

## CURRICULUM VITAE

### Thomas B. Waltzek

Assistant Professor

Department of Infectious Diseases and Pathology

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### Professional Preparation

University of Florida	Virology	Postdoctoral	Mar 2011-July 2012
University of California, Davis	Comparative Pathology	PhD	2010
University of California, Davis	Veterinary Medicine	DVM	2009
University of California, Davis	Ecology	MS	2002
Florida State University	Biological Science	BS	1998

### Appointments

University of Florida, Gainesville, FL College of Veterinary Medicine Department of Infectious Diseases and Pathology	Assistant Professor 90% research, 10% teaching Co-Director, UF Aquatic Animal Health Program Co-Director, UF Wildlife and Aquatic Animal Veterinary Disease Laboratory (WAVDL)	2012- present
University of Florida, Gainesville, FL College of Public Health and Health Professions Department of Environmental and Global Health	Courtesy Faculty	2012- present
University of Tennessee, Knoxville, TN College of Agricultural Sciences and Natural Resources Department of Forestry, Wildlife and Fisheries	Adjunct Faculty	2012- present

### Research Interests

- Characterization of emerging aquatic animal viruses (EAAVs) using metagenomics
- Phylogenomics to study the biology, epidemiology, and evolution of EAAVs
- Development of broadly applicable diagnostic methodologies to track EAAVs
- Determining the role that international commerce of aquatic animals plays in the emergence of AAVs as it relates to global aquaculture and ecosystem health
- Aquatic animal zoonoses, public health, one health

## Articles Published in Peer-refereed Journals

1. Tuomi P, Murray M, Garner M, Goertz C, Nordhausen R, Burek-Huntington K, Getzy D, Nielsen O, Archer L, Maness H, Wellehan Jr J, **Waltzek TB**. Novel poxvirus infection in northern and southern sea otters (*Enhydra lutris kenyoni* and *Enhydra lutris neiris*). In press, *Journal of Wildlife Diseases*, (2013).
2. **Waltzek TB**, Miller DL, Gray MJ, Drecktrah B, Briggler JT, MacConnell B, Hudson C, Hopper L, Friary J, Yun SC, Malm KV, Weber ES, Hedrick RP. Isolation of *frog virus 3* from pallid sturgeon (*Scaphirhynchus albus*) suggests an interclass host shift. In Press, *Diseases of Aquatic Organisms*, (2013).
3. Chinchar VG, **Waltzek TB**. Ranaviruses: Not just for frogs anymore. In press, PLOS Pathogens, (2013).
4. Doszpoly A, Karaseva TA, **Waltzek TB**, Kalabekov IM, Shchelkunov IS. Field experience on the Atlantic salmon papillomatosis in Russia and first molecular characterization of the associated herpesvirus. In press, *Diseases of Aquatic Organisms*, (2013).
5. Davison AJ, Kurobe T, Gatherer D, Cunningham C, Korf I, Fukuda H, Hedrick RP, **Waltzek TB**. Comparative genomics of carp herpesvirus. *Journal of Virology* 87(5): (2013), 2908-2922. doi: 10.1128/JVI.03206-12. Epub 2012 Dec 26. PMID: 23269803.
6. Landsberg JH, Kiryu Y, Tabuchi M, **Waltzek TB**, Enge KM, Reintjes-Tolen S, Preston A, Pessier AP. Co-infection by alveolate parasites and frog virus 3-like ranavirus during an amphibian larval mortality event in Florida, USA. *Diseases of Aquatic Organisms* 105(2): (2013), 89-99. doi: 10.3354/dao02625. PMID: 23872853.
7. Lednicky JA, **Waltzek TB**, McGeehan E, Loeb JC, Hamilton SB, Luetke MC. Isolation and genetic characterization of human coronavirus NL63 in primary human renal proximal tubular epithelial cells obtained from a commercial supplier, and confirmation of its replication in two different types of human primary kidney cells. *Virology Journal* 10: (2013), 213. doi: 10.1186/1743-422X. PMID: 23805916.
8. Yondon M, Heil GL, Burks JP, Zayat B, **Waltzek TB**, Jamiyan BO, McKenzie PP, Krueger WS, Friary JA, Gray GC. Isolation and characterization of H3N8 equine influenza A virus associated with the 2011 epizootic in Mongolia. *Influenza and Other Respiratory Viruses* Sep; 7(5): (2013), 659-65. doi: 10.1111/irv.12069. Epub 2013 Jan 4. PMID: 23289427.
9. Santini F, Nguyen MTT, Sorenson L, **Waltzek TB**, Lynch Alfaro JW, Eastman JM, Alfaro ME. Do habitat shifts drive diversification in teleost fishes? An example from the pufferfishes (Tetraodontidae). *Journal of Evolutionary Biology* 26(5): (2013), 1003-1018. doi: 10.1111/jeb.12112. Epub 2013 Mar 15. PMID: 23496826.
10. Sriwanayos P, Francis-Floyd R, Stidworthy MF, Petty BD, Kelley K, **Waltzek TB**. Megalocytivirus infection in orbiculate batfish *Platax orbicularis*. *Diseases of Aquatic Organisms* 105(1): (2013), 1-8. doi: 10.3354/dao02594. PMID: 23836765.
11. **Waltzek TB**, Cortés-Hinojosa G, Wellehan Jr JFX, Gray GC. Marine mammal zoonoses: A review of disease manifestations. *Zoonoses and Public Health* 59(8): (2012), 521-535. doi: 10.1111/j.1863-2378.2012.01492.x. Epub 2012 Jun 15. Review. PMID: 22697432.

