

Position: Assistant Professor
Affiliation: Program in Molecular Medicine, University of Massachusetts Chan Medical School
Address: 366 Plantation Street
 Paul J. DiMare Center, Room # N2.1103
 Worcester, MA 01605
 United States of America
E-mail: Javier.Jaimes@umassmed.edu - javierjaimes@javierjaimes.com

Position: Visiting Professor
Affiliation: Department of Animal Health Sciences, School of Veterinary Medicine and Animal Science, Universidad Nacional de Colombia
Address: Ciudad Universitaria
 Edificio 561B
 Bogota D.C., 111321, Colombia
E-mail: jajaimeso@unal.edu.co

PROFESSIONAL AND RESEARCH EXPERIENCE

University of Massachusetts Chan Medical School 2025 – present
Department: Program in Molecular Medicine
Position: Assistant Professor
Supervisor: Jeremy Luban, M.D. & Roger Davis, Ph.D., F.R.S.

Universidad Nacional de Colombia 2025 – present
Department: Department of Animal Health Sciences, School of Veterinary Medicine and Animal Science
Position: Visiting Professor
Supervisor: Lucia Botero E., DVM, MS

University of Massachusetts Chan Medical School 2022 – 2025
Department: Program in Molecular Medicine
Position: Senior Research Scientist
Advisor: Jeremy Luban, M.D.

Cornell University 2019 – 2022
Department: Department of Microbiology and Immunology, College of Veterinary Medicine
Position: Postdoctoral Associate
Advisor: Gary R. Whittaker, Ph.D.

Cornell University 2014 – 2019
Department: Department of Microbiology, College of Agriculture and Life Sciences
Position: Graduate Research Assistant
Advisor: Gary R. Whittaker, Ph.D.

Universidad de La Salle, Bogota D.C., Colombia 2009 – 2018
Department: School of Agricultural Sciences
Position: Assistant Professor (2009-2014), Associate Professor (2014-2018 remote)
Appointment duties: 60% Teaching, 30% Research, 10% Service (Coordinator – Specialization Program in Animal Health)
Supervisor: Luis Carlos Villamil, D.V.M., M.S., Ph.D.

Universidad de La Salle, Bogota D.C., Colombia 2008
Department: Vice-Presidency of Research
Position: Adviser. Coordinator of BIOFARMA Program
Supervisor: Manuel Cancelado Jiménez, Ph.D.

Universidad Nacional de Colombia, Bogota D.C., Colombia 2006 – 2008
Department: School of Veterinary Medicine and Animal Sciences
Position: Teaching and research assistant
Advisor: Victor J. Vera, D.V.M., M.S., Ph.D.

Universidad El Bosque, Bogota D.C., Colombia 2005
Department: Institute of Molecular Biology
Position: Student intern
Advisor: Martha Fontanilla, Ph.D.

EDUCATION

<u>Doctor of Philosophy (Ph.D.) – Microbiology</u>	2019
Institution: Cornell University, Ithaca, NY, United States of America	
Dissertation: Feline coronavirus: mechanisms of entry into the host cell	
Thesis advisor: Gary R. Whittaker, Ph.D.	
<u>Master of Business Administration (M.B.A.) – Business Creativity and Innovation</u>	2013
Institution: Universidad de La Salle, Bogota D.C., Colombia	
Dissertation: Design of a model of innovation and strategic management, based on the experience of three veterinary vaccine producing companies in Colombia	
Thesis advisor: Robert T. Blanco, M.B.A.	
<u>Master of Science (M.S.) – Animal Health (Virology)</u>	2009
Institution: Universidad Nacional de Colombia, Bogota D.C., Colombia	
Dissertation: Use of molecular techniques for the identification and characterization of field and vaccine strains of infectious bursal disease virus	
Thesis advisor: Victor J. Vera, D.V.M., M.S., Ph.D.	
<u>Doctor of Veterinary Medicine (D.V.M.)</u>	2006
Institution: Universidad Nacional de Colombia, Bogota D.C., Colombia	
Dissertation: Evaluation of the pathogenic activity of an avian infectious bronchitis virus (IBV) field strain	
Thesis advisor: Victor J. Vera, D.V.M., M.S., Ph.D.	

DISTINCTIONS AND HONORS

Ambassador for Colombians Abroad Medal	Awarded by the Congress of the Republic of Colombia	2020
Distinguished Colombians Abroad	Awarded by Ministry of Foreign Relations, Republic of Colombia	2020

AWARDS AND FELLOWSHIPS

Cornell Rising Star	Program for Achieving Career Excellence, Cornell University	2022
Achievement Award for Excellence in Community Engagement	Office of Postdoctoral Studies, Cornell University	2021
Future Faculty Career Exploration Program	Rochester Institute of Technology	2019
Building Future Faculty Scholar	North Carolina State University	2019
NextGen Professors Program	Cornell University	2019
Liz Hanson Graduate Scholarship	College of Veterinary Medicine, Cornell University	2018
36 th ASV Annual Meeting travel award	American Society for Virology	2017
XIV International Nidovirus Symposium travel award	NIDO2017 Organizing Committee	2017
Fulbright Scholarship	The Fulbright Program – USA & Colombia	2014
Scholarship for Professors of the Universidad de La Salle	Universidad de La Salle	2009
Scholarship Program for Outstanding Graduate Students	Universidad Nacional de Colombia	2006

PROFESSIONAL ASSOCIATIONS

The Honors Society of Phi Zeta (Alpha chapter – Cornell University)	Full membership	2018-present
American Society for Virology	Full membership	2017-present
Asociación Colombiana de Virología	Full membership	2015-present
Honors Society	Full membership	2017-2018
The New York Academy of Sciences	Science Alliance Membership	2015-2023

FUNDED RESEARCH GRANTS

ID #: 76765

Title: Nanobiosensor for la detección rápida de SARS-CoV-2

Principal investigators: Jahir Orozco-Holguín (Universidad de Antioquia – Colombia)

Co-investigators: Carlos Muskus (Universidad de Antioquia – Colombia), Maria Cristina Navas (Universidad de Antioquia – Colombia),

Javier A. Jaimes (Cornell University – USA), Arben Merkoçi (Instituto Catalán De Nanociencia y Nanotecnología – Spain)

Funding source: Ministerio de Ciencia, Tecnología e Innovación – Minciencias, República de Colombia

Amount awarded: \$180,000 USD (\$719,962,820 COP)

Year and duration: 2020 (12 months)

ID #: 2020-34832

Title: Estudio de las alteraciones funcionales inducidas por la interacción de la proteína S (Spike) del SARS-CoV-2 con monocitos/macrófagos y células del epitelio respiratorio diferenciado

Principal investigators: Maria Cristina Navas (Universidad de Antioquia – Colombia)

Co-investigators: Silvio Urcuqui (Universidad de Antioquia – Colombia), Homero San Juan (Universidad del Norte – Colombia), Juan Carlos Hernández (Universidad Cooperativa de Colombia), **Javier A. Jaimes** (Cornell University – USA)

Funding source: Universidad de Antioquia – Colombia

Amount awarded: \$30,000 USD (\$119,933,842 COP)

Year and duration: 2020 (12 months)

ID #: 110154531688

Title: Intervention proposal for self-care and promotion of healthy habits for prevention and control of infectious diseases in children in Bogotá D.C. Colombia

Principal investigators: Virginia Soto Lesmes (Universidad Nacional de Colombia) & Arlen Gomez-Ramirez (Universidad de La Salle – Colombia)

Co-investigators: Olga Gómez Ramírez (Universidad Nacional de Colombia), Yaneth Parrado Lozano (Universidad Nacional de Colombia), **Javier A. Jaimes** (Universidad de La Salle – Colombia), Patricia Hernández Rodríguez (Universidad de La Salle – Colombia)

Funding source: Departamento Administrativo de Ciencia, Tecnología e Innovación COLCIENCIAS, República de Colombia

Amount awarded: \$330,000 USD (593,001,676 COP)

Year and duration: 2012 (36 months)

ID #: PRE00503030656

Title: Assessment of vaccination as a control strategy for viral diseases in poultry

Principal investigators: Arlen Gomez-Ramirez (Universidad de La Salle – Colombia) & **Javier A. Jaimes** (Universidad de La Salle – Colombia)

Co-investigators: Diego Soler-Tovar (Universidad de La Salle – Colombia), Efrain Benavidez Ortiz (Universidad de La Salle – Colombia), Jaime Ricardo Romero (Universidad de La Salle – Colombia) Luis Carlos Villamil (Universidad de La Salle – Colombia)

Funding source: Departamento Administrativo de Ciencia, Tecnología e Innovación COLCIENCIAS, República de Colombia

Amount granted: \$150,000 USD (\$298,631,767 COP)

Year and duration: 2011 (24 months)

ID #: CRP.BMB/CUB09-01

Title: Inhibition of Pathogen Transmission by Vaccination with Bm86 Antigen

Principal investigators: Alina Rodríguez-Mallon (Centro de Ingeniería Genética y Biotecnología – Cuba), Gervasio Bechara (Universidade Estadual Paulista – Brazil) & Efrain Benavidez Ortiz (Universidad de La Salle – Colombia)

