PMCID: PMC5953323.
172. Casanovas-Massana A, Pedra GG, Wunder Jr EA, Diggle PJ, Begon M, Ko AI. Quantitative survival of *Leptospira interrogans* in soil and water microcosms. **Appl Environ Microbiol**. 2018 Jun 18;84(13). PMCID: PMC6007094
173. Dhewantara PW, Al Mamun A, Zhang WY, Yin WW, Ding F, Guo D, Hu W, Costa F, Ko AI, Magalhaes RJS. Epidemiological shift and geographical heterogeneity in the burden of leptospirosis in China. **Infect Dis Poverty**. 2018 May 18;7(1):57. PMCID: PMC5985562.
174. Minter A, Diggle P, Costa F, Childs J, Ko A, Begon M. A model for leptospire dynamics and control in the Norway rat (*Rattus norvegicus*) the reservoir host in urban slum environments. **Epidemics**. 2018 May 5. Pii:S1755-4365(17)30135-4. PMID: 29773482. PubMed Journal in process.
175. Santos LA, Adhikarla H, Yan X, Wang Z, Fouts DE, Vinetz JM, Alcantara LCJ, Hartskeerl RA, Goris MGA, Picardeau M, Reis MG, Townsend JP, Zhao H, Ko AI, Wunder Jr EA. Genomic comparison among global isolates of *L. interrogans* serovars Copenhageni and Icterohaemorrhagiae identified natural genetic variation caused by an indel. **Front Cell Infect Microbiol**. 2018 Jun 19;8:193. PMCID: PMC6018220.
176. Togami E, Kama M, Goarant C, Craig SB, Lau C, Ritter JM, Imrie A, Ko A, Nilles E. A large leptospirosis outbreak following successive severe floods in Fiji, 2012. **Am J Trop Med Hyg**. 2018 Aug 20. doi: 10.4269/ajtmh. 18-0335. [Epub ahead of print]. PMCID: PMC6159581.
177. Owers KA, Odetunde J, de Matos RB, Sacramento G, Carvalho M, Nery Júnior N, Costa F, Reis MG, Childs JE, Hagan JE, Diggle PJ, Ko AI. Fine-scale GPS tracking to quantify human movement patterns and exposure to leptospires in the urban slum environment. **PLoS Negl Trop Dis**. 2018 Aug 31;12(8):e0006752. PMCID: PMC6143277.
178. Colombe S, Watanapalachaigool E, Ekgatat M, Ko AI, Hinjoy S. Cross-sectional study of brucellosis and Q fever in Thailand among livestock in two districts at the Thai-Cambodian border, Sa Kaeo province. **One Health**. 2018 Oct 11;6:37-40. doi: 10.1016/j.onehlt.2018.10.001. eCollection 2018 Dec*.* PMCID: PMC6205351.
179. Lescano AG, Cohen CR, Raj T, Rispel L, Garcia PJ, Zunt JR, Hamer DH, Heimburger DC, Chi BH, Ko AI, Bukusi EA. [Strengthening Mentoring in Low- and Middle-Income Countries to Advance Global Health Research: An Overview.](https://www.ncbi.nlm.nih.gov/pubmed/30430982) **Am J Trop Med Hyg**. 2019 Jan;100(Suppl):3-8. PMCID: PMC6329352.
180. O Silva MM, Tauro LB, Kikuti M, Anjos RO, Santos VC, Gonçalves TSF, Paploski IAD, Moreira PSS, Nascimento LCJ, Campos GS, Ko AI, Weaver SC, Reis MG, Kitron U, Ribeiro GS. Concomitant transmission of dengue, chikungunya and Zika viruses in Brazil: Clinical and epidemiological findings from surveillance for acute febrile illness. **Clin Infect Dis**. 2018 Dec 18. doi: 10.1093/cid/ciy1083. PMCID: PMC7348233.
181. Mabud TS, Alves MLD, Ko AI, Basu S, Walter KS, Cohen T, Mathema B, Colijn C, Lemos E, Croda J Andrews JR. Evaluating strategies for control of tuberculosis in prisons and prevention of spillover into communities: a modeling study in Mato Grosso do Sul, Brazil. **PLoS Med**. PLoS Med. 2019 Jan 24;16(1):e1002737. doi: 10.1371/journal.pmed.1002737. eCollection 2019 Jan. PMCID: PMC6345418.
182. Rodriguez-Barraquer I, Costa F, Nascimento EJM, Nery Júnior N, Castanha PMS, Sacramento GA, Cruz J, Carvalho M, Santos D, Hagan JE, Adhikarla H, Wunder Jr. EA, Coêlho DF, Azar SR, Rossi SL, Vasilakis N, Weaver SC, Ribeiro GS, Balmaseda A, Harris E, Nogueira ML, Reis MG, Marques ETA, Cummings DAT, Ko AI. Impact of preexisting dengue immunity on Zika vírus emergence in a dengue endemic region. **Science**. 2019 Feb 8;363(6427):607-610. doi: 10.1126/science.aav6618. PMCID: PMC8221194.
183. Richardson JL, Silveira G, Mariani C, Pertile AC, Childs J, Ko A, Costa F, Caccone A. Rapid population genetic impacts accompany an urban rat control campaign in Salvador, Brazil. **Front Ecol Evol**. 06 June 2019 | <https://doi.org/10.3389/fevo.2019.00115>*.*
184. Casanovas-Massana A, Hamond C, Santos LA, de Oliveira D, Hacker KP, Balassiano I, Medeiros MA, Reis MG, Ko AI, Wunder Jr EA. *Leptospira yasudae* sp. nov. and *Leptospira stimsonii* sp. nov., two new pathogenic species of the genus *Leptospira* isolated from environmental sources. **Int J Syst Evol Microbiol**. 2020 Mar;70(3):1450-1456. doi: 10.1099/ijsem.0.003480. PMID:31184568.
185. Lindow JC, Tsay AJ, Montgomery RR, Reis EAJ, Wunder Jr EA, Araújo G, Nery Jr NRR, Mohanty S, Shaw AC, Lee PJ, Reis MG, Ko AI. Elevated activation of neutrophil Toll-like receptors in patients with acute severe leptospirosis: An Observational Study. **Am J Trop Med Hyg**. 2019 Jul 22. doi: 10.4269/ajtmh.19-0160. PMCID: PMC6726964.
186. Briskin EA, Casanovas-Massana A, Ryff KR, Morales-Estrada S, Hamond C, Perez-Rodriguez NM, Benavidez KM, Weinberger DM, Castro-Arellano I, Wunder Jr EA, Sharp TM, Rivera-Garcia B, Ko AI. Seroprevalence, risk factors, and rodent reservoirs of leptospirosis in an urban community of Puerto Rico. **J Infect Dis**. 2019 Jul 2. pii: jiz339. doi: 10.1093/infdis/jiz339. PMCID: PMC6761939.
187. Gostic KMN, Wunder Jr EA, Bisht V, Hamond C, Julian TR, Ko AI, Lloyd-Smith JO. Mechanistic dose-response modeling of animal challenge data shows that intact skin is a crucial barrier to leptospiral infection. **Phil Trans R Soc Lond B**, 2019 Sep 30;374(1782): 20190367. PMCID: PMC6711307.
