

CURRICULUM VITAE

THOMAS B. WALTZEK

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EDUCATION

- 2012 Assistant Professor, Department of Infectious Diseases and Pathology, University of Florida, Gainesville.
2011-12 Virology Postdoctoral Associate, University of Florida, Gainesville.
2010 Ph.D., Comparative Pathology, University of California, Davis. Dissertation: Phylogenetics and Improved Diagnostics of the Cypriniviruses.
2009 D.V.M., School of Veterinary Medicine, University of California, Davis.
2002 M.S., Ecology, University of California, Davis. Thesis: Functional Morphology of Extreme Jaw Protrusion in Neotropical Cichlids.
1998 B.S., Biological Science, Florida State University. Graduated Magna Cum Laude, Honors in the Major, and Honors in Liberal Studies.

RESEARCH INTERESTS

- 1) Characterization of Emerging Aquatic Animal Viruses (EAAVs) using Metagenomics.
- 2) Phylogenomics to study the Biology, Epidemiology, and Evolution of EAAVs.
- 3) Development of Broadly Applicable Diagnostic Methodologies to Track EAAVs.
- 4) Determining the Role that International Commerce of Aquatic Animals Plays in the Emergence of AAVs as it Relates to Global Aquaculture and Ecosystem Health.
- 5) Aquatic Animal Zoonoses, Public Health, One Health.

DIAGNOSTIC EXPERIENCE

- 2011-12 Global Pathogens Laboratory, Virology Postdoctoral Associate, University of Florida, Gainesville, FL.
2011-12 Marine Animal Disease Laboratory, Virology Postdoctoral Associate, University of Florida, Gainesville, FL.
2010 Tropical Aquaculture Laboratory, Fish Disease Diagnostic Laboratory Externship, University of Florida, Ruskin, FL.
2002-11 Fish Health Service, University of California Fish Health Laboratory, Davis.
Diagnostic experiences in California and Florida involved clinical and pathologic work up of cases encompassing a variety of ornamental and foodfish species. Responsibilities included: water quality analysis, cytology, histopathology, microbiology, immunology, virology, and electron microscopy. Many cases required the molecular characterization of novel emerging pathogens. The culmination of this experience lead to my development of a diagnostic software package: Fish Disease Diagnostic Software, Version 1.01.

ADDITIONAL AQUATIC ANIMAL TRAINING

- 2012 Eastern Fish Health OIE Workshop Short Course, Lake Placid, NY.
2011 Eastern Fish Health Workshop Histopathology Short Course, Mount Pleasant, SC.
2010 Eastern Fish Health Workshop Histopathology Short Course, Shepherdstown, WV.
2010 AQUAVET II, Comparative Pathology of Aquatic Animals Stony Brook University, Southampton, NY.
2010 International Association for Aquatic Animal Medicine (IAAAM) Fish Health Workshop, Vancouver, Canada.
2009 Ornamental Fish Medicine Course, Hatfield Marine Science Center, Oregon State University.
2008 Fish and Invertebrate Species Health Symposium, University of California, Davis.

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- 2008 Koi Health Academy: Pond Fish Health for Veterinarians, University of Nevada, Reno.
- 2004 IAAAM Expanding Private Practitioner Opportunities in Fish Medicine, Galveston, TX.
- 2002 Fish Health Management Course, North Carolina State University, Raleigh.
- 2002 AQUAMED Fish Health Course, Louisiana State University, Baton Rouge.
- 2002 Fish Medicine Course, University of California, Davis.
- 1996 Fish Health Course, University of Georgia, Athens.
- 1995 Summer Internship, Tennessee Aquarium Aquarist Internship Program, Chattanooga.

