

Joseph Anthony Moss
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The University of West Florida
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Pensacola, FL 32514
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EDUCATION

M.S. in Biology, 2005

University of West Florida, Thesis Title: *Stability and Change in Estuarine Biofilm Bacterial Community Diversity*

B.S. Biology, 2001

Florida State University, Tallahassee, Florida

A. S., 1998

Southern Nevada Community College, Las Vegas, Nevada

PROFESSIONAL AND EMPLOYMENT EXPERIENCE

Associate, 2007-

Center for Environmental Diagnostics and Bioremediation (CEDB)
11,000 University Parkway
Pensacola, Florida 32514

Biological Research Contractor, 2005-2007

U.S. E.P.A., Gulf Ecology Division
1 Sabine Island
Gulf Breeze, Florida 32561

Research Technician, 2005

Center for Environmental Diagnostics and Bioremediation (CEDB)
11,000 University Parkway
Pensacola, Florida 32514

Research Assistant, 2002-2005

Microbial Biofilms as Indicators of Estuarine Ecosystem Condition
Supervisor: Dr. Richard A. Snyder
C. E. D. B.
11000 University Parkway
Pensacola, Florida 32514

Research Assistant, 2000
U.S. E.P.A., Gulf Ecology Division
1 Sabine Island
Gulf Breeze, Florida 32561

Research Assistant, 1999-2000
Microzooplankton dynamics in Pensacola Bay/Top Down control in the Microbial Loop of Estuarine Plankton
Biology Department, U.W.F. (Dr. Richard Snyder)
Bldg 58; 117
11000 University Parkway
Pensacola, Florida 32514

Teaching Assistant, U. W. F. (2001-2003)
Courses taught:
Ecology (lab instructor)
Biology (lab instructor)
Cell Biology (lab instructor)

FIELD OF SPECIALIATION(S)

Competent in the development and application of molecular techniques for the analysis of molecular properties of aquatic organisms

Area(s) of expertise

Field sampling design and implementation
DNA, RNA, protein extraction
Advanced PCR-based methodologies
Molecular fingerprinting/DNA analysis (T-RFLP, ARDRA, sequence analysis)
Statistical analysis (univariate and multivariate techniques)
Hydrolab and Fluorometer maintenance, calibration, and repair

QUALIFICATIONS/CERTIFICATION(S)

Environmental Protection Agency Safety Training Certification 2003-2005
Environmental Protection Agency Hazardous Materials Management Certification 2004
University of West Florida Hazardous Materials Certified 2002-2005

COMMUNITY SERVICE

UWF day at the Capital (2004); C.E.D.B. representative
Festival on the Green-University of West Florida, April 2003; C.E.D.B. representative

Project Greenshores-S.A.V. re-introduction volunteer

PROFESSIONAL AFFILIATIONS

Estuarine Research Federation

PROFESSIONAL SERVICE

Manuscript review (scientific journals)

Aquatic Microbial Ecology
Limnology and Oceanography
Microbial Ecology

GRANTMANSHIP

FDA/Estuarine Biofilm Enzyme Activity Assay (2003), Graduate Student Scholarly Activity Award, University of West Florida, \$300

FDA Estuarine Biofilm Enzyme Assay (2002), Graduate Student Scholarly Activity Award, University of West Florida, \$1000

OCEANOGRAPHIC RESEARCH CRUISES

R/V Bold, U.S. EPA. Chief Scientist: Campbell, J.
Gulf of Mexico Hypoxia Study: June, 2006

R/V Nathaniel B. Palmer, Ratheon/N.S.F. Chief Scientist: Jeffrey, W.H.
Pacific Trans-latitudinal expedition: 70°N - 45°S, Aug 20-Oct.15, 2003

R/V Suncoaster, Florida Institute of Oceanography (F.I.O.)
Pensacola Bay, June, 2002
Gulf of Mexico, June, 2002
Mobile Bay, June, 2002

PUBLICATIONS

Meador, JA, Baldwin, AJ, Catala, P, Jeffrey, WH, Joux, F, **Moss, JA**, Pakulski, JD, Stevens, R, and Mitchell, DL. 2009. Sunlight-induced DNA damage in marine microorganisms collected along a latitudinal gradient from 70°N to 68°S. *Photochemistry and Photobiology* 1:412-20.

