

CURRICULUM VITAE

Julio Croda, MD, PhD

Professional Summary:

I am Julio Croda, an accomplished physician-scientist with over two decades of experience in infectious diseases, global health, and public health emergencies. My work integrates community-engaged research and interdisciplinary approaches to tackle health inequities, particularly among vulnerable and incarcerated populations. As an Associate Professor at the Federal University of Mato Grosso do Sul and Yale School of Public Health, and a Research Specialist at Oswaldo Cruz Foundation, I have led groundbreaking initiatives in epidemiology, vaccinology, and the control of tuberculosis, arboviruses, and COVID-19.

My career includes significant contributions to global health policy, serving as Director of the Department of Immunization and Communicable Diseases at the Brazilian Ministry of Health, and leading large-scale clinical trials supported by the NIH and international consortia. I have been a member of technical advisory boards addressing public health emergencies and infectious disease surveillance. My mission is to advance health equity through science-driven solutions and collaboration across disciplines.

My professional skills include:

- **Global Health Leadership:** Extensive experience leading international initiatives and advising governments on infectious disease policy and prevention.
- **Translational Research and Implementation Science:** Expertise in applying scientific discoveries to improve public health outcomes, particularly in under-resourced settings.
- **Epidemiology and Surveillance:** Advanced capabilities in designing and implementing disease surveillance systems and interventions.
- **Vaccine Trials and Public Health Innovation:** Proven track record in leading multi-center clinical trials for vaccines targeting tuberculosis, dengue, and COVID-19.
- **Health Equity Advocacy:** Dedicated to advancing solutions that address health disparities, with a focus on vulnerable populations.
- **Interdisciplinary Collaboration:** Skilled in coordinating cross-sector partnerships to develop innovative public health strategies.

Name: Julio Henrique Rosa Croda, M.D., Ph.D.

Education:

M.D. School of Medicine, Federal University of Bahia, Salvador, Brazil 2003
 ID Fellowship School of Medicine, University of São Paulo, Sao Paulo, Brazil 2007
 PhD School of Medicine, University of São Paulo, Sao Paulo, Brazil 2008

Career/Academic Appointments:

2000-2009 Research Fellow, Fogarty International Center/NIH-supported Global Infectious Disease Training Program, Division of International Medicine and Infectious Diseases, Weill Medical College of Cornell University, New York, USA.
 2006 Summer Course in Clinical Effectiveness, Harvard School of Public Health
 2008 Research training at Institute Pasteur, Paris, France
 2009-2017 Associate Professor of Internal Medicine, Faculty of Health Sciences, Federal University of Grande Dourados, Brazil.
 2020-2023 PAHO Brazil Consultant in Public Health Emergencies
 2015-present Full Researcher, Oswaldo Cruz Foundation, Mato Grosso do Sul, Brazil
 2017-present Associate Professor of Internal Medicine, School of Medicine, Federal University of Mato Grosso do Sul.
 2018-present Associate Professor Adjunct of Epidemiology, Department of Epidemiology of Microbial Diseases, Yale School of Public Health

Administrative Positions:

2010-2014 Director, Faculty of Health Sciences, Federal University of Grande Dourados, Brazil.
 2016-2018 Vice-president of Brazilian Tuberculosis Network
 2018-2019 President of Brazilian Tuberculosis Network
 2019-2020 Director of Department of the Immunization and Communicable Diseases, Ministry of Health, Brasília, Brazil
 2022-2023 President of Brazilian Society of Tropical Medicine
 2020-present Coordinator of Medicine II Area, Coordination for the Improvement of Higher Education Personnel (CAPES), Ministry of Education, Brasília, Brazil

Board Certification:

2009-present Regional Medical Council of the State of Mato Grosso do Sul, Brazil (CRM 5852)
 2009-present Infectious Diseases Speciality Qualification Registration, Mato Grosso do Sul, Brazil (RQE 3251)

Professional Honors & Recognition:

A) International/National/Regional

1999-2003 Undergraduate Research Fellowship, Brazilian National Research Council
 2001 Award, Annual Undergraduate Research Meeting, Oswaldo Cruz Foundation, Ministry of Health, Rio de Janeiro, Brazil
 2003 Alfredo Thomé Award for the best scientific initiation. Faculty of Medicine of Bahia, Federal University of Bahia

2007	Incentive Award in Science and Technology for the Health System: Category: Published Work, Ministry of Health, Brazil.
2008	Honorable Mention, Young Investigator Award, 57st Annual Meeting of the American Society of Tropical Medicine and Hygiene.
2015	Penitentiary Patron Medal “Senador Ramez Tebet”, Campo Grande, Brazil
2016	Incentive Award in Science and Technology for the Health System: Category: Published Work, Ministry of Health, Brazil.
2017	Insitiut Mérieux – SBMT Young Investigator Awards
2021	Sergio Arouca Health and Citizenship Award – Oswaldo Cruz Foundation
2021	Fundect Researcher Award Sul-Mato-Grossense, First Place in Outstanding Researcher Category, Life Sciences Subcategory, Campo Grande, Brazil
2022	Outstanding Researcher, Federal University of Mato Grosso do Sul
2023	July 2nd Commendation, Legislative Assembly of Bahia, Brazil, in recognition of significant contributions to public health and medical research, particularly in infectious diseases

Grant History:

A) Current Grants

Agency: CEPI
 ID# 01715235-GEN
 Title: Randomized clinical trial to evaluate immunogenicity, safety and reactogenicity of full dose versus fractional doses of Pfizer/BioNTech, AstraZeneca and Sinovac-CoronaVac vaccines, given as an additional dose, at least 6 months after full vaccination or SARS-CoV-2 infection confirmed by PCR, in healthy adults.
 P.I. Denise Garrett, M.D.
 Role on Project: Co-PI
 Project period: 06/15/2022 – 06/15/2025

Agency: Valneva Austria GmbH
 ID# VLA1553-321
 Title: A multicenter, randomized, controlled, double-blind pivot study to assess the safety and immunogenicity of a live attenuated Chikungunya virus vaccine candidate (vla 1553) in adolescents aged 12 to 18 years.
 Local P.I.: Julio Croda, M.D, Ph.D.
 Project period: 10/27/2022 – 02/27/2025

Agency: NIH/NIAID
 ID# 2 R01 AI130058
 Title: Strategies for tuberculosis control in prisons
 P.I.: Jason R. Andrews, M.D.
 Role on Project: Co-PI
 Project period: 03/01/2017 – 02/28/2028

Agency: NIH/NIAID
 ID# R21 AI172182-01
 Title: Point-of-care pharmacogenomic testing to optimize isoniazid dosing for tuberculosis prevention.
 P.I.: Jason R. Andrews, M.D.

Role on Project: Co-PI
 Project period: 09/23/2022 – 08/31/2025

Agency: NIH/NIAID
 ID# 1R01 AI194359-01 (Pending IRG Review)
 Title: Cluster Randomized Trial for Low-Cost Air Filtration Devices to Reduce TB Transmission
 P.I.: Julio Croda
 Role on Project: Co-PI
 Project period: : 07/01/2025 – 06/30/2030

Agency: Takeda Pharmaceuticals International AG
 ID# BA90-4AF4-A80B-3351C7F66D95
 Title: Measuring the impact of a Dengue Vaccination program in Dourados, Mato Grosso do Sul, Brazil: a population-based observational study
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 11/30/2023 – 09/30/2027

Agency: Takeda Pharmaceuticals International AG
 ID#
 Title: Assessment of the Qdenga® vaccine effectiveness in the municipality of Dourados - MS, Brazil
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 06/30/2024 – 09/30/2029

Agency: Silicon Valley Community Foundation
 ID# 333629
 Title: Perceptions of PPL regarding Tuberculosis research and vaccines
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 12/29/2023 – 12/28/2025

Agency: National Council for Scientific and Technological Development
 ID# 445614/2023-4
 Title: Identification of active tuberculosis screening strategies in Brazilian prisons based on automated image interpretation and non-sputum-based tests.
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 21/12/2023 – 12/31/2025

