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Professor
Environmental Toxicology
Department of Environmental Sciences
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DATE OF BIRTH: 12-30-61

EDUCATION

Ph.D. Biochemical Toxicology; Oregon State University, June 1989
B.S. Toxicology; Northeast Louisiana University, May 1984

Postdoctoral Fellow: Duke University 1989-1991

EMPLOYMENT

2000-present; Professor, Environmental Toxicology, Department of Environmental Sciences, University of California, Riverside

1999-2000 Program Coordinator of Environmental Toxicology Program, Environmental and Community Health Research Program, School of Pharmacy, University of Mississippi

1998-2000 Associate Professor of Pharmacology and Toxicology, University of Mississippi (University, MS).

1998-2000 Coordinator for the Graduate Program in Pharmacology, University of Mississippi (University, MS)

1995-1998 Assistant Professor of Pharmacology and Toxicology University of Mississippi (University, MS).

1991-1995 Assistant Professor Toxicology, University of Arkansas for Medical Sciences (Little Rock, AR).

1989-1991 Postdoctoral Fellow, Duke University Marine Laboratory, Integrated Toxicology Program,(Beaufort, N.C.).

1986-1989 Predoctoral Fellow, Oregon State University, Toxicology Program (Corvallis, OR).

1985-1986 Research Assistant, Oregon State University, College of Pharmacy (Corvallis, OR).

1984-1985 Research Assistant, Oregon State University, Department of Environmental Engineering (Corvallis, OR).

ACADEMIC HONORS

NIEHS Postdoctoral Fellow, Duke University 1989-1991

NIEHS Predoctoral Fellow, Oregon State University 1986-1989

Visiting Scholar Department of Biochemistry; Chinese University of Hong Kong 1995; 1998; 1999

Ray Lankester Investigatorship -Marine Biological Association of the United Kingdom 1998

Visiting Scholar of the Instituto Del Mare, Venice Italy 1999

University of Mississippi; School of Pharmacy, Faculty Research Award, 1999-2000.

Member of Eleventh International Pollution Responses in Marine Organisms Symposium Scientific Advisory Committee, Plymouth, United Kingdom 2001, 2007, 2009.

George E. Brown, Jr. Award (UC-MEXUS) Co-PI with J. Garcia-Hernandez 2001

Visiting Scholar CSIRO Laboratory Lucas Heights, Australia 2003

Invited participant in the Joint SETAC-SOT Pellston Workshop on Emerging Molecular and Computational Approaches for Cross-Species Extrapolations. Portland, OR July 18-22, 2004.

Keynote Speaker: 5th International Conference on Marine Pollution and Ecotoxicology, City University of Hong Kong June 3-6, 2007

Keynote Speaker: Symposium on Molecular Chirality 2008, Okayama University, Japan May 22-23, 2008

Keynote Speaker: 6th International Conference on Marine Pollution and Ecotoxicology, City University of Hong Kong May 31-June 3, 2010

Fellow American Association for the Advancement of Science 2010

SOCIETY MEMBERSHIPS AND OFFICES

Member of Society of Environmental Toxicology and Chemistry, 1992-present

Founding Board Member and Secretary/Treasurer Mid-South SETAC 1995-1996; Vice President 1996-1997; President 1998-1999

Member of Society of Toxicology, 1987-present

Member of the International Society for the Study of Xenobiotics 1999-2009

Member Society of Environmental Toxicology and Chemistry Education Committee
1998- 2001.
Member Society of Environmental Toxicology and Chemistry Organizing Committee for
Nashville 2000; Platform Session Co-chair
Secretary and Member of South Central Chapter of Society of Toxicology 1999-2000.
Board Member of Southern California Regional Chapter of the Society of
Environmental Toxicology and Chemistry 2001-2004.
Member of Organizing Committee (Plenary Session) for the 2002 annual meeting of the
Southern California Regional Chapter of the Society of Environmental
Toxicology and Chemistry
Board member of Southern California Regional Chapter of the Society of Toxicology
2002-2004.
Vice President of Southern California Regional Chapter of the Society of Environmental
Toxicology and Chemistry 2004
President of Southern California Regional Chapter of the Society of Environmental
Toxicology and Chemistry 2005
Member of the Board of Directors for the North American Society of Environmental
Toxicology and Chemistry 2003-2006
Member of the Board of Trustees for the SETAC North America Board of Endowment
Fund 2006-present
Co-Organizer 16th International Symposium for Pollution Responses in Marine
Organisms. Long Beach, CA May 15-18, 2011.

