

**Louis M. Huzella, DVM, Diplomate, ACVP**  
**CURRICULUM VITAE**

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**EDUCATION**      Residency in Anatomic Veterinary Pathology, Armed Forces  
Institute of Pathology, Washington, DC (2003-2006)

                         DVM, University of Georgia, Athens, GA (1996-2000)

                         BA, History, Canisius College, Buffalo, NY (1979-1983)

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**PROFESSIONAL**

US Army Officer, now retired at the rank of Major 1983-Present  
Infantry, Aviation, and Veterinary Corps  
DD Form 214 available upon request

Commercial Pilot, 1999-Present

Rotorcraft-Helicopter

Instrument-Helicopter

<https://amsrvs.registry.faa.gov/airmeninquiry/Main.aspx>

Board Certified, Lead Veterinary Pathologist, 2010-Present

Integrated Research Facility

*Fort Detrick, MD. 21702*

<https://www.niaid.nih.gov/about/integrated-research-facility>

Bella Vision LLC, 2011-Present

Operations Director

Frederick, MD 21701

<http://kmichellehuzella.multimediateploy.com/>

Frederick Bicycle and Pedestrian Committee 2016-Pesent

Board Member

<https://www.govserv.org/US/Frederick/146686215379530/Frederick-Bicycle-%26-Pedestrian-Advisory-Committee>

**Hungarian Medical Association, 2017-Present**

**Board Member**

<https://hmaa.org/>

**Hammond Estates, LLC, 2017-Present**

**Operations Director**

**Frederick, MD 21701**

**Huzella Veterinary Services, LLC, 2018-Present**

**Owner, Licensed Veterinarian, Maryland, Georgia, South Carolina, and Florida**

**Veterinary Relief Services, Frederick, MD Region**

[huzellaveterinaryservices@gmail.com](mailto:huzellaveterinaryservices@gmail.com)

**Happy Hubz, 2018-Present**

**Chief Financial Officer**

**Libertytown, MD**

<https://happyhubz.net/>

**Other Experience: US Army Individual Ready Reserve, 1994-2000:** while completing both veterinary school prerequisites and veterinary school at the University of Georgia.

**Veterinary clinics, 1996-2000:** Full and part-time employment with numerous clinics, the **USDA ARS, Dr. Paula Fedorka-Cray Lab** (Athens, GA), and several investigators at the University of Georgia (specific details available upon request)

**Research, analysis, and data compilation for Dr. Lynda Kelley in USDA ARS 1999-2000** (Athens, GA): on potential agro-terrorism events

**Motorcycle Safety Instructor, 1997-1998,** for the Georgia Department of Public Safety as a motorcycle safety instructor

**US Army Officer** serving as both an **Infantry Officer and Army Aviator, Helicopter Pilot**, 1983-1994 in multiple duty postings; Maintenance test pilot and rated in the UH-60 Blackhawk, AH-1 Cobra, and UH-1 Iroquois helicopters. **FAA Commercial Multi-Engine Rotary Wing Certification**

**Troop Commander in the 3<sup>rd</sup> Armored Cavalry Regiment, 1990-1992** during both **Desert Shield** and **Desert Storm** with knowledge and understanding of detailed project management as it related to theater/depot level aviation support to included war time deployments.

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**PROFESSIONAL MEMBERSHIPS** AVMA, ACVP, HMAA, CL Davis Foundation

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**LICENSES** **DVM Current/active:** Georgia VET006318; South Carolina VET2751; Florida VM12218; and Maryland 7970

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**CLEARANCE** **Level 2 (NACLCL) position as of 9/6/2007**

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**OTHER** **American College of Veterinary Pathologists Board Certified**

IACUC 101 and IACUC 201

Introduction to FDA Good Laboratory Practice (GLP) and Good Laboratories Practice (GLP) for Study Directors and Monitors trained; December 2007

USDA Foreign Animal Disease Diagnostician (FADD) course at Plum Island; February 2004

Veterinary Clinicians Refresher Course in San Antonio,

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**TECHNICAL** Proficient in Microsoft Office Products including Word and Excel, Provantis software, GraphPad, Image-Pro, and familiar with online databases and search engines used for scientific research.

