CURRICULUM VITAE

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Facultad de Ciencias Agrarias,
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ACADEMIC DEGREES

1997-2003, University of Wisconsin, Madison – Wisconsin, Ph.D.
Veterinary Science, Advisor Dr. Maria Salvato
1993-1996, Universidad de Antioquia–MSc-Basic Biomedical Sciences, Virology
1982-1991, Universidad de Antioquia-DVM

LANGUAGES

Spanish - English

PROFESSIONAL EXPERIENCE

January 2012 to date: Chief of Agrarian Research Center,
Facultad de Ciencias Agrarias, Universidad de Antioquia
Medellín, Colombia

August 2004- December 2011: Full time, Associate professor,
School of Veterinary Medicine,
Universidad de Antioquia

December-2003 to July 2004: Research associate,
Institute of Human Virology,
University of Maryland at Baltimore,
Baltimore, Maryland

1994-1996 Professor - Medical School,
University of Antioquia, Medellín-Colombia.

1993 Research Assistant, Laboratory of Virology,
Medicine School, Universidad de Antioquia,
Medellín-Colombia

1992 Slaughterhouse Veterinarian – Cencoobip,
Antioquia-Colombia

RESEARCH TRAININGS

September - November 2001: Centre for Applied Microbiology and Research (CAMR),
Porton Down-Salisbury, UK

June-August 1998 & February-June 1999: Plum Island Animal Disease Center (PIADC)
Unite States Department of Agriculture (USDA)
Greenport-New York

COMPLETED AND CURRENT RESEARCH FUNDING

Principal Investigator:

- Search of infection by *Ehrlichia* and *Rickettsia* on canines with compatible clinical signs Seen at two university veterinary hospitals from Medellín and their usefulness as sentinels of likely zoonotic transmission. Colciencias grant 111556933883, 2014-2015.

- Isolation, characterization and epidemiological of a Hantavirus detected in Necoclí, Colombia. Colciencias grant 20113600114763, 2012-2014

- Exploration of climatic factors in endemic zones for *Rickettsia rickettsii* and its efects over the tick vectors. Vigencia 2012-2014. Derived from proyect: "Eco-epidemiological Characterization of a Sppoted Fever Group (SFG) Rickettsial area in northern Colombia". Colciencias Grant 111549326228, 2009
- Eco-epidemiological Characterization of a Sppoted Fever Group (SFG) Rickettsial area in northern Colombia. Financial support: Colciencias, grant 111549326228, 2010-2013

- Epidemiological description of infection with rickettsial agents in rodents, ectoparasites and humans in the Uraba gulf, Antioquia, Colombia. Financial support**:** Fundación para la promoción de la investigación y la tecnología, Banco de la república, Colombia, grant 2387. 2008-2009.

- Search for serological and genetic evidence of emergent and re-emergent agents in humans and urban rural rodents in Antioquia, Colombia. Financial support: Colciencias, grant 11534319203, 2006-2009

- Standardization of techniques for diagnosis of prionic diseases in human-nervous-tissue samples. Financial support Colciencias, grant 111540820493, 2007-2008

- Prevalence study of Leptospira spp in rodents of the local trade market of Medellín. Minor project funded by Comité para el desarrollo de la investigación (CODI), Universidad de Antioquia. Grant EO1206, 2005-2006.

Co-Investigator:

- Seroprevalence of West Nile Virus (WNV) on equids of the department of Antioquia (Colombia) through ELISA. PI: Francisco J. Díaz (Inmuno-virología group), Minor project funded by Comité para el desarrollo de la investigación (CODI), Universidad de Antioquia, 2007-2008

- Establishment of a programm of detection, control and prevention of Bovine paratuberculosis (Mycobacterium avium paratuberculosis) on "La Montaña", veterinary school farm of the Universidad de Antioquia. Medium size project funded by Comité para el desarrollo de la investigación (CODI), Universidad de Antioquia. PI: Juan G. Maldonado. 2005-2007.

PUBLICATIONS

A. Ph.D. and Master Thesis and undergraduate Work:

1- Characterization of a viral hemorrhagic fever in a primate model

2- Preliminary studies for the epidemiological and virological characterization of the Infectious Bovine Rhinotracheitis, IBR) in Colombia

3- Study about the Infectious Bovine Rinotracheitis (IBR) in a dairy herd of the Valle of Aburrá (Antioquia-Colombia)

B. Selected Publications:

1- Londoño, A.F., Diaz, F.J., Valbuena, G., Gazi, M., Labruna, M.B., Hidalgo, M., Mattar, S., Contreras,V., **Rodas, J.D**. (2014). Infection of *Amblyomma ovale* by *Rickettsia* sp. strain Atlantic rainforest, Colombia, *Ticks and Tick-borne Diseases*, http://dx.doi.org/10.1016/j.ttbdis.2014.04.018

2 - Camilo Duque-Velásquez, Ánderson Garzón Alzate, Andrés Villegas Lanau, Laura Marcela Escobar Velásquez, Julián Zea Lopera, Francisco Lopera, Juan David Rodas González. 2014. Encefalopatía espongiforme transmisible humana: reporte de un caso. IATREIA 27 (3): 330-336.