EDITORIAL RESPONSIBILITIES

Co-Editor in Chief- *Aquatic Toxicology* (2005-2011)

Editorial Board: *Toxicological Sciences* (2000-present), *Marine Environmental Research*
(2000-present), *Aquatic Toxicology* (2001-present), *Environmental Toxicology and
Chemistry* (2003-2005), *Asian Journal of Ecotoxicology* (2006-present).

Ad Hoc reviewer for:

*Molecular Pharmacology; Ecological adaptations; Biomarker; Neurotoxicology and
Teratogenicity; Archives of Environmental Contamination and Toxicology; Comparative
Biochemistry and Physiology; Drug Metabolism and Disposition; Biochemical
Pharmacology; Journal of Aquatic Animal Health; Toxicology and Applied
Pharmacology, Environmental and Molecular Mutagenesis, Gene, Journal of Toxicology
and Environmental Health, Environmental Science and Technology, Biochemistry and
Biophysics Acta, International Journal of Environmental Analytical Chemistry,
Physiological Zoology, Human and Ecological Risk Assessment, Science of the Total
Environment, Naturwissenschaften, Environmental Pollution. Chemico-biological
Interactions, Marine Pollution Bulletin, Journal of Molecular Evolution, Chemical
Research in Toxicology, Integrated Environmental Assessment and Management,
Pesticide Biochemistry and Physiology, Ecotoxicology and Environmental Safety,*

Bulletin of Environmental Contamination and Toxicology, Environmental Impact Assessments, Hydrobiologia, Expert Opinions in Drug Metabolism and Toxicology

INTERNATIONAL REVIEW PANELS

International Steering Committee for University of Waterloo “Determining the efficacy of emerging contaminant removal within existing treatment trains relevant to Canadian conditions through chemical and toxicological assessments.”.(2010-2013). Canadian Water Network Grant Review (2007; 2009) National Environmental Research Council , United Kingdom (2008); National Science Foundation, South Africa (2009); The Faculty of Science at University of Gothenburg (2009)

FEDERAL REVIEW PANELS

Permanent Member USEPA FIFRA Science Advisory Panel (2007-present)

Ad hoc reviewer NIEHS Freshwater Biomedical Centers (1996); US Department of Agriculture (1997-2000) and National Science Foundation (1996-present). NOAA Oceans and Human Health Initiative Grant Review Panel (2005); USEPA Endocrine Disrupter Mixtures Grant Review Panel (2005); USEPA Science Advisory Board Aquatic Life Criteria Guidelines (2005); NIEHS P30 Core-Center Applications (2008)

STATE OR FOUNDATION REVIEW PANELS

Ad Hoc reviewer for California SEAGRANT (1999-present); Woods Hole SEAGRANT (1994-present); Delaware SEAGRANT (1992); Hudson River Foundation (2000); TMDL review for Diazinon in Chollas Creek, CA (2001); University of California Marine Council (2001-2006); California Surface Waters Ambient Monitoring Program Scientific Planning and Review Committee (2002); California Aquatic Pesticide Monitoring Scientific Advisory Panel (2002-2004); UC Water Resources Research Institute (2003-2005); Environmental Effects Panel, San Francisco Estuary Institute (2005-present). Technical Advisory Committee, Santa Ana Regional Water Quality Control Board (2006). Pelagic Organism Decline Advisory Committee (2007-2010), National Water Research Institute Scientific Advisory Panel (2008-present). Blue-Ribbon Panel for Contaminants of Emerging Concern in Recycled Water for the State of California (2009-2010). Blue Ribbon Panel for the Ecological Effects of Contaminants of Emerging Concern (2010-2011).