Co-investigators: Arlen Gómez-Ramírez (Universidad de La Salle – Colombia), **Javier A. Jaimes** (Universidad de La Salle – Colombia), Rosangela Zacarias (Universidade Estadual Paulista – Brazil), Jose Luis Soto Rivas (Universidad de Ciencias Comerciales – Nicaragua)

Funding source: Fund ICGEB-TWAS-UNESCO Joint Programme on Capacity Building in Basic Molecular Biology

Amount granted: \$40,000 USD (€32,000 EUR)

Year and duration: 2010 (24 months)

NOT-FUNDED RESEARCH GRANTS AND FELLOWSHIPS

Title: Structure and function of Ebola virus glycoproteins from the 2013-2016 and 2018-2020 disease outbreaks

Principal investigator: **Javier A. Jaimes** (University of Massachusetts Chan Medical School – USA)

Grant program: Charles A. King Postdoctoral Research Fellowship Program

Funding source: Charles A. King Trust, Postdoctoral Research Fellowship Program

Amount sought: \$215,000 USD

Application year and expected duration: 2024 (24 months)

ID #: UNS139848

Title: Biological characterization of SARS-CoV-2 emerging variants in Colombia: from innate immune response to functional evaluation of the Spike, ORF6 and ORF8 proteins and severity of infection

Principal investigator: Maria Cristina Navas (Universidad de Antioquia – Colombia)

Co-investigators: Silvio Urcuqui (Universidad de Antioquia – Colombia), Homero San Juan (Universidad del Norte – Colombia), Jose Usme Ciro (Universidad Cooperativa de Colombia), Juan Pablo Hernández-Ortiz (OneHealth, Universidad Nacional de Colombia-University of Wisconsin – USA), **Javier A. Jaimes** (University of Massachusetts Chan Medical School – USA), Jeremy Luban (University of Massachusetts Chan Medical School – USA), Patricia Aguillar (University of Texas Medical Branch – USA)

Grant program: COVID-19: understanding the biological significance of SARS-CoV-2 variants

Funding source: Wellcome Trust

Amount sought: \$1,165,000 USD (£949.139 GBP)

Application year and expected duration: 2022 (36 months)

ID #: 696060102

Title: Characterization of non-infectious pseudoparticle systems expressing SARS-CoV-2 spike proteins for BSL-2 studies

Principal investigator: **Javier A. Jaimes** (Cornell University – USA)

Fellowship: IIE Centennial Fellowship program

Funding source: U.S. Department of State

Amount sought: \$25,000 USD

Application year and expected duration: 2020 (12 months)

ID #: PRE00501027617

Title: Evaluation of the infective potential to humans of the influenza virus from swine in Colombia

Principal investigator: Luis Carlos Villamil Jimenez (Universidad de La Salle – Colombia)

Co-investigators: Efrain Benavidez Ortiz (Universidad de La Salle – Colombia), Arlen Gómez-Ramírez (Universidad de La Salle – Colombia), Jaime Ricardo Romero Prada (Universidad de La Salle – Colombia), **Javier A. Jaimes** (Universidad de La Salle – Colombia), Diego Soler Tovar (Universidad de La Salle – Colombia)

Grant program: National Program in Health Sciences and Technology

Funding source: Departamento Administrativo de Ciencia, Tecnología e Innovación COLCIENCIAS, República de Colombia

Amount sought: \$224,000 USD (\$449,000,000 COP)

Application year and expected duration: 2010 (24 months)

ID #: PRE00501027696

Title: Approach to the role of domestic and wild reservoirs in human tuberculosis and mycobacteriosis and their relationship with diagnosis and treatment in populations at risk

Principal investigator: Diego Soler Tovar (Universidad de La Salle – Colombia)

Co-investigators: Luis Carlos Villamil Jimenez (Universidad de La Salle – Colombia), Efrain Benavidez Ortiz (Universidad de La Salle – Colombia), Arlen Gómez-Ramírez (Universidad de La Salle – Colombia), Jaime Ricardo Romero Prada (Universidad de La Salle – Colombia), **Javier A. Jaimes** (Universidad de La Salle – Colombia)

Grant program: National Program in Health Sciences and Technology

Funding source: Departamento Administrativo de Ciencia, Tecnología e Innovación COLCIENCIAS, República de Colombia

Amount sought: \$283,000 USD (561,000,000 COP)

Application year and expected duration: 2010 (24 months)

ID #: PRE00501023134

Title: Differential diagnosis of Rickettsiosis, Ehrlichiosis, Babesiosis and Borreliosis as part of the febrile syndrome and biodynamics of ticks and other ectoparasites incriminated in disease foci in Colombia

Principal investigator: Efrain Benavidez Ortiz (Universidad de La Salle – Colombia)

Co-investigators: Marcelo Bahia Labruna (Universidade de São Paulo – Brazil), Laura Tomassone (University of Turin – Italy), Pilar Calvo Robayo (Universidad de La Salle – Colombia), Natalia Margarita Cediel Becerra (Universidad Nacional de Colombia), Arlen Gómez-Ramírez (Universidad de La Salle – Colombia), Jaime Ricardo Romero Prada (Universidad de La Salle – Colombia), **Javier A. Jaimes** (Universidad de La Salle – Colombia), Diego Soler Tovar (Universidad de La Salle – Colombia)

Grant program: National Program in Health Sciences and Technology

Funding source: Departamento Administrativo de Ciencia, Tecnología e Innovación COLCIENCIAS, República de Colombia

Amount sought: \$285,000 USD (567,000,000 COP)

Application year and expected duration: 2010 (24 months)

PUBLISHED ARTICLES (≠ equals 100+ citations)

- Choi A, Stout AE, Rollins A, Wang K, Guo Q, **Jaimes JA**, Kennedy M, Wagner B, Whittaker, GR. SARS-CoV-2 Serosurvey of Healthy, Privately Owned Cats at a New York City Animal Hospital Early in the COVID-19 Pandemic (2020-2021). Available in *bioRxiv* DOI: [10.1101/2024.02.13.580068](https://doi.org/10.1101/2024.02.13.580068). Accepted in *IJID One Health*
- Youssef N, Gurev S, Ghantous F, Brock KP, **Jaimes JA**, Thadani NN, Dauphin A, Sherman AC, Yurkovetskiy L, Soto D, Estambouli R, Kotzen B, Notin P, Kollasch AW, Cohen AA, Dross SE, Erasmus J, Fuller DH, Bjorkman PJ, Lemieux JE, Luban J, Seaman MS, Marks DS. Computationally designed proteins mimic antibody immune evasion in viral evolution. *Immunity*. 2025 May 6;S1074-7613(25)00178-5. DOI: [10.1016/j.immuni.2025.04.015](https://doi.org/10.1016/j.immuni.2025.04.015)
- Carten J[#], Khelashvili G[#], Bidon M, Straus M, Tang T, **Jaimes JA**, Whittaker G*, Weinstein H*, Daniel S*. (2024). A mechanistic understanding of the modes of Ca²⁺ ion binding to the SARS-CoV-1 fusion peptide and their role in the dynamics of host membrane penetration. [#]Equal contribution. *Corresponding authors. *ACS Infect Dis*. 2024 Jan 25. DOI: [10.1021/acsinfecdis.3c00260](https://doi.org/10.1021/acsinfecdis.3c00260)
- Lubinski B[#], Frazier L[#], Phan MVT, Bugembe DL, Cunningham JL, Tang T, Daniel S, Cotten M, **Jaimes JA***, Whittaker GR*. (2022). Spike protein cleavage-activation mediated by the SARS-CoV-2 P681R mutation: a case-study from its first appearance in variant of interest (VOI) A.23.1 identified in Uganda. [#]Equal contribution *Corresponding authors. *Microbiol Spectr*. 2022 Jun 29:e0151422. DOI: [10.1128/spectrum.01514-22](https://doi.org/10.1128/spectrum.01514-22)
- Vasquez V, Navas MC, **Jaimes JA**, Orozco J. (2022). SARS-CoV-2 electrochemical immunosensor based on the spike-ACE2 complex. *Anal Chim Acta*. 2022 Mar 23;1205:339718. DOI: [10.1016/j.aca.2022.339718](https://doi.org/10.1016/j.aca.2022.339718)
- Kastenhuber ER, Mercadante M, Nilsson-Payant B, Johnson JL, **Jaimes JA**, Muecksch F, Weisblum Y, Bram Y, Whittaker GR, tenOever BR, Schwartz RE, Chandar V, Cantley L. (2022). Coagulation factors directly cleave SARS-CoV-2 spike and enhance viral entry. *eLife*. 2022 Mar 16;11:e77444. DOI: [10.7554/eLife.77444](https://doi.org/10.7554/eLife.77444)
- Lubinski B, Fernandes MHV, Frazier L, Tang T, Daniel S, Diel D, **Jaimes JA***, Whittaker GR*. (2022). Functional evaluation of the P681H mutation on the proteolytic activation the SARS-CoV-2 variant B.1.1.7 (Alpha) spike. *Corresponding authors. *iScience*. 2022 Jan 21;25(1):103589. DOI: [10.1016/j.isci.2021.103589](https://doi.org/10.1016/j.isci.2021.103589)[‡]
- Straus M, Tang T, Bidon M, **Jaimes JA**, Whittaker GR, Daniel S. (2021). Inhibitors of L-type calcium channels show therapeutic potential for treating SARS-CoV-2 infections by preventing virus entry and spread. *ACS Infect Dis*. 2021 Sep 9;acsinfecdis.1c00023. DOI: [10.1021/acsinfecdis.1c00023](https://doi.org/10.1021/acsinfecdis.1c00023)

