

Juan F. Muñoz-Gutiérrez

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EDUCATION:

- 2009-2015 PhD, Veterinary Science, April 2015
Dissertation: Transcriptomic determinants of prion permissiveness in a pathophysiologically relevant ex vivo model
Advisors: Tim Baszler and James Stanton
Washington State University, Pullman, Washington
- 2009-2015 Veterinary Pathology Residency, Washington Animal Disease Diagnostic Laboratory
Washington State University, Pullman, Washington
- 2009 Pathology externship at Northwest ZooPath
Two-month externship focused on pathology of wildlife and exotic animal species supervised by DVM DACVP Michael Garner
Monroe, Washington
- 2002-2006 MVZ (equivalent to DVM)
College of Veterinary Medicine (FMVZ [AVMA-accredited])
National Autonomous University of Mexico (UNAM), Mexico City, Mexico

SPECIALTY TRAINING AND CERTIFICATION

- 2015 Diplomate, American College of Veterinary Pathologists

HONORS AND AWARDS:

- 2012 C.L. Davis Foundation Student Scholarship Award for the Veterinary Pathology Resident of the Year
- 2009 “Constantino Ordoñez” Award for the Best DVM Thesis in the Category of Basic Medical Sciences, FMVZ-UNAM
- 2008 Best Poster Award at the National Congress of Veterinary Pathology, Mexican Society of Veterinary Pathologists

EMPLOYMENT AND PROFESSIONAL EXPERIENCE

- 2015- present Assistant Professor and Veterinary Pathologist
Department of Veterinary Sciences, Wyoming State Veterinary Laboratory,
University of Wyoming, Laramie, Wyoming
Job description: 55% diagnostic service, 20% research, 20% teaching, and 5%
university service.
- 2009-2015 Graduate Research Assistant and Anatomic Pathology Resident
Veterinary Microbiology and Pathology/Washington Disease Diagnostic Lab
Washington State University, Pullman, Washington
- 2009-2013 Pathology Instructor
Veterinary Pathology 656: Diagnostic pathology block (senior veterinary students)
Washington State University, Pullman, Washington
- 2011 Teaching Assistant for VM 546 Systemic Pathology laboratory
College of Veterinary Medicine
Washington State University
Pullman, Washington
- 2006-2009 Pathologist Diagnostician Assistant
Participating in examination and report writing of necropsy, biopsy, and cytology
submissions
Pathology Department of FMVZ-UNAM, Mexico City, Mexico
- 2006-2009 Teaching Assistant
General Pathology and Systemic Pathology courses
Pathology Department of FMVZ-UNAM, Mexico City, Mexico

PEER REVIEWED PUBLICATIONS:

- 2016 **Muñoz-Gutiérrez JF**, Aguilar-Pierlé S, Schneider DA, Baszler TV, Stanton JB.
Transcriptomic determinants of scrapie prion permissiveness in cultured ovine
microglia. PLoS ONE 2016;11(1):e0147727.DOI:1371/journal.pone.0147727
- 2015 **Muñoz-Gutiérrez JF**, Schneider DA, Baszler TV, Greenlee JJ, Nicholson EM,
Stanton JB. hTERT-immortalized ovine microglia propagate natural scrapie
isolates. Virus Res 2015;198:35-43
- 2014 De Solís CN, Biscoe EW, Lund CM, Labbe K, **Muñoz-Gutiérrez JF**, Farnsworth
K. Imaging diagnosis-Muscular hypertrophy of the small intestine and
pseudodiverticula in a horse. Vet Radiol Ultrasound 2014 0(0):1-4
- 2012 Guthrie AD, Gailbreath K, Cienava E, Bradway D, **Muñoz-Gutiérrez JF**. Septic
tularemia in two cotton top tamarins (*Sanguinus oedipus*). Comp Med
2012;62(3):225-228

PUBLICATIONS IN REVIEW:

- 2016 **Muñoz-Gutiérrez JF**, Garner MM, Kiupel M. Clinicopathological features of cutaneous chromatophoromas in captive snakes. (Manuscript accepted with minor revisions in *Veterinary Pathology* on 01/05/16. Revised manuscript was submitted on 01/18/16)

ORAL PRESENTATIONS

- 2015 **Muñoz-Gutiérrez JF**. Maximizing the diagnostic value of skin biopsy submissions.
Wyoming Veterinary Medical Association, Winter Meeting, 2015
Casper, Wyoming
- 2015 Nelson DD, **Muñoz-Gutiérrez JF**, Bradway D, and Wolff PL. *Pseudocowpox* viral epidermitis in a mountain goat: another zoonotic *Parapox* virus causing contagious ecthyma in wild ruminants.
58th Annual Conference of the American Association of Veterinary Laboratory Diagnosticians
Providence, Rhode Island
- 2013 **Muñoz-Gutiérrez JF**. Adenovirus tracheitis (quail bronchitis)
Western Conference of Veterinary Diagnostic Pathologists,
Saskatoon, Canada
- 2013 **Muñoz-Gutiérrez JF**, Shneider DA, Baszler TV, Stanton JB. An immortalized, sheep microglial cell line capable of accumulating natural and experimental prions
Animal TSEs workshop, PRION
Banff, Canada
- 2010 **Muñoz-Gutiérrez JF**, Righter DJ, Potter KA. Cutaneous papillomas and keratoacanthomas associated with papillomavirus infection
Western Conference of Veterinary Diagnostic Pathologists
Saskatoon, Canada
- 2009 **Muñoz-Gutiérrez JF**, Ramirez LJ, De la Torre SM, Portillo LB, Mendez BA. Systemic pyogranulomatous disease in ferrets (*Mustela putorius furo*) associated with coronavirus infection with similar features to those of the feline infectious peritonitis: 3 cases
National Congress of Veterinary Pathology
Jalisco, Mexico
- 2008 **Muñoz-Gutiérrez JF**, Aburto FE. Gall bladder adenocarcinoma in a dog
National Congress of Veterinary Pathology
Veracruz, Mexico