INVITED PRESENTATIONS (**International engagements in bold**)

1989 **Third Institute of Oceanography, Xiamen University, Xiamen, China.**

1989 **Plymouth Marine Laboratory, Plymouth, United Kingdom.**

1991 Department of Biology, University of Arkansas Little Rock, Little Rock, AR.

1991 U.S. Fish and Wildlife Fish Farming Experimental Laboratory, Stuttgart, AR.

1992 Department of Biochemistry, University of Arkansas for Medical Sciences, Little Rock, AR.

1992 Department of Pharmacology and Toxicology, Northeast Louisiana University, Monroe, LA.

1992 US FDA National Center for Toxicological Research, Jefferson, AR.

1992 Toxicology Program, Oregon State University, Corvallis, OR.

1993 Southern Regional Research Center, US Department of Agriculture, New Orleans, LA.

1993 Department of Pharmacology and Toxicology, Medical College of Wisconsin, Milwaukee, WI.

1993 Department of Biochemistry, Louisiana State University, Baton Rouge, LA.

1994 Department of Biology University of Central Arkansas, Conway, AR.

1994 **International Association for Great Lakes research, Basic and Applied Aspects of Aquatic Biotechnology Symposium, Windsor, Ontario.**

1994 Society of Environmental Toxicology and Chemistry, Biotransformation: Influence on Bioaccumulation and Toxicity. Denver CO.

1995 Southern States Mercury Task Force, Jackson, MS.

1995 Department of Pharmacognosy, University of Mississippi, Oxford, MS.

1995 College of Veterinary Medicine, Mississippi State University, Starkville, MS.

1995 Southeastern Regional Chapter of Society of Toxicology, University of Georgia, Athens, GA.

1995 **Department of Biochemistry, The Chinese University of Hong Kong.**

1996 Department of Biology, University of Mississippi, Oxford, MS.

1996 Arkansas Chapter of the American Fisheries Society, Arkansas State University, Jonesboro, AR.

1996 Department of Biology, University of Memphis, Memphis, TN.

1997 Northeast Louisiana University, Division of Toxicology, Monroe, LA.

1997 **European Society for Comparative Physiology and Biochemistry: Third International Symposium on: Research for Aquaculture: Fundamental and Applied Aspects, Barcelona, Spain.**

1998 Department of Environmental and Molecular Toxicology, Oregon State University, Corvallis OR

1998 **2nd International Conference on Marine Pollution and Ecotoxicology Hong Kong, China**

1998 **Marine Biological Association of the United Kingdom Plymouth UK**

1998 **Department of Biochemistry, The Chinese University of Hong Kong**

1998 Department of Pharmacology, University of Mississippi

1999 Trimethylaminuria Workshop; National Institutes of Health, Bethesda MD.

1999 Instructor for Aquatic Toxicology Workshop; 10th International Pollution Responses in Marine Organisms Symposium, College of William and Mary, Williamsburg, VA