188. [Lebov JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lebov%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Arias JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Arias%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Balmaseda A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Balmaseda%20A%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Britt W](https://www.ncbi.nlm.nih.gov/pubmed/?term=Britt%20W%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Cordero JF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cordero%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Galvão LA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Galv%C3%A3o%20LA%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Garces AL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Garces%20AL%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Hambidge KM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hambidge%20KM%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Harris E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Harris%20E%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Ko A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ko%20A%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Krebs N](https://www.ncbi.nlm.nih.gov/pubmed/?term=Krebs%20N%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Marques ETA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Marques%20ETA%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Martinez AM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Martinez%20AM%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [McClure E](https://www.ncbi.nlm.nih.gov/pubmed/?term=McClure%20E%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Miranda-Filho DB](https://www.ncbi.nlm.nih.gov/pubmed/?term=Miranda-Filho%20DB%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Moreira MEL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Moreira%20MEL%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Mussi-Pinhata MM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mussi-Pinhata%20MM%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Ochoa TJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ochoa%20TJ%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Osorio JE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Osorio%20JE%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Scalabrin DMF](https://www.ncbi.nlm.nih.gov/pubmed/?term=Scalabrin%20DMF%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Schultz-Cherry S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Schultz-Cherry%20S%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Seage GR 3rd](https://www.ncbi.nlm.nih.gov/pubmed/?term=Seage%20GR%203rd%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Stolka K](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stolka%20K%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Ugarte-Gil CA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ugarte-Gil%20CA%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Vega CMV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Vega%20CMV%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Welton M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Welton%20M%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Ximenes R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ximenes%20R%5BAuthor%5D&cauthor=true&cauthor_uid=31391005), [Zorrilla C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zorrilla%20C%5BAuthor%5D&cauthor=true&cauthor_uid=31391005). International prospective observational cohort study of Zika in infants and pregnancy (ZIP study): study protocol. [**BMC Pregnancy Childbirth**.](https://www.ncbi.nlm.nih.gov/pubmed/?term=ko+a+lebov) 2019 Aug 7;19(1):282. doi: 10.1186/s12884-019-2430-4. PMID: 31413072. PMCID: PMC6686399.
189. Minter A, Himworth CG, Byers KA, Childs JE, Ko A, Costa F. A tail of two cities: age and wounding are associated with carriage of *Leptospira interrogans* by Norway rats (*Rattus norvegicus*) in ecologically distinct urban environments. **Front Ecol Evol**. 2019;7:14. doi: 10.3389/fevo.2019.00014.
190. Minter A, Costa F, Khalil F, Childs JE, Diggle PJ, Ko AI, Begon M. Optimal control of rat-borne leptospirosis in an urban environment. **Front Ecol Evol**. 2019;7:209. doi: 10.3389/fevo.2019.00209.
191. Robbiani DF\*, Olsen PC\*, Costa F\*, Wang Q\*, Oliveira TY\*, Nery Jr N, Aromolaran A, do Rosario MS, Sacramento GA, Cruz JS, Khouri R, Wunder Jr EA, Mattos A, Freitas BP, Sarno M, Archanjo G, Daltro D, Carvalho GBS, Pimentel K, de Siqueira I, de Almeida JRM, Henriques DF, Abreu J, Vasconcelos PFC, Schaefer-Babajew D, Azzopardi SA, Bozzacco L, Gazumyan A, Belfort Jr R, Alcantara AP, Carvalho G, Moreira L, Araujo K, Reis MG, Keesler RI, Coffey LL, Tisoncik-Go J, Gale Jr M, Rajagopal L, Adams Waldorf KM, Dudley DM, Simmons HA, Mejia A, O’Connor DH, Steinbach RJ, Haese N, Smith J, Lewis A, Colgin L, Roberts V, Frias A, Kelleher M, Hirsch A, Streblow DN, Rice CM, MacDonald MR, de Almeida ARP, Van Rompay KKA\*, Ko AI\*, Nussenzweig MC\*. Risk of Zika microcephaly correlates with features of maternal antibodies. **J Exp Med**. 2019 Oct 7;216(10):2302-2315. doi: 10.1084/jem.20191061. PMCID: PMC6781003.
192. Carvalho-Pereira TSA, Souza FN, Santos LR do N, Pedra GG, Minter A, Bahiense TC, Reis MR, Ko AI, ChildsJE, da Silva EM, Costa F, Begon M. Co-infection modifies carriage of enzootic and zoonotic parasites in Norway rats from an urban slum. **Ecosphere**. 2019 Oct 16;10(10)e02887. doi: 10.1002/ec2.2887.
193. Hacker KP, Sacramento GA, Cruz JS, de Oliveira D, Nery Jr N, Lindow JC, Carvalho M, Hagan J, Diggle P, Begon M, Reis MG, Wunder Jr EA, Ko AI, Costa F. Influence of rainfall on *Leptospira* infection and disease in a tropical urban setting. **Emerg Infect Dis**. 2020 Feb;26(2):311-314. doi: 10.3201/eid2602.190102. PMCID: PMC6986844.
194. Santos AS, de Oliveira RD, Lemos EF, Lima F, Cohen T, Cords O, Martinez L, Gonçalves C, Ko A, Andrews JR, Croda J. Yield, Efficiency and Costs of Mass Screening Algorithms for Tuberculosis in Brazilian Prisons. **Clin Infect Dis**. 2021 Mar 1;72(5):771-777. doi: 10.1093/cid/ciaa135. PMCID: PMC7935388.
195. Togami E, Gyawali N, Ong O, Kama M, Cao-Lormeau VM, Aubry M, Ko AI, Nilles EJ, Collins-Emerson JM, Devine GJ, Weinstein P, Lau CL. First evidence of concurrent enzootic and endemic transmission of Ross River virus in the absence of marsupial reservoirs in Fiji. **Int J Infect Dis**. 2020 Jul;27;96:94-96. doi: 10.1016/j.ijid.2020.02.048. PMID: 32114197.
196. Gibson KH, Trajtenberg F, Wunder Jr EA, Brady MR, San Martin F, Mechaly AE, Shang Z, Liu J, Picardeau M, Ko AI, Buschiazzo A, Sindelar CV.. An asymmetric sheath controls flagellar supercoiling and motility in the *Leptospira* spirochete. **ELife**. 2020 Mar 11;9:e53672. doi: 10.7554/eLife.53672. PMCID: PMC7065911.