Agency: National Council for Scientific and Technological Development
 ID# 401925/2023-4
 Title: Identification of active tuberculosis search strategies and contact tracing for tuberculosis control in Brazilian prisons.
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 04/12/2023 – 12/31/2026

Agency: National Council for Scientific and Technological Development
 ID# 444176/2023-3
 Title: PHASE 1 STUDY: Pharmacogenomic testing at the point of care to optimize isoniazid dosage in latent tuberculosis treatment.
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 12/12/2023 – 31/12/2026

Agency: National Council for Scientific and Technological Development
 ID# 404182/2019-4
 Title: Characterization of subclinical and incipient tuberculosis infection and identification of new strategies for early diagnosis in incarcerated populations.
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 12/31/2019 – 09/30/2025

Agency: Ministry of Health of Brazil
 ID# 5020.15VX.673.37366
 Title: Promoting the organization of Digital Health in the state of Mato Grosso do Sul / Implementation and expansion of the Telehealth Center
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 11/01/2023 – 10/31/2025

Agency: Ministry of Health of Brazil
 ID# PRES-005-FIO-24
 Title: Phase one study, randomized, double-blind, to evaluate reactogenicity, toxicity, and safety of a candidate tuberculosis vaccine in healthy adults.
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 12/14/2023 – 12/13/2028

B) Past Grants

Agency: National Council for Scientific and Technological Development
 ID# 404237/2012-6
 Title: Dynamics of recent transmission of tuberculosis and multidrug resistance on the borders of Brazil
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 12/22/2010 - 12/16/2016

Agency: Brazilian Ministry of Health, FUNDECT
 ID# SVS20, FUNDECT 0067/2012 and 0059/2013
 Title: Incidence and Risk Factors associated with latent and active tuberculosis and HIV in the prison population in the state of Mato Grosso do Sul
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 06/05/2012 - 06/05/2015

Agency: CAPES
 ID# PVE 137/2013
 Title: HIV/AIDS depression and cognitive decline: Behavioral model, pilot drug discovery and clinical analysis
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 01/02/2013 - 12/31/2015

Agency: CNPq, FUNDECT
 ID# 559094/2009-4, 471429/2011-2, FUNDECT 009/2008, FUNDECT 07/2009 and FUNDECT 08/2009
 Title: Transmission dynamics and risk factors associated with development of active tuberculosis
 P.I.: Julio Croda, M.D, Ph.D.

Project period: 07/10/2009 - 12/14/2013

Agency: NIH/NIAID
 ID# 1R01AI130058
 Title: Strategies for tuberculosis control in prisons
 P.I.: Jason R. Andrews, M.D.
 Role on Project: Co-PI
 Project period: 09/06/2020 – 09/06/2022

Agency: Oswaldo Cruz Foundation
 ID# VPPIS-005-FIO-20
 Title: Multicenter study of the natural history of the new coronavirus SARS-CoV-2 in Brazil
 P.I.: Julio Croda, M.D, Ph.D.
 Project period: 09/06/2020 – 09/06/2022

Agency: Sanofi Pasteur
 ID# VAW00001
 Title: mRNA, Immunogenicity and Safety of the SARS-CoV-2 mRNA Vaccine Formulation Administered for the First Time to Humans in Healthy Adults 18 Years of Age and Over
 Local P.I.: Julio Croda, M.D, Ph.D.
 Project period: 08/16/2021 – 11/02/2022

Agency: Merck Sharp & Dohme Farmacêutica Ltda
 ID# 013 MK-4482
 Title: Phase 3 Study for Prevention of COVID-19 in Adults
 Local P.I.: Julio Croda, M.D, Ph.D.
 Project period: 20/08/2021 – 08/20/2022

Agency: Murdoch Children's Research Institute
 ID# NCT04327206
 Title: Determine whether BCG vaccination (Intervention) compared to placebo (Comparator) reduces the incidence of COVID-19 (Outcome) measured over the 6 months following randomization (Time) in health workers exposed to SARS-CoV -2 (Participants)
 P.I.: Nigel Curtis, M.D
 Role on Project: Co-PI
 Project period: 09/22/2020 – 09/22/2023