Moss, J.A., Nocker, A., Lepo, J., and Snyder, R.A. 2006. Stability and Change in Estuarine Biofilm Bacterial Community Diversity. *Applied and Environmental Microbiology* Vol. 72, No. 9, p5679-5688.

Baldwin, A. J., **Moss, J. A.**, Pakulski, J. D., Joux, F., Jeffrey, W. H. 2005.
Microbial diversity in a Pacific Ocean Transect from the Arctic to Antarctic Circles
Aquatic Microbial Ecology 41:91-102

In preparation:

Pakulski, J. D., Baldwin A. J., **Moss J.A.**, Stevens R. A., Meador J. A. and
Jeffrey W. H.
Responses of heterotrophic bacteria to solar irradiance along a Pacific Ocean
transect from the Arctic to Antarctic Circles.

Moss, J.A., Nocker, A., and R. A. Snyder. Microbial characteristics of submerged
karst caves in Northern Florida.

ABSTRACTS AND PRESENTATIONS

Snyder, R.A., Lepo, J.E., Moss, J.A. 2008
Traditional field sampling and molecular approaches to MST
Gulf of Mexico Alliance Monitoring Forum, St. Petersburg, Fl, June 3-5

Jeffrey, W. H., Baldwin, A. J., **Moss, J. A.**, Pakulski, J. D., Joux, F. 2005
Diversity in a Pacific Ocean Transect From the Arctic to Antarctic Circles
American Society of Limnology and Oceanography, Santiago de Compostela,
Spain, June 19-24

Moss, J. A., Nocker, A., Lepo, J. E., Snyder, R. A. 2005
Alternating Stable States in Estuarine Biofilm Bacterial Community Structure
SWS-SCC/GERS Joint Society Meeting, Pensacola, April 1-3

Moss, J. A., Nocker, A., Lepo, J. E., Snyder, R. A. 2004
Temporal Variation in Estuarine Biofilm Bacterial Diversity
10th International Symposium on Microbial Ecology ISME-10, Cancun, Mexico
August 23-28

Pakulski, J. D., Baldwin, A. J., **Moss, J. A.**, Stephens, R. A., Meador, J. D.,
Jeffrey, W. H. 2004. Viable Responses of Heterotrophic Bacteria to Surface Solar
Irradiance in the Pacific Ocean. *American Society of Limnology and
Oceanography*, Honolulu, Hawaii, February 17-19

Nocker, A., Lepo, J. E., Martin, L., **Moss, J. A.**, Launder, A.D., Snyder, R. A.
2004

Molecular Analysis of Microbial Biofilm Communities in a Sewage Outfall Impacted Environment in Comparison with a Reference Site in Pensacola Bay, Florida, *104th General Meeting for the American Society of Microbiology*, May

Moss, J. A., Lepo, J. E., Snyder, R. A. 2003. Fluorescein diacetate hydrolysis as a surrogate for microbial heterotrophic activity in estuarine biofilms. *Annual meeting of the Estuarine Research Federation*, Seattle, W.A. September 14-18

Nocker, A., Snyder, R. A., Lepo, J. E., **Moss**, J. A., Huggins, T. 2003 Molecular Analysis of habitat specificity in estuarine microbial biofilm community structures. *Annual meeting of the Estuarine Research Federation*, Seattle, W.A. September 14-18

Snyder, R. A., Lepo, J. E., Nocker, A., Proctor, L., Pennington, L. **Moss**, J., Huggins, T. 2003. Microbial biofilms as indicators of estuarine condition. *Annual meeting of the Estuarine Research Federation*, Seattle, W.A. September 14-18