197. Abdelrasoul G; Anwar A; MacKay S; Tamura M; Shah M; Khasa D; Montgomery R; Ko A; Chen J. DNA aptamer-based non-faradic impedance biosensor for detecting E. Coli. **Anal Chim Acta**. 2020 Apr 22;1107:135-144. doi: 10.1016/j.aca.2020.02.004. PMID: 3220887.
198. Abaluck J, Chevalier J, Christakis NA, Forman H, Kaplan EH, Ko A, Vermund SH. The case for universal cloth mask adoption and policies to increase the supply of medical masks for health workers. **COVID Economics**. 2020;5:147-159.
199. Fauver JR, Petrone ME, Hodcroft EB, Shioda K, Ehrlich HY, Watts AG, Vogels CBF, Brito AF, Alpert T, Muyombwe A, Razeq J, Downing R, Cheemarla NR, Wyllie AL, Kalinich CC, Ott IM, Quick J, Loman NJ, Neugebauer KM, Greninger AL, Jerome KR, Roychoudhury P, Xie H, Shrestha L, Huang ML, Pitzer VE, Iwasaki A, Omer SB, Khan K, Bogoch II, Martinello RA, Foxman EF, Landry ML, Neher RA, Ko AI, Grubaugh ND. Coast-to-coast spread of SARS-CoV-2 during the early epidemic in the United States. **Cell**. 2020 May 28;181(5): 990-996.e5. doi: 10.1016/j.cell.2020.04.021. PMCID: PMC7204677.
200. Farhadian S, Glick LR, Vogels CBF, Thomas J, Chiarella J, Casanovas-Massana A, Zhou J, Odio C, Vijayakumar P, Geng B, Fournier J, Bermejo S, Fauver JR, Alpert T, Wyllie AL, Turcotte C, Steinle M, Paczkowski P, Dela Cruz C, Wilen C, Ko AI, MacKay S, Grubaugh ND, Spudich S, Barakat LA. Acute encephalopathy with elevated CSF inflammatory markers as the initial presentation of COVID-19. **BMC Neurol**. 2020 Jun 18;20(1):248. doi: 10.1186/s12883-020-01812-2. PMCID: PMC7301053.
201. Anjos RO, Mugabe VA, Moreira PSS, Carvalho CX, Portilho MM, Sacramento GA, Nery Jr NRR, Reis MG, Kitron UD, Ko AI, Costa F, Ribeiro GS. Transmission of chikungunya virus in a Brazilian urban slum setting: Seroprevalence, associated factors, and symptomatic infection rate. **Emerg Infect Dis**. 2020 Jul;26(7):1364-1373. doi: 10.3201/eid2607.190846.
202. Hosier H, Farhadian S, Morotti RA, Deshmukh U, Lu-Culligan A, Campbell KH, Yasumoto Y, Vogels CBF, Casanovas-Massana A, Vijayakumar P, Geng B, Odio CD, Fournier J, Brito AF, Fauver JR, Liu F, Alpert T, Tal R, Szigeti-Buck K, Perincheri S, Larsen C, Gariepy AM, Aguilar G, Fardelmann KL, Harigopal M, Taylor HS, Pettker MC, Wyllie AL, Dela Cruz C, Ring AM, Grubaugh ND, Ko AI, Horvath TL, Iwasaki A, Reddy UM, Lipkind HS. SARS-CoV-2 infection of the placenta. **J Clin Invest**. 2020 Sep 1;130(9): 4947-4953. doi: 10.1172/JCI139569. PMCID: PMC7456249.
203. Vinholo RF, Ribeiro GS, Silva NF, Cruz J, Reis MR, Ko AI, Costa F. Severe leptospirosis after rat bite: A case report. **PLoS Negl Trop Dis**. 2020 Jul 9;14(7):e0008257. doi: 10.1371/journal.pntd.0008257. eCollection 2020 Jul. PMCID : PMC7347098.
204. Vogels CBF, Brito AF, Wyllie AL, Fauver JR, Ott IM, Kalinich CC, Petrone ME, Casanovas-Massana A, Muenker MC, Moore AJ, Klein J, Lu P, Lu-Culligan A, Jiang X, Kim DJ, Kudo E, Mao T, Moriyama M, Oh JE, Park A, Silva J, Song E, Takahashi T, Taura M, Tokuyama M, Venkataraman A, Weizman OE, Wong P, Yang Y, Cheemarla NR, White EB, Lapidus S, Earnest R, Geng B, Vijayakumar P, Odio C, Fournier J, Bermejo S, Farhadian S, Dela Cruz CS, Iwasaki A, Ko AI, Landry ML, Foxman EF, Grubaugh ND. Analytical sensitivity and efficiency comparisons of SARS-COV-2 qRT-PCR primer-probe sets. **Nat Microbiol**. 2020 Jul 10. doi: 10.1038/s41564-020-0761-6. PMID: 32651556.
205. Lucas C, Wong P, Klein J, Castro T, Silva J, Sundaram M, Ellingson MK, Mao T, Oh JE, Israelow B, Takahashi T, Tokuyama M, Lu P, Venkataraman A, Park A, Mohanty S, Wang H, Wyllie AL, Vogels CBF, Earnest R, Lapidus S, Ott IM, Moore AJ, Muenker MC, Fournier JB, Campbell M, Odio CD, Casanovas-Massana A, Yale IMPACT Team, Herbst R,Shaw A, Medzhitov R, Schulz WL, Grubaugh NG, Dela Cruz CS, Farhadian S, Ko A, Omer S, Iwasaki A. [Longitudinal immunological analyses reveal inflammatory misfiring in severe COVID-19 patients](https://www.medrxiv.org/content/10.1101/2020.06.23.20138289v3). **Nature**.2020 Jul 27. doi: 10.1038/s41586-020-2588-y. PMCID: PMC7477538.
206. Nabity SA, Araújo G, Hagan JE, Reis MG, Ko AI, Ribeiro GS. Anicteric leptospirosis-associated meningitis in a tropical, urban environment. **Emerg Infect Dis**. 2020 Sep;26(9):2190-2192. doi: 10.3201/eid2609.191001. PMCID: PMC7454101.
207. Matovu JKB, Bogart LM, Nakabugo J, Kagaayi J, Wanyenze RK, Serwadda D, Ko AI, Kurth AE. Feasibility and acceptability of a pilot, peer-led HIV self-testing intervention in a hyperendemic fishing community in rural Uganda. **PLoS One**. 2020 Aug 7;15(8):e0236141. doi: 10.1371/journal.pone.0236141. PMCID: PMC7413506.
208. Takahashi T, Wong P, Ellingson M, Lucas C, Klein J, Israelow B, Silva J, Oh JI, Mao T, Tokuyama M, Lu P, Venkataraman A, Park A, Liu F, Meir A, Sun J, Wang EY, Wyllie AL, Vogels CBF, Earnest R, Lapidus S, Ott IM, Moore AJ ,, Casanovas-Massana A, Dela Cruz C, Fournier J, Odio C, Farhadian S, Grubaugh N, Schulz W, Ko A, Ring A, Omer S, Iwasaki A, Yale IMPACT research team. [Sex differences in immune responses to SARS-CoV-2 that underlie disease outcomes](https://www.medrxiv.org/content/10.1101/2020.06.06.20123414v2). **Nature**. 2020 Dec;588(7837). doi: 10.1038/s41586-020-2700-3. PMCID: PMC7725931.
209. Holzapfel M, Bonhomme D, Cagliero J, Vernel-Pauillac F, d’Andon MF, Bortolussi S, Fiette L, Goarant C, Wunder Jr. EA, Picardeau M, Ko AI, Werling D, Matsui M, Boneca IG, Werts C. Escape of TLR5 recognition by *Leptospira spp*: A rationale for atypical endoflagella. **Front Immunol**. 2020 Aug 11;11:2007. doi: 10.3389/fimmu.2020.02007. PMCID: PMC7431986.
210. Wyllie AL, Fournier J, Casanovas-Massana A, Campbell M, Tokuyama M, Vijayakumar P, Warren JL, Geng B, Muenker MC, Moore AJ, Vogels CBF, Petrone ME, Ott IM, Lu P, Venkataraman A, Lu-Culligan A, Klein J, Earnest R, Simonov M, Datta R, Handoko R, Naushad N, Sewanan LR, Valdez J, White EB, Lapidus S, Kalinich CC, Jiang X, Kim DJ, Kudo E, Linehan M, Mao T, Moriyama M, Oh JE, Park A, Silva J, Song E, Takahashi T, Taura M, Weizman OE, Wong P, Yang Y, Bermejo S, Odio C, Omer SB, Dela Cruz CS , Farhadian S, Martinello RA, Iwasaki AI, Grubaugh ND, Ko AI. Saliva vs nasopharyngeal swabs for SARS-CoV-2 detection. **New Engl J Med**. 2020 Sep 24;383(13):1283-1286. doi: 10.1056/NEJMc2016359. PMCID: PMC7484747.