12. Lesbarreres D, Balseiro A, Brunner J, Chinchar VG, Duffus A, Kerby J, Miller DL, Robert J, Schock DM, **Waltzek TB**, Gray MJ. Ranavirus: past, present and future. *Biology Letters* 8(4): (2012), 481-483. doi: 10.1098/rsbl.2011.0951. Epub 2011 Nov 2. PMID: 22048891.
13. Marcos-Lopez M, **Waltzek TB**, Hedrick RP, Baxa DV, Garber AF, Liston R, Johnsen E, Forward BS, Backman S, Ferguson HW. Characterization of a novel alloherpesvirus from Atlantic cod (*Gadus morhua*). *Journal of Veterinary Diagnostic Investigation* 24(1): (2012), 65-73. doi: 10.1177/1040638711416629. Epub 2011 Oct 6. Erratum in: *J Vet Diagn Invest.* 2012 May; 24(3):641. PMID: 22362936.
14. Lednicky JA, **Waltzek TB**, Halpern MD, Hamilton SB. Comparative analysis of the full-length genome sequence of a clinical isolate of human parainfluenza virus 4B. *Scientifica ID* 871201: (2012), 1-4. doi:10.6064/2012/871201.
15. **Waltzek TB**, Marty GD, Alfaro ME, Bennett WR, Garver KA, Haulena M, Weber III ES, Hedrick RP. Systemic iridovirus from threespine stickleback *Gasterosteus aculeatus* represents a new megalocytivirus species (family Iridoviridae). *Diseases of Aquatic Organisms* 98: (2012), 41-56. doi: 10.3354/dao02415. PMID: 22422128.
16. Boylan SM, Harms CA, **Waltzek TB**, Law JM, Garner M, Cassell J, Fatzinger MH, Govett P. Clinical report: hyperplastic adipose lids in mackerel scad, *Decapterus macarellus* (Cuvier). *Journal of Fish Diseases* 34: (2011), 921-925. doi: 10.1111/j.1365-2761.2011.01306.x. Epub 2011 Oct 13. PMID: 21995715.
17. Ng TF, Wheeler E, Greig D, **Waltzek TB**, Gulland F, Breitbart M. Metagenomic identification of a novel anellovirus in Pacific harbor seal (*Phoca vitulina richardsii*) lung samples and its detection in samples from multiple years. *Journal of General Virology* 92: (2011), 1318-1323. doi: 10.1099/vir.0.029678-0. Epub 2011 Mar 14. PMID: 21402596.
18. **Waltzek TB**, Kelley GO, Alfaro ME, Kurobe T, Davison AJ, Hedrick RP. Phylogenetic relationships in the family Alloherpesviridae. *Diseases of Aquatic Organisms* 84: (2009) 179-194. doi: 10.3354/dao02023. PMID: 19565695.
19. Weber III ES, **Waltzek TB**, Young DA, Twitchell EL, Gates AE, Vagelli A, Risatti GR, Hedrick RP, Frasca Jr S. Systemic iridovirus infection in the Banggai cardinalfish (*Pterapogon kauderni* Koumans 1933). *Journal of Veterinary Diagnostic Investigation* 21: (2009), 306-320. PMID: 19407082.
20. **Waltzek TB**, Kurobe T, Goodwin AE, Hedrick RP. Development of a polymerase chain reaction assay to detect Cyprinid herpesvirus 2 in goldfish. *Journal of Aquatic Animal Health* 21: (2009), 60-67. doi: 10.1577/H08-045.1. PMID: 19485127.
21. Kurobe T, Kelley GO, **Waltzek TB**, Hedrick RP. Revised phylogenetic relationships among herpesviruses isolated from sturgeons. *Journal of Aquatic Animal Health* 20: (2009), 96-102. doi: 10.1577/H07-028.1. PMID: 18783130.
22. Aoki T, Hirano I, Kurokawa K, Fukuda H, Nahary R, Eldar A, Davison AJ, **Waltzek TB**, Bercovier H, Hedrick RP. Genome sequences of three koi herpesvirus isolates representing the expanding distribution of an emerging disease threatening koi and common carp worldwide. *Journal of Virology* 81(10): (2007), 5058-5065. Epub 2007 Feb 28. PMID: 17329333.

23. Corbin CJ, Hughes AL, Heffelfinger JR, Berger T, **Waltzek TB**, Roser JF, Santos TC, Miglino MA, Oliveira MF, Braga FC, Meirelles FV, Conley AJ. Evolution of suiform aromatases: Ancestral duplication with conservation of tissue-specific expression in the collared peccary (*Pecari tayassu*). *Journal of Molecular Evolution* 65: (2007), 403-412. Epub 2007 Oct 2. PMID: 17912474.
24. Hedrick RP, **Waltzek TB**, McDowell TS. Susceptibility of koi carp, common carp, goldfish, and goldfish x common carp hybrids to Cyprinid herpesvirus 2 and herpesvirus 3. *Journal of Aquatic Animal Health* 18: (2006), 26-34. doi:10.1577/H05-028.1
25. Kelley GO, **Waltzek TB**, McDowell TS, Yun SC, LaPatra SE, Hedrick RP. Genetic relationships among herpes-like viruses isolated from sturgeon. *Journal of Aquatic Animal Health* 17: (2005), 297-303. doi:10.1577/H05-002.1.
26. Hedrick RP, Gilad O, Yun SC, McDowell TS, **Waltzek TB**, Kelley GO, Adkison MA. Initial isolation and characterization of a herpes-like virus (KHV) from koi and common carp. *Bulletin Fisheries Research Agency* 2: (2005), 1-7.
27. **Waltzek TB**, Kelley GO, Stone DM, Way K, Hanson L, Fukuda H, Hirono I, Aoki T, Davison AJ, Hedrick RP. Koi herpesvirus represents a third cyprinid herpesvirus (CyHV-3) in the family Herpesviridae. *Journal of General Virology* 86: (2005), 1659-1667. doi: 10.1099/vir.0.80982-0. PMID: 15914843.
28. **Waltzek TB**, Wainwright PC. Functional morphology of extreme jaw protrusion in neotropical cichlids. *Journal of Morphology* 257: (2003), 96-106. PMID: 12740901.
29. Wainwright PC, Ferry-Graham LA, **Waltzek TB**, Carroll AM, Hulsey CD, Grubich JR. Evaluating the use of ram and suction during prey capture by cichlid fishes. *Journal of Experimental Biology* 204: (2001), 3039-3051. PMID: 11551992.

