

# Noel Yoko Takeuchi

Florida Fish and Wildlife Conservation Commission  
Fish and Wildlife Research Institute  
100 8<sup>th</sup> Avenue SE, St. Petersburg, Florida 33701  
(727) 892-4923 | Noel.Takeuchi@myfwc.com

## EDUCATION

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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

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

## 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  $\alpha$ -tocopherol levels*
- Analysis of retinol and  $\alpha$ -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

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- 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

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- 2012 2<sup>nd</sup> 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 (*Trichechus manatus latirostris*) 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 (*Trichechus manatus latirostris*) 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 (*Trichechus manatus latirostris*) 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, *Phoca vitulina*, pups” – Oral

PUBLICATIONS

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- In Prep Takeuchi, N., O’Shea, T., Bonde, R., deWit, M., Beck, C., Barber, D. Trace metals in tissues of free-ranging Florida manatees (*Trichechus manatus latirostris*) 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 (*Trichechus manatus*) in Florida and Belize.
- 2011 Takeuchi, N.Y., Ono, K.A., Barber, D.S. Circulating retinol and  $\alpha$ -tocopherol levels in rescued harbor seal (*Phoca vitulina*) pups consuming artificial formula. *Journal of Wildlife Rehabilitation* 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 (*Elephas maximus*). *Journal of Zoo and Wildlife Medicine* 42(2): 360–362.