211. Eyre MT, Carvalho-Pereira TSA, Souza FN, Khalil H, Hacker KP, Serrano S, Taylor JP, Reis MG, Ko AI, Begon M, Diggle PJ, Costa F, Giorgi E. A multivariate geostatistical framework for combining multiple indices of abundance for disease vectors and reservoirs: A case study of rattiness in a low-income urban Brazilian community. **Roy Soc Interface**. 2020 Sep;17(170):20200398. doi: 10.1098/rsif.2020.0398. PMCID: PMC7536052 (Available on 2021-09-01)*.*
212. Zika Virus Individual Participant Data Consortium. The Zika Virus Individual Participant Data Consortium: A global initiative to estimate the effects of exposure to Zika virus during pregnancy on adverse fetal, infant, and child health outcomes. **Trop Med Infect Dis**. 2020 Sep 30;5(4):152. doi: 10.3390/tropicalmed5040152. PMID: **33007828.** PMCID: [PMC7709585](http://www.ncbi.nlm.nih.gov/pmc/articles/pmc7709585/).
213. de Oliveira DS, Airam Querino V, Sara Lee Y, Cunha M, Nery Jr N, Wessels Perelo L, Rossi Alva JC, Ko AI, Reis MG, Casanovas-Massana A, Costa F. Relationship between physicochemical characteristics and pathogenic Leptospira in urban slum waters. **Trop Med Infect Dis**.  2020 Sep 16;5(3):E146. doi:10.3390/tropicalmed5030146. PMCID: PMC7558472.
214. Peccia J, Zulli A, Brackney DE, Grubaugh ND, Kaplan EH, Casanovas-Massana A, Ko AI, Malek AA, Wang D, Wan M, Weinberger DM, Omer SB. Measurement of SARS-CoV-2 RNA in wastewater tracks community infection dynamics. **Nat Biotech**. 2020 Oct;38(10):1164-1167. doi: 10.1038/s41587-020-0684-z. Epub 2020 Sep 18. PMCID: PMC8325066 (Available on 2021-10-01)*.*
215. Dogonyaro BB, van Heerden H, Potts AD, Kolo BF, Lotter C, Katsande C, Fasina FO, Ko AI, Wunder EAJ, Adesiyun AA. Seroepidemiology of *Leptospira* infection in slaughtered cattle in Gauteng province, South Africa. **Trop Animal Health Prod**. 2020 Nov;52(6):3789-3798. doi: 10.1007/s11250-020-02417-0. Epub 2020 Oct 2.PMID: 33009586.
216. [Kudo](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Kudo+E&cauthor_id=33027248) E, [Israelow](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Israelow+B&cauthor_id=33027248) B, [Vogels](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Vogels+CBF&cauthor_id=33027248) CBF, [Lu](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Lu+P&cauthor_id=33027248) P, [Wyllie](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Wyllie+AL&cauthor_id=33027248) AL, [Tokuyama](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Tokuyama+M&cauthor_id=33027248) M, [Venkataraman](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Venkataraman+A&cauthor_id=33027248) A, [Brackney](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Brackney+DE&cauthor_id=33027248) DE, [Ott](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Ott+IM&cauthor_id=33027248) IM, [Petrone](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Petrone+ME&cauthor_id=33027248) ME, [Earnest](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Earnest+R&cauthor_id=33027248) R, [Lapidus](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Lapidus+S&cauthor_id=33027248) S, [Muenker](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Muenker+MC&cauthor_id=33027248) MC, [Moore](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Moore+AJ&cauthor_id=33027248) AJ, [Casanovas-Massana](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Casanovas-Massana+A&cauthor_id=33027248) A, [Yale IMPACT Research Team](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Yale+IMPACT+Research+Team%5BCorporate+Author%5D), [Omer](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Omer+SB&cauthor_id=33027248) SB, [Dela Cruz](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Dela+Cruz+CS&cauthor_id=33027248) CS, [Farhadian](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=200&term=Farhadian+SF&cauthor_id=33027248) SF,Ko AI, Grubaugh ND, Iwasaki A. Detection of SARS-CoV-2 RNA by multiplex RT-qPCR. **PLoS Biol**. 2020 Oct 7;18(10):e3000867. doi: 10.1371/journal.pbio.3000867. PMCID: PMC7571696.
217. Mahajan S, Srinivasan R, Redlich CA, Huston SK, Anastasio KM, Cashman L, Witters D, Marlar J, Li SX, Lin Z, Hodge D, Chattopadhyay M, Adams MD, Lee C, Rao LV, Stewart C, Kuppusamy K, Ko AI, Krumholz HM. Seroprevalence of SARS-CoV-2-specific IgG antibodies among adults living in Connecticut between March 1 and June 1, 2020: Post-Infection Prevalence (PIP) Study. **Am J Med**. 2021 Apr;134(4):526-534. doi: 10.1016/j.amjmed.2020.09.024. PMCID: PMC7598362.
218. Owers Bonner KA, Cruz JS, Sacramento GA, de Oliveira D, Nery N, Carvalho M, Costa F, Childs JE, Ko AI, Diggle PJ. Effects of accounting for interval-censored antibody titer decay on seroincidence in a longitudinal cohort study of leptospirosis. **Am J Epidemiol**. 2021 May 4;190(5):893-899. doi: 10.1093/aje/kwaa253. PMCID: PMC8096484 (Available on 2021-12-04).
219. Schwarz B, Sharma L, Roberts L, Peng X, Bermejo S, Leighton I, Casanovas-Massana A, Minasyan M, Farhadian S,Ko AI, Yale IMPACT Team, Dela Cruz CS, Bosio CM. [Cutting Edge: Severe SARS-CoV-2 Infection in Humans Is Defined by a Shift in the Serum Lipidome, Resulting in Dysregulation of Eicosanoid Immune Mediators.](https://pubmed.ncbi.nlm.nih.gov/33277388/) **J Immunol**. 2021 Jan 15;206(2):329-334. doi: 10.4049/jimmunol.2001025. PMCID: PMC7962598 (Available on 2022-01-15).
220. Vogels CBF, Watkins AE, Harden CA, Brackney DE, Shafer J, Wang J, Caraballo C, Kalinich CC, Ott IM, Fauver JR, Kudo E, Lu P, Venkataraman A, Tokuyama M, Moore AJ, Muenker MC, Casanovas-Massana A, Fournier J, Bermejo S, Campbell M, Datta R, Nelson A; Yale IMPACT Research Team, Dela Cruz CS, Ko AI, Iwasaki A, Krumholz HM, Matheus JD, Hui P, Liu C, Farhadian SF, Sikka R, Wyllie AL, Grubaugh ND. [SalivaDirect: A Simplified and Flexible Platform to Enhance SARS-CoV-2 Testing Capacity.](https://pubmed.ncbi.nlm.nih.gov/33521748/) **Med** (N Y). 2021 Mar 12;2(3):263-280e6. doi: 10.1016/j.medj.2020.12.010. PMCID: PMC7836249.
