

Curriculum Vitae Format

Inácio Mandomando, DVM, PhD (ORCID: 0000-0002-1078-2187)

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CURRENT POSITION:

- Coordinating Researcher & Coordinator of Bacterial, Viral and Neglected Tropical Disease Research Area, Centro de Investigação em Saúde de Manhica

EDUCATION:

- 2009: PhD in Medicine (Medical Microbiology), University of Barcelona, Spain
- 1999: Veterinary Medicine, Eduardo Mondlane University, Maputo, Mozambique

Employment History

Provide details of your employment in chronological date order (most recent first), including your current position:

Date (month/year) From To		Name of employer and position Include a brief description of your current position	Appointment Type E.g. permanent/fixed-term, full/part-time etc.
Jan/2021	Currently	Fundacao Manhica, Coordinating Researcher & Coordinator of Bacterial, Viral and Neglected Tropical Diseases Research Area. Some of his duties include overall coordination of the research group activities, including strategic leadership; fund raising (conceptualize, design new research projects and applying for funding); identifying new institutions for networking; oversee the implementation of study protocols (Scientific, ethical and regulatory clearance, field implementation); communicate with sponsors and partners; review and approve technical and financial reports; train junior researchers.	Permanent, full-time
Jan/2013	Dec/2020	Fundacao Manhica, Manhica Senior Research Fellow	Permanent, full-time
Jan/2013	Dec/2016	Fundacao Manhica, Deputy Director for Science	Permanent, full-time
Mar/2010	Dec/2012	Center for Vaccine Development (CVD) – University of Maryland, Baltimore (MD, USA) & Department of Pediatrics, University of Virginia School of Medicine, Charlottesville (VA, USA), Postdoctoral Fellow, under the same mentorship	Fixed-term, full-time
May/2009	Feb/2010	Fundacao Manhica, Research Scientist	Permanent, full-time
Sep/2004	Apr/2009	Fundacao Manhica, Head of Laboratory Department & Training Fellow (Pre-Doctoral Studies)	

Feb/2002	Sep/2004	Fundacao Manhica, Head of Laboratory Department	Permanent, full-time
Nov/2000	Jan/2002	Fundacao Manhica, Laboratory Technologist	Permanent, full-time

List of selected publications

Full list available in [PubMed](#)

1: Mandomando I, Mwenda JM, Nakamura T, de Gouveia L, von Gottberg A, Kwambana-Adams BA, Antonio M, Messa A Jr, Litt D, Seaton S, Weldegebriel GG, Biey JN, Serhan F. Evaluation of Laboratories Supporting Invasive Bacterial Vaccine-Preventable Disease (IB-VPD) Surveillance in the World Health Organization African Region, through the Performance of Coordinated External Quality Assessment. *Trop Med Infect Dis.* 2023 Aug 14;8(8):413. doi: 10.3390/tropicalmed8080413. PMID: 37624351; PMCID: PMC10459392.

2: Manjate F, João ED, Mwangi P, Chirinda P, Mogotsi M, Messa A Jr, Garrine M, Vubil D, Nobela N, Nhampossa T, Acácio S, Tate JE, Parashar U, Weldegebriel G, Mwenda JM, Alonso PL, Cunha C, Nyaga M, Mandomando I. Genomic characterization of the rotavirus G3P[8] strain in vaccinated children, reveals possible reassortment events between human and animal strains in Manhiça District, Mozambique. *Front Microbiol.* 2023 Jun 5;14:1193094. doi: 10.3389/fmicb.2023.1193094. PMID: 37342557; PMCID: PMC10277737.

3: Mandomando I, Messa A Jr, Biey JN, Paluku G, Mumba M, Mwenda JM. Lessons Learned and Future Perspectives for Rotavirus Vaccines Switch in the World Health Organization, Regional Office for Africa. *Vaccines (Basel).* 2023 Apr 3;11(4):788. doi: 10.3390/vaccines11040788. PMID: 37112700; PMCID: PMC10140870.

4: Garrine M, Quintó L, Costa SS, Messa A Jr, Massinga AJ, Vubil D, Nhampossa T, Massora S, Acacio S, Cossa A, Sigaúque B, Bassat Q, Couto I, Mandomando I. Epidemiology and clinical presentation of community-acquired *Staphylococcus aureus* bacteraemia in children under 5 years of age admitted to the Manhiça District Hospital, Mozambique, 2001-2019. *Eur J Clin Microbiol Infect Dis.* 2023 May;42(5):653-659. doi: 10.1007/s10096-023-04580-2. Epub 2023 Mar 18. PMID: 36932278; PMCID: PMC10023310.