1999 Center for Bioenvironmental Research, Tulane University, New Orleans, LA

1999 **Beijing School of Pharmacy, Beijing Medical University, Beijing China**

1999 **Department of Biochemistry, The Chinese University of Hong Kong**

1999 Department of Biology Ouachita Baptist University, Arkadelphia, AR

1999 Department of Biology, Rhodes College, Memphis, TN

1999 **Instituto Del Mare, Venice Italy**

1999 Nicolas School of the Environment, Duke University, Durham, North Carolina

1999 Nicolas School of the Environment, Duke University Marine Laboratory, Beaufort, North Carolina

- 2000 Oregon Department of Environmental Quality Task Force on the Use of Biomarkers in determine sediment quality criteria in Portland Harbor and the lower Willamette River System, OR; Portland, OR.
- 2000 Department of Pharmacognosy, University of Mississippi, University, MS.
- 2000 Environmental Toxicology Program University of California, Davis
- 2000 Environmental Chemistry/Toxicology Seminar, University of California, Riverside, CA
- 2000 USDA National Salinity Laboratory, Riverside, CA
- 2001 Southern California SETAC, Irvine, CA
- 2001 Southern California Coastal Water Research Project, Westminster, CA
- 2001 Moldova State University, Moldova**
- 2001 Environmental Monitoring and Assessment Program Symposium, USEPA Pensacola Beach, FL
- 2001 Hudson River Foundation, New York, NY
- 2001 City of Hope Cancer Research Center, Duarte, CA.
- 2002 2nd International Trimethylaminuria Workshop, National Institutes of Health, Bethesda, MD
- 2002 Water Education Foundation; Association of Groundwater Agencies; Managing Groundwater Basins for Water Quality and Supply, Ontario, CA
- 2002 European Society of Environmental Toxicology and Chemistry, Vienna Austria**
- 2002 Institute of Zoology, Moldova Academy of Sciences, Moldova**
- 2002 Southern California SETAC annual meeting: Symposium: Pharmaceuticals in the Environment UC-Riverside
- 2002 Sixth International Symposium on Cytochrome P450 Biodiversity, Los Angeles (UCLA), CA
- 2002 UC-Toxics Marine Toxicology Symposium, Bodega Marine Laboratory, CA
- 2002 Department of Environmental Engineering Seminar Series, UC-Berkeley, CA
- 2002 Integrated Toxicology Program, Duke University Durham, NC
- 2002 Department of Biological Sciences, Redlands University, Redlands, CA
- 2002 Toxicology Program; University of California, Irvine, Irvine, CA
- 2003 CWEA Specialty Topics Conference on Emerging Pollutants Endocrine Disrupting Chemicals/Pharmaceuticals, El Camino Country Club, Oceanside, CA
- 2003 Southern California Association of POTWs. Emerging Pollutants, OCS&D, Fountain Valley, CA
- 2003 California Association of Sanitation Agencies; Emerging Pollutants, Yosemite, CA.
- 2003 Australian Society of Ecotoxicology Regional Chapter Meeting, Sydney, Australia**
- 2003 Department of Chemistry Woolongong University, Woolongong, Australia**
- 2003 CSIRO Center of Analytical Chemistry Adelaide, Australia**
- 2004 University of California Water Resources Research Institute Board of Directors Meeting, Ontario, CA.
- 2004 International Society of the Study of Xenobiotics Symposia on Environmental Xenobiotic Metabolism Vancouver, British Columbia, Canada**
- 2004 Coastal Marine Toxicology Symposium, UC-Davis, Bodega Marine Laboratory, Bodega Bay, CA.
- 2004 VIII Brazilian Ecotoxicology Meeting, Florianopolis, Brazil**

- 2004 Department of Zoophysiology University of Gothenburg, Gothenburg, Sweden**
- 2005 Orange County Sanitation District “Fate of Pharmaceuticals in the Environment” Fountain Valley, CA
- 2005 Schools of Pharmacy and Environmental Health, University of Washington, Seattle, WA
- 2005 3rd International Conference of Ecological Chemistry, Chisinau, Moldova**
- 2005 Texas Institute of Environmental and Human Health, Texas Tech University, Lubbock, TX
- 2005 Canadian Rivers Institute, University of New Brunswick, St. John, Canada**
- 2005 Department of Biology California State University at Long Beach, Long Beach, CA
- 2005 Integrated Graduate Program, University of Turku, Turku Finland.**
- 2005 Industrial Environmental Association/California Manufacturers & Technology Association Conference (Dec 15) San Diego, CA
- 2006 California Water Environment Association’s Emerging Contaminants: Endocrine Disrupting Compounds (EDCs) and Pharmaceutical and Personal Care Products (PPCPs) in Wastewater One –Day Specialty Conference January 12, at Los Angeles County Sanitation Districts, Whittier, CA
- 2006 California Water Environment Association’s Emerging Contaminants: Endocrine Disrupting Compounds (EDCs) and Pharmaceutical and Personal Care Products (PPCPs) in Wastewater One –Day Specialty Conference January 18, at Central Contra Costa Sanitary District, Martinez, CA
- 2006 American Chemical Society Western Region, Jan 24, Orange, CA
- 2006 Aquatic Toxicology Course, California State University at Long Beach March 14, Long Beach, CA
- 2006 Department of Chemistry, University of California, Riverside, CA May 5.
- 2006 Santa Ana Regional Water Quality Control Board, Riverside, CA July 20.
- 2006 World Oceans Conference, Long Beach, CA September 19.
- 2006 Physicians for Social Responsibility, Metropolitan Water District, Los Angeles, CA September 28.
- 2006 Aquatic Toxicity Workshop on Selenium, Jasper, Alberta October 1-5.**
- 2006 Department of Zoology, University of Miami, Ohio. October 12.
- 2006 Department of Molecular and Environmental Biology, Hanyang University Seoul, South Korea October 17.**
- 2006 Department of Biology Korean University, Seoul, South Korea. October 18.**
- 2006 Environmental Toxicology Program, University of Mississippi, Oxford, MS October 27.
- 2006 Orange County Water District Science Advisory Board, Anaheim, CA November 14.
- 2007 Workshop on Trace Organics: Mapping a Collaborative Research Roadmap. WERF, Hyatt Regency Hotel, San Francisco, CA May 17-18.
- 2007 Pharmaceuticals and Personal Care Products in the Environment Symposium, California EPA Department of Toxic Substances Control, Sacramento, CA May 22.
- 2007 5th International Conference on Marine Pollution and Ecotoxicology, City University of Hong Kong June 3-6.**
- 2007 Guangzhou Institute of Geochemistry Chinese Academy of Sciences**