### Peer-refereed Manuscripts in Review

1. Brenes R, Miller DL, **Waltzek TB**, Wilkes RP, Tucker JL, Chaney JC, Hardman RH, Brand MD, Huether RR, Gray MJ. Susceptibility of fish and turtles to ranaviruses isolated from different ectothermic vertebrate classes. Submitted to the *Journal of Aquatic Animal Health* (2013).
2. Phelps NBD, Mor SK, Armien AG, Batts W, Goodwin AE, Hopper L, McCann R, Ng TFF, Puzach C, **Waltzek TB**, Delwart E, Winton J, Goyal SM. Isolation and molecular characterization of a novel picornavirus from baitfish in the USA. Submitted to *PLOS Pathogens* (2013).
3. Steckler NK, Yanong RPE, Pouder DB, Nyaoke A, Frasca Jr S, **Waltzek TB**. Phaeohyphomycosis due to *Veronaea botryosa* in hatchery-reared sturgeon. Submitted to *Diseases of Aquatic Organisms* (2013).
4. **Waltzek TB**, Wellehan Jr JFX, Miyamoto MM, Davison AJ, Ng TFF, Head S, Hedrick RP. Expansion of the mimivirus host range from microbes to megavertebrates. In preparation for submission to the *Proceedings of the National Academy of Sciences* (2013).

## Non-Peer-refereed Publications

1. Hartman K, **Waltzek TB**. Koi herpesvirus (KHV, CyHV3) Disease. University of Florida EDIS Publication VM149 (2012). <http://edis.ifas.ufl.edu/vm149>.
2. **Waltzek TB**. Phylogenetics and improved diagnostics of the cypriniviruses. ProQuest Dissertations and Theses Database 10948, (2011).
3. Yanong, RPE, **Waltzek TB**. Megalocytivirus infections in fish, with emphasis on ornamental species. University of Florida. University of Florida EDIS Publication FA182 (2010). <http://edis.ifas.ufl.edu/fa182>.
4. **Waltzek TB**, Hedrick RP.004) Koi herpesvirus: lack of coordinated international effort to control spread of disease creates uncertainty in worldwide trade of koi. California Veterinarian 58: (2004), 14.

## Conference Presentations

1. **Waltzek TB** (2013). Repeated detection of frog virus 3 during aquaculture health surveys. 2nd International Ranavirus Symposium/62nd International Conference of the Wildlife Disease Association, Knoxville, TN. *Presentation and abstract*.
2. Miller DL, **Waltzek TB**, Wilkes R, Brand M, Chaney J, Hardman R, Hilzinger N, Huether R, Gray MJ (2013). Susceptibility of common fish and chelonians to ranavirus. 2nd International Ranavirus Symposium/62nd International Conference of the Wildlife Disease Association, Knoxville, TN. *Abstract*.
3. Brenes R, Gray MJ, Miller DL, Wilkes RP, **Waltzek TB** (2013). Transmission of ranavirus between ectothermic vertebrate hosts. 2nd International Ranavirus Symposium/62nd International Conference of the Wildlife Disease Association, Knoxville, TN. *Abstract*.
4. Hamel K, Bravo M, McLean JA, **Waltzek TB**, and Jancovich J (2013). Genomic sequence of largemouth bass virus. 2nd International Ranavirus Symposium/62nd International Conference of the Wildlife Disease Association, Knoxville, TN. *Abstract*.
5. Wellehan JFX, **Waltzek TB** (2013). Effect of liposome encapsulated cidofovir on frog virus 3 in cell culture. 2nd International Ranavirus Symposium/62nd International Conference of the Wildlife Disease Association, Knoxville, TN. *Abstract*.
6. **Waltzek TB** (2013). Exploring the Phylogenomic Diversity of emerging fish viruses. World Aquaculture Society Meeting, Nashville, TN. *Presentation*.
7. **Waltzek TB** (2013). Emerging infectious diseases of hatchery reared sturgeon. 2013 World Aquaculture Society Meeting, Nashville, TN. *Presentation*.
8. **Waltzek TB**, Wellehan JFX, Miyamoto MM, Davison AJ, Hedrick RP (2013). Expansion of the mimivirus host range from microbes to megavertebrates. 38th Eastern Fish Health Workshop, Gettysberg, PA. *Presentation and abstract*.
9. **Waltzek TB** (2013). Diagnostic tissue sampling. 2013 North American Veterinary Conference, Orlando, FL. *Presentation*.