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**AWARDS** Bronze Star Medal, Meritorious Service Medal (3<sup>rd</sup> Award), Army Commendation Medal (3<sup>rd</sup> Award), Army Achievement Medal, Motorcycle Safety Instructor of the Year for the State of Georgia, and multiple clinical awards in veterinary school

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## **INVITED TALKS**

**Advanced Imaging Techniques and Infectious Disease Correlation in High Containment**, given at the **Use of Laboratory Animals in Infectious Disease Research Conference** in Hamilton, MT, August 2018.

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## NATIONAL MEETING PRESENTATIONS

**The Capabilities of NIAID's Integrated Research Facility at Fort Detrick**, at the Hungarian Medical Association of America annual meeting, Sarasota, FL., 2011

**The Consequences of Surviving Ebola Virus Disease**, at the Hungarian Medical Association of America annual meeting, Sarasota, FL., 2015

**Update on Zika Virus**, at the Hungarian Medical Association of America annual meeting, Sarasota, FL., 2016

**Ebola Virus in the Reproductive Tract of the Macaque**, at the Hungarian Medical Association of America annual meeting, Sarasota, FL., 2017

**Aerosol Exposure to Intermediate Size Nipah Virus Particles Induces Neurological Disease in African Green Monkeys**, at the Hungarian Medical Association of America annual meeting, Sarasota, FL., 2018

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## PUBLICATIONS

### Book Chapters:

Nonhuman Primate Models of Ebola Virus Disease. In: Current Topics in Microbiology and Immunology. Bennett R.S., Huzella L.M., Jahrling P.B., Bollinger L., Olinger G.G., Hensley L.E. 2017, Springer, Berlin, Heidelberg

General Disease Pathology in Filoviral and Arenaviral Infections. In Viral Hemorrhagic Fevers (eds. Singh and Ruzek). Huzella L, Cann JA, Lackemeyer M, Wahl-Jensen V, Jahrling P, Kuhn J, Perry DL. CRC Press. ISBN-139781439884294.

### Peer Reviewed Journal Articles:

David X Liu, Donna L Perry, Lisa Evans DeWald, Yingyun Cai, Katie R Hagen, Timothy K Cooper, Louis M Huzella, Randy Hart, Amanda Bonilla, John G Bernbaum, Krisztina B Janosko, Ricky Adams, Reed F Johnson, Jens H Kuhn, Matthias J Schnell, Ian Crozier, Peter B Jahrling, Juan C de la Torre; Persistence of Lassa Virus Associated With Severe Systemic Arteritis in Convalescing Guinea Pigs (*Cavia porcellus*), *The Journal of Infectious Diseases*, , jiy641, <https://doi.org/10.1093/infdis/jiy641>

Svetlana Chefer, Jurgen Seidel, Adam S. Cockrell, Boyd Yount, Jeffrey Solomon, Katie R. Hagen, David X. Liu, Louis M. Huzella, Mia R. Kumar, Elena Postnikova, J. Kyle Bohannon, Matthew G. Lackemeyer, Kurt Cooper, Ariel Endlich-Frazier, Heema Sharma, David Thomasson, Christopher Bartos, Philip J. Sayre, Amy Sims, Julie Dyll, Michael R. Holbrook, Peter B. Jahrling, Ralph S. Baric, Reed F. Johnson; The Human Sodium Iodide Symporter as a Reporter Gene for Studying Middle East Respiratory Syndrome Coronavirus Pathogenesis, *mSphere* Dec 2018, 3 (6) e00540-18; DOI: 10.1128/mSphere.00540-18