TEACHING EXPERIENCE

- 2012 Guest Lecturer, UF CVM Clerkship, Emerging Viral Diseases of Fish.
- 2012 Guest Lecturer, Fish Health Section Continuing Education Workshop, Emerging Fish Viruses.
- 2012 Guest Lecturer, University of Florida, Certificate Course, Aquatic Animal Zoonoses.
- 2011 Guest Lecturer, St. George's University, Aquatic Animal Zoonoses.
- 2011 Guest Lecturer, University of Kentucky, Aquatic Animal Zoonoses.
- 2011 Guest Lecturer, University of Florida, Certificate Course, Aquatic Animal Zoonoses.
- 2011 Course Instructor, UC Davis. SAVMA Symposium.
- 2010 Course Instructor, UC Davis. 16th Wildlife and Aquatic Animal Medicine Symposium.
- 2009 Guest Lecturer, UC Davis. Fish Medicine Course, Viral Diseases in Fish.
- 2009 Guest Lecturer, Oregon State University. Fish Medicine Course, Viral Diseases in Fish.
- 2002-03 Teaching Assistant, UC Davis. Undergraduate Introductory Biology and Microbiology.
- 2001 Guest Lecturer, UC Davis. Introductory Ecology, Adaptive Radiations in Cichlid Fishes.
- 2001 Guest Lecturer, UC Berkeley. Ichthyology, Jaw Mechanics in Cichlid Fishes.
- 1997-98 Teaching Assistant, Florida State University. Undergraduate Introductory Biology.
- 1997 Marine Biology Lab Instructor, Florida State University. Turkey Point Marine Laboratory.

REFEREED PUBLICATIONS*

- 2012* Andrew J. Davison, et al., **Thomas B. Waltzek**. Comparative Genomics of Carp Herpesviruses. Submitted to the Journal of Virology.
- 2012* Santiago Franchesco, **Thomas B. Waltzek** et al. Does Habitat drive the diversity in teleost fish? An example from the pufferfishes (Tetraodontidae). Submitted to the Journal of Evolutionary Biology.
- 2012* Eric J. Cassiano, Matthew J. Wittenrich, **Thomas B. Waltzek** et al. Advances in marine ornamental fish aquaculture through DNA barcoding. Submitted to Aquaculture.
- 2012* Jan H. Landsberg, Yasunari Kiryu, Kevin Enge, Sarah Reintjes-Tolen, **Thomas B. Waltzek** et al. Co-infection of alveolate parasites and frog virus 3 during an amphibian mortality event in Florida. Submitted to Dis Aquat. Org.
- 2012* **Thomas B. Waltzek** et al. First Detection of a Megalocytivirus in the Orbicular Batfish (*Platax Orbicularis*). Submitted to the Journal of Fish Disease.
- 2012* Myagmarsukh Yondon, et al. **Thomas B. Waltzek**. Isolation and Characterization of H3N8 Equine Influenza A Virus Associated with the 2011 Epizootic in Mongolia. Submitted to the Journal of Influenza and Other Respiratory Viruses.
- 2012* **Thomas B. Waltzek** et al. Development of a Polymerase Chain Reaction Assay to Detect Cyprinid Herpesvirus 1 in Koi and Common Carp. Submitted to the J. Aquat. Anim. Health.
- 2012* John A. Lednicky, **Thomas B. Waltzek** et al. Comparative Analysis of the Full-Length Genome Sequence of a Clinical Isolate of *Human Parainfluenzavirus 4B*. Scientifica in press.
- 2012 Kathleen Hartman and **Thomas B. Waltzek**. Koi Herpesvirus (KHV, CyHV3) Disease. University of Florida EDIS Publication.
- 2012* **Thomas B. Waltzek** et al. Marine Mammal Zoonoses: A Review of Disease Manifestations. In Press Zoonoses and Public Health.
- 2011* **Thomas B. Waltzek** et al. A systemic iridovirus from threespine stickleback (*Gasterosteus aculeatus*) represents a new megalocytivirus species in the family *Iridoviridae*. In press Dis. Aquat. Org.
- 2011* Lesbarrères D. et al., **Thomas B. Waltzek**. Ranavirus: past, present and future. Published online in Biology Letters. Retrieved from rsbl.royalsocietypublishing.org.
- 2011* Mar Marcos-Lopez, **Thomas B. Waltzek** et al. Characterization of a Novel Alloherpesvirus in Atlantic Cod (*Gadus morhua*). J. Vet. Diag. Investi. published online 6 October 2011.

