

CURRICULUM VITAE

9/13

ROBERT W. DICKEY

PERSONAL

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EDUCATION

Ph.D., Botany/Plant Physiology, Southern Illinois University, Carbondale, 1984
M.S., Biology/Biological Sciences, Southern Illinois University, Carbondale, 1980
B.S., Zoology/Animal Biology, Southern Illinois University, Carbondale, 1977

PROFESSIONAL EXPERIENCE

2013-present Director, Marine Science Institute, The University of Texas at Austin, Port Aransas, Texas.
2013-present Chair and Professor, Department of Marine Science, The University of Texas at Austin, Port Aransas, Texas.
2007-2013 Director, FDA Gulf Coast Seafood Laboratory and Division of Seafood Science and Technology.
2009-2010 Deputy Senior Science Advisor (Acting), Office of the Center Director, FDA Center for Food Safety and Applied Nutrition.
2000-2006 Supervisor, FDA Chemical Hazards Research Unit.

PROFESSIONAL ACTIVITIES

Organizing (Select)

2013 Executive organizing committee for the Gulf of Mexico Oil Spill and Ecosystems Science Conference, New Orleans, LA
2013 International Scientific Committee for the Fifth Joint Symposium and AOAC Presidential Task Force on Marine and Freshwater Toxins Analysis, European Reference Laboratory, University of Vigo, Baiona-Vigo, Spain

- 2012 Intergovernmental Oceanographic Commission (IOC/UNESCO) Task Force on Marine Biotoxins, Chemistry, Toxicology and Methods
- 2011 Organizing Committee, Deepwater Horizon Oil Spill Principal Investigator Workshop, Ocean Science and Technology Interagency Policy Committee, St. Petersburg, FL
- 2010 Principal author of FDA response plan & protocol for seafood safety following the 2010 Deepwater Horizon oil spill; corresponding author and spokesman for interagency, Gulf State and Congressional communications; FDA spokesman for seafood safety risk analysis and results; science advisor to FDA Commissioner and U.S. Surgeon General Office, 2010– 2013
- 2009 Agency delegate to the Ocean Science and Technology Interagency Policy Committee (NSTC, National Ocean Council), 2007-13
- 2009 Development oversight of CFSAN Research Strategic and Operational Plan; corresponding author to the General Accounting Office on 2007 National Academy of Sciences/Institute of Medicine Report of the Subcommittee on Science and Technology “FDA Science Mission at Risk”, 2009-2010
- 2005 Special projects lead for the FDA response to national concerns for the safety of seafood in the aftermath of Hurricanes Katrina and Rita; coordinated state and federal partners to assess seafood safety in Louisiana, Mississippi, and Alabama, 2005-06
- 2004 FDA delegate to the expert panel for the Joint FAO/IOC/WHO Expert Consultation on Biotoxins in Molluscan Bivalves. The National Veterinary Institute, Oslo, Norway, 2004
- 2004 FDA delegate to the expert panel and co-author for the National Plan for Algal Toxins and Harmful Algal Blooms, Charleston, SC, 2004.

Speaking and Panels (Select)

- 2013 Speaker/Panelist, Gulf of Mexico Oil Spill and Ecosystem Science Conference, New Orleans, LA
- 2012 Speaker/Panelist, Deepwater Horizon Second Year Report Card Symposium, Nicholls State University, Thibodaux, LA
- 2012 Speaker, Dispersant Workshop for VA/MD Eastern Shore, Marine Science Consortium, Wallops Island, MD/VA
- 2011 Speaker/Panelist, Deepwater Horizon Oil Spill Principal Investigator One Year Update Workshop, sponsored by the NSTC Subcommittee on Ocean Science and Technology, St. Petersburg, FL
- 2011 Speaker, Society for Risk Analysis, Charleston, SC
- 2011 Speaker, Society on Environmental Toxicology and Chemistry, Pensacola, FL;
- 2011 Keynote Speaker, Sixth Symposium on Harmful Algal in the U.S., The University of Texas at Austin, Austin, TX
- 2011 Panelist/Author, Workshop on the future of dispersant use in spill response, NOAA – Coastal Response Research Center, Mobile, AL
- 2011 Speaker, Saskatoon International Workshop on Validation and Regulatory Analysis, Calgary, Canada
- 2008 Speaker/Panelist, International Conference on Ciguatera and Related Biotoxins, Noumea, New Caledonia