Dima A. Hammoud, Margaret R. Lentz, Abigail Lara, Jordan K. Bohannon, Irwin Feuerstein, Louis Huzella, Peter B. Jahrling, Matthew Lackemeyer, Joseph Laux, Oscar Rojas, Philip Sayre, Jeffrey Solomon, Yu Cong, Vincent Munster, Aerosol exposure to intermediate size Nipah virus particles induces neurological disease in African green monkeys. *PLOS Neglected Tropical Diseases* 12(11): e0006978. <https://doi.org/10.1371/journal.pntd.0006978>

Donna L. Perry, Louis M. Huzella, John G. Bernbaum, Michael R. Holbrook, Peter B. Jahrling, Katie R. Hagen, Matthias J. Schnell, and Reed F. Johnson, Ebola virus replication in the reproductive tract of acutely affected male and female macaques. *American Journal of Pathology* DOI: 10.1016/j.ajpath.2017.11.004 (2018).

Cooper TK, Huzella L, Johnson JC, Rojas O, Yellayi S, Sun MG, Bavari S, Bonilla A, Hart R, Jahrling PB, Kuhn JH, Zeng X. Histology, immunohistochemistry, and in situ hybridization reveal overlooked Ebola virus target tissues in the Ebola virus disease guinea pig model. *Sci Rep.* 2018 Jan 19;8(1):1250. PMID: 29352230. PMCID: PMC5775334.

Honko, A. N., Johnson, J. C., Marchand, J. S., Huzella, L., Adams, R. D., Oberlander, N., Olinger, G. G. (2017). High dose sertraline monotherapy fails to protect rhesus macaques from lethal challenge with Ebola virus Makona. *Scientific Reports*, 7, 5886. <http://doi.org/10.1038/s41598-017-06179-y>

Cong, Y., Lentz, M. R., Lara, A., Alexander, I., Bartos, C., Bohannon, J. K., Huzella, L. M., Holbrook, M. R. (2017). Loss in lung volume and changes in the immune response demonstrate disease progression in African green monkeys infected by small-particle aerosol and intratracheal exposure to Nipah virus. *PLoS Neglected Tropical Diseases*, 11(4), e0005532. <http://doi.org/10.1371/journal.pntd.0005532>

Reed F. Johnson, Ulas Bagci, Lauren Keith, Xianchun Tang, Daniel J. Mollura, Larry Zeitlin, Jing Qin, Louis Huzella, Christopher J. Bartos, Natasha Bohorova, Ognian Bohorov, Charles Goodman, Do H. Kim, Michael H. Paulty, Jesus Velasco, Kevin J. Whaley, Joshua C. Johnson, James Pettitt, Britini L. Ork, Jeffrey Solomon, Nicholas Oberlander, Quan Zhu, Jiusong Sun, Michael R. Holbrook, Gene G. Olinger, Ralph S. Baric, Lisa E. Hensley, Peter B. Jahrling, Wayne A. Marasco, 3B11-N, a monoclonal antibody against MERS-CoV, reduces lung pathology in rhesus monkeys following intratracheal inoculation of MERS-CoV Jordan-n3/2012, *Virology*, Volume 490, March 2016, Pages 49-58

Divergent Simian Arteriviruses Cause Simian Hemorrhagic Fever of Differing Severities in Macaques. Victoria Wahl-Jensen, Joshua C. Johnson, Michael Lauck, Jason T. Weinfurter, Louise H. Moncla, Andrea M. Weiler, Olivia Charlier, Oscar Rojas, Russell Byrum, Dan R. Ragland, Louis Huzella, Erika Zommer, Melanie Cohen, John G. Bernbaum, Yíngyún Cai, Hannah B. Sanford, Steven Mazur, Reed F. Johnson, Jing Qin, Gustavo F. Palacios, Adam L. Bailey, Peter B. Jahrling, Tony L. Goldberg, David H. O'Connor, Thomas C. Friedrich, and Jens H. Kuhn *mBio* 7:1 january/february 2016; doi:10.1128/mBio.02009-15