10. **Waltzek TB** (2013). Just the facts! Resources for the aquatic practitioner. North American Veterinary Conference, Orlando, FL. *Presentation.*
11. **Waltzek TB** (2013). Viral diseases of ornamental fishes. North American Veterinary Conference, Orlando, FL. *Presentation.*
12. Steckler NK, Yanong RPE, Pouder DB, Nyaoke A, **Waltzek TB** (2013). *Veronaea botryosa*: An emerging fungal pathogen in hatchery-raised sturgeon in the United States. 38th Eastern Fish Health Workshop, Gettysberg, PA. *Abstract.*
13. Nyaoke A, **Waltzek TB**, Sutton DA, Okihiro MS (2013). *Scytalidium infestans* infection in hatchery-raised white sea bass *Atractoscion nobilis* in western United States. 38th Eastern Fish Health Workshop, Gettysberg, PA. *Abstract.*
14. **Waltzek TB** (2013). Emerging ranaviral diseases. Great Lakes Fishery Trust Meeting, South Bend, IN. *Presentation.*
15. **Waltzek TB** (2013). New tools to detect emerging fish pathogens. Great Lakes Fishery Trust Meeting, South Bend, IN. *Presentation.*
16. Cortes-Hinojosa G, Gulland FMD, Goldstein T, Venn-Watson S, **Waltzek TB**, Wellehan Jr. JFX (2013). Development of quantitative PCR for diagnosis of California sea lion adenovirus-1 (CSLAdV-1) in pinnipeds. Phi Zeta Research Day, University of Florida, Gainesville, FL. *Abstract.*
17. Cortes-Hinojosa G, Adkesson MJ, Cardenas-Alayza S, Seguel M, Paves H, **Waltzek TB**, Wellehan JFX (2013). Adenoviral diversity and possible host jumps in a colony of South American fur seals (*Arctophoca australis*) and Humboldt penguins (*Spheniscus humboldti*). 45th Annual AAZV Conference, Salt Lake City, Utah. *Abstract.*
18. Walsh MT, Pelton C, Cassle SE, Wells R, Goldstein JD, Stolen MK, Durden WN, Mazza TM, McCulloch SD, Stone AN, Biedenbach G, Gordon NJ, Landry S, **Waltzek TB**, Thompson PM, Mase B (2013). Individual health assessment of live interventions and post mortem cetacean specimens: Diagnostics, investigations, and field support pros and cons. 44th Annual Conference of the International Association of Aquatic Animal Medicine, Sausalito, CA. *Abstract.*
19. **Waltzek TB**, Wellehan Jr. JFX, Cortes-Hinojosa G, Ng TF, Delwart E, McCulloch SD, Goldstein JD, Schaefer AM, Fair PA, Reif JS, Bossart GD (2013). Exploring the Indian River bottlenose dolphin virome. 44th Annual Conference of the International Association of Aquatic Animal Medicine, Sausalito, CA. *Presentation and abstract.*
20. Cassle SE, **Waltzek TB**, VanderHart DJ, Farina LL, Leone A, Lednický J, Agnew DW, Coisman JG, Stacy NI, Herring H, Thompson P, Mase B, Walsh MT. (2013). MRI, CT Imaging, and morbillivirus culture, sequencing, and electronmicroscopy in a Bottlenose Dolphin (*Tursiops truncatus*) with CNS and pulmonary *Aspergillus fumigatus*. Southeastern Veterinary Pathology Conference, Tifton, GA. *Presentation.*
21. Cassle SE, **Waltzek TB**, VanderHart DJ, Farina LL, Leone A, Lednický J, Agnew DW, Coisman JG, Stacy NI, Herring H, Thompson P, Mase B, Walsh MT. (2013). MRI, CT Imaging, and morbillivirus culture, sequencing, and electronmicroscopy in a Bottlenose Dolphin (*Tursiops truncatus*) with CNS and pulmonary *Aspergillus fumigatus*. 44th Annual Conference of the International Association of Aquatic Animal Medicine, Sausalito, CA. *Abstract.*