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- 2011* Shane M. Boylan, Craig A. Harms, **Thomas B. Waltzek** et al. Clinical report: hyperplastic adipose lids in mackerel scad (*Decapterus macarellus*). J. Fish Dis. 34.
- 2011* Ng, T. F. F., W. Wheeler, D. Greig D., **Thomas B. Waltzek** et al. Novel anellovirus identified by viral metagenomics in harbor seal (*Phoca vitulina richardsii*) lung samples and its detection in multiple years. J. Gen. Virol. 92.
- 2011 **Thomas B. Waltzek**. Phylogenetics and Improved Diagnostics of the Cypriniviruses. ProQuest Dissertations and Theses Database. (10948).
- 2010 Yanong, R. P. E. and **Thomas B. Waltzek**. Megalocytivirus Infections in Fish, with Emphasis on Ornamental Species. University of Florida University of Florida EDIS Publication FA182. <http://edis.ifas.ufl.edu/fa182>.
- 2009* **Thomas B. Waltzek**, et al. Phylogenetic relationships in the *Alloherpesviridae*. Dis. Aquat. Org. 84.
- 2009* **Thomas B. Waltzek** et al. Development of a polymerase chain reaction assay to detect Cyprinid herpesvirus 2 (CyHV-2) in Goldfish (*Carassius auratus*). J. Aquat. Anim. Health 21.
- 2009* **E. Scott Weber**, Thomas B. Waltzek, et al. **Systemic iridovirus infection in the banggai cardinalfish (*Pterapogon kauderni* Koumans 1933)**. J. Vet. Diag. Investi. 21.
- 2008* Tomofumi Kurobe, **Thomas B. Waltzek**, Ronald P. Hedrick. Revised phylogenetic relationships among herpesviruses isolated in sturgeon. J. Aquat. Anim. Health 20.
- 2007* Aoki, T., I. Hirono, K. Kurokawa, H. Fukuda, R. Nahary, A. Eldar, A. J. Davison, **Thomas B. Waltzek**, et al. Genome sequencing of three koi herpesvirus isolates representing the expanding distribution of an emerging disease threatening koi and common carp worldwide. J. Virol. 81.
- 2007* Corbin C. J., A. L. Hughes, J. R. Heffelfinger, T. Berger, **Thomas B. Waltzek**, et al. Evolution of suiform aromatases: ancestral duplication with conservation of tissue-specific expression in the collared peccary (*Pecari tayassu*). J. Mol. Evol. 65.
- 2006* Ronald P. Hedrick, **Thomas B. Waltzek**, T. S. McDowell. Susceptibility of koi carp, common carp, goldfish, and goldfish X common carp hybrids to cyprinid herpesvirus 2 and cyprinid herpesvirus 3. J. Aquat. Anim. Health. 18.
- 2005* **Thomas B. Waltzek**, et al. Koi Herpesvirus represents a third cyprinid herpesvirus (CyHV-3) in the Family Herpesviridae. J. Gen. Virol. 86.
- 2005* Garry O. Kelley, **Thomas B. Waltzek**, et al. Genetic relationships among herpes-like viruses isolated from sturgeon. J. Aquat. An. Health 17.
- 2005* Ronald P. Hedrick, Oren Gilad, Susan C. Yun, Terry S. McDowell, **Thomas B. Waltzek**, et al. Initial isolation and characterization of a herpes-like virus (KHV) from koi and common carp. Bull. Fish. Res. Agency Supplement No. 2.
- 2004 **Thomas B. Waltzek** and Ronald P. Hedrick. Koi herpesvirus: lack of coordinated international effort to control spread of disease creates uncertainty in worldwide trade of koi. California Veterinarian 58.
- 2003* **Thomas B. Waltzek** and Peter C. Wainwright. The mechanism of extreme jaw protrusion in Neotropical cichlids. J. Morph. 257.
- 2001* Peter C. Wainwright, Lara A. Ferry-Graham, **Thomas B. Waltzek** et al. Evaluating the use of ram and suction during prey capture by cichlid fishes. J. Exp. Biol. 204.