R.F. Johnson, L.E. Via, M.R. Kumar, J.P. Cornish, S. Yellayi, L. Huzella, *et al.* Intratracheal exposure of common marmosets to MERS-CoV Jordan-n3/2012 or MERS-CoV EMC/2012 isolates does not result in lethal disease *Virology*, 485 (2015), pp. 422–430

Mucker EM, Chapman J, Huzella LM, Huggins JW, Shamblyn J, Robinson CG, *et al.* (2015) Susceptibility of Marmosets (*Callithrix jacchus*) to Monkeypox Virus: A Low Dose Prospective Model for Monkeypox and Smallpox Disease. *PLoS ONE* 10(7): e0131742. doi:10.1371/journal.pone.0131742

Yingst SL, Facemire P, Chuvala L, Norwood D, Wolcott M, Huzella L. Pathological findings and diagnostic implications of a rhesus macaque (*Macacca mulatta*) model of aerosol exposure to *Burkholderia mallei* (glanders). *Journal of Medical Microbiology*. 2015;64(Pt 6):646-653.

Dyall J, Johnson RF, Chen DY, Huzella L, Ragland DR, Mollura DJ, Byrum R, Reba RC, Jennings G, Jahrling PB, Blaney JE, Paragas J.J *Infect Dis*. 2011 Dec 15; 204(12):1902-11: Evaluation of monkeypox disease progression by molecular imaging.

Johnson RF, Dyall J, Ragland DR, Huzella L, Byrum R, Jett C, St Claire M, Smith AL, Paragas J, Blaney JE, Jahrling PB. *Journal of Virology*, March 2011, p. 2112-2125, Vol. 85, No. 5: Comparative Analysis of Monkeypox Virus Infection of *Cynomolgus* Macaques by the Intravenous or Intrabronchial Inoculation Route.

Samuel Yingst, Louis M. Huzella, Lara Chuvala and Mark Wolcott *J Med Microbiol* (2010), 59:724: A rhesus macaque (*Macacca mulatta*) model of aerosol-exposure brucellosis (*Brucella suis*): pathology and diagnostic implications.

David A Rozak, Herbert C Gelhaus, Mark Smith, Mojgan Zadeh, Louis Huzella, David Waag, and Jeffrey J Adamovicz. *J Immune Based Ther Vaccines*. 2010; 8: 2. CpG oligodeoxyribonucleotides protect mice from *Burkholderia pseudomallei* but not *Francisella tularensis* Schu S4 aerosols.

Elliott R. Jacobson, Kristin H. Berry, Brian Stacy, Louis M. Huzella, Victor F. Kalasinsky, Michelle L. Fleetwood, and Mark G. Mense *J Wildl Dis* 2009 Oct; 45(4): 982-988. OXALOSIS IN WILD DESERT TORTOISES, GOPHERUS AGASSIZII

Huzella LM, Buckley MJ, Alves DA, Stiles BG, Krakauer T *Int Immunopharmacol*. 2009 Sep; 9(10): 1168-74. Critical timing, location and duration of glucocorticoid administration rescue mice from superantigen-induced shock and attenuate lung injury. Krakauer T, Buckley MJ, Huzella LM, Alves DA *Res Vet Sci*. 2009 Apr; 86(2): 241-7, Central roles for IL-2 and MCP-1 following intranasal exposure to SEB: A new mouse model.

Stacy BA, Santoro M, Morales JA, Huzella LM, Kalasinsky VF, Foley A, Mettee N, Jacobson ER *Dis Aquat Organ*. 2008 Jun 19; 80(1): 45-9, Renal oxalosis in free-ranging green turtles *Chelonia mydas*.

Rawlings CA, Mahaffey MB, Chernosky A, Huzella L *Am J Vet Res*. 2000 Nov; 61(11): 1353-7, Immediate urodynamic and anatomic response to colposuspension in female Beagles.

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**REFERENCES:** Available upon Request