PROFESSIONAL SERVICE

Peer Review Groups/Grant Study Sections:

- 2013-Present Ad-hoc Member, Scientific Review Group. National Council for Scientific and Technological Development (CNPq), Ministry of Science and Technology, Brasília, Brazil
- 2013-Present Ad-hoc Member, Scientific Review Group. Coordination for the Improvement of Higher Education Personnel (CAPES), Ministry of Education, Brasília, Brazil
- 2022-Present Ad-hoc Member, Scientific Review Group. Global Health Equity Scholars (GHES) program, which is supported by the NIH/Fogarty D43 Launching Future

Leaders in Global Health (LAUNCH) Research Training Program.
 2022-Present DSMB member, Treatment Success and Safety of 4 Weeks of Daily Rifapentine and Isoniazid (1HP) vs. 12 weeks of Weekly Rifapentine and Isoniazid(3HP) for Prevention of Tuberculosis in HIV-uninfected Individuals (1v3HP for TPT in HIV-uninfected individuals)

Journal Service

2016-present Member, Associated Editorial Board, *Brazilian Journal of Infectious Diseases*
 2022-present Member, Associated Editorial Board, *Journal of the Brazilian Society of Tropical Medicine*
 2022-present Member, Associated Editorial Board, *Plos Global Health*
 2022-present Member, International Advisory Board, *The Lancet Regional Health – Americas*
 2023-present Member, Latin America Advisory Board, *British Medical Journal*
 1995-present Reviewer for *PLoS Medicine*, *PLoS One*, *Plos Neglected Tropical Diseases*, *Epidemiologic Reviews*, *Archives of Public Health*, *Tuberculosis Research and Treatment*, *Thorax*, *Public Health*, *BMC Health Services Research*, *Clinical Microbiology and Infection*, *BMC Research Notes*, *Multidisciplinary Respiratory Medicine*, *Journal of Biomedicine and Biotechnology*, *PLoS Neglected Tropical Diseases*, *Plos One*, *AIDS and Behavior*, *BMC Immunology*, *AIDS Research and Therapy*, *BMC Medical Genetics*, *Annals of Intensive Care*, *Critical Care*, *Memórias do Instituto Oswaldo Cruz*, *BMC Infectious Diseases*, *Thorax*, *International Journal of Infectious Diseases*, *Emerging Infectious Diseases*, *American Journal of Tropical Medicine and Hygiene*, *Microbes and Infection*, *The Pediatric Infectious Disease Journal*, *The Brazilian Journal of Infectious Diseases*, *Lancet Public Health*, *The Lancet Infectious Diseases*, *The Lancet*, *The Lancet Public Health*, *Vaccine*, *Lancet Global Health*, *Nature Medicine*, *Nature communications*.

Professional Organizations

Institutions:

2012-present Steering Committee Member, National TB Program Control, Secretariat of Health Surveillance, Ministry of Health, Brasilia, Brazil
 2019 Coordinator, Measles Emergency Operations Center, Brasilia, Brazil
 2020 Coordinator, COVID-19 Emergency Operations Center Coordinator, Brasilia, Brazil
 2020-present Member of Brazilian Technical Advisory Group on Immunization, Secretariat of Health Surveillance, Ministry of Health, Brasilia, Brazil
 2022-Present Member, R2D2 Network Steering Committee
 2023-present Member of the Technical Advisory Group for Public Health Emergencies, Secretariat of Health Surveillance, Ministry of Health, Brasilia, Brazil
 2022-present Member of Technical Advisory Group for surveillance, prevention and control of respiratory viruses of public health importance, with a focus on covid-19 (CTA-Covid), Secretariat of Health Surveillance, Ministry of Health, Brasilia, Brazil
 2022-present Infectious Diseases Advisor, Medscape Brazil

- 2023-Present TB in Prisons Working Group leader, International Union Against Tuberculosis and Lung Disease
- 2024-Present Member of the advisory committee in Medicine of the National Council for Scientific and Technological Development, Ministry of Science and Technology, Brazil
- 2024-Present Member of the Strategic Advisory Group on Epidemic and Pandemic Prevention and Preparedness of the Pan American Health Organization (PAHO).

