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Mr. Miguel Dario Prieto Gaez

Correspondence language: English
Date of Birth: 1/13
Canadian Residency Status: Study Permit
Country of Citizenship: Colombia

Contact Information

The primary information is denoted by (*)

Address

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Mr. Miguel Prieto Gaez

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
Spanish; Castilian	Yes	Yes	Yes	Yes	Yes

Degrees

2006/8 - 2013/9

Bachelor's Equivalent, Medical Doctor, NA, Universidad del Valle
Degree Status: Completed
Thesis Title: NA

Research Disciplines: Epidemiology and Biostatistics, Immunology, Microbiology

Credentials

2015/3

Medical license, State government office
Authorization for medical practice in Colombia

Recognitions

2019/9 - 2020/1

International tuition award - 2,133 (Canadian dollar)
University of British Columbia
Prize / Award

Areas of Research: Cystic Fibrosis

Research Disciplines: Molecular Biology, Epidemiology and Biostatistics

Fields of Application: Biomedical Aspects of Human Health, Public Health

2016/9

Award list of best scores nationwide for medical graduates in exam of qualification of higher education in Colombia (ECAES) - 0 (Canadian dollar)
Ministry of education
Distinction
Awarded a distinction as one of the best scores overall in 2013 medical graduates.
Evaluated through a standardized test.

2016/2 - 2017/2	Young Investigator award from COLCIENCIAS in CIDEIM - 6,300 (Canadian dollar) COLCIENCIAS Prize / Award Award for recent graduates in Colombia to develop a short research project at an academic or private institution. Developed at the Centro Internacional de Entrenamiento e Investigaciones Medicas (CIDEIM) Areas of Research: Parasitic Infections Research Disciplines: Epidemiology and Biostatistics, Immunology, Microbiology Fields of Application: Biomedical Aspects of Human Health

User Profile

Researcher Status: Master's Student
Research Career Start Date: 2016/03/01
Engaged in Clinical Research?: Yes

Key Theory / Methodology: Evaluation of predictive models using secondary data. Use of cell culture and in-vitro infections to inquire host pathogen interactions. Applications of omic sciences to infectious diseases.

Research Interests: Host pathogen interactions in human diseases, evaluated by application of omic sciences like genomics, transcriptomics and proteomics. Implementation research for bridging findings related to infectious diseases towards the affected individuals or communities. Exploration of relationship between pharmacokinetics and immune response.

Research Experience Summary: After graduating from medical school, I completed my medical social service in a rural practice in Colombia. Afterwards, I was awarded a Young Investigator grant and joined CIDEIM, one of the top research institution in the country. There, for three years, I participated in clinical research with leishmaniasis patients and in laboratory aspects that evaluated the host-pathogen interaction in this disease.

Fields of Application: Biomedical Aspects of Human Health, Public Health

Disciplines Trained In: Epidemiology and Biostatistics, Immunology, Microbiology

Technological Applications: Clinical biological analyses

Countries: Colombia, Canada

Areas of Research: Bacterial Infections, Cystic Fibrosis, Parasitic Infections

Research Centres: The James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research

Research Disciplines: Microbiology, Genetics

Temporal Periods: 2016 AD - 2019 AD2019 AD - 2019 AD

Geographical Regions: South America, Western Canada

Employment

2017/3 - 2019/8

Research assistant/physician
Leishmaniasis, CIDEIM
Full-time
Physician in charged of developing and implementing clinical research protocols as well as managing all patient related activities in research. Data analysis of clinical data, gene expression results and metabolomic reports. Cell culture of Leishmania parasites, preparation of in-vitro susceptibility assays, PCR pipeline and metabolomic extraction from plasma.

Areas of Research: Parasitic Infections

Research Disciplines: Epidemiology and Biostatistics, Microbiology

Fields of Application: Public Health, Pathogenesis and Treatment of Diseases

Affiliations

The primary affiliation is denoted by (*)

(*) 2019/9 - 2021/9

Graduate student, Medicine, University of British Columbia
Student in Bradley Quon's lab working in biomarker discovery in cystic fibrosis

Staff Supervision

Number of Scientific and Technical Staff: 3

Number of Visiting Researchers: 0

Number of Highly Qualified Personnel in Research Training: 0

Number of Employees: 0

Number of Volunteers: 0

Event Participation

Participant, Applied statistics in biomedical research, Course, 2016/2 - 2016/2

Participant, PEEP - Effective planning and evaluation of research projects, Workshop, 2016/4 - 2016/4

Participant, Implementation research MOOC, Course, 2018/7 - 2018/7

Participant, Good clinical practices (GCP) certification, Course, 2018/6 - 2018/6

Participant, Introduction to principles and practice of clinical research (Online course), Course, 2016/9 - 2017/3