- Guangzhou, China June 7.**
- 2007 Recursos del Mar, Cinvestav, Unidat Merida, Mexico July 24.**
- 2007 CSU-Environmental Physiology and Toxicology Workshop, Catalina Island Nov 9-21
- 2008 Symposium of Molecular Chirality 2008, Okayama University, Japan May 22-23**
- 2008 Puschino State University, Moscow, Russia May 27**
- 2008 Southern Nevada Water Authority, Las Vegas, NV August 19.
- 2008 National Center for Ecological Analysis and Synthesis, Santa Barbara, CA Sept 4.
- 2008 Plenary Speaker, Calfed Bay Delta Annual Symposium, Sacramento, CA Oct 22.
- 2009 Invited Speaker: State of the Science. Managing Contaminants of Emerging Concern in California: A Workshop to Develop Processes for Prioritizing, Monitoring, and Determining Thresholds of Concern April 28-29, 2009 Costa Mesa, CA
- 2009 Invited Speaker Micropol & Ecohazard 2009; 6th International Water Association/Groundwater Resources Association of California Specialized Conference on Assessment and Control of Micropollutants/Hazardous Substances in Water, San Francisco, CA June 10.
- 2010 Invited Speaker Santa Ana Watershed Project Authority; Jan 21, 2010. Riverside, CA
- 2010 Invited Speaker College of Veterinary Medicine, Oklahoma State University, Stillwater, OK Jan 26, 2010.
- 2010 Invited Speaker American Chemical Society, Emerging Contaminants in California's Coastal and Estuarine Ecosystems San Francisco, CA Mar 25, 2010
- 2010 Invited Speaker Department of Zoology, Southern Illinois University, Carbondale, IL Apr 22, 2010.
- 2010 Invited Speaker: Department of Pesticide Regulation, Sacramento CA May 10, 2010
- 2010 Invited Speaker: California Green Chemistry Workshop; Indicators of Ecotoxicity Hazards and Exposure Potential, Office of Environmental and Human Health Assessment, Berkeley, CA May 11, 2010
- 2010 Invited Speaker: Northern California Society of Environmental Toxicology and Chemistry, Berkeley, CA May 13, 2010
- 2010 Invited Speaker Interagency Ecological Program Symposium, Sacramento State University, Sacramento, CA May 25, 2010.
- 2010 Webinar California Water Quality Monitoring Collaboration Network, May 27, 2010
- 2010 6th International Conference on Marine Pollution and Ecotoxicology, City University of Hong Kong May 31-June 3.**
- 2010 International Workshop on Emerging Contaminants, Xiamen University Dec 14-15.**
- 2010 Department of Biochemistry, Chinese University of Hong Kong Dec 16.**
- 2011 Environmental and Occupational Health Department Technical Symposium on Pharmaceuticals and Personal Care Products in Water Supplies: Potential Impacts and Sustainable Solutions, California State University of Northridge Feb 16.
- 2011 Society of Toxicology Special Symposium: Emerging Issues at the Intersection of Reproductive and Mixtures Toxicology, Washington DC. Mar 7-10.
- 2011 Department of Environmental Sciences, Baylor University Mar 17

2011 Department of Biology University of Alberta, Edmonton, Canada Apr 6.

GRANTS

CURRENT SUPPORT

--National Institutes of Environmental Health Science: Superfund Basic Research (University of Washington PI) Impact of hypersaline water on pesticide activation in Coho Salmon co-PI 2009-2014 \$310,000.