3- Carolina Montoya-Ruiz, Francisco J. Díaz and **Juan D. Rodas**. 2014. Recent Evidence of Hantavirus Circulation in the American Tropic. Viruses 6 (3):1274-1293.

4- Esteban Arroyave, Andrés Felipe Londoño, Juan Carlos Quintero, Piedad Agudelo-Flórez, Margarita Arboleda, Francisco J. Díaz, **Juan D. Rodas**. Etiología y caracterización epidemiológica del síndrome febril no palúdico en tres municipios del Urabá antioqueño, Colombia. 2013. Biomédica 33 (suplemento 1): 99-107

5- Juan Carlos Quintero, Andrés Felipe Londoño, Francisco J. Díaz, Piedad Agudelo-Flórez, Margarita Arboleda, **Juan David Rodas**. Ecoepidemiología de la infección por rickettsias en roedores, ectoparásitos y humanos en el noroeste de Antioquia, Colombia. 2013. Biomédica 33(suplemento 1): 38-51

6- Piedad Agudelo-Flórez, Victoria Eugenia Murillo, Andrés Londoño, **Juan David Rodas**. Alteraciones histopatológicas en ratas naturalmente infectadas con Leptospira. 2013. Biomédica 33 (suplemento 1): 1-22

7- Biviana Andrea Duque, Diego Aranzazu, Piedad Agudelo-Flórez, Andrés F. Londoño, Víctor H. Quiroz, **Juan David Rodas**. *Rattus norvegicus* como indicador de la circulación de *Capillaria hepática* y *Taenia taeniaeformis* en la plaza minorista de Medellín, Colombia. 2012. Biomedica 32 (4): 1-32

8- Andrés F. Londoño, Silvana Levis, **Juan D. Rodas**. 2011. Los hantavirus como agentes emergentes de importancia en Suramérica. Biomédica, 31: 451-64

9- Zapata JC, Pauza CD, Djavani MM, **Rodas JD**, Moshkoff D, Bryant J, Ateh E, Garcia C, Lukashevich IS, Salvato MS. 2011. Lymphocytic choriomeningitis virus (LCMV) infection of macaques: A mode For Lassa fever. Antiviral Res. 92 (2): 125-138

10- Londoño AF, Díaz FJ, Agudelo-Flórez P, Levis S, **Rodas JD**. Genetic Evidence of Hantavirus Infections in Wild Rodents from Northwestern Colombia. 2011. Vector Borne Zoonotic Dis, 11(6): 701-708.

11- J. Ruiz-Sáenz, **Juan D. Rodas**. Viruses, virophages, and their living Nature. 2010. Acta virológica 54: 85-90.

12- Piedad Agudelo-Flórez, Juan C. Arango, Elisa Merizalde, Andrés F. Londoño, Víctor H. Quiroz y **Juan D. Rodas**. Evidencia serológica de circulación de *Leptospira* spp en *Rattus norvegicus* naturalmente expuestos en una zona urbana colombiana. 2010. Rev. Salud Pública. 12 (6): 990-999.

13- Margarita M Zapata, Ofelia Arroyave, René Ramírez, Christian Piedrahita, **Juan D. Rodas**, Juan G. Maldonado. 2010. Identification of Mycobacterium avium subspecies paratuberculosis by PCR techniques and establishment of control programs for bovine paratuberculosis in dairy herds. Rev Colomb Cienc Pec 2009; 23:17-27

14- Yenny Góez Rivillas, Natalia Taborda, Francisco J Díaz, Agustín Góngora, **Juan D Rodas**, Julián Ruiz Sáenz*,* Jorge E. Osorio*4*. 2010. Antibodies to West Nile virus in equines of Antioquia and Meta, Colombia, 2005-2008. Rev Colomb Cienc Pec 23: 462- 470.