Most Significant Contributions

2019/6

Pharmacometabolomicsof Meglumine Antimoniate in Patients With Cutaneous Leishmaniasis.
Journal article published in Frontiers in Pharmacology

2019/1	Phenotypic and functional stability ofleukocytes from human peripheral blood samples: considerations for the designof immunological studies. Journal article published in BMC Immunology
2019/2	Eligibility for localtherapies in adolescents and adults diagnosed with cutaneous leishmaniasis fromsouthwestern Colombia Journal article published in the American Journal of Tropical Medicine and Hygiene
2020/6	Comparative Assessment of DNA Targets and Amplification Methods for *Leishmania (Viannia)* Detection in Human Samples Manuscript published in the American Journal of Tropical Medicine and Hygiene
2018/12	Case report: Squamous cell carcinoma referred for Mohs surgery found to be cutaneous leishmaniasis Journal article published in the American Journal of tropical medicine and Hygiene. PMID: 30277199

Publications

Journal Articles

1. Mariana Rosales-Chilama, Nicole Diaz-Moreno, Miguel Darıo Prieto, Lina Giraldo-Parra, Alvaro Jose Martınez-Valencia, Marıa Adelaida Gomez. (2020). Comparative Assessment of DNA Targets and Amplification Methods for *Leishmania (Viannia)* Detection in Human Samples. The American Society of Tropical Medicine and Hygiene. 102(6): 1323–1327.
http://dx.doi.org/10.4269/ajtmh.19-0691
Co-Author
Published, United States
Refereed?: Yes, Open Access?: Yes, Synthesis?: No
Number of Contributors: 6
Contribution Percentage: 21-30
Description of Contribution Role: Conceptualization of proposal, obtaining ethics approval, clinical data extraction and data analysis. Reviewed concordance data analysis. Helped prepare first draft of manuscript and contributed to subsequent versions.
Description / Contribution Value: Multiple polymerase chain reaction (PCR)-based approaches have been developed for Leishmania detection in clinical and laboratory samples, and this diversity limits inter-study comparisons, meta-analyses, and generalization of findings. Towards harmonization of a molecular tool for detection of Leishmania (Viannia) for researchpurposes, we evaluated the concordance of 18SrDNA quantitative polymerase chain reaction (qPCR) and minicirclekinetoplastid DNA (mkDNA) PCR followed by Southern blot (PCR-SB) in in vitro infection systems and in lesion andmucosal swab samples from Colombian patients with cutaneous leishmaniasis caused by L. (Viannia).

   Funding Sources: National Institutes of Health (NIH) (USA) - 1U19AI129910; Wellcome Trust (The) - 107595/Z/15/Z

2. Navas A, Giraldo L, Prieto MD, Cabrera J, Gómez MA. (2019). Phenotypic andfunctional stability of leukocytes from human peripheral blood samples:considerations for the design of immunological studies. BMC Immunology. 20 (1): 5.
Published,
Refereed?: Yes, Open Access?: Yes

3. Vargas DA, Prieto MD, Martínez-Valencia AJ, et al. (2019). Pharmacometabolomicsof Meglumine Antimoniate in Patients With Cutaneous Leishmaniasis.Journal article published in Frontiers of pharmacology in June 2019. 10: 657.
Published,
Refereed?: Yes, Open Access?: Yes

4. Uribe AF, Prieto MD, Cossio A, Desai M, Castro MdM. (2019). Eligibility for localtherapies in adolescents and adults diagnosed with cutaneous leishmaniasis fromsouthwestern Colombia. American Journal of Tropical Medicine and hygiene. 100 (2): 306-310.
   Published,
   Refereed?: Yes, Open Access?: Yes

5. Prieto MD, Uribe-Restrepo AF, Arcos D, Vargas DA. (2018). Case Report: SquamousCell Carcinoma Referred for Mohs Surgery Found to be Cutaneous Leishmaniasis. American Journal of tropical Medicine and Hygiene. 99 (6): 1537 - 1540.
   Published,
   Refereed?: Yes, Open Access?: Yes

Conference Publications

1. Gómez-Zafra MJ, Navas A, Prieto MD, Jojoa J, Gonzales C, Gomez MA.Immune profile of nasalmucosa in cutaneous leishmaniasis patients.22nd Annual Woods Hole Immunoparasitology, Massachusets, United States,
   Conference Date: 2018/4
   Poster
   Refereed?: Yes, Invited?: No

2. Correa-González AM, Castillo-Loaiza SM, Cruz AR, Prieto MD, Vargas-Navia N. “. Disseminated cutaneous leishmaniasis in a pediatric patient. Latinamerican meeting of dermatologists, Chile,
   Conference Date: 2017/5
   Poster
   Refereed?: No, Invited?: No