9. Giraldo-Ramirez, S, Rendon-Marin S, **Jaimes JA**, Martinez-Gutierrez M, Ruiz-Saenz J. (2021). SARS-CoV-2 infection in domestic and wild cats: A systematic review. **Animals**. 2021 Jul 9;11(7), 2056. DOI: [10.3390/ani11072056](https://doi.org/10.3390/ani11072056)
10. Millet JK, **Jaimes JA**, Whittaker GR. (2020). Molecular diversity of coronavirus host cell entry receptors. (2021). **FEMS Microbiol Rev**. 2021 May 5;45(3):fuaa057. DOI: [10.1093/femsre/fuaa057](https://doi.org/10.1093/femsre/fuaa057)[‡]
11. Rendon-Marin S, Martinez-Gutierrez M, Whittaker GR, **Jaimes JA**^{*}, Ruiz-Saenz J^{*}. (2021). SARS CoV-2 Spike protein *in silico* interaction with ACE2 receptors from wild and domestic species. **Front Genet**. 2021 Feb 15;12:571707. DOI: [10.3389/fgene.2021.571707](https://doi.org/10.3389/fgene.2021.571707) ^{*}Corresponding authors
12. Tang T, **Jaimes JA**, Bidon M, Straus MR, Daniel S, Whittaker GR. (2021). Proteolytic activation of SARS-CoV-2 spike at the S1/S2 boundary: Potential role of proteases beyond furin. **ACS Infect Dis**. 2021 Feb 12;7(2):264-272. DOI: [10.1021/acsinfecdis.0c00701](https://doi.org/10.1021/acsinfecdis.0c00701)[‡]
13. Stout AE, André NM, **Jaimes JA**, Millet JK, Whittaker GR. (2020). Coronaviruses in cats and other companion animals: where does SARS-CoV-2/COVID-19 fit? **Vet Micro**. 2020 Aug;247:108777. DOI: [10.1016/j.vetmic.2020.108777](https://doi.org/10.1016/j.vetmic.2020.108777)[‡]
14. **Jaimes JA**, Millet JK, Whittaker GR. (2020). Proteolytic cleavage of the SARS-CoV-2 spike protein and the role of the novel S1/S2 site. **iScience**. 2020 May 28;23(6):101212. DOI: [10.1016/j.isci.2020.101212](https://doi.org/10.1016/j.isci.2020.101212)[‡]
15. Bonilla-Aldana DK, Ruiz-Saenz J, Martinez-Gutierrez M, Tiwari R, Dhama K, **Jaimes JA**, Rodriguez-Morales AJ. (2020). Concerns on the Emerging Research of SARS-CoV-2 on Felines: would be them significant hosts/reservoirs? **J Pure Appl Microbiol**. 2020;14(suppl 1):703-708. DOI: [10.22207/JPAM.14.SPL1.04](https://doi.org/10.22207/JPAM.14.SPL1.04)
16. **Jaimes JA**, André NM, Chappie JS, Millet JK, Whittaker GR. (2020). Phylogenetic analysis and structural modeling of SARS-CoV-2 spike protein reveals an evolutionary distinct and proteolytically-sensitive activation loop. **J Mol Bio**. 2020 May 1;432(10):3309-3325. DOI: [10.1016/j.jmb.2020.04.009](https://doi.org/10.1016/j.jmb.2020.04.009)[‡]
17. Tang T, Bidon M, **Jaimes JA**, Whittaker GR., Daniel S. (2020). Coronavirus membrane fusion mechanism offers as a potential target for antiviral development. **Antiviral Res**. 2020 Jun;178:104792. DOI: [10.1016/j.antiviral.2020.104792](https://doi.org/10.1016/j.antiviral.2020.104792)[‡]
18. **Jaimes JA**, Millet JK, Stout AE, André NM, Whittaker GR. (2020). A tale of two viruses: the distinct spike glycoproteins of feline coronaviruses. **Viruses**. 2020 Jan 10;12(1):83. pii: E83. DOI: [10.3390/v12010083](https://doi.org/10.3390/v12010083)[‡]
19. Millet JK, Tang T, Nathan L, **Jaimes JA**, Hsu H, Daniel S, and Whittaker GR. (2019). Generation of spike envelope protein pseudotyped particles based on the murine leukemia virus with luciferase reporter for studying cellular entry of highly pathogenic coronaviruses. **J Vis Exp**. 2019 Mar 1;(145):10.3791/59010. DOI: [10.3791/59010](https://doi.org/10.3791/59010)
20. **Jaimes JA**, Millet JK, Goldstein ME, Whittaker GR, Straus MR. (2019). A Fluorogenic Peptide Cleavage Assay to Screen for Proteolytic Activity: Applications for coronavirus spike protein activation. **J Vis Exp**. 2019 Jan 9;(143):e58892, DOI: [10.3791/58892](https://doi.org/10.3791/58892)
21. **Jaimes JA**, Whittaker GR. (2018). Feline coronavirus: Insights into viral pathogenesis based on the spike protein structure and function. **Virology**. 2018 Apr;517:108-121. DOI: [10.1016/j.virol.2017.12.027](https://doi.org/10.1016/j.virol.2017.12.027)[‡]
22. Santander Torres AF, Alvarez Espejo DC, **Jaimes-Olaya JA**, Gomez Ramírez AP, Villamil Jimenez LC. (2014). Design of recombinant vaccines for Gumboro, Newcastle and Avian Infectious Laryngotracheitis. **CES Medicina Veterinaria Y Zootecnia**. 9(2): 262-280 (Article in Spanish). [Full text](#)
23. Rodriguez-Mallon A, Bechara GH, Zacaria RM, Benavides-Ortiz E., Soto-Rivas JL, Gomez-Ramírez AP, **Jaimes-Olaya JA**, Estrada-Garcia MP. (2013). Inhibition of *Ehrlichia canis* and *Babesia canis* transmission among ticks fed together on dogs vaccinated with Bm86 antigen. **OJAS**. Vol. 3(3A):24-32. DOI: [10.4236/ojas.2013.33A004](https://doi.org/10.4236/ojas.2013.33A004)
24. Buritica EF, Echeverry DF, **Jaimes-Olaya JA**, Gomez AP. (2012). Integral antimicrobial control: a strategy against nosocomial infections in veterinary. **Rev Col Cien Anim**. (ISSN: 2027-1840). 5(1):107-112 (Article in Spanish). [Full text](#)
25. Alvarez Espejo DCM, **Jaimes-Olaya JA**, Jaime Correa J, Ramirez Nieto GC, Vera Alfonso VJ. (2012). Persistence of vaccine infectious bronchitis virus in a broiler farm in Colombia. **Revista Científica FCV-LUZ**. (ISSN: 0798-2259). XXII(2):120-127 (Article in Spanish). [Full text](#)
26. Soler-Tovar D, Romero-Prada JR, Villamil-Jimenez LC, Gomez-Ramirez AP, **Jaimes-Olaya JA**. (2010). Human-animal-ecosystem interface: Conceptual approach. **Una Salud Revista Sapuvet de Salud Pública**. (ISSN: 2027-8047). 1(2):13-25 (Article in Spanish). [Full text](#)
27. **Jaimes-Olaya JA**, Gómez AP, Alvarez DC, Soler D, Romero JR, Villamil LC. (2010). The infectious diseases and their importance in the poultry industry. **Rev Med Vet**. (ISSN: 0122-9354). 20:49-61 (Article in Spanish). [Full text](#)
28. Buritica Gaviria EF, Gomez AP, **Jaimes-Olaya JA**. (2009). Automated antibiogram Vitek2®: vanguard diagnosis tool for veterinarians. **Rev Investigación**. (ISSN: 1657-6772). 9(2):51-54. (Not peer reviewed) (Article in Spanish)
29. **Jaimes-Olaya JA**, Gomez AP. (2009). Probiotics: beneficial microorganisms for life. **Rev Investigación**. (ISSN: 1657-6772). 9(2):55-58. (Not peer reviewed) (Article in Spanish)
30. **Jaimes-Olaya JA**, Alvarez DC, Jaime J, Vera VJ. (2009). Key points in the presentation of the infectious bursal disease. **Rev Med Vet**. (ISSN: 0122-9354). 17:11-22 (Article in Spanish). [Full text](#)