5: Manjate F, Quintó L, Chirinda P, Acácio S, Garrine M, Vubil D, Nhampossa T, João ED, Nhacolo A, Cossa A, Massora S, Bambo G, Bassat Q, Kotloff K, Levine M, Alonso PL, Tate JE, Parashar U, Mwenda JM, Mandomando I. Impact of rotavirus vaccination on diarrheal hospitalizations in children younger than 5 years of age in a rural southern Mozambique. *Vaccine.* 2022 Oct 19;40(44):6422-6430. doi: 10.1016/j.vaccine.2022.09.050. Epub 2022 Oct 1. PMID: 36192272; PMCID: PMC9589241.

6: Manjate F, João ED, Chirinda P, Garrine M, Vubil D, Nobela N, Kotloff K, Nataro JP, Nhampossa T, Acácio S, Tate JE, Parashar U, Mwenda JM, Alonso PL, Nyaga M, Cunha C, Mandomando I. Molecular Epidemiology of Rotavirus Strains in Symptomatic and Asymptomatic Children in Manhiça District, Southern Mozambique 2008-2019. *Viruses.* 2022 Jan 12;14(1):134. doi: 10.3390/v14010134. PMID: 35062336; PMCID: PMC8781303.

7: Massinga AJ, Garrine M, Messa A Jr, Nobela NA, Boisen N, Massora S, Cossa A, Varo R, Siteo A, Hurtado JC, Ordi J, Mucavele H, Nhampossa T, Breiman RF, Whitney CG, Blau DM, Bassat Q,

Mandomando I. *Klebsiella* spp. cause severe and fatal disease in Mozambican children: antimicrobial resistance profile and molecular characterization. BMC Infect Dis. 2021 Jun 5;21(1):526. doi: 10.1186/s12879-021-06245-x. PMID: 34090384; PMCID: PMC8178901.

8: Mandomando I, Mumba M, Nsiari-Muzeyi Biey J, Kipese Paluku G, Weldegebriel G, Mwenda JM. Implementation of the World Health Organization recommendation on the use of rotavirus vaccine without age restriction by African countries. Vaccine. 2021 May 27;39(23):3111-3119. doi: 10.1016/j.vaccine.2021.03.021. Epub 2021 May 3. PMID: 33958225.

9: Messa A Jr, Köster PC, Garrine M, Nhampossa T, Massora S, Cossa A, Bassat Q, Kotloff K, Levine MM, Alonso PL, Carmena D, Mandomando I. Molecular Characterisation of *Cryptosporidium* spp. in Mozambican Children Younger than 5 Years Enrolled in a Matched Case-Control Study on the Aetiology of Diarrhoeal Disease. Pathogens. 2021 Apr 9;10(4):452. doi: 10.3390/pathogens10040452. PMID: 33918893; PMCID: PMC8070020.

10: Acácio S, Nhampossa T, Quintò L, Vubil D, Garrine M, Bassat Q, Farag T, Panchalingam S, Nataro JP, Kotloff KL, Levine MM, Tennant SM, Alonso PL, Mandomando I. Rotavirus disease burden pre-vaccine introduction in young children in Rural Southern Mozambique, an area of high HIV prevalence. PLoS One. 2021 Apr 8;16(4):e0249714. doi: 10.1371/journal.pone.0249714. PMID: 33831068; PMCID: PMC8031087.

11: Messa A Jr, Köster PC, Garrine M, Gilchrist C, Bartelt LA, Nhampossa T, Massora S, Kotloff K, Levine MM, Alonso PL, Carmena D, Mandomando I. Molecular diversity of *Giardia duodenalis* in children under 5 years from the Manhica district, Southern Mozambique enrolled in a matched case-control study on the aetiology of diarrhoea. PLoS Negl Trop Dis. 2021 Jan 19;15(1):e0008987. doi: 10.1371/journal.pntd.0008987. PMID: 33465074; PMCID: PMC7846004.

12: Magaço A, Munguambe K, Nhacolo A, Ambrósio C, Nhacolo F, Cossa S, Macete E, Mandomando I. Challenges and needs for social behavioural research and community engagement activities during the COVID-19 pandemic in rural Mozambique. Glob Public Health. 2021 Jan;16(1):153-157. doi: 10.1080/17441692.2020.1839933. Epub 2020 Oct 30. PMID: 33125306.