--Bay Delta Science Program (University of California, Berkeley PI) Impact of urbanization on Chinook salmon, steelhead trout, and their prey: a case study of the American River. Co-PI 2011-2013 \$55,000

PAST SUPPORT

--Arkansas Science and Technology Authority: Basic Science "Metabolism of Off-Flavor Chemicals in Channel Catfish". PI 1992-1993 \$36,780.

--USFDA "Efficacy of Copper Sulfate in Channel Catfish for the Treatment of Tetrahymena Infestations". PI 1993-1994 \$33,250.

--Marine Biological Association of United Kingdom Scientific Fellowship "Role of Flavin-containing Monooxygenase in osmoregulation". PI 1993-1994 \$3,000.

--UAMS Pilot Study Award "Use of Metallothionein as a Biomarker for Heavy Metal Contamination of Aquatic Ecosystems". PI 1993 \$9,000.

--Arkansas Science and Technology Authority/Southern Farmer Services--Applied Science "Potential Feed Additives for Off-Flavor in Catfish". PI 1994-1996 \$54,000.

--University of Mississippi Faculty Small Grant Award "Effect of Arsenic on Metallothionein Expression in Channel Catfish". PI 1995 \$3,000.

--USFDA "Efficacy of Copper Sulfate in Channel Catfish for the Treatment of Ichthyophthirius Infestations". PI 1995-1996 \$31,441.

--Southern Farmers Services, Inc. "Enhancing the Elimination of Off-Flavor from Channel Catfish: A Biochemical Approach". PI 1995-1997 \$52,000.

--United States Environmental Protection Agency "Mississippi EPSCOR Program: Co-PI 1995-1997 \$548,784.

--University of California at Davis Subcontract "Analysis of metallothionein and copper in rainbow trout". PI 1996-1997 \$7,542.

--United States Department of Agriculture "Reduction of 2-Methylisoborneol uptake and induction of MIB metabolism and elimination in catfish". PI 1996-1999 \$60,000.

--Marine Biological Association of United Kingdom Scientific Fellowship
"Role of Flavin-containing Monooxygenase in Osmoregulation". PI 1997 \$1,000.

--National Institutes of Health "Initiative for Minority Student Development" Co-PI
1997-1998 \$467,704.

--Marine Biological Association of United Kingdom Scientific Fellowship
"Role of Flavin-containing Monooxygenase in Osmoregulation". PI 1998 \$1,000.

--Hudson River Foundation "Assessment of Environmental Estrogens in the Hudson
River drainage system" PI 1998-1999 \$78,054.

--United States Geological Survey; Mississippi Water Resource Institute "Assessment of
Environmental Estrogens in wastewater: Potential for developmental and Reproductive
Toxicity in Fish" PI 1997-2000 \$157,683.

--United States Department of Agriculture "Environmental Assessment for the Use of
Copper in Fish Aquaculture" PI 1997-2001 \$48,609.

--United States Department of Agriculture "Toxicological Evaluation of a Cyanobacteria-
Specific Biocide. Co-PI 2000-2001 \$22,578.

--Louisiana Crayfish group "Fipronil Toxicity Testing the Crawfish (*Procambarus
clarki*)" 2000-2001 PI \$46,922.

--United States Environmental Protection Agency "Effects of interacting stressors in
agricultural ecosystems: mesocosm and field evaluation of multi-level indicators of
wetland responses" Co-PI 1998-2001 \$897,634

--United States Environmental Protection Agency "Mechanism of salinity induced
toxicity of aldicarb in euryhaline fish" PI 1997-2001 \$263,149.

--New York SEAGRANT "Estrogenicity of Municipal Sewage Treatment Plant
Effluents: Vitellogenic and Estrogen Receptor Responses in Striped Bass" Co-PI 2000-
2001 \$239,151*

--University of California, Division of Agriculture and Natural Resources Hatch Funds
"Relationships between salinity and pesticide accumulation in biota" 2001-2002 PI-
\$8,500.

--Southern California Coastal Water Research Project, "Threshold response of salmonid
fish to dietary selenium for TMDL implementation" PI- 2001-2002. \$17,370*

--University of California Institute for Mexico and the United States (UC-MEXUS) “Effects of contaminants present in the Colorado River Delta on nest success of yuma clapper rails (*Rallus longirostris yumanensis*) and burrowing owls (*Speotyto cunicularia*)” Co-PI 2001-2002 \$25,000.

