

Joseph G. Leahy, Ph.D.

Associate Professor
Department of Biological Sciences
University of Alabama in Huntsville
Huntsville, AL 35899

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Education

University of Maryland, Ph.D., Microbiology, 1993 (Dissertation title: Role of lipase in the emulsification of hydrocarbons by *Acinetobacter calcoaceticus* RAG-1).

The Ohio State University, M.S., Civil Engineering, 1985 (Thesis title: "Inactivation of cysts of *Giardia muris* with chlorine and chlorine dioxide").

The Ohio State University, B.S., Environmental Biology, with honors in liberal arts, with distinction in Environmental Biology, 1982 (Thesis title: "Effect of calcium on the toxicity of cadmium to fathead minnows (*Pimephales promelas*)").

Experience

- 10/03-present Associate Professor, Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, Alabama
- 8/97-10/03 Assistant Professor, Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, Alabama
- 10/96-5/97 Adjunct Faculty, Department of Chemical Engineering and Materials Science, Wayne State University, Detroit, Michigan
- 9/93-9/96, 6/97-7/97 Post-doctoral fellow, Department of Microbiology and Immunology, University of Michigan, Ann Arbor, Michigan
- 9/85-8/93 Graduate Research Assistant, Department of Microbiology, University of Maryland, College Park, Maryland
- 9/84-9/85, 1/89-5/89 Graduate Teaching Assistant, Department of Microbiology, University of Maryland, College Park, Maryland
- 9/82-5/84 Graduate Research Associate, Department of Civil Engineering, Ohio State University, Columbus, Ohio
- 6/82-9/82 Environmental Technician I, Ohio Environmental Protection Agency Water Quality Laboratory, Central District, Columbus, Ohio
- 9/81-12/83 Laboratory Technician/Teaching Assistant, Department of Civil Engineering, Ohio State University, Columbus, Ohio

Goal: 25 journal publications and 2000 citations.

Refereed Journal Publications (Published work has been cited 1571 times as of 4/30/15)

- 1. Wisotsky, J. , Taylor-Creel, K., Blake Holloway, W., McFeeters, H., Leahy, J.G., and R.L. McFeeters.** Two phylogenetic clades explain natural product inhibition and computational docking for peptidyl-tRNA hydrolase 1 in pathogenic bacteria. PLOS ONE (manuscript in preparation)
- 2. Leahy, J.G., T.E. Carrington, and M.H. Eley.** 2004. Analysis of volatile and semivolatile hydrocarbons recovered from steam classified municipal solid waste. J. Environ. Qual. **33**:1556-1561. **Cited 2 times.**
- 3. Setzer, W.N., B. Vogler, J.M. Schmidt, R. Rives, and J.G. Leahy.** 2004. Antimicrobial activity of *Artemisia douglasiana* leaf essential oil. Fitoterapia **75**:192-200. **Cited 41 times.**
- 4. Leahy, J.G., Z.M. Khalid, E.J. Quintero, J.M. Jones-Meehan, J.F. Heidelberg, P.J. Batchelor, and R.R. Colwell.** 2003. Concentrations of hexadecane and inorganic nutrients modulate the production of extracellular membrane-bound vesicles, soluble protein, and bioemulsifier by *Acinetobacter venetianus* RAG-1 and *Acinetobacter* sp. strain HO1-N. Can. J. Microbiol.**49**:569-575. **Cited 7 times.**
- 5. Leahy, J.G., P.J. Batchelor, M.C. Setzer, and W.N. Setzer.** 2003. Isolation and characterization of a stilbene-degrading strain of *Pseudomonas fluorescens*, and production of antioxidant compounds by stilbene metabolism. Biosci., Biotechnol., and Biochem. **67**:2286-2287. **Cited 1 time.**
- 6. Leahy, J.G., P.J. Batchelor, and S.M Morcomb.** 2003. Evolution of the soluble diiron monooxygenases. FEMS Microbiol. Rev. **27**:449-479. **Cited 147 times.**
- 7. Leahy, J.G., K.D. Tracy, and M.H. Eley.** 2003. Degradation of volatile hydrocarbons from steam-classified solid waste by a mixture of aromatic hydrocarbon-degrading bacteria. Biotechnol. Lett. **25**:479-483.
- 8. Leahy, J.G., K.D. Tracy, and M.H. Eley.** 2003. Degradation of mixtures of aromatic and chloroaliphatic hydrocarbons by aromatic hydrocarbon-degrading bacteria. FEMS Microbiol. Ecol. **43**:271-276. **Ited 50 times.**
- 9. Leahy, J. G., and G.S. Shreve.** 2000. The effect of organic carbon on the sequential reductive dehalogenation of tetrachloroethylene in landfill leachates. Water Research **34**:2390-2396. **Cited 13 times.**
- 10. Sullivan, E.R., J.G. Leahy, and R.R. Colwell.** 1999. Cloning and sequence analysis of the lipase and lipase chaperone-encoding genes from *Acinetobacter calcoaceticus* RAG-1, and redefinition of a Proteobacterial lipase family and an analogous chaperone family. Gene **230**:277-285. **Cited 29 times.**