PUBLISHED ABSTRACTS

- 2012 Angelique M. Leone, et al., **Thomas B. Waltzek**. Giant Cell Meningoencephalomyelitis in a Pregnant Andalusian Mare. American College of Veterinary Pathologists Annual Meeting.
- 2012 **Thomas B. Waltzek** et al. Isolation of Frog Virus 3 from pallid sturgeon suggests an interclass host shift. 37th Eastern Fish Health Workshop.
- 2012 Debra L. Miller, Matthew J. Gray, **Thomas B. Waltzek**. Ranaviral disease pathology across classes. 37th Eastern Fish Health Workshop.
- 2012 Roy P.E. Yanong, **Thomas B. Waltzek**, Craig A. Watson. The university of Florida's role in the rising tide conservation initiative. 37th Eastern Fish Health Workshop.
- 2012 Large scale, white catfish (*Amerius catus*) kill in the Ocklawaha river, FL associated with an *Aeromonas* species. 37th Eastern Fish Health Workshop.
- 2012 Matt J. Gray, **Thomas B. Waltzek**, et al. Ranaviruses can be transmitted across ectothermic vertebrate classes. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting.
- 2012 **Thomas B. Waltzek** et al. Isolation of frog virus 3 from pallid sturgeon suggests an interclass host shift. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting.