MANUSCRIPTS IN PREPARATION, SUBMITTED OR UNDER REVIEW

1. Yurkovetskiy L[#], Egri S[#], Kurhade C[#], Diaz-Salinas MA[#], **Jaimes JA**[#], Nyalile T, Xie X, Choudhary MC, Dauphin A, Li JZ, Munro JB, Shi PY, Shen K, Luban J. S:D614G and S:H655Y are gateway mutations that act epistatically to promote SARS-CoV-2 variant fitness. [#]Equal contribution. Available in **bioRxiv** DOI: [10.1101/2023.03.30.535005](https://doi.org/10.1101/2023.03.30.535005). In preparation
2. **Jaimes JA**, Kim K, Soto D, Luban J. Development of inducible expression lentivirus vectors functional screening of libraries of viral glycoprotein mutations. In preparation

- Valencia A, Delgado K, Duque-Valencia J, Carrillo M, Pallarez LM, Lucena AI, Arboleda J, **Jaimes JA**, Whittaker GW, Ruiz-Saenz J. Molecular characterization of feline coronavirus in two cities in Colombia. Under review in **BMC Veterinary Research**
- Lubinski B, **Jaimes JA***, Whittaker GR*. Intrinsic furin-mediated cleavability of the spike S1/S2 site from SARS-CoV-2 variant B.1.529 (Omicron). *Corresponding authors. Available in **bioRxiv** DOI: [10.1101/2022.04.20.488969](https://doi.org/10.1101/2022.04.20.488969). In preparation
- Jaimes JA**, Goldstein ME, Whittaker GR. Endosomal protease cathepsin B is functional activator of feline peritonitis virus in cell culture. In preparation

EDITORIALS AND LETTERS TO THE EDITOR

- Stout A, André N, **Jaimes JA**, Licitra B, Whittaker GR. (2021). One Medicine: A comparative approach to investigating human and animal coronavirus infections. **J Feline Med Surg**. 2021 Apr;23(4):267-268. DOI: [10.1177/1098612X21998904](https://doi.org/10.1177/1098612X21998904)

BOOK CHAPTERS

- González Tobón J, **Jaimes JA**, Porras AM. (2025). Ciencia viral: comunicación de la pandemia en redes sociales en Colombia. In: **Ciencia viral: comunicación de la pandemia en redes sociales en Colombia**. Editor: Cucunubá ZM, Mosquera-Perea CM, Nicholls S. Editorial Pontificia Universidad Javeriana. (ISBN: 978-628-502-049-0). Bogota D.C., Colombia
- Benavides Ortiz E, Villamil Jimenez LC, Romero Prada JR, Gomez Ramirez A, **Jaimes-Olaya JA**, Alcaez Espejo D, Soler-Tovar D, Santander AF. (2018). Evaluación de los planes de vacunación contra enfermedades virales usados por avicultores del oriente de Cundinamarca: actitudes y percepciones. In: **Prácticas de investigación en torno al conocimiento**. Editor: Hno. Ariosto Ardila Silva, FSC & Gustavo Correa Assmus. Ediciones Unisalle. (ISBN: 978-958-5486-45-4). Bogota D.C., Colombia
- Jaimes-Olaya JA**, Triana Valenzuela JF. (2013). La formación empresarial e investigativa de los estudiantes de Medicina Veterinaria de la Universidad de La Salle. In: **Investigación y Problematicación: Ejercicios Didácticos en la Docencia Universitaria. Colección Docencia Universitaria Vol. 5**. Editor: Guillermo Londoño Orozco. Ediciones Unisalle. (ISBN: 978-958-8572-78-9). Bogota D.C., Colombia

KEYNOTE PRESENTATIONS

Semana de la Ciencia, Tecnología, Innovación y Emprendimiento – Universidad de Ciencias Aplicadas y Ambientales UDCA

Seminar title: Mecanismos de infección celular del SARS-CoV-2: evolución a través de las variantes emergentes

Place and date: Bogota D.C., Colombia, May 20th, 2022

Faculty Day 2020 – Faculty of Veterinary Science – University of Pretoria

Seminar title: Coronavirus: Unveiling the viral entry pathways into the host cell

Place and date: Online seminar, November 20th, 2020

PRESENTATIONS AS INVITED SPEAKER

XI Simposio Colombiano de Virología y V Congreso Latinoamericano de Virología

Seminar title: Mechanisms of activation of the SARS-CoV-2 spike protein of emerging variants

Organizer: Asociación Colombiana de Virología

Place and date: Online seminar. November 18th, 2021

3er Congreso Surcolombiano de Epidemiología

Seminar title: Tropism and mechanisms of cellular infection of SARS-CoV-2

Organizer: Universidad Surcolombiana and Instituto Nacional de Salud, Colombia

Place and date: Online seminar. February 12th, 2021

IV Congreso Colombiano de Virología Clínica – ACINVIR 2020

Seminar title: Unveiling the molecular mechanisms of infection of SARS-CoV-2

Organizer: Asociación Colombiana de Infectología (ACIN)

Place and date: Online seminar, November 7th, 2020

Simposio Latinoamericano de Avances de Investigación en SARS-CoV-2

Seminar title: Structural and molecular mechanisms of infection of SARS-CoV-2

Organizer: Asociación Colombiana de Virología and Cornell University

Place and date: Online seminar, September 23rd and 24th 2020

Caribe Microbial Meeting – CaMM 2020

Seminar title: Coronavirus in humans and animals: diversity, evolution and mechanisms of infection

Organizer: Universidad Libre and Universidad Tecnológica de Bolívar, Colombia

Place and date: Online seminar, October 30th, 2020

Seminario Internacional de Medicina Felina y Enfermedades Infecciosas en Pequeños Animales

Seminar title: Feline coronavirus: Molecular pathogenesis and current advances in diagnostics

Organizer: Asociación Colombiana de Cirugía Veterinaria Mínimamente Invasiva (ACCVMI)

Place and date: Bogotá D.C., Colombia. April 24th to 25th, 2019

Diplomado en Laboratorio Clínico y Diagnóstico Aviar

Seminar title: Modulo: Diagnóstico y clasificación molecular de virus aviares

Organizer: Asociación Academia Santandereana de Patología Aviar (ASPA), Colombia

Place and date: Bucaramanga, Colombia. March 1st to 2nd, 2013

OTHER SEMINARS AND TALKS

Seminar title: Mitos y verdades sobre el COVID-19 – Coach & Coffee with Fulbright Sessions

Sponsor: Comisión Fulbright Colombia

Place and date: Virtual panel. May 15th, 2020

Seminar title: Contextualizing the COVID-19: Evolution and biology of SARS-CoV-2

Sponsor: Asociación Colombiana de Infectología (ACIN)

Place and date: Online webinar. May 11th, 2020

Seminar title: Infected vs. Infectious: Interactions between SARS-CoV-2 and companion animals

Sponsor: Comunidad Andina (Andean Community)

Place and date: Online webinar. April 22nd, 2020

Seminar title: Contextualizing the COVID-19: Evolution, biology and epidemiology of SARS-CoV-2

Sponsor: Asociación Colombiana de Médicos Veterinarios y Zootecnistas Especialistas en Avicultura (AMEVEA)

Place and date: Online webinar. April 11th, 2020

PANELS AND FORUMS

2do Encuentro Diabetes y COVID-19

Panleists: Ammar Ibrahim (IDF-SACA), **Javier A. Jaimes** (Cornell University), Gabriel Lijteroff (IDF-SACA), Aracely Basurto (FUVIDA – Ecuador), Manuel Vera González (Instituto de Endocrinología – Cuba), Betsy Rodríguez (CDC)

Sponsor: International Diabetes Federation (IDF) – South America and Central America (SACA) region

Place and date: Virtual forum. January 21st, 2022

Foro Reflexiones COVID-19: Transmisión de coronavirus y animales

Panleists: Gloria C. Ramirez-Nieto (Universidad Nacional de Colombia), **Javier A. Jaimes** (Cornell University), Julian Ruiz-Saenz (Moderator – Universidad Cooperativa de Colombia)

Sponsor: Universidad Cooperativa de Colombia

Place and date: Virtual forum. June 11th, 2021

El papel de la Medicina Veterinaria y de la Zootecnia en las Pandemias

Panleists: Mario N. Benavides Fernández (Universidad San Buenaventura), **Javier A. Jaimes** (Cornell University), Alvaro Wills Franco (Universidad Nacional de Colombia), Natalia Polanco (Universidad de La Salle), Gina Polo Infante (Instituto Nacional de Salud – Colombia), Lucia Botero Espinoza (Moderator – Universidad Nacional de Colombia)

Sponsor: Facultad de Medicina Veterinaria y de Zootecnia, Universidad Nacional de Colombia

Place and date: Virtual panel. May 26th, 2021

Priorización de acceso a las vacunas para lograr la inmunidad de rebaño: Equilibrar la ética con las poblaciones en riesgo y el impulso para acelerar el lanzamiento de vacunas