11. **Leahy, J.G., G.R. Johnson, and R.H. Olsen.** 1997. Cross-regulation of toluene monooxygenases by the transcriptional activators TbmR and TbuT. *Appl. Environ. Microbiol.* **63**:3736-3739. . **Cited 25 times.**
12. **Leahy, J.G., and R.H. Olsen.** 1997. Kinetics of toluene degradation by toluene-oxidizing bacteria as function of oxygen concentration, and the effect of nitrate. *FEMS Microbiol. Ecol.* **23**:23-30. . **Cited 50 times.**
13. **Leahy, J.G., A.M. Byrne, and R.H. Olsen.** 1996. Comparison of factors influencing TCE degradation by toluene-oxidizing bacteria. *Appl. Environ. Microbiol.* **62**:825-833. . **Cited 77 times.**
14. **Leahy, J.G., J.M. Jones-Meehan, and R.R. Colwell.** 1994. Transformation of *Acinetobacter calcoaceticus* RAG-1 by electroporation. *Can. J. Microbiol.* **40**:233-236.
15. **Leahy, J.G., J.M. Jones-Meehan, E.L. Pullias, and R.R. Colwell.** 1993. Transposon mutagenesis in *Acinetobacter calcoaceticus* RAG-1. *J. Bacteriol.* **175**:1838-1840. . **Cited 15 times.**
16. **Byrd, J.J., J.G. Leahy, and R.R. Colwell.** 1992. Determination of plasmid DNA concentration maintained by nonculturable *Escherichia coli* in marine microcosms. *Appl. Environ. Microbiol.* **58**:2266-2270. . **Cited 12 times.**
17. **Leahy, J.G. and R.R. Colwell.** 1990. Microbial degradation of hydrocarbons in the environment. *Microbiol. Rev.* **54**:305-315. . **Cited 1125 times.**
18. **Leahy, J.G., C.C. Somerville, K.A. Cunningham, G.A. Adamantiades, J.J. Byrd, and R.R. Colwell.** 1990. Hydrocarbon mineralization in sediments and plasmid incidence in sediment bacteria from the Campeche Bank. *Appl. Environ. Microbiol.* **56**:1565-1570. . **Cited 10 times.**
19. **Leahy, J.G., A.J. Rubin, and O.J. Sproul.** 1987. Inactivation of *Giardia muris* cysts by free chlorine. *Appl. Environ. Microbiol.* **53**:1448-1453. . **Cited 20 times.**

Abstracts and Symposia

Damron, N.E., O'Neal, P., Adams, E., & Leahy, J. Microbial Growth in Pediatric Suctioning Devices: What is Really Living in the Suction-Bulb Syringe? 307 Scholarly Inquiry in Nursing, Huntsville, AL. 06/2014

2014 **Damron, N.E., O'Neal, P., Adams, E., & Leahy, J.** Microbial Growth in Pediatric Suctioning Devices: What is Really Living in the Suction-Bulb Syringe? The University of Alabama – Huntsville: Week of Welcome Student Research Open House, Huntsville, AL. 08/2014

2014 **Damron, N.E., O'Neal, P., Adams, E., & Leahy, J.** Microbial Growth in Pediatric Suctioning Devices: What is Really Living in the Suction-Bulb Syringe? ASPIROT (Assessing

Suctioning Processes and Improving Outcomes) Presentation, Huntsville, AL. 08/2014

2014 Damron, N.E., O'Neal, P., Adams, E., & Leahy, J. Microbial Growth in Pediatric Suctioning Devices: What is really living in the suction-bulb syringe? The Research and Creative Experience for Undergraduates Program, Huntsville, AL. September 2014

2014 **Damron, N.E., O'Neal, P., Adams, E., & Leahy, J.** Microbial growth in pediatric suctioning devices: What is really living in the Suction-Bulb Syringe? Sigma Theta Tau Region 8 Conference, Murfreesboro, TN. 10/2014
2014

Damron, N.E., O'Neal, P., Adams, E., & Leahy, J. Microbial Growth in Pediatric Suctioning Devices: What is Really Living in the suction-bulb syringe? Graduate Awards Ceremony – Beta Phi Chapter of Sigma Theta Tau International Honor Society of Nursing, Huntsville, AL.
1February 2014
2015

Damron, N.E., O'Neal, P., Adams, E., & Leahy, J. Microbial growth in pediatric suctioning devices: What is really living in the suction-bulb syringe? Dean Marsha Adams' Formal Reception, Huntsville, AL. January 2015