Societies

- 2015-present Vice President of the Brazilian TB Research Network
- 2013-2015 Second Secretary of the Brazilian Society of Tropical Medicine
- 2022-2023 President of Brazilian Society of Tropical Medicine
- 2015-present First Secretary of the Brazilian Society of Tropical Medicine
- 2004-present Member, American Society of Tropical Medicine and Hygiene
- 2018-present Member, International Union Against Tuberculosis and Lung Diseases
- 1997-present Member, Brazilian Society of Tropical Medicine

Meeting Planning/Participation

- 2024 Member, Scientific Committee, 59^h Congress of the Brazilian Society of Tropical Medicine
- 2023 Member, Scientific Committee, 58^h Congress of the Brazilian Society of Tropical Medicine
- 2022 President, 57th Congress of the Brazilian Society of Tropical Medicine
- 2017 President, Scientific Committee, 53th Congress of the Brazilian Society of Tropical Medicine
- 2016 Member, Scientific Committee, 52^h Congress of the Brazilian Society of Tropical Medicine
- 2015 Member, Scientific Committee, 51^h Congress of the Brazilian Society of Tropical Medicine
- 2014 Member, Scientific Committee, 50th Congress of the Brazilian Society of Tropical Medicine
- 2013 President, Scientific Committee, 49th Congress of the Brazilian Society of Tropical Medicine
- 2015-2022 Course organizer and lecturer, "Latin American course on the molecular epidemiology of infectious diseases"

BIBLIOGRAPHY:

1. Peer-Reviewed Original Research Manuscripts (209)

Villalva-Serra K, Barreto-Duarte B, Rodrigues MM, Queiroz ATL, Martinez L, Croda J, Rolla VC, Kritski AL, Cordeiro-Santos M, Sterling TR, Araújo-Pereira M, Andrade BB. Impact of strategic public health interventions to reduce tuberculosis incidence in Brazil: a Bayesian structural time-series scenario analysis. **Lancet Reg Health Am.** 2024 Dec 11;41:100963. doi: 10.1016/j.lana.2024.100963. PMID: 39759249

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Corrigendum to Assessment of the Bnt162b2 covid-19 vaccine immune response in Brazilian indigenous adolescents. **Vaccine** Volume 43, Part 1, 1 January 2025, 126494. Vaccine. 2025 Jan 25;45:126630. doi: 10.1016/j.vaccine.2024.126630. Epub 2024 Dec 20. Erratum for: Vaccine. 2025 Jan 1;43(Pt 1):126494. doi: 10.1016/j.vaccine.2024.126494. PMID: 39708515.

Vieceli T, Croda J, Bastos LSL, Bozza FA, Ranzani OT. The burden, clinical features and outcomes of SARS-CoV-2, Influenza and co-infections during concurrently out-of-season outbreaks in Brazil. **Public Health**. 2025 Jan;238:101-107. doi: 10.1016/j.puhe.2024.10.016. Epub 2024 Dec 5. PMID: 39642533.

Walter KS, Cohen T, Mathema B, Colijn C, Sobkowiak B, Comas I, Goig GA, Croda J, Andrews JR. Signatures of transmission in within-host Mycobacterium tuberculosis complex variation: a retrospective genomic epidemiology study. **Lancet Microbe**. 2025 Jan;6(1):100936. doi: 10.1016/j.lanmic.2024.06.003. Epub 2024 Nov 28. PMID: 39615498.

de Oliveira LA, de Moraes IRB, Marchioro SB, de Almeida GB, de Almeida de Souza GH, da Silva Ferreira T, Rossoni R, de Oliveira Barbosa D, Navarini VJ, Croda J, Torres AJL, Simionatto S. Assessment of the BNT162B2 COVID-19 vaccine immune response in Brazilian indigenous adolescents. **Vaccine**. 2025 Jan 1;43(Pt 1):126494. doi: 10.1016/j.vaccine.2024.126494. Epub 2024 Nov 20. Erratum in: Vaccine. 2024 Dec 20;45:126630. doi: 10.1016/j.vaccine.2024.126630. PMID: 39571350.