Panleists: Natalia Acevedo (Universidad de Los Andes), Oscar Cingolani (Johns Hopkins University), Fabián F. Fay (Cibic Laboratorios), **Javier A. Jaimes** (Cornell University), Monica Levi (Sociedade Brasileira de Imunizações), Romina Libster (Fundacion Infant), Xavier Saez Llorens (Hospital del Niño Dr. José Renán Esquivel), Gustavo A. Olaiz (ENSAYO), Carlos M Perez (Universidad San Sebastian), Andrea Uboldi (Cámara de Diputados Santa Fe), Carlos Eduardo dos Santos Ferreira (Brazilian Society of Clinical Pathology)

Sponsor: Roche Diagnostics Advisory Community

Place and date: Virtual panel. April 6th, 2021

Fulbright Impact in the Field: Global Health & COVID Reunion Panel

Panleists: Serena Dasani (Brigham and Women's Hospital in Boston, MA), **Javier A. Jaimes** (Cornell University), Igor Stoma (Gomel State Medical University), Charlotte Summers (University of Cambridge), Benjamin tenOever (Mount Sinai Medical School), Imre Varju (Moderator – Semmelweis University)

Sponsor: The Fulbright Program, US

Place and date: Virtual panel. January 29th, 2021

Perspectivas de la Interfaz Virus-Huésped en Contextos Pandémicos. Bajo el Enfoque de Una Sola Salud

Panleists: Diego Soler-Tovar (Universidad de La Salle), Gerardo Nava (Universidad Autónoma de Queretano), **Javier A. Jaimes** (Cornell University), Alfonso J. Rodríguez-Morales (Universidad Tecnológica de Pereira), Gloria C. Ramirez-Nieto (Moderator – Universidad Nacional de Colombia)

Sponsor: Universidad Nacional de Colombia

Place and date: Bogotá D.C., Colombia. August 20th to 25th, 2020

La carrera científica contra la COVID-19 en América Latina

Panleists: Susana López Charretón (Universidad Nacional Autónoma de México), **Javier A. Jaimes** (Cornell University), Alexis Kalergis (Millennium Institute on Immunology and Immunotherapy, Pontificia Universidad Católica de Chile), Valeria Román (Moderator – Freelancer Scientific Journalist)

Sponsor: Casa de América, Spain

Place and date: Virtual panel. Jun 4th, 2020

Fulbright Impact in the Field: Global Health & COVID Panel

Panleists: Serena Dasani (Brigham and Women's Hospital in Boston, MA), **Javier A. Jaimes** (Cornell University), Igor Stoma (Gomel State Medical University), Charlotte Summers (University of Cambridge), Benjamin tenOever (Mount Sinai Medical School), Imre Varju (Simmelweis University), Vincent Pickett (Moderator – Fulbright Scholar Program)

Sponsor: The Fulbright Program, US

Place and date: Virtual panel. May 15th, 2020

ORAL PRESENTATIONS AT CONFERENCES (as presenter* or co-author)

43rd American Society for Virology Annual Meeting

1. **Jaimes JA***, Kim K, Soto D, Luban J. *Development of inducible expression lentivirus vectors for functional screening of libraries of viral glycoprotein mutations*

2. Choi A, Stout A, Rollins A, Wang K, Quo Q, **Jaimes JA**, Wagner B, Whittaker GR. *SARS-CoV-2 serosurvey of healthy, privately owned cats presenting to a New York City animal hospital in the early phase of the COVID-19 pandemic (2020-2021)*

3. Gurev S, Youssef N, Ghantous F, Brock K, **Jaimes JA**, Dauphin A, Yurkovetskiy L, Soto, D, Estanboulieh R, Kotzen B, Lemieux J, Luban J, Seaman M, Marks D. *Deep generative model forshadows SARS-CoV-2 evolution and facilitates early vaccine evaluation*

4. Luban J, **Jaimes JA**, Yurkovetskiy L, Egri S, Kurhade C, Diaz-Salinas MA, Shen A, Youssef N, Nyalile T, Xie X, Choudhary, Dauphin A, Soto D, Marks D, Li J, Munro J, Shi PY, Shen K. *S:D614G and S:H655Y are gateway mutations that act epistatically to permit SARS-CoV-2 variant fitness*

Place and date: Columbus, OH. United States of America. June 24th to 28th, 2024

36th American Society for Virology Annual Meeting

Jaimes-Olaya JA*, Goldstein ME, Millet JK, Whittaker GR. *Cell culture adaptation of feline infectious peritonitis virus strain black is controlled by protease activation of its spike protein*

Place and date: Madison, WI. United States of America. June 24th to 28th, 2017

XXIII Congreso Panamericano de Ciencias Veterinarias (PANVET)

1. Gómez AP, Santander AF, Alvarez DC, **Jaimes-Olaya, JA***. *Serological assessment of infectious bursal disease virus in layer farms in Fómeque (Cundinamarca), Colombia*

2. Alvarez DC, Santander AF, Gómez AP, **Jaimes-Olaya JA**, Soler-Tovar D, Benavides E, Romero J, Villamil LC. *Serological assessment of infectious bronchitis virus in layer farms in Fómeque (Cundinamarca), Colombia*

Place and date: Cartagena, Colombia. October 24th to 27th, 2012

IV Simposio Nacional de Virología

Alvarez DC, **Jaimes-Olaya JA**, Jaime J, Vera VJ. *Prospective assessment of infectious bronchitis virus in a broiler farm in Cundinamarca, Colombia*

Place and date: Medellín, Colombia. November 17th to 19th, 2011

III Congreso Latinoamericano de Enfermedades Rickettsiales y 1er Encuentro Nacional de Enfermedades Hemorrágicas

Ruiz A., **Jaimes-Olaya JA**, Gomez AP. *Clinical characterization of dogs suspected of hemaparasitic disease in Ibagué – Case report*

Place and date: Bogotá D.C., Colombia. July 6th to 8th, 2011

Simposio Nacional en Enfermedades Asociadas al Cuidado de la Salud

Buriticá Gaviria EF, Gómez AP, **Jaimes-Olaya JA**. *Prevalence of potential nosocomial agents and identification of their antimicrobial resistance profile in veterinary operating rooms Ibagué: Research progress*

Place and date: Bogotá D.C., Colombia. October 23th to 24th, 2009

X Encuentro Nacional y III Internacional de Investigadores de las Ciencias Pecuarias ENICIP

1. **Jaimes-Olaya JA***, Alvarez Espejo DC, Jaime Correa J, Vera Alfonso VJ. *Molecular characterization of three field strains of infectious bursal disease virus*

2. Alvarez Espejo DC, **Jaimes-Olaya JA**, Jaime Correa J, Vera Alfonso VJ. *Serological dynamics of infectious bronchitis virus in a broiler farm in Cundinamarca*

3. Alvarez Espejo DC, **Jaimes-Olaya JA**, Jaime Correa J, Vera Alfonso VJ. *Identification of vaccine virus type of infectious bronchitis virus in a broiler farm in Cundinamarca*

4. Peña Rivera D, Bernal Bechara L, **Jaimes-Olaya JA**, Gómez AP. *Effect of the use of prebiotic and probiotic strains on performance of broiler coming from hem breeders over 52 weeks*

5. Peña Rivera D, Bernal Bechara L, **Jaimes-Olaya JA**, Gómez AP. *Effect of the use of prebiotic and probiotic strains on microbiological and morphological parameters of broiler coming from hem breeders over 52 weeks*

Place and date: Medellín, Colombia. October 21th to 23th, 2009

IX Encuentro Nacional y II Internacional de Investigadores de las Ciencias Pecuarias ENICIP

Jaimes Olaya JA*, Vera VJ, Mossos NA. *Clinical, serological and molecular evaluation of the coinfection with Newcastle disease virus and with infectious bronchitis virus*

Place and date: Medellín, Colombia. November 1st to 3rd, 2007

POSTER PRESENTATIONS AT CONFERENCES (as presenter* or co-author)

43rd American Society for Virology Annual Meeting

1. Kotzen B, Laing R, Youssef N, Ghantous F, Gurev S, Brock K, **Jaimes JA**, Dauphin A, Yurkovetskiy L, Soto, D, Estanboulieh R, Luban J, Seaman M, Marks D, Lemieux J. *Retrospective analysis of growth rates of SARS-CoV-2 lineages show distinct strategies for growth*

2. Lubinski B, **Jaimes JA**, Whittaker GR. *The Histidine to Arginine Pattern: Examining the S1/S2 mutations of SARS-CoV-2 Spike*

Place and date: Columbus, OH. United States of America. June 24th to 28th, 2024

XVI International Nidovirus Symposium

Yurkovetskiy L, Egri S, Kurhade C, Diaz-Salinas MA, **Jaimes JA***, Nyalile T, Xie X, Choudhary MC, Dauphin A, Li JZ, Munro JB, Shi PY, Shen K, Luban J. *S:D614G and S:H655Y are gateway mutations that act epistatically to promote SARS-CoV-2 variant fitness*