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- 2012 **Thomas B. Waltzek** et al. US National Surveillance for Influenza Viruses among Marine Mammals. International conference on Emerging Infectious Diseases.
- 2012 **Thomas B. Waltzek** et al. US National Surveillance for Zoonotic Marine Mammal Viruses. Emerging Pathogens Institute Research Day.
- 2012 Kalina Atanasova, Richard Hesse, **Thomas B. Waltzek**. Serological Evidence of Human Infection with Porcine Reproductive and Respiratory Syndrome Virus. Emerging Pathogens Institute Research Day.
- 2012 Gary Heil, **Thomas B. Waltzek** et al. Equine Influenza A Epizootic in Mongolia, 2011: Isolation and Characterization of a H3N8 Virus. Emerging Pathogens Institute Research Day.
- 2012 John A. Lednicky, **Thomas B. Waltzek** et al. Complete Genome Sequence of Human Parainfluenzavirus 4B. Emerging Pathogens Institute Research Day.
- 2012 Thomas B. Waltzek John A. Lednicky, **Thomas B. Waltzek** et al. Complete Genome Sequence of Human Parainfluenzavirus 4B. Emerging Pathogens Institute Research Day.
- 2011 **Thomas B. Waltzek** et al. Isolation of frog virus 3 from pallid sturgeon suggests an interclass host shift. First International Ranavirus Symposium/2011 Joint Meeting of Ichthyologists and Herpetologists.
- 2011 Kelli A. Almes, Richard A. Hesse, **Thomas B. Waltzek**, et al. Fatal Bovine Respiratory Disease with Syncytial Cell Formation: histologic findings with lack of etiologic agent identification. 54th American Association of Veterinary Laboratory Diagnosticians Meeting.
- 2011 Bala Manickam, **Thomas B. Waltzek** et al. Megalocytivirus in Ornamental Fish. American College of Veterinary Pathologists Annual Meeting.
- 2011 William N. Batts, **Thomas B. Waltzek** et al. A Novel Bunyavirus from Goldfish. 52nd Western Fish Disease Workshop.
- 2011 **Thomas B. Waltzek** et al. US national surveillance for influenza viruses among marine mammals. 42nd IAAAM.
- 2011 **Thomas B. Waltzek** et al. Impact of the Megalocytiviruses on the Ornamental Fish Trade. 36th Eastern Fish Health Workshop.
- 2011 **Thomas B. Waltzek** et al. Double-Stranded DNA Viruses of Poikilothermic Viruses. 36th Eastern Fish Health Workshop.
- 2011 Roy P. E. Yanong and **Thomas B. Waltzek**. Megalocytivirus Infections in Florida's Ornamental Fish Industry: An Update. 36th Eastern Fish Health Workshop.
- 2011 Salvatore Frasca Jr., et al., **Thomas B. Waltzek**. Megalocytivirus Infections in Public Aquaria. 36th Eastern Fish Health Workshop.
- 2011 Shane M. Boylan, **Thomas B. Waltzek** et al. Things that go Bump in the night: liquid nitrogen cryotherapy for external proliferative lesions In teleosts. 36th Eastern Fish Health Workshop.
- 2010 **Thomas B. Waltzek** et al. Biology and genetic characterization of the fish and amphibian herpesviruses (Family: *Alloherpesviridae*). 6th ISAAH.
- 2010 **Thomas B. Waltzek** et al. A colony of African cichlids failing to thrive. 6th International Symposium on Aquatic Animal Health.
- 2010 Francesco Santini, Mai Nguyen, **Thomas B. Waltzek** et al. Tempo of diversification and freshwater invasions in pufferfishes (family *Tetraodontidae*). 2010 Evolution Meeting.
- 2010 **Thomas B. Waltzek** et al. Systemic iridovirus infection in the threespine stickleback (*Gasterosteus aculeatus*) represents a new megalocytivirus species in the family *Iridoviridae*. 35th Eastern Fish Health Workshop.
- 2010 **Thomas B. Waltzek** et al. Biology and genetic characterization of the fish and amphibian herpesviruses (Family: *Alloherpesviridae*). 35th Eastern Fish Health Workshop.
- 2010 **Thomas B. Waltzek** et al. IAAAM Annual Marine Species Histopathology Workshop, Systemic iridovirus infection in the threespine stickleback (*Gasterosteus aculeatus*) represents a new megalocytivirus species in the family *Iridoviridae*.
- 2010 **Thomas B. Waltzek** and Ronald P. Hedrick. Herpesviral diseases of Pond Fish. UC Davis Wildlife and Aquatic Animal Medicine Symposium.
- 2007 **Thomas B. Waltzek** et al. Molecular phylogenetic assessment of a systemic iridovirus from the banggai cardinalfish (*Pterapogon kauderni*). 33rd Eastern Fish Health Workshop.
- 2006 **Thomas B. Waltzek** et al. Evolutionary relationships of the fish and amphibian herpesviruses. Merck/Merial National Veterinary Scholar Symposium.
- 2006 Devon A. Young, **Thomas B. Waltzek**, et al. Characterization of a systemic iridovirus from the banggai cardinalfish (*Pterapogon kauderni*). 31st Eastern Fish Health Workshop.

CURRICULUM VITAE

- 2005 **Thomas B. Waltzek**, Garry O. Kelley, Andrew J. Davison, and Ronald P. Hedrick. Evolutionary relationships of the fish and amphibian herpesviruses. 36th Proc. of IAAAM
- 2004 **Thomas B. Waltzek** et al. Relationships of Koi Herpesvirus (KHV) to herpes-like viruses of fish and amphibians. 35th Proc. of IAAAM.
- 2003 Hedrick, R.P., Gilad O. Yun S.C., McDowell, T.S., **Waltzek T.B.** et al. Initial isolation and characterization of a herpes-like virus (KHV) from koi. Report from the International Workshop on Koi Herpesvirus.
- 2001 Peter C. Wainwright, Lara A. Ferry-Graham, **Thomas B. Waltzek** et al. Evaluating suction feeding in fishes. American Naturalist 41.
- 2000 **Thomas B. Waltzek** and Peter C. Wainwright. The functional morphology of jaw protrusion among Neotropical cichlids. American Zoologist 40 (6).