221. Aguilar Ticona JP, Baig H, Nery N Jr, Doss-Gollin S, Sacramento GA, Adhikarla H, Muenker MC, Wunder EA Jr, Nascimento EJM, Marques ETA, Reis MG, Ko AI, Costa F. [Risk of sexually transmitted Zika virus in a cohort of economically disadvantaged urban residents.](https://pubmed.ncbi.nlm.nih.gov/33395487/) **J Infect Dis**. 2021 Jan 4:jiab001. doi: 10.1093/infdis/jiab001. Online ahead of print. PMID: 33395487.
222. Benitez AN, Monica TC, Miura AC, Romanelli MS, Giordano LGP, Freire RL, Mitsuka-Breganó R, Martins CM, Biondo AW, Serrano IM, Lopes THCR, Reis RB, Gomes FJ, Costa F, Wunder Jr EA, Ko A, Navarro IT. Spatial and simultaneous seroprevalence of anti-*Leptospira* antibodies in owners and their domiciled dogs in a major city of Southern Brazil. **Front Vet Sci**. 2021 Jan 8;7:580400. doi: 10.3389/fvets.2020.580400. PMCID: PMC7820180.
223. Wunder Jr EA, Adhikarla H, Hamond C, Owers KA, Liang L, Rodrigues CB, Bisht V, Nally JE, Alt DP, Reis MG, Diggle PJ, Felgner PL, Ko A. A Live attenuated vaccine model confers cross-protective immunity against different species of *Leptospira* spp. **eLife**. 2021 Jan 26;10:e64166. DOI: [10.7554/eLife.64166](https://doi.org/10.7554/eLife.64166). PMCID: PMC7837694.
224. Shafie NJ, Esa SMS, Amin NAZN, Zalipah MN, Halim NSA, Md-Nor S, Casanovas-Massana A, Ko AI, Costa F. Knowledge, attitudes and practices (KAP) regarding leptospirosis among visitors of recreational forest in Malaysia. **J Am Soc Trop Med Hyg**. 2021 Jan 18;104(4):1290-1296. doi:10.4269/ajtmh.20-0306.Online ahead of print. PMCID: PMC8045624.
225. Aguilar JP, Nery Jr N, Ladines-Lim JB, Gambrah C, Sacramento G, Freitas BP, Bouzon J, Oliveira-Filho J, Borja A, Adhikarla H, Montoya M, Chin A, Wunder Jr. EA, Ballalai V, Vieira C, Belfort R, Almeida ARP, Reis MG, Harris E, Ko AI\*, Costa F. Developmental outcomes in children exposed to Zika virus in utero from a Brazilian urban slum cohort study. **PLoS Negl Trop Dis**. 2021 Feb 5;15(2):e0009162. doi: 10.1371/journal.pntd.0009162. PMCID: PMC7891708.
226. Mahajan S, Caraballo C, Li SX, Dong C, Chen L, Huston SK, Srinivasan R, Redlich CA, Ko AI, Faust JS, Forman HP, Krumholz HM. SARS-CoV-2 Infection Hospitalization Rate and Infection Fatality Rate among the Non-Congregant Population in Connecticut. **Am J Med**. 2021 Jun 13;134(6): 812-816.e.2. doi: 10.1016/j.amjmed.2021.01.020. PMCID: PMC7895685.
227. Costa F, Zeppelini CG, Ribeiro GS, Santos N, Reis RB, Felzemburgh RDM, Betancourt D, Santana C, Brant J, Reis MG, Ko AI. Household rat infestation in urban slum populations: Development and validation of a predictive score for leptospirosis. **PLoS Negl Trop Dis**. 2021 Mar 3;15(3):e0009154. doi: 10.1371/journal.pntd.0009154. PMCID: PMC7959339.
228. Weiss JJ, Attuquayefio TN, White EB, Li F, Herz RS, White TL, Campbell M, Geng B, Datta R, Wyllie AL, Grubaugh ND, Casanovas-Massana A, Muenker MC, Handoko R, Iwasaki A, Yale IMPACT Research Team, Martinello RA, Ko AI, Small DM, Farhadian SF. Tracking smell loss to identify healthcare workers with SARS-CoV-2 infection. **PLoS One**. 2021 Mar 3;16(3):e0248025. doi: 10.1371/journal.pone.0248025. PMCID: PMC7928484.
229. Ott IM, Strine MS, Watkins AE, Boot M, Kalinich CC, Harden CA, Vogels CBF, Casanovas-Massana A, Moore AJ, Muenker MC, Nakahata M, Tokuyama M, Nelson A, Fournier J, Bermejo S, Campbell M, Datta R, Dela Cruz CS, Farhadian SF, Ko AI, Iwasaki A, Grubaugh ND, Wilen CB, Wyllie AL; Yale IMPACT Research team. Stability of SARS-CoV-2 RNA in nonsupplemented Saliva. **Emerg Infect Dis**. 2021 Apr;27(4):1146-1150. doi: 10.3201/eid2704.204199. PMCID: PMC8007305.
230. Watkins AE, Fenichel EP, Weinberger DM, Vogels CBF, Brackney DE, Casanovas-Massana A, Campbell M, Fournier J, Bermejo S, Datta R, Dela Cruz CS, Farhadian SF, Iwasaki A, Ko AI, Grubaugh ND, Wyllie AL; Yale IMPACT Research Team. Increased SARS-CoV-2 testing capacity with pooled saliva samples. **Emerg Infect Dis**. 2021 Apr;27(4). doi: 10.3201/eid2704.204200. PMCID: PMC8007323.
231. Cords O, Martinez L, Warren J, O’Marr JM, Walter KS, Cohen T, Zheng J, Ko A, Croda J, Andrews JA. Incidence and Prevalence of Tuberculosis in Incarcerated Populations: A Systematic Review and Meta-analysis of 157 Studies from 56 Countries. **Lancet** Public Health. 2021 Mar 19:S2468-2667(21)00025-6. doi: 10.1016/S2468-2667(21)00025-6. PMCID: PMC8168455.
232. Khalil H, Santana R, de Oliveira DS, Palma F, Lustosa R, Eyre MT, Carvalho-Pereira T**,** Reis MG, Ko AI, Diggle PJ**,** Lopez YA, Begon M, Costa F. Poverty, sanitation, and *Leptospira* transmission pathways in residents from four Brazilian slums. **PLoS Negl Trop Dis**. 2021 Mar 31;15(3):e0009256. doi: 10.1371/journal.pntd.0009256. PMCID: PMC8041187.
233. McPadden J, Warner F, Young HP, Hurley NC, Pulk RA, Singh A, Durant TJS, Gong G, Desai N, Haimovich A, Taylor RA, Gunel M, Dela Cruz CS, Farhadian SF, Siner J, Villanueva M, Churchwell K, Hsiao A, Torre CJ Jr, Velazquez EJ, Herbst RS, Iwasaki A, Ko AI, Mortazavi BJ, Krumholz HM, Schulz WL. Clinical Characteristics and Outcomes for 7,995 Patients with SARS-CoV-2 Infection. **PLoS One**. PLoS One. 2021 Mar 31;16(3):e0243291. doi: 10.1371/journal.pone.0243291. eCollection 2021.PMCID: PMC8011821.
234. Walter KS, Martinez L, Arakaki-Sanchez D, Sequera VG, Estigarribia Sanabria G, Cohen T, Ko AI, García-Basteiro AL, Rueda ZV, Lopez Olarte R, Espinal M, Croda J, Andrews JR. The escalating tuberculosis crisis in Central and South American prisons. **Lancet**. 2021 Apr 24;397(10284): 1591-1596. doi: 10.1016/S0140-6736(20)32578-2. PMID: 33838724.
235. Souza FN, Santos MA, Alves DA, de Melo LC, da Mota DCG, Pertile AC, Gava R, Pinto PLS, Zeppelini CG, Reis MG, Ko AI, Begon M, Bahiense TC, Costa F, Carvalho-Pereira TSA. *Angiostrongylus cantonensis* in urban populations of terrestrial gastropod mollusks and rats in slum communities in Brazil. **Parasitology**. 2021 Apr 12:1-9. doi: 10.1017/S0031182021000597. Online ahead of print. PMID: 33843507.