Place and date: Montreux, Switzerland. May 14th to 18th, 2023

41st American Society for Virology Annual Meeting

1. **Jaimes JA***, Lubinski B, Daniel S, Diel DG, Whittaker GR. *Mutations at the SARS-CoV-2 spike protein S1/S2 boundary in emerging variants result in altered viral entry mechanisms*

2. Lubinski B, Frazier LE, Phan MVT, Bugembe DL, Cunningham JL, Tang T, Daniel S, Cotten M, **Jaimes JA**, Whittaker GR. *Spike protein cleavage-activation in the context of the SARS-CoV-2 P681R mutation: an analysis from its first appearance in lineage A.23.1 identified in Uganda*

3. di Filippo D, Lopez-Osorio MC, Montoya-Guzman M, Urcuqui-Inchima S, **Jaimes JA**, Navas MC. *SARS-CoV-2 spike protein interaction with macrophages in presence of vitamin D*

Place and date: Madison, WI. United States of America. July 16th to 20th, 2022

XV International Nidovirus Symposium

Straus MR, Bidon MK, Tang T, **Jaimes JA***, Whittaker GR, Daniel S. *Inhibitors of L-type calcium channels show therapeutic potential for treating SARS-CoV-2 infections by preventing virus entry and spread*

Place and date: Virtual. June 7th & 8th, 2021

The 10th Annual Harry M. Zweig Memorial Fund for Equine Research – Faculty Presentations and Poster Session

André NM, Pambianchi H, **Jaimes JA**, Goodrich E, Whittaker GR. *Equine Coronavirus – An Emerging Pathogen of Horses*

Place and date: Ithaca, NY. United States of America. November 14th, 2018

Cornell Institute of Host-Microbe Interactions and Disease (CIHMID) Summer Symposium

Pambianchi H, André NM., **Jaimes J**, Goodrich E, Whittaker GR. *Equine Coronavirus: An Emerging Disease in Horses*

Place and date: Ithaca, NY. United States of America. July 26th, 2018

37th American Society for Virology Annual Meeting

Jaimes JA*, Whittaker GR. *Feline coronavirus spike protein fusion function is suggested to behave in a calcium dependent manner*

Place and date: College Park, MD. United States of America. July 14th to 18th, 2018

XIV International Nidovirus Symposium

Jaimes-Olaya JA*, Goldstein ME, Millet JK, Whittaker GR. *Feline coronavirus spike protein activation by cathepsin-B is key for viral entry in cell culture*

Place and date: Kansas City, MO. United States of America. June 4th to 9th, 2017

13th Annual Retreat of Center for Infection and Pathobiology

Jaimes-Olaya JA*, Goldstein ME, Millet JK, Whittaker GR. *Exploring the role of the endosomal protease cathepsin-B in feline coronavirus spike protein activation in cell culture*

Place and date: Cortland, NY. United States of America. April 28th to 29th, 2017

14th Annual Ecology and Evolution of Infectious Disease Meeting

André NM, **Jaimes-Olaya JA**, Wingate WO, Millet JK, Whittaker, GR. *Evolution and emergence of lethal coronaviruses*

Place and date: Ithaca, NY. United States of America. June 3rd to 5th, 2016

International Jena Symposium of Tick-borne Diseases

Rodríguez-Mallon A, Bechara GH, Zacarias Machado R, Benavides Ortiz E, Soto Rivas JL, Gómez Ramírez AP, **Jaimes-Olaya JA**, Estrada MP. *Inhibition of *Ehrlichia canis* and *Babesia canis* transmission among co-feeding ticks on in dogs vaccinated with Bm86 antigen*

Place and date: Weimar, Germany. March 21th to 23th, 2013

2do Simposio de Experiencias Docentes de la Universidad de La Salle

Jaimes-Olaya JA*, Triana Valenzuela JF. *Business and research training for veterinary medicine students at Universidad de La Salle*
Place and date: Bogota D.C., Colombia. July 12th to 13th, 2012

1st Regional Society for Tropical Veterinary Medicine (STVM) Conference

Rodríguez-Mallon A, Zacarias RM, Benavides Ortiz E, Gómez Ramírez AP, **Jaimes-Olaya JA**, Soto Rivas JL, Sampaio PH, Evora PM, Bechara GH. *Inhibition of Erlichia canis and Babesia canis transmission in dogs vaccinated with Bm86 antigen (GAVAC™)*
Place and date: Phuket, Thailand. June 18th to 21st, 2012

III Simposio Nacional de Virología

Jaimes-Olaya JA*, Vera VJ. *Relative and absolute quantification of infectious bursal disease virus by real-time RT – PCR in vaccinated birds*

Place and date: Santiago de Cali, Colombia. October 2nd to 3rd, 2008

ACADEMIC AND SCIENTIFIC SERVICE

REVIEW BOARD MEMBER:

- Microorganisms (ISSN: 2076-2607) – Aug 2020 – Currently

PEER REVIEWER:

- Communications Biology (ISSN: 2399-3642) – Apr 2025
- Microbial Pathogenesis (ISSN: 1096-1208) – Dec 2024, May 2025
- PLOS One (ISSN: 1932-6203) – Aug 2023, Jun 2024, Jul 2024
- Biomedicine & Pharmacology (ISSN: 0753-3322) – Oct 2023
- Veterinary Record (ISSN: 0042-4900) – May 2023
- ACS Omega (ISSN: 2470-1343) – Mar 2022
- Vaccines (ISSN: 2076-393X) – Mar 2022
- Journal of Virology (ISSN: 1098-5514) – Jan 2022
- Microbiology Spectrum (ISSN: 2165-0497) – Aug 2021, Nov 2022
- BMC Molecular Cell Biology (ISSN: 2661-8850) – Apr 2021
- Microorganisms (ISSN: 2076-2607) – Mar 2021, Apr 2025
- iScience (ISSN: 2589-0042) – Nov 2020
- Travel Medicine and Infectious Disease (ISSN: 1477-8939) – Aug 2020, Dec 2021
- Frontiers in Medicine (ISSN: 2296-858X) – Aug 2020
- Viruses (ISSN: 1999-4915) – Jul 2020, Sep 2020, Apr 2021, Nov 2022, Apr 2025
- Heliyon (ISSN: 2405-8440) – Jun 2020, Nov 2021, Apr 2022
- Scientific Reports (ISSN: 2045-2322) – Jun 2020, Sep 2020, Jan 2021, Mar 2021, Apr 2021, Aug 2021, Apr 2022, Nov 2022
- Pathogens (ISSN: 2076-0817) – Jun 2020, Apr 2023
- Infection, Genetics and Evolution (ISSN: 1567-7257) – Jun 2020, Jan 2021
- Nature Communications (ISSN: 2041-1723) – May 2020
- Virology (ISSN: 0042- 6822) – May 2020. Sep 2023, Oct 2023
- International Journal of Environmental Research and Public Health (ISSN: 1660- 4601) – Mar 2020, Jul 2020
- Preventive Veterinary Medicine (ISSN: 0167-5877) – Sep 2019
- Poultry Science (ISSN: 0032-5791) – Nov 2015
- Revista MVZ Córdoba (ISSN: 0122-0268) – Jun 2011, Jun 2020

GRANT REVIEWER:

Institution: Ministerio de Ciencia, Tecnología e Innovación, República de Colombia

Date: September 2020, November 2021

Institution: Universidad Nacional de Colombia

Date: July 2020

Institution: Departamento Administrativo de Ciencia, Tecnología e Innovación de Colombia – COLCIENCIAS

Date: December 2010, March 2011, March 2012

Institution: Ministerio de Agricultura y Desarrollo Rural, República de Colombia

Date: April 2008

MENTORING

Ph.D. DISSERTATION AND THESIS COMMITTEE:

Mentee: Claudia Valderrama, D.V.M., M.S.

Academic program: Doctor of Science – Animal Health

Co-advisor: Arlen Patricia Gomez Ramirez, D.V.M., D.Sc.