2006 Speaker, Panelist, NOAA & Florida Fish and Wildlife Conservation Commission, Conference on *Karenia brevis* Red Tides, Future Research Directions, Sarasota, FL

PUBLICATIONS 2003-2013

- Ylitalo, G.M., M.M. Krahn, W.W. Dickhoff, J.E. Stein, C.C. Walker, C.L. Lassitter, E.S. Garrett, L.L. Desfosse, K.M. Mitchell, B.T. Noble, S. Wilson, N.B. Beck, R.A. Benner, P.N. Koufopoulos, and R.W. Dickey. 2012. Federal seafood safety response to the Deepwater Horizon oil spill. *Proc. Natl. Acad. Sci.* 109(50):20274-20279.
- Abraham, A., E.L.E. Jester, H.R. Granade, S.M. Plakas, and R.W. Dickey. 2012. Caribbean ciguatera profile in raw and cooked fish implicated in ciguatera. *Food Chemistry* 131:192-198.
- Azziz-Baumgartner, E., G. Liber, L. Conklin, T.R. Tosteson, H.R. Granade, R.W. Dickey, and L.C. Backer. 2012. Assessing the incidence of ciguatera fish poisoning with two surveys conducted in Culebra, Puerto Rico during 2005 and 2006. *Environ. Health Perspect.* 120(4):526-529.
- Dickey, R.W. 2012. FDA risk assessment of seafood contamination at the BP oil spill. *Environ. Health Perspect.* 120(2):54-55.
- Dickey, R.W. and W.W. Dickhoff. 2012. Dispersant and seafood safety: assessment of the potential impact of COREXIT[®] oil dispersants on seafood safety. In: The future of dispersant use in oil spill response initiative. Coastal Response Research Center, Research Planning Incorporated, National Oceanic and Atmospheric Administration, 252pp.
- Dickey, R.W. and S.M. Plakas. 2010. Ciguatera: A Public Health Perspective. *Toxicol* 56:123-136.
- Plakas, S.M. and R.W. Dickey. 2010. Advances in monitoring and toxicity assessment of brevetoxins in shellfish. *Toxicol* 56:137-149.
- Friedman, M.A., L.E. Fleming, M. Fernandez, P. Bienfang, K. Schrank, R. Dickey, M.Y. Bottein, L. Backer, R. Ayyar, R. Weisman, S. Watkins, R. Granade, and A. Reich. 2008. Ciguatera Fish Poisoning: Treatment, Prevention and Management. *Marine Drugs* 6:456-479.
- Dickey, R.W. 2008. Ciguatera Toxins: Chemistry, Toxicology and Detection. In: Seafood and Freshwater Toxins: Pharmacology, Physiology, and Detection, Luis M. Botana, Ed. CRC Press – Taylor and Francis, Second Edition, pp. 479-500.
- Abraham, A., S.M. Plakas, Z. Wang, E.L.E. Jester, K.R. El Said, H.R. Granade, M.S. Henry, P.C. Blum, R.H. Pierce, and R.W. Dickey. 2006. Characterization of polar brevetoxin derivatives isolated from *Karenia brevis* cultures and natural blooms. *Toxicol* 48:104-115.
- Landsberg, J.H., S. Hall, J.N. Johannessen, K.D. White, S.M. Conrad, J.P. Abbott, L.J. Flewelling, R.W. Richardson, R.W. Dickey, E.L. Jester, S.M. Etheridge, J.R. Deeds, F.M. Van Dolah, T.A. Leighfield, Y. Zou, C.G. Beaudry, R.A. Benner, P.L. Rogers, P.S. Scott, K. Kawabata, J.L. Wolney, and K.A. Steidinger. 2006. Saxitoxin puffer fish poisoning in the United States, with the first report of *Pyrodinium bahamense* as the putative toxic source. *Environ. Health Perspect.* 114:1502-1507.

