

Noel Yoko Takeuchi

Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
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EDUCATION

2007 – 2012	University of Florida PhD Veterinary Medical Sciences College of Veterinary Medicine, Physiological Sciences, Aquatic Animal Health Program Center for Environmental and Human Toxicology	Gainesville, FL
2005 – 2007	University of New England MS Marine Science	Biddeford, ME
1998 - 2002	University of California at Davis BS, Animal Science Specializing in companion and captive animal management Minor in Japanese	Davis, CA

RELEVANT WORK EXPERIENCE

2013 - Present	Adjunct Lecturer University of Tampa, Department of Biology, FL, USA <ul style="list-style-type: none">Biology for majors non-majors (BIO 124)
2010 - 2011	Laboratory Instructor University of Florida, Department of Animal Sciences, FL, USA <ul style="list-style-type: none">Reproductive Physiology for majors (ANS 3319)
2005 - 2007	Laboratory Instructor University of New England, Department of Biology, ME, USA <ul style="list-style-type: none">Biology for majors (BIO 101) and non-majors (BIO 104)
2003 - 2006	Veterinary Technician Harbor Animal Hospital, CA, USA <ul style="list-style-type: none">Assisted veterinarians with surgeries, euthanasia, and restraining of companion animals, pocket pets, reptiles, and avian speciesResponsible for drug and vaccine administration, blood draws, catheter placements, radiographs, dental cleanings, and blood, urine and fecal analysis
2003	Rehabilitation and Veterinary Technician Intern Alaska SeaLife Center, AK, USA <ul style="list-style-type: none">Assisted veterinarians and staff with the rehabilitation of marine mammal and avian speciesResponsible for medication administration, tube feedings, and blood analysis
2001	Wildlife Rehabilitation Technician Intern Island Wildlife Natural Care Centre, British Columbia, Canada <ul style="list-style-type: none">Involved in the care and rehabilitation of various mammalian and avian species
2000 - 2002	Animal Care Crew Volunteer The Marine Mammal Center, CA, USA <ul style="list-style-type: none">Involved in the care and feeding of sick, injured and orphaned pinnipeds
2000 - 2002	Night Nursery Technician California Regional Primate Research Center, CA, USA <ul style="list-style-type: none">Night Nursery Research Technician collecting nutrition data of juvenile and baby rhesus macaques

RESEARCH EXPERIENCE

- 2013 – Present Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Harmful Algal Bloom Group, FL, USA
- Validate alternative methodologies, such as ELISAs, for regulatory Neurotoxic Shellfish Poisoning testing
- 2013 Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Marine Mammal Pathobiology Laboratory, FL, USA
- Assisted in manatee necropsies and sample collection
 - Involved in manatee rescue, transport, and carcass recovery
- 2012 Endeavour Award Postdoctoral Research Fellow
University of Queensland, National Research Centre for Environmental Toxicology, Queensland, Australia
Mentor: Caroline Gaus, PhD, *Trace metal control in Paenungulata*
- Involved in dugong health assessments in Moreton Bay
 - Primary investigator for dugong gene cloning and sequencing utilizing molecular techniques, such as RNA purification, RT-PCR, primer design, gel electrophoresis, and bacterial cultures
- 2009 National Science Foundation East Asia and Pacific Summer Institutes Program Fellow, University of Queensland, National Research Centre for Environmental Toxicology, Queensland, Australia
Mentor: Susan Bengston Nash, PhD, *Persistent organic pollutants in Humpback whales (Megaptera novaeangliae)*
- Involved in humpback whale biopsy sample collections in Moreton Bay
 - Assisted graduate research student in persistent organic pollutants
- 2007-2012 Graduate Research Assistant
University of Florida, College of Veterinary Medicine, FL, USA
Advisor: David Barber, PhD, *Trace metal concentrations and the physiological role of zinc in the West Indian manatee (Trichechus manatus)*
- Involved in molecular techniques, including qPCR, gene cloning and sequencing, gel electrophoresis, Western Blot, and enzyme purification and activity assays
 - Primary investigator for trace metal analysis in manatees and elephants using ICP-MS
- 2007- 2011 Graduate Research Assistant
University of Florida, College of Veterinary Medicine, FL, USA
Mentor: Iske Larkin, PhD
- Responsible for vegetation surveys in Crystal River, Florida and obtained vegetation samples for toxicological and GIS analysis
 - Utilized GPS and radio transmitters for manatee tracking with recording of manatee behavior and fecal collections
- 2005 – 2007 Graduate Teaching Assistant
University of New England, Department of Biological Sciences, ME, USA
Advisor: Kathryn Ono, PhD, *Dietary analysis of artificial harbor seal (Phoca vitulina) formulas with a focus on circulating retinol and α -tocopherol levels*
- Analysis of retinol and α -tocopherol in harbor seal serum and seal formulas during rehabilitation using Kjeldahl method, lipid analysis and HPLC
 - Collaborated work with the Smithsonian Zoo, Mystic Aquarium and the University of Rhode Island
- 2005 Research Volunteer Assistant
California State University, Long Beach, Department of Biological Sciences, CA, USA
Mentor: Esteban Fernandez-Juricic, PhD
- Behavior and Conservation Laboratory working with avian species