22. Davison AJ, Kurobe T, Gatherer D, Cunningham C, Korf I, Fukuda H, Hedrick RP, **Waltzek TB** (2012). Comparative genomics of carp herpesviruses. 4th ESVV Veterinary Herpesvirus Symposium. *Poster and abstract*.
23. Leone AM, Wellehan JF, Dark MJ, Lednicky JA, **Waltzek TB**, Howerth EW, Buergelt CD, Owen JL, Allerman R, Mallicote MR, Sanchez LC, Conway JA (2012). Meningoencephalomyelitis in a pregnant Andalusian mare. American College of Veterinary Pathologists Annual Meeting. Montreal, Canada. *Abstract*.
24. **Waltzek TB** (2012). Emerging fish viruses. Fish Health Section Continuing Education Workshop, La Crosse, WI. *Presentation*.
25. **Waltzek TB**, Drecktrah B, Briggler JT, MacConnell B, Hudson C, Hopper L, Yun SC, Malm KV, Weber III ES, Gray MJ, Miller DL, Hedrick RP (2012). Isolation of frog virus 3 from pallid sturgeon suggests an interclass host shift. 37th Eastern Fish Health Workshop, Program 87, Lake Placid, NY. *Presentation and abstract*.
26. Miller DL, Gray MJ, **Waltzek TB** (2012). Ranaviral disease pathology across classes. 37th Eastern Fish Health Workshop, Lake Placid, NY. *Abstract*.
27. Yanong RPE, Wittenrich ML, Cassiano EJ, Creamer C, **Waltzek TB**, Watson CA (2012). The University of Florida's role in the rising tide conservation initiative. 37th Eastern Fish Health Workshop, Program 53, Lake Placid, NY. *Abstract*.
28. Cody TT, Tabuchi M, **Waltzek TB**, Petty DB (2012). Large scale, white catfish (*Amerius catus*) kill in the Ocklawaha river, FL associated with an *Aeromonas* species. 37th Eastern Fish Health Workshop, Program 49, Lake Placid, NY. *Abstract*.
29. Gray MJ, **Waltzek TB**, Miller DL (2012). Ranaviruses can be transmitted across ectothermic vertebrate classes. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting, Fall Creek Falls State Park, TN. *Abstract*.
30. **Waltzek TB**, Miller DL, Gray MJ (2012). Isolation of frog virus 3 from pallid sturgeon suggests an interclass host shift. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting. Fall Creek Falls State Park, TN. *Presentation and abstract*.
31. **Waltzek TB**, Cortes-Hinojosa G, Wellehan JFX, Gray G (2012). US National Surveillance for Influenza Viruses among Marine Mammals. International Conference on Emerging Infectious Diseases, Atlanta, GA. *Poster and abstract*
32. **Waltzek TB**, Cortes-Hinojosa G, Wellehan JFX, Gray G (2012). US national surveillance for zoonotic marine mammal viruses. Emerging Pathogens Institute Research Day, Gainesville, FL. *Abstract and poster*.
33. Atanasova K, Hesse R, **Waltzek TB** (2012). Serological evidence of human infection with porcine reproductive and respiratory syndrome virus. Emerging Pathogens Institute Research Day, Gainesville, FL. *Abstract and poster*.
34. Heil G, Yondon M, **Waltzek TB**, Jamiyan B, Zayat B, Gray G (2012). Equine influenza A epizootic in Mongolia, 2011: Isolation and characterization of a H3N8 virus. Emerging Pathogens Institute Research Day, Gainesville, FL. *Abstract and poster*
35. Lednicky J, **Waltzek TB**, Wellehan JFX, Halpern M, Hamilton S (2012). Complete genome sequence of human parainfluenzavirus 4B. Emerging Pathogens Institute Research Day, Gainesville, FL. *Abstract and poster*.

36. Lednicky J, **Waltzek TB**, Wellehan JFX, Halpern M, Hamilton S (2012). Complete genome sequence of human parainfluenzavirus 4B. Emerging Pathogens Institute Research Day, Gainesville, FL. *Abstract and poster*.
37. **Waltzek TB**, Reavill D, Kelleher S, Diaz S, Rice A, Maness H, Wellehan JFX (2012). Characterization of a novel poxvirus from an Argentine Tegu (*Tupinambis merinae*). Conference of the Association of Reptile and Amphibian Veterinarians, Oakland, CA. *Presentation and abstract*.
38. **Waltzek TB**, Miller DL, Gray MJ (2011). Isolation of frog virus 3 from pallid sturgeon suggests an interclass host shift. First International Ranavirus Symposium/2011 Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN. *Presentation and abstract*.
39. Almes KA, Hesse RA, Anderson J, Hays M, **Waltzek TB**, Grey GC (2011). Fatal bovine respiratory disease with syncytial cell formation: Histologic findings with lack of etiologic agent identification. 54th American Association of Veterinary Laboratory Diagnosticians Meeting, Buffalo, NY. *Abstract*.
40. Manickam B, **Waltzek TB**, Camus A (2011). Megalocytivirus in ornamental fish. American College of Veterinary Pathologists Annual Meeting, Nashville, TN. *Abstract*.
41. Batts WN, **Waltzek TB**, Yun S, Hedrick RP, Winton JR (2011). A novel bunyavirus from goldfish. 52nd Western Fish Disease Workshop, Nanaimo, Canada. *Abstract*.
42. **Waltzek TB**, Cortes-Hinojosa GA, Wellehan JF, Walsh MT, Stott JL, Heil GL, Gray GC (2011). US national surveillance for influenza viruses among marine mammals. 42nd Annual Conference of International Association of Aquatic Animal Medicine, Las Vegas, NV. *Presentation and abstract*.
43. **Waltzek TB**, Frasca S, Camus AC, Stidworthy MF, Marty GD, Haulena M, Groff JM, Weber ES Hedrick RP (2011). Impact of the megalocytiviruses on the ornamental fish trade. 36th Eastern Fish Health Workshop, Charleston, NC. *Presentation and abstract*.
44. **Waltzek TB**, Weber ES, Groff JM, Nordhausen RW, LaPatra SE, Goodwin AE, Hedrick RP (2011). Double-stranded DNA viruses of poikilothermic viruses. 36th Eastern Fish Health Workshop, Charleston, NC. *Presentation and abstract*.
45. Yanong RPE, **Waltzek TB** (2011). Megalocytivirus infections in Florida's ornamental fish industry: An update. 36th Eastern Fish Health Workshop, Charleston, NC. *Abstract*.
46. Frasca S, Sura R, Risatti GR, Sim A, Rasmussen JM, Wolf T, Weber ES, **Waltzek TB** (2011). Megalocytivirus infections in public aquaria. 36th Eastern Fish Health Workshop, Charleston, NC. *Abstract*.
47. Boylan S, Camus A, Marancik D, Yarbrough L, **Waltzek TB**, Posell A, Teders S, Miller S, Cassell J, Kalisperis R, Boylan SM (2011). Things that go bump in the night: Liquid nitrogen cryotherapy for external proliferative lesions in teleosts. 36th Eastern Fish Health Workshop, Charleston, NC. *Abstract*.
48. **Waltzek TB** (2010). Common viral and bacterial diseases in pet fish. American Veterinary Medical Association Annual Convention, Atlanta, GA. *Presentation and abstract*.