236. Lucas C, Klein J, Sundaram M, Liu F, Wong P, Silva J, Mao T, Oh JE, Mohanty S, Tokuyama M, Lu P, Venkataraman A, Park A, Israelow B, Vogels CBF, Muenker MC, Chang CH, Casanovas-Massana A, Zell J, Fournier JB, Yale IMPACT Research Team\*, Wyllie AL, Campbell M, Lee A, Chun HJ, Grubaugh ND, Schulz WL, Farhadian S, Dela Cruz C, Ring A, Shaw A, Wisnewski AV, Yildirim I, Ko AI, Omer S, Iwasaki A. Delayed production of neutralizing antibodies correlates with fatal COVID-19. **Nat Med**. 2021 Jul:27(7):1178-1186. doi: 10.1038/s41591-021-01355-0. PMID: 33953384.
237. Song E, Bartley CM, Chow RD, Ngo TT, Jiang R, Zamecnik CR, Dandekar R, Loudermilk RP, Dai Y, Liu F, Hawes IA, Alvarenga BD, Huynh T, McAlpine L, Rahman NT, Geng B, Chiarella J, Goldman-Israelow B, Vogels CBF, Grubaugh N, Casanovas-Massana A, Phinney BS, Salemi M, Gallego JA, Lencz T, Walsh H, Lucas C, Klein J, Mao T, Oh J, Ring A, Spudich S, DeRisi JL, Ko AI, Kleinstein SH, Iwasaki A, Pleasure SJ, Wilson MR, Farhadian SF. Divergent and self-reactive immune responses in the CNS of COVID-19 patients with neurological symptoms. **Cell Rep Med**. 2021 May 3:100288. doi: 10.1016/j.xcrm.2021.100288. PMCID: PMC8091032.
238. Lu-Culligan A, Chavan A, Vijayakumar P, Irshaid L, Courchaine EM, Milano KM, Tang Z, Pope S, Song E, Vogels CBF, Lu-Culligan WJ, Campbell K, Bermejo S, Casanovas-Massana A, Toothaker J, Lee HJ, Konnikova L, Neugebauer KM, Grubaugh ND, Ko AI, Morotti R, Guller S, Kliman HJ, Iwasaki A, Farhadian SF.Maternal respiratory SARS-CoV-2 infection in pregnancy is associated with robust inflammatory response at the maternal-fetal interface. **Med**. 2021 May 14;2(5): 591-610.e10. doi: 10.1016/j.medj.2021.04.016. PMCID: PMC8084634.
239. Wang EY, Mao T, Klein J, Dai Y, Huck JD, Jaycox JR, Liu F, Zheng NS, Zhou T, Israelow B, Wong P, Coppi A, Lucas C, Silva J, Oh JE, Song E, Perotti ES, Zheng NS, Fischer S, Campbell M, Fournier JB, Wyllie AL, Vogels CBF, Ott IM, Kalinich CC, Petrone ME, Watkins AE, Yale IMPACT Team, Dela Cruz C, Farhadian SF, Schulz WL, Ma S, Grubaugh ND, Ko AI, Iwasaki A, Ring AM. Diverse functional autoantibodies in patients with COVID-19. **Nature**. 2021 Jul:595(7866):283-288. doi: 10.1038/s41586-021-03631-y. Epub 2021 May 19. PMID: 34010947.
240. Casanovas-Massana A, de Oliveira D, Schneider AG, Begon M, Childs JE, Costa F, Reis MG, Ko AI, Wunder EA. [Genetic evidence for a potential environmental pathway to spillover infection of rat-borne leptospirosis.](https://pubmed.ncbi.nlm.nih.gov/34139761/) .**J Infect Dis**. 2021 Jun 17:jiab323. doi: 10.1093/infdis/jiab323. Online ahead of print. PMID: 34139761.
241. Zhao M, Su PY, Castro D, Tripler T, Hu Y, Cook M, Ko AI, Farhadian S, Israelow B, de la Cruz C, Yong X, Sutton RE, Yale IMPACT Research Team. Rapid, reliable, and reproducible cell fusion assay to quantify SARS-CoV-2 Spike interaction with hACE2. **PLoS Pathogens**. 2021 Jun 24;17(6):e1009683. doi: 10.1371/journal.ppat.1009683. PMCID: PMC8263067.
242. George S, Pal AP, Gagnon J, Timalsina S, Singh P, Vydyam P, Munshi M, Chiu JE, Renard I, Harden CA, Ott IM, Watkins AE, Vogels CBF, Lu P, Tokuyama M, Venkataraman A, Casanovas-Massana A, Wyllie AL, Rao V, Campbell M, Farhadian SF, Grubaugh ND, Dela Cruz SC, Ko AI, Yale IMPACT Study Team, Perez AB, Akaho EH, Moledina DG, Testani J, John AR, Ledizet M, Ben Mamoun C. Evidence for SARS-CoV-2 Spike Protein in the Urine of COVID-19 patients. **Kidney360**. June 2021, 2 (6) 924-936; DOI: https://doi.org/10.34067/KID.0002172021.
243. Cai Y, Kim DJ, Takahashi T, Broadhurst DI, Yan H, Ma S, Rattray NJW, Casanovas-Massana A, Israelow B, Klein J, Lucas C, Mao T, Moore AJ, Muenker MC, Oh JE, Silva J, Wong P, Yale IMPACT Research Team, Ko AI, Khan SA, Iwasaki A, Johnson CH. Kynurenic acid underlies sex-specific immune responses to COVID-19. **Sci Signal**. 2021 Jul 6;14(690):eabf8483. doi: 10.1126/scisignal.abf8483. PMID: 34230210.
244. Vouga, M, Favre G, Martinez Perez O, Pomar L,...Ko, AI,…Giannoni E, Baud D, Panchaud A. Maternal outcomes and risk fators for COVID-19 severity among pregnant women. **Sci Rep**. 2021 Jul 6;11(1):13898. doi: 10.1038/s41598-021-92357-y. PMCID: PMC8260739.
245. Nery Jr N. Aguilar Ticona JP, Gambrah C, Doss-Gollin S, Aromolaran A, Rastely-Júnior V, Lessa M, Sacramento GA, Cruz JS, Oliveira DS, dos Santos LL, da Silva CG, Botosso VF, Soares CP, Araujo DB, Oliveira DB, dos Santos Alves RP, Andreata-Santos R, Durigon EL, Ferreira LCS, Wunder Jr. EA, Khouri R, Oliveira-Filho J, de Siqueira IC, Almeida ARP, Reis MG, Ko AI\*, Costa F\*. Social determinants associated with Zika vírus infection in pregnant women. **PLoS Negl Trop Dis**. 2021 Jul 30;15(7):e0009612. doi: 10.1371/journal.pntd.0009612. eCollection 2021 Jul. PMCID: PMC8323902.
246. Hitchings MDT\*, Ranzani OT\*, Torres MSS, de Oliveira SB, Almiron M, Said R, Borg R, Schulz WL, de Oliveira RD, da Silva PV, de Castro DB, Sampaio VS, de Albuquerque BC, Ramos TCA, Fraxe SHH, da Costa CF, Naveca FG, Siqueira AM, Araújo WN, Andrews JR\*, Cummings DAT\*, Ko AI\*, Croda J\*. Effectiveness of CoronaVac among healthcare workers in the setting of high SARS-CoV-2 Gamma variant transmission in Manaus, Brazil: A test negative case-control study. **Lancet Reg Health Americas**. Lancet Reg Health Am. 2021 Jul 25:100025. doi: 10.1016/j.lana.2021.100025. PMCID:PMC8310555.
247. Ranzani OT\*, Hitchings MDT\*, Dorion M, D’Agostini TL, de Paula RC, de Paula OFP, Villela EFM, Torres MSS, de Oliveira SB, Schulz WL, Almiron M, Said R, de Oliveira RD, da Silva PV, de Araújo WN, Gorinchteyn JC, Andrews JR\*, Cummings DAT\*, Ko AI\*, Croda J\*. Effectiveness of the CoronaVac vaccine in older adults during a Gamma variant-associated epidemic of COVID-19 in Brazil: A test-negative case-control study. **BMJ**. *2021* Aug 20. 374:n2015.doi:10.1136/bmj.n2015. PMCID: PMC8377801.
248. Aguilar Ticona JP\*, Nery Jr N\*, Victoriano R, Fofana MO, Ribeiro GS, Giorgi E, Reis MG, Ko AI\*, Costa F\*. Willingness to get the COVID-19 vaccine among residents of slum settlements. **Vaccines** (Basel). 2021 Aug 26;9(9):951. doi: 10.3390/vaccines9090951. PMID: 34579188.