AWARDED RESEARCH SUPPORT

2012	Endeavour Postdoctoral Research Award, Australian Government Department of Education, Employment and Workplace Relations, University of Queensland
2010	Lerner Gray Grant for Marine Research, American Museum of Natural History
2009	East Asia and Pacific Summer Institutes Program, National Science Foundation and the Australian Academy of Sciences, University of Queensland
2008	College of Veterinary Medicine Team Building Grant
2007	Board of Education Fellowship, Office of Graduate Minority Programs, University of Florida
2006	Norcross Wildlife Foundation, The A.V. Stout Fund

SELECT PRESENTATIONS

2012	2 nd SETAC Australasia Conference, Brisbane, Australia “Trace metal concentration and phylogeny of metallothionein cDNA in Paenungulata species” – Poster
2011	Florida Student Chapter for the Society of Marine Mammalogy Student Research Symposium, Gainesville, FL, USA “Trace metals in the Florida manatee (<i>Trichechus manatus latirostris</i>) and the use of metallothionein as a potential biomarker of metal exposure” - Oral
2009	International Association of Aquatic Animal Medicine, San Antonio, TX, USA “Trace metal baseline levels in the Florida manatee (<i>Trichechus manatus latirostris</i>) from four different locations with comparison to other aquatic animals in Florida waters” – Oral
2009	International Sirenian Conservation Conference, Atlanta, GA, USA “Evaluation of trace metals in the Florida manatee (<i>Trichechus manatus latirostris</i>) from the Gulf Coast” – Oral
2007	Northeast Biological Sciences Graduate Student Conference, Dalhousie University, Nova Scotia, Canada “Circulating levels of vitamin A and E in rescued harbor seal, <i>Phoca vitulina</i> , pups” – Oral

PUBLICATIONS

In Prep	Takeuchi, N., O'Shea, T., Bonde, R., deWit, M., Beck, C., Barber, D. Trace metals in tissues of free-ranging Florida manatees (<i>Trichechus manatus latirostris</i>) and its environment: Thirty year prospective of trace metals in the Florida manatee.
In Prep	Takeuchi, N.Y., Walsh, M.T., Bonde, R.K., Powell, J.A., Barber, D.S. Clinical reference range for trace metal concentrations in whole blood of wild and captive West Indian manatees (<i>Trichechus manatus</i>) in Florida and Belize.
2011	Takeuchi, N.Y., Ono, K.A., Barber, D.S. Circulating retinol and α -tocopherol levels in rescued harbor seal (<i>Phoca vitulina</i>) pups consuming artificial formula. <i>Journal of Wildlife Rehabilitation</i> 31(3): 15-22.
2011	Wiedner, E.B., Takeuchi, N.Y., Isaza, R., Barber, D.S. Baseline levels of trace metals in blood of captive Asian elephants (<i>Elephas maximus</i>). <i>Journal of Zoo and Wildlife Medicine</i> 42(2): 360–362.