49. **Waltzek TB** (2010). Emerging viral diseases in ornamental fish I. American Veterinary Medical Association Annual Convention, Atlanta, GA. *Presentation and abstract.*
50. **Waltzek TB** (2010). Emerging viral diseases in ornamental fish II. American Veterinary Medical Association Annual Convention, Atlanta, GA. *Presentation and abstract.*
51. **Waltzek TB** (2010). Fish disease diagnostic software. American Veterinary Medical Association Annual Convention, Atlanta, GA. *Presentation and abstract.*
52. **Waltzek TB** (2010). Clinical cases in aquatic animal medicine. American Veterinary Medical Association, Atlanta, GA. *Presentation and abstract*
53. **Waltzek TB**, Kelley GO, Alfaro ME, Kurobe T, Davison AJ, Hedrick RP (2010). Biology and genetic characterization of the fish and amphibian herpesviruses (Family: Alloherpesviridae). 6th International Symposium on Aquatic Animal Health, Tampa, FL. *Presentation and abstract.*
54. **Waltzek TB**, Hedrick RP (2010). Viral Diseases of Pond Fish. UC Davis Wildlife and Aquatic Animal Medicine Symposium, Davis, California. *Presentation.*
55. **Waltzek TB**, Kelley GO, Alfaro ME, Kurobe K, Davison AJ, Hedrick RP (2010). A colony of African cichlids failing to thrive. 6th International Symposium on Aquatic Animal Health. *Presentation and abstract.*
56. Santini F, Nguyen M, **Waltzek TB**, Lynch-Alfaro J, Alfaro ME (2010). Tempo of diversification and freshwater invasions in pufferfishes (family Tetraodontidae). Evolution Meeting. Portland, Oregon. *Abstract.*
57. **Waltzek TB**, Marty GD, Alfaro ME, Bennett WR, Haulena M, Weber ES, Hedrick RP (2010). Systemic iridovirus infection in the threespine stickleback (*Gasterosteus aculeatus*) represents a new megalocytivirus species in the family Iridoviridae. 35th Eastern Fish Health Workshop, Shepherdstown, WV. *Presentation and abstract.*
58. **Waltzek TB**, Kelley GO, Alfaro ME, Kurobe T, Davison AJ, Hedrick RP (2010). Biology and genetic characterization of the fish and amphibian herpesviruses (Family: Alloherpesviridae). 35th Eastern Fish Health Workshop, Shepherdstown, WV. *Presentation and abstract.*
59. **Waltzek TB** (2010). Smoldering mortality in a captive population of stickleback (*Gasterosteus aculeatus*) represents a new megalocytivirus species in the family Iridoviridae. IAAAM 5th Annual Marine Species Histopathology Workshop, Vancouver, Canada. *Presentation and abstract.*
60. **Waltzek TB**, Hedrick RP (2010). Herpesviral diseases of pond fish. UC Davis Wildlife and Aquatic Animal Medicine Symposium. Davis, CA. *Presentation.*
61. **Waltzek TB**, Weber ES, Young DA, Twitchell EL, Gates AE, Vagelli A, Risatti G, Hedrick RP, Frasca Jr S (2008). Molecular phylogenetic assessment of a systemic iridovirus from the banggai cardinalfish (*Pterapogon kauderni*). 33rd Eastern Fish Health Workshop, Atlantic Beach, NC. *Presentation and abstract.*
62. **Waltzek TB**, Kelley GO, Davison AJ, Hedrick RP (2006). Evolutionary relationships of the fish and amphibian herpesviruses. Merck/Merial National Veterinary Scholar Symposium, Baton Rouge, LA. *Abstract and poster.*

63. Young DA, **Waltzek TB**, Weber ES Frasca S (2006). Characterization of a systemic iridovirus from the banggai cardinalfish (*Pterapogon kauderni*). 31st Eastern Fish Health Workshop, Charleston, SC. *Abstract*.
64. **Waltzek TB**, Kelley GO, Davison AJ, Hedrick RP (2005). Evolutionary relationships of the fish and amphibian herpesviruses. 36th Annual Conference of the International Association for Aquatic Animal Medicine, Seward, AK. *Presentation and abstract*.
65. **Waltzek TB**, Kelley GO, Yun SC, McDowell S, Hedrick RP (2004). Relationships of Koi Herpesvirus (KHV) to herpes-like viruses of fish and amphibians. 35th Annual Conference of International Association of Aquatic Animal Medicine, Galveston, TX. *Presentation and abstract*.
66. Hedrick RP, Gilad O, Yun SC, McDowell TS, **Waltzek TB**, Kelley GO, Adkison MA (2004). Initial isolation and characterization of a herpes-like virus (KHV) from koi. Report from the International Workshop on Koi Herpesvirus, London, England. *Abstract*.
67. Wainwright PC, Ferry-Graham LA, **Waltzek TB**, Hulsey CD, Carroll AM, Svanback R (2001). Evaluating suction feeding in fishes. The Society for Integrative and Comparative Biology, Chicago, IL. *Abstract*.
68. **Waltzek TB**, Wainwright PC (2001). The functional morphology of jaw protrusion among neotropical cichlids. The Society for Integrative and Comparative Biology, Chicago, IL. *Presentation and abstract*.

