

## Jaime David Acosta España

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**Title PhD Project: Hydrophobic surface binding protein is ligand for recognition of *L. corymbifera* by human phagocytes: Identification of receptor and diagnostic markers.**

### Main Research Interests

- Interaction between *L. corymbifera* and immunity
- Contribution of TLR 2-4 in recognition of surface proteins in spores of *L. corymbifera*
- Detection of SNP in TLR 2-4 in human's host

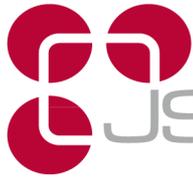
### Methodological Experiences

- Cell cultivation
- Nucleid acid sequencing
- Diagnosis of pathogens by molecular methods
- Melanine production and quantification
- Heterologous expression of genes encoding virulence factor expression
- Antimicrobial susceptibility test in pathogenic microorganisms

### Curriculum Vitae

#### University studies

- September 2019 – February 2021. Master in HIV, thesis: “Study of the prevalence of mortality and morbidity caused by the human immunodeficiency virus in Ecuador, period 2007-2017” at the Universidad Juan Carlos and Spanish Ministry of Health (Spain).
- March 2016 – August 2021. Master's in medical microbiology, thesis: “Effect of proton pump inhibitors on in vitro sensitivity and inhibition of melanin production in *Cryptococcus* spp.” at the Federal University of Ceará (Brazil).
- August 2007 – September 2014. Medical Doctor, thesis: “Evaluation of preconception weight as a risk factor for complications during childbirth in the population attended at the Carapungo health center in the period 2012 to 2013.” at the Universidad Central del Ecuador (Ecuador).



### Scholarship

- Scholarship for postgraduate studies in Brazil, Organization of American States, Coimbra Group of Brazilian Universities, Pan American Health Organization.
- Scholarship for Graduate Program Studies at Harvard Medical School

### Research

- 2016 - 2018, Medical Mycology Center, Federal University of Ceará.

### Practical course

- 2018, laboratory diagnosis of tuberculosis, National Institute of Public Health and Research (INSPI), Quito, Ecuador.
- 2019 detection of resistance mechanisms in clinical isolates, National Reference Center for Antimicrobials, Quito Ecuador.
- 2020 diagnostic techniques for SARS-CoV-2, Stanford University, USA.

## Publications

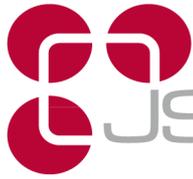
### Peer-reviewed original papers

- Altamirano Jara, . J., Lafuente Cevallos , L., Gallegos Sevilla , J., Lascano Gallegos , N., Acosta España , J., & Palacios Álvarez, . S. (2022). Nódulo del Ordeñador, reporte de un caso. *Revista Ecuatoriana De Ciencia Tecnología E Innovación En Salud Pública*, 5(3), 1–5.
- Altamirano Jara, .J., Lafuente Cevallos , L., Gallegos Sevilla , J., Lascano Gallegos , N., Acosta España , J., & Palacios Álvarez et al. Liqueen Plano Ampollar: Reporte de Caso clínico. *Medicinas UTA*, [S.I.], v. 5, n. 4, p. 42 - 46,
- Acosta España J. Resistance to antibiotic agents: perspective and reality. *Rev Med Vozandes*. 2021; 32 (1)
- Acosta España, J. D., Arnao Noboa, A. V., Villacís Ramos, I. P., Avila Espinoza, R. E., & Davalos de Castro, Álvaro F. (2021). SARS-CoV-2 variant VUI 202012/01 (B.1.1.7) in a pediatric patient: first case report in Ecuador: Case Report. *Revista Ecuatoriana De Pediatría*, 22(1), Article 7:1-6.
- Gadelha-Farias, et al. Mycetoma caused by *Phellinus* species: a rare case from Brazil. *Infectio* 2021; 25(3): 197-199
- Brilhante, et. al. *Malassezia pachydermatis* from animals: Planktonic and biofilm antifungal susceptibility and its virulence arsenal. *Veterinary Microbiology* 2018: Pages 47-52
- Brilhante, et. al. Proton pump inhibitors versus *Cryptococcus* species: effects on *in vitro* susceptibility and melanin production. *Future Microbiology*, 2018, Vol. 14, No 6, Pages 47-52
- Brilhante, et. al. An alternative method for the analysis of melanin production in *Cryptococcus neoformans sensu lato* and *Cryptococcus gattii sensu lato*. *Mycoses*, 2017, Vol 60, 6, Pages 697-702