13: Garrine M, Matambisso G, Nobela N, Vubil D, Massora S, Acácio S, Nhampossa T, Alonso P, Mandomando I. Low frequency of enterohemorrhagic, enteroinvasive and diffusely adherent *Escherichia coli* in children under 5 years in rural Mozambique: a case-control study. BMC Infect Dis. 2020 Sep 7;20(1):659. doi: 10.1186/s12879-020-05380-1. PMID: 32894092; PMCID: PMC7475947.

14: Mandomando I, Vubil D, Boisen N, Quintó L, Ruiz J, Sigaúque B, Nhampossa T, Garrine M, Massora S, Aide P, Nhacolo A, Pons MJ, Bassat Q, Vila J, Macete E, Scheutz F, Levine MM, Ruiz-Perez F, Nataro JP, Alonso PL. *Escherichia coli* ST131 clones harbouring *AggR* and *AAF/V* fimbriae causing bacteremia in Mozambican children: Emergence of new variant of *fimH27* subclone. PLoS Negl Trop Dis. 2020 May 1;14(5):e0008274. doi: 10.1371/journal.pntd.0008274. PMID: 32357189; PMCID: PMC7219792.

15: Vubil D, Acácio S, Quintò L, Ballesté-Delpierre C, Nhampossa T, Kotloff K, Levine MM, Alonso P, Nataro JP, Farag TH, Vila J, Mandomando I. Clinical features, risk factors, and impact of antibiotic treatment of diarrhea caused by *Shigella* in children less than 5 years in Manhica District, rural Mozambique. Infect Drug Resist. 2018 Oct 31;11:2095-2106. doi: 10.2147/IDR.S177579. PMID: 30464552; PMCID: PMC6219103.

16: Guiral E, Pons MJ, Vubil D, Mari-Almirall M, Sigaúque B, Soto SM, Alonso PL, Ruiz J, Vila J, Mandomando I. Epidemiology and molecular characterization of multidrug-resistant *Escherichia coli*

isolates harboring *bla*_{CTX-M} group 1 extended-spectrum β -lactamases causing bacteremia and urinary tract infection in Manhiça, Mozambique. *Infect Drug Resist.* 2018 Jul 3;11:927-936. doi: 10.2147/IDR.S153601. PMID: 30013375; PMCID: PMC6037150.

17: Vubil D, Garrine M, Ruffing U, Acácio S, Sigaúque B, Alonso PL, von Müller L, Herrmann M, Mandomando I. Molecular Characterization of Community Acquired *Staphylococcus aureus* Bacteremia in Young Children in Southern Mozambique, 2001-2009. *Front Microbiol.* 2017 May 4;8:730. doi: 10.3389/fmicb.2017.00730. PMID: 28522992; PMCID: PMC5415612.

18: Mandomando I, Weldegebriel G, de Deus N, Mwenda JM. Feasibility of using regional sentinel surveillance to monitor the rotavirus vaccine impact, effectiveness and intussusception incidence in the African Region. *Vaccine.* 2017 Mar 23;35(13):1663-1667. doi: 10.1016/j.vaccine.2017.01.072. Epub 2017 Mar 1. PMID: 28242070.

19: Mandomando I, Bassat Q, Sigaúque B, Massora S, Quintó L, Acácio S, Nhampossa T, Vubil D, Garrine M, Macete E, Aide P, Sacoor C, Herrera-León S, Ruiz J, Tennant SM, Menéndez C, Alonso PL. Invasive *Salmonella* Infections Among Children From Rural Mozambique, 2001-2014. *Clin Infect Dis.* 2015 Nov 1;61 Suppl 4:S339-45. doi: 10.1093/cid/civ712. PMID: 26449950.

20: Mandomando I, Nanche D, Pasetti MF, Cuberos L, Sanz S, Vallès X, Sigauque B, Macete E, Nhalungo D, Kotloff KL, Levine MM, Alonso PL. Assessment of the epidemiology and burden of measles in Southern Mozambique. *Am J Trop Med Hyg.* 2011 Jul;85(1):146-51. doi: 10.4269/ajtmh.2011.10-0517. PMID: 21734140; PMCID: PMC3122359.