### Invited and Guest Lectures

1. University of Florida CVM (2013). Emerging Aquatic Animal Pathogens: Threats to Aquatic Industries & Ecosystems
2. University of Florida CVM Clerkship (2012). Emerging Viral Diseases of Fish
3. University of Minnesota CVM (2012). Exploring the Phylogenomic Diversity of Emerging Fish Viruses
4. University of Arkansas at Pine Bluff (2012). Exploring the Phylogenomic Diversity of Emerging Fish Viruses
5. Indonesian Mariculture Research Institute (2012). Impact of Megalocytiviruses on the Ornamental Fish Trade
6. Georgia Aquarium (2012). Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems
7. Mississippi State University CVM (2012). Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems
8. University of Georgia CVM (2012). Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems
9. University of Florida CVM (2012). Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems
10. North American Discus Association (2012). Infectious Diseases of Discus

11. Florida Wildlife Research Institute (2011). Ranaviral Infections in Poikilothermic Vertebrates
12. University of Florida (2011). Double-Stranded DNA Viruses of Poikilothermic Vertebrates
13. California Department of Fish and Game (2011). OIE Reportable Aquatic Animal Diseases in California
14. Western Fisheries Research Center (2011). Biology and Genetic Characterization of dsDNA Viruses in Poikilothermic Vertebrates
15. St. George's University (2011). Aquatic Animal Zoonoses
16. University of Kentucky (2011). Aquatic Animal Zoonoses
17. University of Florida (2010). Biology and Genetic Characterization of Fish Herpesviruses and Iridoviruses
18. University of Florida (2010). Tropical Aquaculture Laboratory, Biology and Genetic Characterization of Fish Herpesviruses and Iridoviruses
19. University of South Florida (2010). Biology and Genetic Characterization of Fish Herpesviruses and Iridoviruses
20. COAST Fish Club (2010). Biology, Systematics, Ecology, and Husbandry of Leaf-fishes.
21. Hubbs SeaWorld Marine Research Institute (2009). Biology and Genetic Characterization of the Fish and Amphibian Herpesviruses
22. Oregon State University SVM (2009). Biology and Genetic Characterization of Fish Herpesviruses and Iridoviruses.
23. University of California, Davis CVM (2009). Fish Medicine Course, Viral Diseases in Fish
24. Oregon State University SVM (2009). Fish Medicine Course, Viral Diseases in Fish
25. COAST Fish Club (2009). Biology of Loaches
26. UC Davis Center for Comparative Medicine (2005). Characterization of a Herpes-like Virus from Koi and Common Carp
27. San Francisco Koi Club (2005). Koi Herpesvirus Disease. San Francisco, CA
28. Greater Seattle Aquarium Society (2005). Biology of Leaf-fishes. Seattle, WA
29. Greater Seattle Aquarium Society (2004). Biology of Loaches. Seattle, WA
30. Santa Clara Koi Club (2004). Koi Herpesvirus Disease. Santa Clara, CA
31. Associated Koi Clubs of America (2004). Koi Herpesvirus Disease. Los Angeles, CA
32. Silicon Valley Aquarium Society (2004). Biology of Loaches. San Jose, CA
33. San Francisco Aquarium Society (2004). Biology of Leaf-fishes. San Francisco, CA
34. Sacramento Aquarium Society (2003). Biology of Leaf-fishes. Sacramento, CA
35. Silicon Valley Aquarium Society (2003). Biology of Leaf-fishes. San Jose, CA
36. Sacramento Aquarium Society (2002). Jaw Adaptations in Cichlid Fishes. Sacramento, CA

## Teaching Responsibilities and Experience

1. University of Florida CVM, Veterinary Microbiology (VEM5141). Lectures given include “Introduction to Virology”, “Diagnostic Virology and Vaccinology”, “Herpesviridae”, “Poxviridae”, “Parvoviridae/Circoviridae”. Course co-coordinator since 2012.
2. University of Florida, SeaVet Clinical Training Course. Lectures given include “Aquazoonoses”, and “Infectious Diseases of Finfish”. 2013.
3. University of Florida College of Public Health & Health Professions, One Health Certificate Program, Lecture given: “Aquazoonoses”; 2011, 2012, 2013.
4. University of California, Davis. SAVMA Symposium Instructor. 2011.
5. University of California, Davis. 16<sup>th</sup> Wildlife and Aquatic Animal Medicine Symposium Wetlab Instructor. 2010.
6. University of California, Davis. Undergraduate Introductory Biology (BIS2A) and Microbiology (MIC101) teaching assistant. 2002, 2003.
7. University of California, Davis. Introductory Ecology (EVE101), Lecture given “Adaptive Radiations in Cichlid Fishes”. 2001.
8. Florida State University. Undergraduate Introductory Biology Teaching Assistant. 1997, 1998.
9. Florida State University. Marine Biology Wetlab Instructor. 1997.