--United States Civilian Research and Development Foundation “Research on the current status of Biodiversity and Water Quality in Dniester River, Moldova” Co-PI 2001-2002 \$35,000.

--Coastal Marine Institute- Minerals Management Service “Use of Biological Endpoints in Flatfish to Establish Sediment Quality Criteria for Polyaromatic Hydrocarbon Residues and Assess Remediation Strategies” PI-2001-2003 \$129,492.

--Hudson River Foundation. “Characterization of Estrogenic Effluent from Yonkers, NY: Determining the Composition and Potency of Estrogenic Chemicals.” 2002-2003 CoPI- \$72,910.

--University of California Marine Council “Environmental Monitoring and Assessment of Environmental Estrogens in Marine Sediments of California” PI- 2002-2004 \$443,379. (Co-PIs; David Sedlak, Ron Tjeerdema).

--University of California Water Resources Institute “Use of Bioassays to Assess the Water Quality of Wastewater Treatment Plants for the Occurrence of Estrogens and Androgens. 2002-2004 \$58,000

--San Francisco Estuarine Institute “Effects of nonylphenol on the estrogenic activity of selected aquatic pesticides” PI-2003-2005 \$33,980.

--UC Mexus “Effects of contaminants on shellfish fisheries of Baja California Sur” Co-PI 2004-2005 \$10,000.

--Water Environment Research Foundation “Use of Japanese Medaka as an On-Line Screening Platform for the Evaluation of Potable Water” PI-2003-2006 \$309,868. (Co-PIs; David Hinton; Greg Woodside).

--Civilization Research Defense Fund (Department of Defense) “Accumulation and effects of Trace Elements on Fish Growth and Development” PI-2005-2007 \$30,000.

--Southern California Coastal Research Project “Vitellogenin and Histopathology Endpoints in Hornyhead turbot from the Southern California Bight” PI-2007-2008 \$72,000

--Orange County Sanitation District “Utilization of Sublethal Endpoints Across Biological Hierarchies to Evaluate Impacts of Wastewater on Fishery Health” PI-2005-2008 \$150,000.

--USDA/NRI “Enantioselectivity of Current Chiral Insecticides in Soil and Sediment Environment” Co-PI 2005-2008 \$405,000 (PI- Jay Gan).

--National Institutes of Health Superfund (University of Washington PI) Impact of hypersaline water on pesticide activation in Coho Salmon co-PI 2006-2009 \$135,000.

--Southern California Coastal Research Project "Vitellogenin in Hornyhead turbot from the Southern California Bight" PI-2009 \$8,400

--US Army Corp of Engineers "Do ordinance related compounds affect the endocrine system in reptiles?" PI- 2007-2009 \$100,000.

--Calfed Bay Delta Program "Identifying the Causes of Feminization of Chinook Salmon in the Sacramento and San Joaquin River system: Co-PI- 2006-2010 \$1,200,000 (PI-David Sedlak).

---California Department of Water Resources (Michael Anderson PI) Specialized environmental, biological, and technical support for activities related to development of Species Conservation Habitat (SCH) at the Salton Sea.; co-PI 2010-2011 \$92,404.

PUBLICATIONS

1. D. Schlenk and W.H. Gerwick (1986) Dilophic acid, a diterpenoid from the tropical brown seaweed (*Dilophus guineensis*). *Phytochemistry* 26: 1081-1084.
2. D. Schlenk and D.R. Buhler (1988) Cytochrome P-450 and Phase II activities in the gumboot chiton, (*Cryptochiton stelleri*). *Aquatic Toxicology* 13:167-182.
3. D. Schlenk and D.R. Buhler (1989) Determination of multiple forms of cytochrome P 450 in microsomes from the digestive gland of (*Cryptochiton stelleri*). *Biochemical and Biophysical Research Communications* 163:476-480.
4. D. Schlenk and D.R. Buhler (1989) Xenobiotic biotransformation in the Pacific oyster (*Crassostrea gigas*). *Comparative Biochemistry and Physiology* 94C:469-475.
5. D. Schlenk and D.R. Buhler (1990) Flavin-containing monooxygenase activity in the gumbot chiton (*Cryptochiton stelleri*). *Marine Biology* 104:47-50.
6. D. Schlenk and D.R. Buhler (1990) The in vitro biotransformation of 2-aminofluorene in the western oyster (*Crassostrea gigas*). *Xenobiotica* 20:563-572.
7. D. Schlenk, P. Garcia and D.R. Livingstone (1991) Studies on myeloperoxidase activity in the common mussel (*Mytilus edulis*, L.). *Comparative Biochemistry and Physiology* 99C:63-68.
8. D. Schlenk and D.R. Buhler (1991) Flavin-containing monooxygenase activity in the rainbow trout (*Onchorynchus mykiss*). *Aquatic Toxicology* 20:13-24.