PROFESSIONAL PRESENTATIONS

- 2012 University of Arkansas at Pine Bluff, Exploring the Phylogenomic Diversity of Emerging Fish Viruses.
- 2012 Indonesian Mariculture Research Institute, Impact of Megalocytiviruses on the Ornamental Fish Trade.
- 2012 EFHW, Isolation of Frog Virus 3 from pallid sturgeon suggests an interclass host shift.
- 2012 Georgia Aquarium, Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems.
- 2012 Mississippi State University, Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems.
- 2012 University of Georgia, Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems.
- 2012 University of Florida, Aquatic Animal Viruses: Emerging Threats to Aquatic Industries & Ecosystems.
- 2011 JMIH, Isolation of frog virus 3 from pallid sturgeon suggests an interclass host shift.
- 2011 Florida Wildlife Research Institute, Ranaviral Infections in Poikilothermic Vertebrates.
- 2011 University of Florida, Double-Stranded DNA Viruses of Poikilothermic Vertebrates.
- 2011 IAAAM, US national surveillance for influenza viruses among marine mammals.
- 2011 EFHW, Double-Stranded DNA Viruses of Poikilothermic Viruses.
- 2011 EFHW, Impact of the Megalocytiviruses on the Ornamental Fish Trade.
- 2011 California Department of Fish and Game, OIE reportable aquatic animal diseases in California.
- 2011 Western Fisheries Research Center, Biology and genetic characterization of dsDNA viruses in poikilothermic vertebrates.
- 2010 University of Florida, Biology and genetic characterization of fish herpesviruses and iridoviruses.
- 2010 University of Florida, Tropical Aquaculture Laboratory, Biology and genetic characterization of fish herpesviruses and iridoviruses.
- 2010 University of South Florida, Biology and genetic characterization of fish herpesviruses and iridoviruses.
- 2010 American Veterinary Medical Association Annual Convention, Common viral and bacterial diseases in pet fish.
- 2010 American Veterinary Medical Association Annual Convention, Emerging viral diseases in ornamental fish I & II.
- 2010 American Veterinary Medical Association Annual Convention, Fish disease diagnostic software.
- 2010 American Veterinary Medical Association Annual Convention, Clinical cases in aquatic animal medicine.
- 2010 UC Davis Wildlife and Aquatic Animal Medicine Symposium, Viral Diseases of Pond Fish
- 2009 Hubbs SeaWorld Marine Research Institute Seminar, Biology and Genetic Characterization of the Fish and Amphibian Herpesviruses.
- 2009 OSU School of Veterinary Medicine, Biology and genetic characterization of fish herpesviruses and iridoviruses.
- 2005 IAAAM, Evolutionary Relationships of the Fish and Amphibian Herpesviruses.
- 2005 UC Davis Center for Comparative Medicine, Characterization of a herpes-like virus from koi and common carp.
- 2004 IAAAM, Relationships of koi herpesvirus (KHV) to herpes-like viruses of fish and amphibians.
- 2001 Society for Integrative and Comparative Biology, The functional morphology of jaw protrusion among neotropical cichlids.

KOI and AQUARIUM SOCIETY PRESENTATIONS

- 2012 NADA, Infectious diseases of Discus.

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- 2010 COAST Fish Club, Biology, Systematics, Ecology, and Husbandry of Leaf-fishes.
- 2009 COAST Fish Club, Biology of loaches.
- 2005 San Francisco Koi Club, Koi Herpesvirus Disease.
- 2005 Greater Seattle Aquarium Society, Biology of leaf-fishes.
- 2004 Greater Seattle Aquarium Society, Biology of loaches.
- 2004 Santa Clara Koi Club, Koi Herpesvirus Disease.
- 2004 Associated Koi Clubs of America Seminar, Koi Herpesvirus Disease.
- 2004 Silicon Valley Aquarium Society, Biology of loaches.
- 2004 San Francisco Aquarium society, Biology of leaf-fishes.
- 2003 Sacramento Aquarium Society, Biology of leaf-fishes.
- 2003 Silicon Valley Aquarium Society, Biology of leaf-fishes.
- 2002 Sacramento Aquarium Society, Jaw adaptations in cichlid fishes.