249. Aguilar Ticona JP; Nery Jr N, Doss-Gollin S; Gambrah C, Lessa M, Rastely V, Matos A, Freitas BP, Oliveira-Filho J, Borja A, Wunder Jr. EA, Ballalai V, Vieira C, Belfort R, Almeida ARP, Reis MG, Ko AI\*, Costa F\*. Heterogeneous developmental in children with microcephaly associated with Congenital Zika Syndrome. **PLoS One**. 2021 Sep 15;16(9):e0256444. doi: 10.1371/journal.pone.0256444. eCollection 2021. PMID: 34525107.
250. Lucas C, Vogels CBF, Yildirim I, Rothman JE, Lu P, Monteiro V, Gelhausen JR, Campbell M, Silva J, Tabachikova A, Peña-Hernandez MA, Muenker MC, Breban MI, Fauver JR, Mohanty S, Huang J, Yale SARS-CoV-2 Genomic Surveillance Initiative, Shaw AC, Ko AI, Omer SB, Grubaugh ND, Iwasaki A. Impact of circulating SARS-CoV-2 variants on mRNA vaccine-induced immunity. **Nature**. 2021 Oct 11. doi: 10.1038/s41586-021-04085-y. PMID: 34634791.
251. Hitchings MDT\*, Ranzani OT\*, Dorion M, D’Agostini TL, de Paula RC, de Paula OFP, Villela EFM, Torres MSS, de Oliveira SB, Schulz W, Almiron M, Said R, de Oliveira RD, da Silva PV, de Araújo WN, Gorinchteyn JC, Andrews JR\*, Cummings DAT\*, Ko AI\*, Croda J\*. Effectiveness of the ChAdOx1 vaccine in the older adults during SARS-CoV-2 Gamma variant transmission in São Paulo State, Brazil. **Nat Commun**. 2021 Oct 28;12(1):6220. doi: 10.1038/s41467-021-26459-6.PMID: 34711813.
252. Klein J, Brito AF, Trubin P, Lu P, Wong P, Alpert T, Peña-Hernández M, Haynes W, Kamath K, Liu F, Vogels CBF, Fauver JR, Lucas C, Oh J, Mao T, Silva J, Wyllie AL, Muenker MC, Casanovas-Massana A, Moore AJ, Petrone ME, Kalinich CC, Dela Cruz C, Farhadian S, Ring A, Shon J, Ko AI, Grubaugh ND, Israelow B, Iwasaki A, Azar MM. Longitudinal immune profiling of a SARS-CoV-2 reinfection in a solid organ transplant recipient. **J Infect Dis**. <https://doi.org/10.1093/infdis/jiab553>. PMID: 34718647.
253. Casanovas-Massana A, Neves Souza F, Curry M, Santos de Oliveira D, Santos de Oliveira A, Eyre M, Santiago D, Aguiar Santos M; Serra RMR, Lopes E, Xavier BIA, Diggle PJ, Wunder Elsio, Reis M, Ko A\*, Costa F\*. Effect of sewerage on the contamination of soil with pathogenic *Leptospira* in urban slums. **Environ Sci Technol**. 2021 Nov 12. doi: 10.1021/acs.est.1c04916. PMID: 34767339.
254. Haynes WA, Kamath K, Bozekowski J, Baum-Jones E, Campbell M, Casanovas-Massana A, Daugherty PS, Dela Cruz CS, Dhal A, Farhadian SF, Fitzgibbons L, Fournier F, Jhatro M, Jordan G, Kessler D, Klein J, Lucas C, Luchsinger LL, Martinez B, Muenker MC, Pischel L, Reifert J, Sawyer JR, Waitz R, Wunder Jr. EA, Zhang M, Yale IMPACT Team, Iwasaki A, Ko A, Shon JC. High-resolution epitope mapping and characterization of SARS-CoV-2 antibodies in large cohorts of subjects with COVID-19. **Commun Biol**. 2021 Nov 22;4(1):1317. doi: 10.1038/s42003-021-02835-2. PMID: 34811480.
255. Unterman A, Sumida TS, Nouri N, Yan X, Zhao AY, Gasque V, Schupp JC, Asashima H, Liu Y, Cosme Jr. C, Deng W, Chen M, Raredon MSB, Hoehn K, Wang G, Wang Z, DeIuliis G, Ravindra NG, Li N, Castaldi C, Wong P, Fournier J, Bermejo S, Sharma L, Casanovas-Massana A, Vogels CBF, Wyllie AL, Grubaugh ND, Melillo A, Meng H, Stein Y, Minasyan M, Mohanty S, Ruff WE, Cohen I, Raddassi K, Yale IMPACT Research Team, Niklason LE, Ko AI, Montgomery RR, Farhadian SF, Iwasaki A, Shaw AC, van Dijk D, Zhao H, Kleinstein SH, Hafler DA, Kaminski N, Dela Cruz CS. Single-Cell Omics Reveals Dyssynchrony of the innate and adaptive immune system in progressive COVID-19. **Nat Commun**. *In press*.
256. Kuchroo M, Huang J, Wong P, Grenier JC, Shung D, Tong A, Lucas C, Klein J, Burkhardt DB, Gigante S, Godavarthi A, Rieck B, Israelow B, Simonov M, Mao T, Oh JE, Silva J, Takahashi T, Odio CD, Casanovas-Massana A, Fournier J, Yale IMPACT Team, Farhadian S, Dela Cruz CS, Ko AI, Hirn MJ, Wilson FP, Hussin J, Wolf G, Iwasak A, Krishnaswamy S. Multiscale PHATE identified multimodal signatures of COVID-19. **Nat Biotechnol**. *In press*.
257. Zulli A, Pan A, Bart SM, Crawford FW, Kaplan, EH, Cartter M, Ko AI, Sanchez M, Cozens D, Brackney DE, Brown C, Peccia J. Predicting daily COVID-19 case rates from SARS-CoV-2 RNA concentrations across a diversity of wastewater catchments. **FEMS Microbes**. *In press*.
258. Collins H, Potter GE, Hitchings MDT, Butler E, Wiles M, Kennedy JK, Pinto SB, Teixeira ABM, Casanovas-Massana A, Rouphael NG, Deye G, Simmons CP, Moreira LA, Nogueira ML, Cummings DAT\*, Ko AI\*, Teixeira MM\*, Edupuganti S\*. EVITA Dengue: A cluster-randomized controlled trial to EValuate the efficacy of *Wolbachia*-InfecTed *Aedes aegypti* mosquitoes in reducing the incidence of Arboviral infection in Brazil. **Trials**. *In press*.
259. Walter KS, dos Santos PCP, Gonçalves TO, da Silva BO, Santos AS, Leite AC, Moura A, da Silva AM, Moreira FMF, de Oliveira RD, Lemos EF, Cunha E, Liu YE, Ko AI, Colijn C, Cohen T, Mathema B, Croda J, Andrews JR. The role of prisons in disseminating tuberculosis in Brazil: A genomic epidemiology study. **Lancet Reg Health America**s. *In press*.
260. Khera R, Mortazavi BJ, Sangha V, Warner F. Young HP, Ross JS, Shah ND, Theel ES, Jenkinson WJ, Knepper C, Wang K, Peaper D, Martinello RA, Brandt CA, Lin Z, Ko AI, Krumholz HM, Pollock BD, Schulz WL. A Multicenter Evaluation of the Accuracy of Computable Phenotyping Approaches for SARS-CoV-2 Infection and COVID-19 Hospitalizations from the Electronic Health Record. **NJP Dig Med***. In press.*
261. Gehlhausen JR, Little AJ, Ko CJ, Emmeneggar M, Lucas C, Wong P, Klein J, Lu P, Mao T, Jaycox J, Wang E, Yale IMPACT Team, Ugwe N, Muenker C, Mekael D, Klein R, Patrignelli R, Antaya R, McNiff J, Damsky W, Kamath K, Shon J, Ring AM, Yildirim I, Omer S, Ko A, Aguzzi A, Iwasaki A. Lack of association between pandemic chilblains and SARS-CoV-2 infection. **Proc Nat Acad Sci**. *In press*.
262. Pérez-Then E, Lucas C, Monteiro VS, Miric M, Brache V, Cochon L, Vogels CBF, De la Cruz E, Jorge A, De los Santos M, Leon P, Breban MI, Billig K, Yildirim I, Pearson C, Downing R, Gagnon E, Muyombwe A, Razeq J, Campbell M, Ko A, Omer SB, Grubaugh ND, Vermund SH, Iwasaki A. Immunogenicity of heterologous BNT162b2 booster in fully vaccinated individuals with CoronaVac against SARS-CoV-2 variants Delta and Omicron: the Dominican Republic Experience. **Nat Med**. *In press*.