9. D. Schlenk and M. Brouwer (1991) Isolation of three copper metallothionein isoforms in the blue crab (*Callinectes sapidus*). *Aquatic Toxicology* 20:25-34.
10. D. Schlenk and D.R. Buhler (1991) Role of flavin-containing monooxygenase in the in vitro biotransformation of aldicarb in the rainbow trout (*Onchorynchus mykiss*). *Xenobiotica* 21:1583-1589.
11. D. Schlenk, D. Erickson, J.J. Lech and D.R. Buhler (1992) The in vivo disposition and biotransformation of aldicarb in rainbow trout (*Onchorynchus mykiss*). *Fundamental and Applied Toxicology* 18:131-136.
12. M. Brouwer, D. Schlenk, A. Ringwood, T. Hoexum-Brouwer (1992) Metal-specific induction of metallothionein isoforms in the blue crab (*Callinectes sapidus*) in response to single and mixed-metal exposure. *Archives of Biochemistry and Biophysics* 294:461-468.
13. D. Schlenk, A.R. Ringwood, T. Brouwer-Hoexum and M. Brouwer (1993) Crustaceans as models for metal metabolism: II. Induction and characterization of metallothionein isoforms from the blue crab (*Callinectes sapidus*). *Marine Environmental Research* 35:7-11.
14. D. Schlenk and D.R. Buhler (1993) Immunological characterization of flavin-containing monooxygenases in the liver of rainbow trout (*Oncorhynchus mykiss*): sexual- and age-dependent differences, and the effect of trimethylamine on enzyme regulation. *Biochimica Biophysica. Acta* 1156:103-106.
15. D. Schlenk and M. Brouwer (1993) Induction of metallothionein mRNA in blue crabs treated with cadmium. *Comparative Biochemistry and Physiology* 104C:317-321.
16. D. Schlenk, M.J.J. Ronis, C.L. Miranda and D.R. Buhler (1993) Channel catfish liver monooxygenases: immunological characterization of constitutive cytochromes P450 and absence of active flavin-containing monooxygenases. *Biochemical Pharmacology* 45:217-221.
17. D. Schlenk (1993) A comparison of endogenous and exogenous substrates of the flavin-containing monooxygenases in aquatic organisms. *Aquatic Toxicology* 26:157-162.
18. D. Schlenk and C.T. Moore (1993) Distribution, uptake and elimination of the herbicide propanil in the channel catfish (*Ictalurus punctatus*). *Xenobiotica* 23:1017-1024.
19. D. Schlenk (1994) Effect of 2-Methylisoborneol on Cytochrome P450 expression in channel catfish (*Ictalurus punctatus*). *Aquaculture* 120:33-44.
20. U.A. Pillai, D. Schlenk, C. Frith, and P.W. Ferguson (1994) Effect of bleomycin-induced fibrosis on pulmonary metabolism of selected xenobiotics. *Journal of the Louisiana State Medical Society* 146:260-267.

21. D. Schlenk and C.T. Moore (1994) The effect of pH on the toxicity of copper sulfate to the ciliate protozoan (*Tetrahymena thermophila*). *Bulletin of Environmental Contamination and Toxicology* 53:800-804.
22. D. Schlenk, J. Bevers, A. Vertino, and C.E. Cerniglia (1994) Cytochrome P450-catalyzed S-oxidation of dibenzothiophene in the fungus (*Cunninghamella elegans*). *Xenobiotica* 24:1077-1083.
23. D. Schlenk and R.Li-Schlenk (1994) Characterization of liver flavin-containing monooxygenase of the smooth dogfish shark (*Squalus acanthus*) and partial purification of liver flavin-containing monooxygenase of the silky shark (*Carcharhinus falciformis*). *Comparative Biochemistry and Physiology* 109B:655-664.
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