Oliveira RD, Santos ADS, Gonçalves CCM, Giovanetti M, Alcantara LCJ, Demarchi LHF, Lichs GGC, Ilis TM, Hiane ST, Abbud A, Sacchi CT, Naveca FG, Santos DS, Marques EMM, Lucena Junior WP, Croda J. A case report on symptomatic disease caused by serotype 4 vaccine virus following tetravalent anti-dengue vaccination. **Travel Med Infect Dis**. 2024 Nov-Dec;62:102782. doi: 10.1016/j.tmaid.2024.102782. Epub 2024 Oct 24. PMID: 39461453.

Liu YE, Mabene Y, Camelo S, Rueda ZV, Pelissari DM, Dockhorn Costa Johansen F, Huaman MA, Avalos-Cruz T, Alarcón VA, Ladutke LM, Bergman M, Cohen T, Goldhaber-Fiebert JD, Croda J, Andrews JR. Mass incarceration as a driver of the tuberculosis epidemic in Latin America and projected effects of policy alternatives: a mathematical modelling study. **Lancet Public Health**. 2024 Nov;9(11):e841-e851. doi: 10.1016/S2468-2667(24)00192-0. Epub 2024 Oct 15. PMID: 3941905

Junqueira-Kipnis AP, Leite LCC, Croda J, Chimara E, Carvalho ACC, Arcêncio RA. Advances in the development of new vaccines for tuberculosis and Brazil's role in the effort forward the end TB strategy. **Mem Inst Oswaldo Cruz**. 2024 Oct 4;119:e240093. doi: 10.1590/0074-02760240093. PMID: 39383403

Gurgel-Gonçalves R, Oliveira WK, Croda J. The greatest Dengue epidemic in Brazil: Surveillance, Prevention, and Control. **Rev Soc Bras Med Trop**. 2024 Sep 20;57:e002032024. doi: 10.1590/0037-8682-0113-2024. PMID: 39319953

Possuelo LG, Ely KZ, Soto MMD, Boeira EG, Longo SLM, Schwarzbald P, Heringer TA, Arcênio RA, Croda JHDR, Valim ARM. Health Care for the Population Deprived of Liberty: Overcoming Challenges and Promoting Citizenship. **Rev Soc Bras Med Trop**. 2024 Sep 13;57:e006042024.

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de Oliveira LA, de Rezende IM, Navarini VJ, Marchioro SB, Torres AJL, Croda J, Croda MG, Gonçalves CCM, Xavier J, de Castro E, Lima M, Iani F, Adelino T, Aburjaile F, Ferraz Demarchi LH, Taira DL, Zardin MCSU, Fonseca V, Giovanetti M, Andrews J, Alcantara LCJ, Simionatto S. Corrigendum: Genomic characterization of SARS-CoV-2 from an indigenous reserve in Mato Grosso do Sul, Brazil. **Front Public Health.** 2024 Jul 31;12:1461598. doi: 10.3389/fpubh.2024.1461598. Erratum for: Front Public Health. 2023 Oct 26;11:1195779. doi: 10.3389/fpubh.2023.1195779. PMID: 39145176

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3. Patents

1. *Proteins with repetitive Bacterial-Ig like (Big) domains present in Leptospira species*
Authors: Albert I. Ko, Mitermayer Galvão Reis, Júlio Henrique Rosa Croda, Isadora Cristina Siqueira, David A. Haake, James Matsunaga, Lee W. Riley, Michele Barocchi, Tracy Ann Young.
World Intellectual Property Organization: Pub. No.: WO 03/098214 A1, Date: 11/27/2003
United States Patent Office: Patent No.: US 7,718,183 B2, Date: 05/18/2010

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

2. *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: Pub. No.: US 2004/0022802 A1, Date: 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, Julio Croda

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United States Patent Office: Serial No. 12/086,779, pending