- 2007 **Muñoz-Gutiérrez JF**, Ramirez LJ, Martinez GD, Garcia HA. Detection of herpesvirus DNA in fibropapilloma samples from the olive ridley turtles (*Lepidochelys olivacea*) from the “La Escobilla”, Oaxaca turtle camp (DVM thesis project)
XXIV Wildlife Symposium “Gral. MV Manuel Cabrera Valtierra
Mexico City, FMVZ-UNAM
- 2007 **Muñoz-Gutiérrez JF**, Ramirez LJ, Flores RE. Meibomian gland adenocarcinoma and leiomyosarcoma in 2 african hedgehogs (*Atelerix albiventris*)
Wildlife and Exotic Animal Pathology Congress
Mexico City, FMVZ-UNAM
- 2007 **Muñoz-Gutiérrez JF**, Aranda B, Garcia OL. Hypereosinophilic syndrome in a cat
National Congress of Veterinary Pathology
Mazatlan, Mexico

POSTER PRESENTATIONS

- 2015 Stanton JB, McElliott VR, **Muñoz-Gutiérrez JF**, Schneider DA. Matrix metalloproteinase 2 activity in scrapie permissive and nonpermissive cultured sheep microglia.
Annual meeting of the American College of Veterinary Pathologists
Minneapolis, Minnesota
- 2015 **Muñoz-Gutiérrez JF**, Aguilar-Pierlé S, Schneider DA, Baszler TV, Stanton JB. Transcriptomic determinants of scrapie prion permissiveness in cultured ovine microglia.
PRION
Fort Collins, Colorado
- 2013 Stanton JB, **Muñoz-Gutierrez JF**, Evermann JF, Ridpath JF, and Bradway DS. Immortalized sheep microglia are permissive to a diverse range of ruminant viruses
Annual meeting of the American College of Veterinary Pathologists
Montreal, Canada
- 2013 **Muñoz-Gutierrez JF**, Shneider DA, Baszler TV, Stanton JB. An immortalized, sheep microglia cell line capable of accumulating natural prions
Prion Research Center
Fort Collins, Colorado
- 2013 **Muñoz-Gutierrez JF**, Shneider DA, Baszler TV, Stanton JB. An immortalized, sheep microglial cell line capable of accumulating natural and experimental prions
PRION, Banff, Canada
- 2012 **Muñoz-Gutiérrez JF**, Garner MM, Kiupel M. Clinicopathological features of cutaneous melanoma in snakes
Annual meeting of the American College of Veterinary Pathologists
Seattle, Washington

2012 **Muñoz-Gutiérrez JF**, Schneider DA, Baszler TV, Stanton JB. Persistent accumulation of experimental and natural scrapie prion protein in hTERT-immortalized ovine microglial cells
Annual meeting of the American College of Veterinary Pathologists
Seattle, Washington

2008 **Muñoz-Gutiérrez JF**, Ramirez LJ. Necrotic and ulcerative dermatitis in a horned chameleon (*Phrynosoma* sp) associated with viral infection
National Congress of Veterinary Pathology
Veracruz, Mexico

TEACHING

PATB 4130-01 Guest lecturer, Spring 2016

PATB 4120 Guest lecturer, Spring 2016

UNIVERSITY SERVICE ACTIVITIES

2016 Committee member for the Toxicologist search at WSVL

2015-present Member of the Scientific Review Committee (SRC)/Institutional Review Board (IRB) for the Wyoming State Science Fair (USWY50)

PROFESSIONAL AFFILIATIONS

American College of Veterinary Pathologists

SCHOLARSHIPS (funded and not funded):

2015 Poncin Scholarship Fund (not funded)
Bank of America, Washington State

2013 Travel and registration grants (funded)
Graduate & Professional Student Association
Washington State University

2013 Poncin Scholarship Fund (not funded)
Bank of America, Washington State

2012 Dr. James and Lillian Kraft Graduate Fellowship Award (funded)
Washington State University

2009 Assistant of Researcher Scholarship (Dr. Jose Francisco Trigo Tavera, funded)
National System of Researchers (SNI) of the Science & Technology National Commission of Mexico (CONACYT)
Mexico City, Mexico

GRANT ACTIVITY

Principal investigator, University of Wyoming, Faculty Grant-In-Aid. Investigation of bighorn sheep paranasal tumors for a novel retrovirus by target-enriched high-throughput sequencing. \$ 7,500. Decision pending.

CURRENT GRADUATE, UNDERGRADUATE, AND ADVISING STUDENTS

None

CURRENT RESEARCH INTERESTS

I am interested in elucidating and characterizing the factors associated with prion propagation in cultured ovine microglia cells. I am also interested in the diagnostic investigation of infectious diseases affecting wildlife. Specific diseases of interest include nasal tumors in Bighorn sheep, adenoviral hemorrhagic disease in wild ungulates, and malignant catarrhal fever in bison.