Institution: Universidad Nacional de Colombia (Colombia), 2025-present

Mentee: Diana Carolina Di Filippo Villa, M.S.
Academic program: Doctor of Science – Microbiology
Advisor: Maria Cristina Navas, Ph.D.
Institution: Universidad de Antioquia (Colombia), 2023-present

M.S. AND CLINICAL SPECIALIZATION THESIS ADVISORY:

Mentee: Alida Carolina Valencia Gafaro, D.V.M., M.S.
Thesis: Caracterización evolutiva y molecular del Coronavirus felino en el Valle de Aburrá
Degree conferred: Master of Science – Microbiology
Co-Advisor: Julian Ruiz-Saenz, D.V.M., M.S., Ph.D.
Institution: Universidad de Antioquia (Colombia), 2021

Mentee: Andrés Felipe Santander Torres, D.V.M., M.S.
Thesis: Evaluation of the activity of avian viral diseases in layer farms in Fômeque, Cundinamarca
Degree conferred: Master of Veterinary Sciences
Institution: Universidad de La Salle (Colombia), 2015

Mentee: Diego Noé Rodríguez Sánchez, D.V.M.
Thesis: Feline infectious peritonitis virus: Co-relation between clinical signs and diagnosis
Degree conferred: Specialist in Small Animal Internal Medicine
Institution: Universidad de La Salle (Colombia), 2011

Mentee: Edwin Fernando Buriticá Gaviria, D.V.M., M.S.
Thesis: Prevalence of potential nosocomial agents and identification of their antimicrobial resistance profile in veterinary operating rooms of Ibagué, Colombia
Degree conferred: Master of Veterinary Sciences
Institution: Universidad de La Salle (Colombia), 2010

D.V.M. THESIS ADVISORY:

Mentee: Mariangela Niño Cardozo, D.V.M.
Thesis: SPF Colombia S.A.S. (business plan)
Degree conferred: Doctor of Veterinary Medicine
Institution: Universidad de La Salle (Colombia), 2012

Mentees: Andrés Felipe Santander Torres, D.V.M. & Camila Irene Reina Parada, D.V.M.
Thesis: Detection of the exposition to equine herpesvirus type 1 y 4 in Tabio, Cundinamarca
Degree conferred: Doctor of Veterinary Medicine
Institution: Universidad de La Salle (Colombia), 2012

Mentees: Jenny Alexandra Castillo Pineda, D.V.M. & Víctor Valencia Castaño, D.V.M.
Thesis: Identification of porcine respiratory and reproductive syndrome (PRRS) by RT – PCR
Degree conferred: Doctor of Veterinary Medicine
Institution: Universidad de La Salle (Colombia), 2012

THESIS EVALUATION:

Student: Valerin Alison Aguirre Franco
Thesis: Identificación de genes de *Herbaspirillum seropedicae* smr1 involucrados en el proceso de colonización de alfalfa (*Medicago sativa*)
Degree conferred: Bachelor in biology
Advisor: Daniel Fernando Rojas Tapias, Ph.D.
Institution: Universidad El Bosque (Colombia), 2023

Student: Sebastian Giraldo Ramirez, M.S.
Thesis: Diversidad filoevolutiva y molecular de las variantes antigénicas cpv-2a y cpv-2b circulantes en Colombia
Degree conferred: Master of Science – Microbiology
Advisor: Julian Ruiz-Saenz, D.V.M., M.S., Ph.D.
Institution: Universidad de Antioquia (Colombia), 2020

Student: Karen Yurany Delgado Villamizar, M.S.
Thesis: Seroprevalencia y evaluación molecular de coronavirus felino en Bucaramanga
Degree conferred: Master of Science – Animal Health and Production
Advisor: Julian Ruiz-Saenz, D.V.M., M.S., Ph.D.
Institution: Universidad Cooperativa de Colombia, 2018

Student: Monica Maria Baquero Parra, D.V.M., M.S.

Thesis: Expresión de los genes *omp11* y *lip132* en cepas patógenas de *Leptospira* spp. en diferentes fases del crecimiento

Degree conferred: Master of Veterinary Sciences

Advisor: Arlen Gomez-Ramirez, D.V.M., Ph.D.

Institution: Universidad de La Salle (Colombia), 2010

TEACHING ACTIVITIES

Institution	Program	Course Name	Role	Date
Universidad Nacional de Colombia (Colombia)	Veterinary Medicine	Virology	Co-lead visiting lecturer	2025-present
Fundación Universidad Agraria de Colombia (Colombia)	Graduate program in Veterinary Public Health	Emerging viral diseases	Lecturer	2020-present
		Zoonotic viral diseases	Lecturer	2020-present
		Viruses and bioterrorism	Lecturer	2024-present
Cornell University (USA)	Veterinary Medicine	Host, agent, and defense (Foundation course IV)	Lead tutor	2021
	Hotel Administration & Hospitality	Introduction to wines	Teaching Assistant	2017-2018
	Veterinary Medicine	Host, agent, and defense (Foundation course IV)	Teaching Assistant	2016
Universidad de Antioquia (Colombia)	Ph.D. in Microbiology	Advanced virology II	Invited lecturer	2020-present
Universidad El Bosque (Colombia)	Ph.D. in Biomedical Sciences	Research seminar	Invited tutor	2020-2022
Universidad de La Salle (Colombia)	Veterinary Medicine	Virology and prions	Lead lecturer	2008-2014
		Research foundations	Lead lecturer	2011-2014
		Avian diseases (Minor)	Lecturer	2010-2014
	Master in Veterinary Sciences	Emerging diseases	Lecturer	2013-2014
		Molecular diagnostics	Lecturer	2010-2014
		Research seminar	Lead tutor	2011-2014
Universidad Nacional de Colombia (Colombia)	Veterinary Medicine	Virology	Teaching Assistant	2006-2008

COMMUNITY ENGAGEMENT

Spotlight and interviews:

Date	Media	Source	Country	Topic/Title
4/20/2020	Internet	LATAM TECH News	USA	2020 Latin America Health Tech Leaders
4/07/2020	Internet	Cornell Chronicle	USA	Researchers seek universal treatments to impede coronavirus
4/03/2020	TV News	NBC NEWS Miami	USA	Up Close with One of the World's Top COVID-19 Researchers
3/30/2020	Print/Internet News	Publimetro	Colombia	Entrevista: Javier Jaimes el virólogo colombiano que está trabajando por la cura del COVID-19
3/26/2020	TV News	Sala de Prensa Caracol	Colombia	Científico colombiano busca descubrir por qué el COVID-19 se propaga tan rápido
3/25/2020	Internet News	BBC News	UK	Coronavirus: 3 científicos latinoamericanos que están a la vanguardia de la lucha contra COVID-19 (y los retos que enfrentan)
3/15/2020	Internet Magazine	Forbes	USA	What's It Like To Study A Coronavirus? This Colombian Knows
3/9/2020	Internet	Cornell University Graduate School	USA	Alumnus/Postdoc Spotlight: Javier Jaimes, Ph.D

News media quotes and interviews:

Date	Media	Network/Magazine	Country	Topic/Title
3/8/2024	TV News	NTN24	USA	Uso potencial de las vacunas de mRNA
7/31/2023	TV News	Telemundo	USA	Aumento de casos de COVID-19, ¿a qué se debe?
3/13/2023	TV News	NTN24	USA	Lecciones aprendidas luego de 3 años desde la aparición de la COVID-19

9/20/2022	Internet News	Deutsche Welle	Germany/Global	La pandemia del coronavirus terminará, pero el virus no dejará de existir
8/5/2022	TV News	Telemundo	USA	Flu and COVID-19 vaccination
7/25/2022	TV News	Telemundo	USA	Viruela del mono – Características de la enfermedad
6/23/2022	TV News	NTN24	USA	COVID-19: Vacunación en menores de 6 meses a 5 años
6/16/2022	Radio News	El Universo	Ecuador	Vacunación contra COVID-19: ¿Necesitamos una cuarta dosis?
5/30/2022	Radio News	WQ Radio	Ecuador	Viruela del mono: ¿qué se sabe del brote que tiene preocupado al mundo?
4/22/2022	TV News	Noticias Caracol TV	Colombia	¿Qué tan viable es el confinamiento para disminuir la infección con COVID-19 en 2022?
2/8/2022	TV News	Telemundo	USA	Changes in face mask mandates in 4 U.S. states
12/29/2021	Radio News	La FM	Colombia	Riesgos de la circulación de las variantes Ómicron y Delta
12/18/2021	TV News	La Nación + Salud	Argentina	Novedades de la nueva variante Ómicron del SARS-CoV-2
12/9/2021	Internet News	El Espectador	Colombia	Ómicron: experto de la Universidad de Cornell responde todas sus preguntas
12/4/2021	Print/Internet News	El País	Spain	Ómicron: así es el “Frankenstein” del coronavirus que atemoriza al planeta
10/25/2021	Internet Magazine	Newsweek	USA	What We Know About the 'Delta Plus' AY.4.2 COVID Mutations Y145H and A222V
7/31/2021	TV News	Noticias Caracol TV	Colombia	La variante delta arrecia, obligando a las autoridades a endurecer las restricciones sanitarias.
7/30/2021	TV News	Noticias NTN24	USA	“Las vacunas existentes funcionan muy bien contra las variantes del COVID-19”
7/27/2021	TV News	De qué se habla a las 7 – RTVC Noticias	Colombia	Estado del COVID-19 en el mundo
7/26/2021	TV News	Sala de Prensa – Noticias Caracol	Colombia	“Era esperable”: médico virólogo ante primer caso confirmado de la variante delta en Colombia
7/2/2021	TV News	La Noche – NTN24	USA	¿Cuáles son las características de la variante Delta del COVID-19 que tiene preocupada a la comunidad médica en el mundo?
6/24/2021	TV News	Red+ Noticias	Colombia	¿Cuáles son las características de la variante Delta del coronavirus?
6/23/21	TV News	Noticias Caracol TV	Colombia	Variante Delta del COVID-19, ¿Un peligro para América Latina?
3/11/2021	Print/Internet Magazine	Revista Semana	Colombia	Tras un año de pandemia, la vacuna anticoronavirus es uno de los mayores logros de la humanidad
2/26/2021	TV News	Meganoticias	Mexico	Entrevista a Javier A. Jaimes
1/14/2021	TV News	Telefuturo	Paraguay	¿Qué se sabe de las nuevas variantes de la COVID-19? Hablamos al respecto con un profesional
1/11/2021	Internet News	Nanduti	Paraguay	“Yo veo realmente muy difícil que volvamos a la normalidad en el 2021”, advierte virólogo de la Universidad Cornell
12/21/2020	TV News	NPY	Paraguay	Vacuna contra coronavirus debería prevenir mutación
11/28/2020	TV News	Noticias Caracol TV	Colombia	Vacuna contra el coronavirus: ¿podría terminar convirtiéndose en la vacuna de la inequidad social?
11/22/2020	Radio News	Blu Radio	Colombia	Vacunas en proceso de ensayos clínicos han demostrado resultados muy prometedores: experto
12/14/2020	Internet News	Nanduti	Paraguay	Vacuna contra el Coronavirus: Doctor explica los detalles a tener en cuenta
11/10/2020	TV News	Sala de Prensa – Noticias Caracol	Colombia	¿Qué ha pasado con las vacunas rusas contra el COVID-19?
9/27/2020	TV News	Telecaribe	Colombia	Ley del Montes con Javier Jaimes, científico líder en la investigación de la vacuna contra la COVID