### Peer-reviewed reviews and book articles

- Acosta Jaime, et. al. Infecciones de las vías urinarias. [Eliana Narváez](#), Guía Terapéutica para la Práctica Médica General, Vol. 2, Cuevas Ediciones.
- Acosta Jaime, et. al. Infecciones gastrointestinales. [Eliana Narváez](#), Guía Terapéutica para la Práctica Médica General, Vol. 2, Cuevas Ediciones.
- Chaves Mario, Acosta Jaime, et. al. Anatomía del hígado. Armijos Luis, CIRUGÍA TOMO 2 (Spanish Edition), Vol. 2, Cuevas Ediciones.

### Non-peer-reviewed articles, conference abstracts, theses



#### Lectures in congress

- Exhibitor at the first conference on laboratory updates. Module IV, Infectious Diseases. Date: August 23, 2018. topic: microbiological diagnosis, timeouts.
- Exhibitor at the First Conference on Laboratory Updates. Module VI, Pathological Anatomy and Cytology. Date: November 22, 2018. topic: histopathological diagnosis of infections.
- Exhibitor at the First Conference on Laboratory Update. Module VII, Molecular Biology. Date: January 17, 2019. topic: molecular diagnosis of pathogens.
- Panellist at the I. International Congress on Mother and Child. Roundtable: state of the art in neonatal sepsis. Date: July 22-26, 2019.
- Speaker at the I. International Mother and Child Congress. Current status of biomarkers in neonatal sepsis. Date: July 22-26, 2019.
- Speaker at the First Conference on Updates in Clinical Analysis, Pathological Anatomy and Molecular Biology Laboratory. Eugenio Espejo Special Hospital. Date: November 6 to 8, 2019. topic: yeast sepsis.
- Speaker at the III International Congress of Avnace in Nursing and Research. Ambato University of Technology. Date: December 9-13, 2019. topic: impact of biomedical device use on the occurrence of HAIs.
- Speaker at the III International Congress of Avnace in Nursing and Research. Ambato University of Technology. Date: 9-13 December 2019. topic: isolation in the infected patient.
- Speaker at the III International Congress of Avnace in Nursing and Research. Technical University of Ambato. Date: 9-13 December 2019. topic: standard precautions and their reduction in IAAS.
- Speaker at the "III INTERNATIONAL UPDATE CONGRESS IN INTERNAL MEDICINE and II INTERNATIONAL UPDATE COURSE IN INTERNAL MEDICINE NURSING". ANAMER. Date: February 6-9, 2020. topic: INTERPRETATION OF THE ANTIBIOGRAM IN FREQUENT INFECTIONS.
- Speaker at "III INTERNATIONAL UPDATE CONGRESS IN INTERNAL MEDICINE and II INTERNATIONAL UPDATE COURSE IN INTERNAL MEDICINE NURSING". ANAMER. Date: February 6-9, 2020. topic: fungal sepsis and fungal diagnosis.
- Speaker at the XXIV Congress of the Clinical Laboratory of UNASA, El Salvador. Date: October 22, 2020. topic: importance of microbiological diagnosis of biofilm-related infections.
- Visiting professor at INTERNATIONAL UPDATE CONGRESS IN CRITICAL MEDICINE AND INTENSIVE THERAPY. San Francisco University supported. Date: July 5-13, 2021. topic: clinical interpretation of the antibiogram.
- Speaker at the International HIV Forum. Latin Journal of Medicine and Public Health, Puerto Rico. Date: July 18, 2021. topic: HIV diagnosis.
- Speaker at II INTERNATIONAL UPDATE COURSE IN MOST FREQUENT COVID -19 PATHOLOGIES. Advocacy ANAMER, UDLA, Sepsis Project. Date: July 18, 2021. topic: indiscriminate use of antibiotics in COVID -19.
- INVITED PROFESSOR at "CONGRESS OF UPDATING THE MANAGEMENT AND IMPROVEMENT OF THE QUALITY OF HEALTH SERVICES, PREVENTION AND CONTROL OF INFECTIONS ASSOCIATED WITH HEALTH CARE". Surety ANAMER, UDLA, MSP. Date: August 2-9, 2021. subject: indiscriminate use of antibiotics in COVID -19.