- Perez-Arellano, J.L., O.P. Luzardo, A. Perez Brito, C. Hernandez Cabrera, M. Zumbado, C. Carranza, A. Angel-Moreno, R.W. Dickey, and L.D. Boada. 2005. First report of ciguatera fish poisoning in West-African coast: a public health concern in the Canary Islands (Spain). *Emerg. Infect. Dis.* 11:1981-1982.
- LePage, K.T., R.W. Dickey, W.H. Gerwick, E.L. Jester, and T.F. Murray. 2005. On the use of Neuro-2a Neuroblastoma Cells versus Intact Neurons in Primary Culture for Neurotoxicity Studies. *Crit. Rev. Neurobiol.* 17:27-50.
- Wang, Z., S.M. Plakas, K.R. El Said, E.L.E. Jester, H.R. Granade, and R.W. Dickey. 2004. LC/MS Analysis of Brevetoxin Metabolites in the Eastern Oyster (*Crassostrea virginica*). *Toxicon* 43:455-465.
- Dickey, R.W., S.M. Plakas, E.L.E. Jester, K.R. El Said, J.N. Johannessen, L.J. Flewelling, P. Scott, D.G. Hammond, F.M. Van Dolah, T.A. Leighfield, Y. Bottein, J.S. Ramsdell, M.D. Busman, P. Moeller, R.H. Pierce, M.S. Henry, M.A. Poli, C. Walker, J. Kurtz, J. Naar, D.G. Baden, S.M. Musser, P. Truman, M.A. Quilliam, D. Stirling, T.P. Hawryluk, M.M. Wekell, J.M. Hungerford, and K. Yoshitomi. 2003. Multi-Laboratory Study of FIVE Methods for 6th Determination of Brevetoxins in Shellfish Tissue Extracts. In: Harmful Algae 2002. Proceedings of the Xth International Conference on Harmful Algae. Steidinger, K.A., J.H. Landsberg, C.R. Thomas, and G.A. Vargo (Eds). Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO.
- Plakas, S.M., K.R. El Said, E.L.E. Jester, Z. Wang, P.E. Eilers, H.R. Granade, and R.W. Dickey. 2003. Brevetoxin metabolism and elimination in the eastern oyster (*Crassostrea virginica*): implications for methods development. In: Harmful Algae 2002. Proceedings of the Xth International Conference on Harmful Algae. Steidinger, K.A., J. H. Landsberg, R.C. Tomas, and G.A. Vargo (Eds.). Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO.
- Wang, Z., K.R. El Said, S.M. Plakas, and R. W Dickey. 2003. Sample Preparation Methods for Analysis of Brevetoxins in Oysters by LC/MS. In: Harmful Algae 2002. Proceedings of the Xth International Conference on Harmful Algae. Steidinger, K.A., J.H. Landsberg, C.R. Tomas, and G.A. Vargo (Eds.). Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO.
- Nicholson, R.A., L.S. David, S.M. Plakas, K.R. El Said, E.L.E. Jester, and R.W. Dickey. 2003. An assay for the Brevetoxin Group of Sodium Channel Activators Based on Measurement of Membrane Depolarization in Synaptoneuroosomes. In: Proceedings of the Eighth Canadian Workshop on Harmful Marine Algae. Bates, S.S. (Ed.). Canadian Technical Report of Fisheries and Aquatic Sciences 2498.
- Wang, Z., S.M. Plakas, K.R. El Said, E.L.E. Jester, H.R. Granade, and R.W. Dickey. 2003. LC/MS Analysis of Brevetoxins and their Metabolites in the Eastern Oyster (*Crassostrea virginica*). Second Symposium on Harmful Marine Algae in the U.S. Woods Hole, MA. December 9-13, 2003.
- Dickey, R.W., Z. Wang, S.M. Plakas, K.R. El Said, E.L.E. Jester, and H.R. Granade. 2003. Assessment of methods for the determination of Neurotoxic Shellfish Poisoning (NSP) toxins in the Eastern Oyster (*Crassostrea virginica*). Asia-Pacific Economic Cooperation HABTech Workshop. Nelson, New Zealand. November 26-30, 2003.