SCHOLARLY SERVICE

- 2012 Organized 37th EFHW Continuing Education Workshop: World Organization for Animal Health: Understanding the OIE
- 2012-14 International Committee on the Taxonomy of Viruses Iridoviridae Study Group member
- 2012-14 International Committee on the Taxonomy of Viruses *Herpesvirales* Study Group member
- 2011-14 AVMA Aquatic Veterinary Medicine Committee (AqVMC) member representing Public Health/Epidemiology
- 2011-12 University of Florida Liaison to the One Health Initiative (<http://www.onehealthinitiative.com/about.php>)
- 2011-12 Assistant Editor for the Journal of Wildlife Diseases
- 2012 Adjunct Faculty Member in the Department of Forestry, Wildlife and Fisheries, University of Tennessee
- 2012 Reviewer for the Journal of Aquatic Animal Health
- 2011 Reviewer for the Journal of Fish Disease
- 2010 Reviewer for Viral Genes
- 2009-10 Reviewer for the Journal of General Virology
- 2009 Reviewer for the Journal of Veterinary Diagnostic Investigation

EXTRAMURAL FUNDING, HONORS, and AWARDS

- 2012 Florida Aquaculture Review Council (ARC) Grant, Title: Biosecurity and Emerging Viruses in Florida Finfish Aquaculture (\$150,000 – PENDING)
- 2012 Florida Aquaculture Review Council (ARC) Research Contract, Title: Detection of Emerging Infectious Diseases of Sturgeon (\$21,000)
- 2012 Georgia Aquarium Research Contract, Title: Metagenomic Detection of Emerging Viral Pathogens among Bottlenose Dolphins (*Tursiops truncatus*)(\$30,000)
- 2012 USDA/APHIS Continuing Education Development Grant (\$4,500)
- 2012 Columbus Zoo and Aquarium Conservation Fund, Title: Marine Ornamental Fish Egg Collection and Larval Rearing (\$5,000)
- 2012 John H. Prescott Stranding Assistance Grant, Title: Viral Diseases in Stranded Marine Mammals and Potential Anthroponotic or Domestic Animal Origin (\$100,000)
- 2011 American Reptile and Amphibian Veterinarian Research & Conservation Grant. Title: In Vitro Efficacy of Cidofovir against Frog Virus (\$3,000 – PENDING).
- 2011 UF Postdoctoral Research Seed Grant (\$10,000)
- 2011 Florida Tropical Fish Farmers Association Research Grant (\$1,000)
- 2010 California Organization of Aquatic Show Tropicals Research Grant (\$200)
- 2010 Mark Tomasello/George W. Barlow Research Grant (\$500)
- 2010 John L. Pitts Veterinary Student/Recent Graduate Scholarship
- 2009 Merck Achievement Award, UC Davis.
- 2009 Wilds Scholastic Award, UC Davis.
- 2009 AVMA Achievement Award, UC Davis.
- 2007 Best Student Presentation, 33rd Eastern Fish Health Workshop.
- 1999-10 Block Grant Funding, UC Davis.
- 2000-02 Elected Physiological Ecology Student Representative, UC Davis.
- 1999 Non-resident tuition waiver, UC Davis.

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- 1997 McAllister Research Scholarship, FSU.
- 1997 McCaffrey Research Scholarship, FSU.
- 1996 Independent Research Travel Award, FSU.
- 1995 Highest Academic Achievement Award, FSU.

PERSONAL and PROFESSIONAL INTERESTS

Travel, Scuba diving, Fishing, Kayaking, Tropical fish keeping, Volleyball, Hiking, Mountain biking, Snowboarding, and Racquetball.

HONOR SOCIETY MEMBERSHIPS and PROFESSIONAL MEMBERSHIPS

Phi Beta Kappa, Golden Key Honor Society, Omnicron Delta Honor Society, Phi Kappa Phi, Phi Zeta, World Aquatic Veterinary Medicine Association, American Veterinary Medical Association, International Association for Aquatic Animal Medicine, American Society of Ichthyologists and Herpetologists, Society for Integrative and Comparative Biology, Sacramento Aquarium Society, Pacific Coast Cichlid Association, and COAST Fish Club.