## Scholarly Service and University Governance

1. Grant Reviewer, USDA-NIFA Animal Health Panel B, 2013.
2. Global Ranavirus Consortium founding and executive board member for North America, Fundraising/Travel/Reimbursement committee for the 1<sup>st</sup> and 2<sup>nd</sup> International Ranavirus Meeting, 2011, 2013.
3. Organized 37<sup>th</sup> EFHW Continuing Education Workshop: World Organization for Animal Health: Understanding the OIE, 2012.
4. Member, International Committee on the Taxonomy of Viruses Iridoviridae Study Group, 2012 - present.
5. Member, International Committee on the Taxonomy of Viruses *Herpesvirales* Study Group, 2012- present.
6. Member, AVMA Aquatic Veterinary Medicine Committee (AqVMC) representing Public Health/Epidemiology. Education subcommittee chair, AVMA/AVMF/WAVMA scholarship chair, AVMA Convention planning committee chair, 2011- present.
7. Assistant Editor, Journal of Wildlife Diseases, 2011-present.
8. Ad Hoc Reviewer (since 2009): Journal of Aquatic Animal Health, Journal of Fish Diseases, Viral Genes, Journal of General Virology, Journal of Veterinary Diagnostic Investigation.
9. University of Florida CVM, Aquatic Animal Health Club Faculty Advisor. 2013-present.

10. University of Florida CVM, Technology Advisory Committee, 2013-present.
11. University of Florida Liaison to the One Health Initiative (<http://www.onehealthinitiative.com>), 2011-2012.

## Grants Funded

1. <b>Waltzek TB</b> (Dual-PI), Walsh MT (Dual-PI)	Florida Fish and Wildlife Conservation Commission	“Training in the Care of Marine Mammals” 06/30/2012-06/30/2015	\$2,594,143
2. <b>Waltzek TB</b> (PI)	State of Wisconsin, Department of Natural Resources	“Development of a quantitative PCR method to assess the effectiveness of best management practices in reducing cutthroat trout virus (CTV) transmission” 06/30/2013-06/30/2013	\$28,867
3. Stillwell J (Mentee), <b>Waltzek TB</b>	CVM 2013 Summer Veterinary Scholars Research Grant Competition	“Characterization of novel herpesvirus in Atlantic Salmon” 06/1/2013-08/1/2013	\$2,500
4. Watson CA (PI), <b>Waltzek TB</b> (Co-I)	Columbus Zoo and Aquarium Conservation Fund	“Marine Ornamental Fish Egg Collection and Larval Rearing” 01/2012-12/2012	\$5,000
5. <b>Waltzek TB</b> (PI), Wellehan JFX (Co-PI)	Florida Atlantic University	“Metagenomic Detection of Emerging Viral Pathogens among Bottlenose Dolphins” 08/1/2012-07/31/2013	\$25,000
6. Wellehan, JFX (PI) <b>Waltzek TB</b> (Co-PI), Gray GC (Co-PI), Innis CJ (Co-I), Merigo C. (Co-I), Moore M (Co- I), Goertz CEC (Co-I), McFee W (Co-I)	US Department of Commerce Prescott Award	“Viral respiratory disease in stranded marine mammals and potential anthroponotic or domestic animal origin” 08/1/2012-07/31/2014	\$133,334
7. <b>Waltzek TB</b> (PI), Wellehan JFX (Co-PI).	Association of Reptilian and Amphibian Veterinarians	“In Vitro Efficacy of Cidofovir against Frog Virus 3 (FV3)” 05/1/2012-05/1/2013	\$3,000

8. <b>Waltzek TB (PI).</b>	United States Department of Agriculture Education Development Grant	“World Organization for Animal Health: Understanding the OIE” 2013	\$4,400
9. <b>Waltzek TB (PI).</b>	Florida Department of Agriculture and Consumer Services	“Sturgeon Aquaculture Infrastructure Development” 06/2012-09/2013	\$21,882

### Graduate and Postdoctoral Advisees

Natalie Steckler	PhD student	Committee Chair	anticipated graduation 2017
Abigail Clark	PhD student	Committee Member	anticipated graduation 2017
Luke Trimmer-Smith	PhD student	Committee Member	anticipated graduation 2017
Felipe Hernandez	PhD student	Committee Member	anticipated graduation 2017
Dhani Prakoso	PhD student	Committee Member	anticipated graduation 2015
Galaxia Hinojosa-Cortes	PhD student	Committee Member	anticipated graduation 2014
Roberto Brenes	PhD student	Committee Member	graduated 2013
Preeyanan Sriwanayos	MS student	Committee Member	graduated 2012
Natalie Steckler	Postdoc	Research Advisor	completed 2013

### Veterinary Student Advisees

Lauren Brown	Class of 2017
Valentina Henao	Class of 2017
Alexandra Soli	Class of 2017
Sofia Gaviria	Class of 2016
Jacob Saunders	Class of 2016
Chelsea Hawkins	Class of 2016
Erica Moore	Class of 2016
Justin Stilwell	Class of 2016
Kyle Donnelly	Class of 2014

### Undergraduate Advisees

Rachel Henriquez	Anticipated graduation 2017
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### Honor Society Memberships

Phi Beta Kappa	Golden Key Honor Society
Omicron Delta Honor Society	Phi Kappa Phi
Phi Zeta	

### Professional Memberships

American Association of Fish Veterinarians  
World Aquatic Veterinary Medicine Association

International Association for Aquatic Animal Medicine  
American Veterinary Medical Association  
Wildlife Disease Association  
American Society of Ichthyologists and Herpetologists  
Society for Integrative and Comparative Biology  
Sacramento Aquarium Society  
Pacific Coast Cichlid Association  
COAST Fish Club  
American Fisheries Society

### **Personal Interests**

Spending time with my wife and children, travelling, scuba diving, fishing, kayaking, tropical fish keeping, playing volleyball, hiking, mountain biking, snowboarding, and playing racquetball.