Prizes and Awards

Please detail any prizes or awards in the table below:

Date (month/year)	Details
Nov/2023	Mozambican Veterinarians Board – OMVM prize in recognition of services to Public Health

Contributions to development of individuals & wider research community

In addition to publishing more than 190 articles in international peer-reviewed journals, over the years, the applicant has contributed to the development and training of multiple Mozambican and international researchers by supervising, directing and co-directing the PhD theses, master's and bachelor's degrees research projects/theses and by participating as an examiner for the presentations and defenses. Below some of these contributions are highlighted:

- Sep 2022 to date: Director of Augusto Messa Jr.'s PhD thesis (to be defended in September 2025). Investigating the role of the gut microbiome in the treatment response in soil-transmitted helminth infections. Universitat de Barcelona, Barcelona, Spain.
- Aug 2019 to date: Co-director of Filomena Manjate's PhD thesis (to be defended in 2024). Molecular Epidemiology of non-typable Rotavirus strains circulating in rural Manhiça District, 2008 – 2019. Universidade Nova de Lisboa, Lisboa, Portugal
- Aug 2018 to Jan 2024: Co-director of Marcelino Garrine's PhD thesis (defended Jan 25, 2024). Molecular Epidemiology of *Staphylococcus aureus* in rural Mozambique. Universidade Nova de Lisboa, Lisboa, Portugal
- Nov 2019. Co-Director of Sozinho Acácio's PhD thesis (completed). Diarrheal disease in children aged 0-59 months in Mozambique: Risk factors and associated mortality. Universitat de Barcelona, Barcelona, Spain.
- Dec 2018. Co-director of Delfino Vubil's PhD thesis (completed). Spotlight on the virulence, antibiotic resistance and epidemiology of *Shigella* spp. Universitat de Barcelona, Barcelona, Spain
- Dec 2013. Co-director of Tacilta Nhamossa's PhD thesis (completed). The epidemiology of diarrhoea: Determination of the burden, aetiology and consequences of diarrheal disease in children aged 0-59 months in Manhiça District, Mozambique. Universitat de Barcelona, Barcelona, Spain

External independent examiner

- Jan 2024: Independent Examiner of the PhD thesis: Management of Undernutrition in children under five years of age with diarrhea in Mozambique, 2015-2021. Instituto de Higiene e Medicina Tropical (IHMT), Universidade Nova de Lisboa, Portugal
- April 2021: External evaluator for Master's Degree Thesis: Molecular Epidemiology of Antibiotic Resistant *Shigella* spp. Implicated in Community-Acquired Acute Diarrhoea at Bawaila Hospital, Lilongwe Malawi (A PHIRI). Kwazulu Natal University, Durban, South Africa.
- Jul 2020: External examiner of PhD thesis by Aly Muadica. Epidemiología molecular y factores de riesgo de protistas enteroparásitos asociados a diarrea en poblaciones pediátricas sintomáticas y asintomáticas en España y Mozambique. Universidad Complutense de Madrid, Madrid, Spain

Membership of scientific committees

- Jan 2023 – present: American Society for Microbiology Country Ambassador to Mozambique
- May – Oct 2022: Served as expert to the Quadripartite (Food and Agriculture Organization of the United Nations [FAO], the World Organisation for Animal Health [OIE], the United Nations Environment

Programme [UNEP] and the World Health Organization [WHO] to develop One Health Priority Research Agenda on Antimicrobial Resistance

- 2018 – present: Member of External Scientific Committee of the “Centro de Investigação em Saúde de Angola (CISA)”, Angola
- 2017 – present: Accredited Researcher at University of Barcelona, Barcelona, Spain to supervise and mentor PhD Students
- 2014 – 2019: Accredited Researcher at University of KwaZulu Natal, Durban, South Africa to Supervise Masters and PhD students on the NORAD programme
- 2014- Mar 2015: Served as expert for Scientific Strategic Advisory Group for *Cryptosporidium* convened by the Bill and Melinda Gates Foundation.
- 2019 – present. Member of American Society of Tropical Medicine and Hygiene (ASTMH)
- July 5, 2016: Invited as expert for the European & Developing Countries Clinical Trials Partnership (EDCTP) Stakeholders meeting on Diarrhoeal Disease, Amsterdam, Netherlands.
- 2014 – present: Member of Society for Laboratory Medicine
- 2013 – present: Member of American Society for Microbiology
- 2012 – present: Member of Academy of Science of Mozambique