**2. Case Reports, Technical Notes, Letters**

1. Ko AI. [Development and evaluation of new recombinant antigen-based diagnostic tests for leptospirosis]. In *Workshop on Research and Technological Development: State-of-the-Art and Priorities for Research and Development on Leptospirosis*. Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, 2000.
2. Ko AI. [Epidemiological studies on the burden of leptospirosis in Salvador, Bahia]. In *Workshop on Research and Technological Development: State-of-the-Art and Priorities for Research and Development on Leptospirosis*. Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, 2000.
3. Brazilian Ministry of Health. Secretariat of Health Surveillance. [Guidelines on Leptospirosis: Diagnosis and Clinical Management]. Ministério da Saúde/Secretaria da Vigilância em Saúde, Brasília, Brazil, 2009
4. Landry ML, Ko AI, Kramer LD, Vasilakis N. Zika Virus: From obscurity to potentially devastating international threat. **Clin Chem.** 2016 Sep;62(9):1175-80. PMCID: PMC5444535.
5. Costa F, Ko AI. Zika virus and microcephaly: Where do we go from here? **Lancet Infect Dis**. 2018 Mar;18(3):236-237. doi: 10.1016/S1473-3099(17)30697-7. PMID: 29242092.
6. Ribeiro GS, Kikuti M, Tauro LB, Cardoso CW, Paploski IA, Ko AI, Weaver SC, Reis MG, Kitron U. [Can Zika virus antibodies cross-protect against dengue virus? - Authors' reply.](https://www.ncbi.nlm.nih.gov/pubmed/29653620) **Lancet Glob Health**. 2018 May;6(5):e495. doi: 10.1016/S2214-109X(18)30123-2. PMID: 29653620.
7. Grubaugh ND, Ishtiaq F, Setoh YX, Ko AI. Misperceived risks of Zika-related microcephaly in India. **Trends Microbiol**. Trends Microbiol. 2019 May;27(5):381-383. doi: 10.1016/j.tim.2019.02.004. PMID: 30826180.
8. Rodríquez-Morales AJ, Ramírez-Vallejo E, Alvarado-Arnez LE, Paniz-Mondolfi A, Zambrano LI, Ko AI. Fatal Zika virus disease in adults: A critical reappraisal of an under-recognized clinical entity. **Int J Infect Dis**. Int J Infect Dis. 2019 Mar 8. pii: S1201-9712(19)30129-8. doi: 10.1016/j.ijid.2019.03.002. PMID: 30858118.
9. Lau B, Duggal P, Ehrhardt S, Armenian H, Branas CC, Colditz GA, Fox MP, Hawes SE, He J, Hofman A, Keyes K, Ko AI, Lash TL, Levy D, Lu M, Morabia A, Ness R, Nieto FJ, Schisterman EF, Stürmer T, Szklo M, Werler M, Wilcox AJ, Celentano DD. Perspectives on the future of epidemiology: a framework for training. **Am J Epidemiol.** 2020 Jul 1;189(7):634-639. doi: 10.1093/aje/kwaa013.
10. Musso D, Ko AI, Baud D. Zika Virus Infection: After the Pandemic. Reply. **N Engl J Med**. 2020 Jan 9;382(2):e3. doi: 10.1056/NEJMc1914974
11. Panchaud A, Favre G, Pomar L, Vouga M, Aebi-Popp K, Baud D. COVI-Preg Group. An international registry for emergent pathogen and pregnancy. **Lancet**. 2020 May 9;395(10235):1483-1484. doi: 10.1016/S0140-6736(20)30981-8. PMCID: PMC7185939.
12. Takahashi T, Ellingson MK, Wong P, Israelow B, Lucas C, Klein J, Silva J, Mao T, Oh JE, Tokuyama M, Lu P, Venkataraman A, Park A, Liu F, Meir A, Sun J, Wang EY, Casanovas-Massana A, Wyllie AL, Vogels CBF, Earnest R, Lapidus S, Ott IM, Moore AJ, Shaw A, Fournier JB, Odio CD, Farhadian S, Dela Cruz C, Grubaugh ND, Schulz WL, Ring AM, Ko AI, Omer SB, Iwasaki A. [Reply to: A finding of sex similarities rather than differences in COVID-19 outcomes.](https://pubmed.ncbi.nlm.nih.gov/34552250/) **Nature**. 2021 Sep;597(7877):E10-E11. doi: 10.1038/s41586-021-03645-6.PMID: 34552250.
13. **Reviews, Chapters, Books**
14. Waxman DJ, Ko AI, Walsh C. Steroid hydroxylation catalyzed by Phenobarbital-induced cytochrome P-450 isozymes. In Cytochrome P-450 Biochemistry, Biophysics, and Environmental Implications. Hietanen E, *et al* (Eds). North Holland Biomedical Press, Amsterdam, 1982, p 381-6.
15. Harn D, Quinn J, Oligino L, Percy A, Ko AI, Pham KC, Gross A, Gebremichael A, Stein L. Candidate epitopes for vaccination against *Schistosoma mansoni*. In Molecular Paradigms for Eradicating Helminthic Parasites*,* MacInnis, A (Eds). Alan R. Liss, Inc., New York, 1987, p 55-70.
16. McBride AJA, Athanazio DA, Reis MG, Ko AI. Leptospirosis. **Curr Opin Infect Dis** 2005;18(5):376-86.
17. Ko, AI. Leptospirosis. In Cecil’s Textbook of Medicine, 23rd Ed. Goldman L, Ausiello D (eds). Saunders, Elsevier, Inc., New York, 2008, pp. 2296-2298.
18. Ko AI, Goarant C, Picardeau M. *Leptospira*: The dawn of the molecular genetics era for an emerging zoonotic pathogen. **Nat Rev Microbiol**. 2009;7(10)736-47. PMCID: PMC3384523.
19. Ko AI et al. [Leptospirosis]. In [Infectious and Parasitic Diseases: Guideline], 10th Ed. Ministério da Saúde do Brasil (eds). Ministério da Saúde do Brasil, Brasília, Brazil, 2010, pp. 284-292.
20. Ko AI. Leptospirosis. In Cecil’s Textbook of Medicine, 24th Ed. Goldman L, Ausiello D (eds). Saunders, Elsevier, Inc., New York, 2012, pp. 1937-1930.
21. Weaver SC, Costa F, Garcia-Blanco MA, Ko AI, Ribeiro GS, Saade G, Shi PY, Vasilakis N. Zika Virus: History, Emergence, Biology, and Prospects for Control. **Antiviral Res**. 2016 Jun;130:69-80. doi:10.1016/j.antiviral.2016.03.010. PMCID: PMC4851879.
22. Reis RB, Ribeiro GS, Felzemburgh RDM, Santana FS, Mohr S, Melendez AXTO, Queiroz A, Santos AC, Ravines RR, Tassinari WS, Carvalho MS, Reis MG, Ko AI. Impact of environment and social gradient of *Leptospira* infection in urban slums. In Urban Health: From the Cell to the Street. Corburn J, Riley L (Eds), University of California Press, Oakland, 2016, p 118-133.
23. Unger A, Ko A, Douglass-Jaime G. Favela Health in Pau da Lima, Salvador, Brazil. In Urban Health: From the Cell to the Street. Corburn J, Riley L (Eds), University of California Press, Oakland, 2016, p 105-117.
24. Plowright RK, Parrish CR, McCallum H, Hudson PJ, Ko AI, Graham AL, Lloyd-Smith JO. Pathways to zoonotic spillover. **Nat Rev Microbiol.** 2017 Aug; 15(8): 502-510. PMCID: PMC5791534.
25. de Oliveira Dias JR, Ventura CV, de Paula Freitas B, Prazeres J, Ventura LO, Bravo-Filho V, Aleman T, Ko AI, Zin A, Belfort R Jr, Maia M; Zika Virus Study Group. Zika and the Eye: Pieces of a Puzzle. **Progress Ret Eye Res**. 2018 Sep;66:85-106. doi: 10.1016/j.preteyeres.2018.04.004. PMID: 2968814.
26. Musso D, Ko AI, Baud D. Zika virus infection: After the pandemic. **N Engl J Med**. 2019 Oct 10;381(15):1444-1557. Doi: 10.1056/NEJMra1808246. PMID: 31597021
27. Ribeiro GS, Hamer GL, Diallo M, Kitron U, Ko AI, Weaver SC. Influence of herd immunity in the cyclical nature of arboviruses. **Curr Op Virol**. 2020 Feb;40:1-10. doi: 10.1016/j.coviro.2020.02.004. PMCID: PMC7434662.
28. Corburn J, Vlahov D, Mberu B, Riley L, Caiaffa WT, Rashid SF, Ko A, Patel S, Jukur S, Martínez-Herrera E, Jayasinghe S, Agarwal S, Nguendo-Yongsi B, Weru J, Ouma S, Edmundo Ko, Oni T, Ayad H. Slum Health: Arresting COVID-19 & improving well-being in urban informal settlements. **J Urban Health**. 2020 Jun; 97(3): 348-357.doi.org/10.1007/s11524-020-00438-6. PMCID: PMC7182092.
29. Godri Pollitt KJ, Peccia J, Ko AI, Kaminski N, Dela Cruz CS, Nebert DW, Reichardt JKV, Thompson DC, Vasiliou V. COVID-19 vulnernability: the potential impact of genetic susceptibility and airborne transmission. **Hum Genomics**. 2020 May 12;14(1):17. doi: 10.1186/s40246-020-00267-3. PMCID: PMC7214856.
30. **Opinions and Editorials for the General Public**
31. Burris S, Kapczynski A, Ko A. Five ways public health officals should respond to coronavirus. Philadelphia Inquirer, March 4, 2020. <https://www.inquirer.com/opinion/commentary/coronavirus-response-public-health-officials-plan-funding-20200304.html>.
32. Sonnenfeld J, Ko A. On COVID-19 vaccines, Big Pharma knows to just say ‘no’. Fortune, September 11, 2020. [https://fortune.com/2020/09/11/covid-vaccine-big-pharma-warp-speed-trump-coronavirus/?tj](https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Ffortune.com%2F2020%2F09%2F11%2Fcovid-vaccine-big-pharma-warp-speed-trump-coronavirus%2F%3Ftj&data=02%7C01%7Calbert.ko%40yale.edu%7Cad50e659cbe54f989a0208d85690234d%7Cdd8cbebb21394df8b4114e3e87abeb5c%7C0%7C0%7C637354524350938560&sdata=EAPRIDZiubsO%2BJcyUbs8rcQGksk2dyWpjwL%2BnSOXI70%3D&reserved=0).
33. Ko A, Sonnenfeld J. Amid vaccine trials, the FDA is on trial itself. Fortune, September 24, 2020. <https://fortune.com/2020/09/24/fda-covid-vaccine-trump-meddling/>.
34. Hotez PJ, Ko AI. Why are so many children in Brazil dying from COVID-19. New York Times, June 4, 2021. <https://www.nytimes.com/2021/06/04/opinion/Brazil-covid-children.html>.
35. Jain A, Ko A, Sonnenfeld J. The South’s soaring COVID rates show why we need vaccine mandates so urgently. Fortune, September 15, 2021. <https://fortune.com/2021/09/15/covid-cases-in-the-south-vaccine-mandates-us-death-rates-hospitalizations/>
36. **Patents**
37. *Proteins with repetitive Bacterial-Ig like (Big) domains present in* Leptospira *species*

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Patent No.: US 7,935,357 B2, Date: 05/03/2011

Patent No.: US 8021673, Date: 09/20/2011

Patent No.: US 8124110, Date: 02/28/2012

Patent No.: US 8216594, Date: 07/10/2012

Patent No.: US 8445658, Date: 05/21/2013

Patent No.: US 9,505,809, Date: 11/29/2016

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.

United States Patent Office:2004/0022802 A1, Submitted 05/02/2004

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

World Intellectual Property Organization: WO 2007/070996 A2, Submitted 19/12/2006

United States Patent Office: 12/086,779, pending

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

Authors: Albert Ko, Philip Felgner, Elsio Wunder

United States Patent Office: 61/736391, Submitted 12/12/2013

World Intellectual Property Organization: PCT/US2013/074663

1. *Compositions and methods of preparing* Leptospira

Authors: Albert Ko, Elsio Wunder

United States Patent Office: 61/951,732, Submitted 03/12/2014

World Intellectual Property Organization: PCT/US2015/019865, Submitted 03/11/2015

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

Authors: Ernesto T. De A. Marques Jr., Eduardo Nascimento, Albert I. Ko

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

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