9/18/2020	Print/Internet Magazine	Revista Semana	Colombia	¿Qué investigan las nuevas generaciones de científicos colombianos?
8/13/2020	TV News	Telemundo	USA	Voluntaria Latina Prueba la Vacuna Experimental del COVID-19
8/17/2020	TV News	NBC NEWS Miami	USA	COVID-19 Researcher Speaks On How Our Understanding of the Virus Has Evolved
8/2/2020	Print/Internet News	El País	Colombia	"COVID-19 seguirá en el mundo, aunque llegue la vacuna": científico Javier Jaimes
7/17/2020	TV News	Telemundo	USA	Un virólogo habla del nuevo informe que asegura COVID-19 se está debilitando
7/15/2020	Radio News	La FM	Colombia	Vacuna contra coronavirus de Moderna no es la más adelantada: virólogo
7/8/2020	TV News	Noticias Caracol TV	Colombia	¿Puede el COVID-19 transmitirse por el aire? Esto responden otros expertos a la OMS
6/25/2020	TV News	Noticias Caracol TV	Colombia	Así va la incansable búsqueda de una vacuna contra COVID-19, la enfermedad que paralizó al mundo
6/21/2020	Radio News	Blu Radio	Colombia	Característica nueva hace que virus sea diferente al de 6 meses atrás: investigador colombiano
6/2/2020	Print/Internet News	Publimetro	Colombia	Entrevistas Publimetro: Dr. Javier Jaimes
5/19/2020	Print/Internet News	El País	Spain	ccu cgg cgg gca The 12 letters that changed the world
5/16/2020	Radio	Caracol Radio	Colombia	Qué dicen las nuevas investigaciones sobre el COVID 19 y las mascotas
5/3/2020	Print/Internet News	El Universal	Mexico	"Están permitiendo que el virus se disemine", experto Javier Jaimes
4/29/2020	TV News	La Ventana VIP	Colombia	Conferencia con el Doctor Javier Jaimes veterinario Virólogo en su intervención en la investigación del COVID-19 en la U de Cornell
4/27/2020	Print/Internet News	El Tiempo	Colombia	El tratamiento estará antes que la vacuna del COVID-19
4/26/2020	Print/Internet News	El País	Spain	El minuto cero de un "mal bicho" que cambió nuestras vidas
4/24/2020	Print News	El Mercurio	Chile	Es improbable que este virus introduzca grandes mutaciones que impidan combatirlo
4/23/2020	Print/Internet News	El Nuevo Siglo	Colombia	Colombiano conforma equipo científico que lucha contra el COVID
4/21/2020	TV News	Noticias NTN24	USA	Javier Jaimes: "tratamos de mirar si algunos medicamentos tienen potencial contra el coronavirus"
4/16/2020	Print/Internet News	El Espectador	Colombia	La estabilidad genética del COVID-19 posibilita una vacuna más eficiente
4/13/2020	Print/Internet News	El Espectador	Colombia	Un virólogo explica por qué no debería inquietarse por la mutación del coronavirus
4/12/2020	Internet News	Medical News Today	USA	COVID-19 treatment: New findings may bring researchers a step closer
4/04/2020	TV News	Noticias Caracol TV	Colombia	Científicos confirman que animales no transmiten COVID-19 y explican caso registrado en Bélgica
4/1/2020	Print/Internet Magazine	The Scientist	USA	Some Coronavirus Researchers are Running Low on Masks
3/31/2020	Print/Internet News	Publimetro	Colombia	Experto en coronavirus confía que se encontrarán tratamiento terapéutico
3/30/2020	TV News	Noticias Caracol TV	Colombia	Doctor en microbiología explica que COVID-19 no fue creado en laboratorio
3/30/2020	Radio News	La FM	Colombia	Hasta 24 meses pueden durar las pruebas de vacunas contra el coronavirus: experto
3/30/2020	TV News	Telemundo	USA	Coronavirus: Experto revela si las mascotas pueden contagiarse del virus
3/29/2020	Print/Internet Magazine	Revista Semana	Colombia	Científicos descubren la primera secuencia genética del COVID-19 en Colombia

3/29/2020	TV News	France 24	France/ Colombia	Javier Jaimes: “Estudiamos un componente especial del virus para saber por qué es tan contagioso”
3/29/2020	TV News	Noticias Caracol TV	Colombia	Medico explica que COVID-19 no fue creado en laboratorio, como aseguran conspiraciones
3/29/2020	TV News	Noticias Caracol TV	Colombia	“No existe ningún tipo de conspiración”: médico explica que COVID-19 no fue creado en laboratorio
3/27/2020	TV News	Univision	USA	El coronavirus proviene de reservorios silvestres”: experto aclara origen de la pandemia
3/26/2020	Radio News	La FM	Colombia	¿Por qué toma tanto tiempo desarrollar una vacuna del coronavirus?
3/21/2020	TV News	Red+ Noticias	Colombia	La estrategia para cortar la cadena de contagios es aislarnos”: Javier Jaimes
3/20/2020	Internet News	Periódico Red Prensa Verde	Colombia	Un virólogo colombiano quiere desenmascarar al COVID-19
3/20/2020	TV News	Noticias Caracol	Colombia	Mascotas no son riesgo para transmitir el coronavirus, no las abandone
3/17/2020	Radio News	W radio	Colombia	Los resultados de las pruebas de la vacuna del coronavirus podrían demorar hasta 18 meses
3/11/2020	Radio News	W radio	Colombia	Pandemia: ¿Hay razones para preocuparse por el Coronavirus?
3/9/2020	Radio News	Blu Radio	Colombia	Vacuna contra el coronavirus tardaría de 18 meses a 2 años: investigador colombiano
3/7/2020	Print/Internet Magazine	Revista Semana	Colombia	El paciente cero del coronavirus en Colombia

Social media collaborations:

Date	Network	Channel	Country	Topic/Title
7/24/2021	Internet	Campus Party	Colombia	Conversatorio – Vacunas: Mitos y verdades
3/24/2021	Facebook/ YouTube	Ciencia Café pa’ sumercé	Colombia	Evolución de los virus y su impacto en la sociedad
1/28/2021	Instagram	@anaerobias – Dra. Ana Porras	Colombia	Conozcamos las Vacunas contra el COVID-19: ¿Cómo sabemos que son seguras?
1/21/2021	Instagram	@anaerobias – Dra. Ana Porras	Colombia	Conozcamos las Vacunas contra el COVID-19: ¿Cómo generan inmunidad?
1/14/2021	Instagram	@anaerobias – Dra. Ana Porras	Colombia	Conozcamos las Vacunas contra el COVID-19: ¿De qué están hechas?
11/19/2020	Internet	Ruta de La Ciencia – Minciencias	Colombia	Cuando la ciencia se vuelve viral
5/1/2020	Facebook	Javier A. Jaimes y Julian Ruiz Saenz	Colombia	COVID-19: Sesión de preguntas y respuestas
4/11/2020	YouTube	Sistema de Información Protección Animal Bogotá	Colombia	Animales y el COVID-19 - aproximación desde la veterinaria y la microbiología
3/27/2020	Internet	Excelsior Podcast	USA	SARS-CoV-2 explained by a virologist
3/18/2020	Instagram	@caromvetologa – Dra. Carolina Alaguna, D.V.M.	Colombia	Evitemos el abandono de animales de compañía por desinformación acerca del coronavirus
3/8/2020	Facebook	Ciencia Café pa’ sumercé	Colombia	Todo sobre coronavirus
3/7/2020	Instagram	@anaerobias – Dra. Ana Porras	Colombia	El Dr. Javier Jaimes habla sobre #COVID19