

**CEC SCIENCE ADVISORY PANEL  
FOR COASTAL & MARINE ECOSYSTEMS IN CALIFORNIA  
SCIENCE ADVISORY PANEL MEMBER BIOGRAPHIES**

**BIOCHEMIST**

**Dr. Nancy Denslow**

Professor

Dept. of Physiological Sciences and Center for Environmental and Human Toxicology  
University of Florida

Education:

Postdoctoral Fellow, University of Florida

Ph.D., Biochemistry, University of Florida

M.S., Biochemistry, Yale University

B.S., Chemistry, Mary Washington College

Dr. Denslow previously served for 15 years as the Director of the Protein Chemistry and Molecular Biomarkers Core Facility at the University of Florida. She currently serves on the Executive Board of the Association for Biomolecular Research Facilities (ABRF) and is a member of the Society of Environmental Toxicology and Chemistry (SETAC), Society of Toxicology (SOT) and American Association for Biochemistry and Molecular Biology (ASBMB). Her research interests include discovering biomarkers at both the mRNA and protein levels that relate to exposure of fish to environmental contaminants. In particular she is interested in defining molecular mechanisms of action of endocrine disrupting compounds that adversely affect reproduction. Her research covers both sex hormone receptor mediated and independent mechanisms. Favorite model systems include largemouth bass, fathead minnow, sheepshead minnow and zebrafish. Common research tools include microarrays, real time PCR, proteomics, tissue culture based assays, transfections and in vivo determination of reproductive endpoints. In addition, Dr. Denslow has initiated research to understand the effect of nanomaterials on fish health. For this research, zebrafish microarray analysis is used as a tool to suggest global pathways that may be affected by exposure. These experiments are integrated with others looking at gill function, histopathology, nanomaterial uptake and nanomaterial characterization. She has published more than 120 peer-reviewed publications and has led research projects supported by NIH/NIEHS, NSF, USEPA, and the U.S. Army Corps of Engineers. Dr. Denslow also serves as Associate Editor for *Comparative Biochemistry and Physiology Part D Toxicogenomics* and *Ecotoxicology and Environmental Safety*, and received the Pfizer Award for Research Excellence in 2007.