15- Carlos M. Trujillo, Luis Rodríguez, **Juan D. Rodas**, and John Jairo Arboleda. Experimental infection of *Didelphis marsupialis* with vesicular stomatitis New Jersey virus. 2010. Journal of Wildlife Diseases*,* 46(1), 2010, pp. 209–217

16- **Juan D. Rodas**, Cristiana Cairo, Mahmoud Djavani, Juan Carlos Zapata, Joseph Bryant, C. David Pauza, Igor S. Lukashevich, and Maria S. Salvato. 2009. Circulating natural killer (NK) and $\gamma\delta$ T cells decrease soon after infection of rhesus macaques with lymphocytic choriomeningitis virus. *In press* on Memorias do Instituto Oswaldo Cruz, 2009; 104:583-591

17- Piedad Agudelo-Flórez, Andrés F. Londoño, Víctor H. Quiroz, Juan C. Ángel, Natalí Moreno,Erica T. Loaiza, Luis F. Muñoz, and **Juan D. Rodas**. 2009. Prevalence of *Leptospira Sp*p in urban rodents from a groceries trade center of Medellín, Colombia. Am J Trop Med Hyg.81 (5): 906-910.

18- **Juan D. Rodas***,* Roger Hewson, María Salvato. Contribution of the murine and primate models to the study of arenaviral diseases and hemorrhagic fevers, 2009. Rev Colomb Cienc Pecu 22:267-277

19- **Juan D. Rodas**, María S. Salvato. 2006. Tales of mice and men: Natural History of Arenaviruses. Rev Colomb Cienc Pec 19(4): 382-400

20- Mahmoud Djavani, Ivan Topisirovic, Juan Carlos Zapata, Mariola Sadowska, Yida yang, **Juan D. Rodas**, Clifford W Bogue, Katherine L.B. Borden and Maria S. Salvato. 2005. The proline-rich homeodomain (PRH/HEX) protein is down-regulated in liver during infection with lymphocytic choriomeningitis virus. J Virol 79(4):2461-73.

21- Maria S. Salvato and **Juan D. Rodas**. Chapter 49: Arenavirus. In: Topley and Wilson's Microbiology and Microbial infections, 10 ed, Virology volume, Mahy B and ter Meulen V (Eds), 2005, 10 ed, Virology volume, Mahy B and ter Meulen V (Eds).

22- Igor S. Lukashevich, **Juan D. Rodas**, Ilia I. Tikhonov, Juan C. Zapata, Yida Yang, Mahmoud Djavani and Maria S. Salvato. 2004. LCMV- mediated hepatitis in rhesus macaques: WE but not ARM strain activates hepatocytes and induces liver regeneration. Archives of virology, 149(12):2319-36.

23- **Rodas JD**, Lukashevich I, Zapata JC, cairo C, Tikhonov I, Djavani M, Pauza D and Salvato M. 2004. Mucosal arenavirus infection of primates can protect from lethal hemorrhagic fever. J Med Virol 72: 424-435.

24- Lukashevich IS, Tikhonov I, **Rodas JD**, Zapata JC, Yang Y, Djavani M and Salvato MS. 2003. Arenavirus-mediated liver pathology: acute Lymphocytic Choriomeningitis Virus infection of Rhesus Macaques is characterized by high-level Interleukin-6 expression and hepatocyte proliferation. J Virol 77(3):1727-1737

25- Lukashevich IS, **Rodas JD**, Djavani M, Zapata JC, Usborne A, Emerson C, Mitchen J, Jahrling PB and Salvato MS. 2002. Hemorrhagic fever occurs after intravenous but not after intragastric inoculation of rhesus macaques with lymphocytic choriomeningitis virus. J of Med Virol 67: 171-186.

26- Mahmoud D, Cheng Y, Lukashevich I, **Rodas JD**, Sharath KR and Salvato M. 2001. Mucosal Immunization with Salmonella Thyphimurium expressing Lassa virus nucleocapsid protein (LAS NP) cross-protects mice from lethal challenge with lymphocytic choriomeningitis virus. J of Human Virol. 4 (2):103-108.

27- Mahmoud D, **Rodas JD**, Lukashevich I, Horejsh D, Pandolfi PP, Borden K and Salvato M. 2000. Role of promyelocytic leukemia protein (PML) in the interferon-sensitivity of lymphocytic choriomeningitis virus. J. Virol. Vol 75 (13): 6204-6208.

28- Cheng LL, **Rodas JD**, Schultz KT, Christensen B, Yuill, TM and Israel, BA. 1999. Potential for evolution of California serogroup bunyaviruses by genome reassorment in *Aedes Albopictus*. Am. J. of Trop. Med. and Hyg.61(2): 430-438.

SOCIETIES

- American Society for Virology, associated member since January 2004.
http://www.asv.org/

- UTMB Center for Tropical Diseases, International Faculty since 2012.
http://www.utmb.edu/ctd/International.aspx

- National Virology Network (Colombia), associated member since January 2004.
http://redvirologiacolombia.org/