

**Washington B. Cárdenas**  
**Professor**

**EDUCATION**

Ph.D. Environmental and Evolutionary Biology, 1999, University of Louisiana, Lafayette, LA, USA

M.S. In Biology, 1995, University of Louisiana, Lafayette, LA, USA

B.S. Biology, 1990, University of Guayaquil, Guayaquil, Ecuador

**SERVICE ON THIS FACULTY (15 years)**

2007-present, Professor

**OTHER RELATED EXPERIENCE**

2002 – 2007, **Postdoctoral fellow**. Department of Microbiology, Mount Sinai School of Medicine, New York, NY 1029, USA. Supervisor Dr. Christopher F. Basler

2002: **Postdoctoral fellow**. Department of Microbiology (Parasitology), New York University Langone Medical Center, New York, NY 10016, USA. Supervisor Dr. Ruth Nussenzweig.

**CONSULTING AND PATENTS (n/a)**

**STATE IN WHICH REGISTERED (n/a)**

**PUBLICATIONS LAST FIVE YEARS**

Antarctic fungi with antibiotic potential isolated from Fort William Point, Antarctica. Eunice Ordóñez-Enireb, Roberto Cucalón, Diana Cárdenas, Nadia Ordóñez, Santiago Coello, Paola Elizalde and Washington B. Cárdenas. Scientific Reports, 2022, 12(1), 21477

Gold Nanoshells-Based Lateral Flow Assay for the Detection of Chagas Disease at the Point-of-Care. Melisa Medina-Rivera, Washington B. Cárdenas, David Erickson and Saurabh Mehta. Am.J.Trop.Med.Hyg. 2022, 107(2), 323.

High sensitivity low-cost detection of SARS-CoV-2 by two steps end point RT-PCR with agarose gel electrophoresis visualization. Figueroa, S., Freire-Paspuel, B., Vega-Mariño, P., Cardenas, W.B., Garcia-Bereguian, M.A. Scientific Reports, 2021, 11(1), 21658

Vitamin A status, inflammation adjustment, and immunologic response in the context of acute febrile illness: A pilot cohort study among pediatric patients. Colt, Susannah, ;Gannon, Bryan M.;Finkelstein, Julia L.;Zambrano, Mildred P.;Andrade, Joyce K.;Centeno-Tablante, Elizabetha;August, Avery;Erickson, David;Cárdenas, Washington B.;Mehta, Saurabh. Clinical Nutrition, 2021, 40(5), 2837.

A comparison of deep learning models for detecting COVID-19 in chest X-ray images. Peláez, Enrique; Serrano R.; Murillo, Geancarlo; Cárdenas, Washington. IFAC-Papers OnLine Open Access, 2021, 54(15), 358. 11th IFAC Symposium on Biological and Medical Systems BMS 2021 Ghent 19 September 2021.

Current state of the art in rapid diagnostics for antimicrobial resistance. Shanmugakani RK, Srinivasan B, Glesby MJ, Westblade LF, Cárdenas WB, Raj T, Erickson D, Mehta S. Lab Chip, 2020, 20(15), 2607.

Kim J, Cao XE, Finkelstein JL, Cárdenas WB, Erickson D, Mehta S. 2019. A two-colour multiplexed lateral flow immunoassay system to differentially detect human malaria species on a single test line. Malar. J. 18:313.

Ruisheng Wang, Serge Y. Ongagna-Yhombi, Zhengda Lu, Elizabeth Centeno-Tablante, Susannah Colt, Xiangkun Elvis Cao, Yue Ren, Washington B. Cárdenas, Saurabh Mehta, and David Erickson. 2019. A Rapid Diagnostic Platform for Colorimetric Differential Detection of Dengue and Chikungunya Viral Infections. Anal. Chem. 91:5415-5423.

Lippi CA, Stewart-Ibarra AM, Muñoz ÁG, Borbor-Cordova MJ, Mejía R, Rivero K, Castillo K, Cárdenas WB, Ryan SJ. 2018. The Social and Spatial Ecology of Dengue Presence and Burden during an Outbreak in Guayaquil, Ecuador, 2018. Int. J. Environ. Res. Public Health 15(4). Pii: E827.

Ryan SJ, Stewart-Ibarra AM, Ordóñez-Enireb E, Chu W, Finkelstein JL, King CA, Escobar LE, Lupone C, Heras F, Tauzer E, Waggoner E, James TG, Cárdenas WB, Polhemus M. 2018. Spatiotemporal Variation in Environmental Vibrio cholerae in an Estuary in Southern Coastal Ecuador. Int. J. Environ. Res. Public Health 15(3). Pii: E486.

Stewart-Ibarra AM, Ryan SJ, Kenneson A, King CA, Abbott M, Barbachano-Guerrero A, Beltrán-Ayala E, Borbor-Cordova MJ, Cárdenas WB, Cueva C, Finkelstein JL, Lupone CD, Jarman RG, Maljkovic Berry I, Mehta S, Polhemus M, Silva M, Endy TP. 2018. The Burden of Dengue Fever and Chikungunya in Southern Coastal Ecuador: Epidemiology, Clinical Presentation, and Phylogenetics from the First Two Years of a Prospective Study. AJTMH 98(5):1444-1459.