2015 **Damron, N.E., O'Neal, P., Adams, E., & Leahy, J.** Analyzing the presence of bacterial Colonies Within a neonatal suctioning device: The blue-bulb Syringe. Sothern Nursing Research Society – National Conference, Tampa, FL. February 2015

Lawson, L.W., S. L. Moody, P. J. Batchelor, L. J. Cseke, H. L. White, G. K. Podila, and J. G. Leahy. 2005. Transcriptional regulation of the *tmoXABCDEF* and *pcuCAXB* gene clusters and their cognate regulatory genes in *Pseudomonas mendocina* KR1 by toluene, TCE, and *n*-octane. Abstr. 105th Gen. Meet. Amer. Soc. Microbiol. 2005, Atlanta, GA. American Society for Microbiology, Washington, D.C.

Batchelor, P.J., and J.G. Leahy. 2004. Effects of inducer concentration on the transcriptional activation of the toluene 2,3-dioxygenase operon in *Pseudomonas putida* F1. Partnership for Biotechnology Research Meeting, University of Alabama in Huntsville, Huntsville, AL.

Creekmore, A., D. Marsic, O. Garriott, J.D. Ng, and J.G. Leahy. 2004. Halophilic organisms from the rainbow vent hydrothermal system in the Mid-Atlantic Ridge. Partnership for Biotechnology Research Meeting, University of Alabama in Huntsville, Huntsville, AL.

Moody, S.L., L.J. Cseke, H.L. White, G.K. Podila, and J.G. Leahy. 2004. Transcriptional activation of the genes encoding the toluene 4-monooxygenase pathway in *Pseudomonas mendocina* KR1. Partnership for Biotechnology Research Meeting, University of Alabama in Huntsville, Huntsville, AL. \

Muratet, M.A., H.L. White, L.J. Cseke, and J.G. Leahy. 2004. Bioinformatics at the University of Alabama in Huntsville. Partnership for Biotechnology Research Meeting, University of Alabama in Huntsville, Huntsville, AL.

Tracy, K.D., M.H. Eley, and J.G. Leahy. 2002. Degradation of mixtures of aromatic and chloroaliphatic hydrocarbons by pure culture of toluene-oxidizing bacteria and bacterial isolates from activated sludge. Abstr. 102nd Gen. Meet. Amer. Soc. Microbiol. 2002, Salt Lake City, UT. American Society for Microbiology, Washington, D.C.

Morin, P.J., M.C. Setzer, W.N. Setzer, and J.G. Leahy. 2001. The isolation of a stilbene-degrading bacterium for use in the synthesis of hydroxylated stilbene derivatives. Abstr. 101st Gen. Meet. Amer. Soc. Microbiol. 2001, Orlando, FL. American Society for Microbiology, Washington, D.C.

Leahy, J.G., and S.M. Morcomb. 1999. Phylogeny of the methane, alkene, and aromatic-ring monooxygenases. Abstr. 99th Gen. Meet. Amer. Soc. Microbiol. 1999, Chicago, IL. American Society for Microbiology, Washington, D.C.

Kukor, J.J., J.G. Leahy, and R.H. Olsen. 1997. Metabolism of degradative bacteria optimized for activity in hypoxic, hydrocarbon-contaminated environments. Superfund Basic Research Program: A Decade of Improving Health through Multi-Disciplinary Research, Research Triangle, NC.

Olsen, R.H., J.G. Leahy, G.R. Johnson, A.M. Byrne, and J.J. Kukor. 1997. Genetic adaptations occurring in nature for the metabolism of alkyl-substituted benzenes and related xenobiotic compounds in contaminated aquifers. Superfund Basic Research Program: A Decade of Improving Health through Multi-Disciplinary Research, Research Triangle, NC.

Robinson, E.V., J.G. Leahy, and R.R. Colwell. 1996. Cloning and sequence analysis of the genes encoding a lipase and lipase-specific foldase from *Acinetobacter calcoaceticus* RAG-1. 4th International Symposium on the Biology of *Acinetobacter*. Eilat, Israel.

Olsen, R.H., J.J. Kukor, J.G. Leahy, and G.R. Johnson. 1996. "Natural" genetic engineering for the metabolism of TCE and BTEX hydrocarbons in low oxygen environments. Thirty-Fifth Hanford Symposium on Health and the Environment - Microbial Genome Research and its Applications, Richland, WA.

Olsen, R.H., J.J. Kukor, A.M. Byrne, J.G. Leahy, and G.R. Johnson. 1996. Organization and functional relationships among the toluene monooxygenases and phenol hydroxylases. 96th Gen. Meet. Amer. Soc. Microbiol. 1996, New Orleans, LA. American Society for Microbiology, Washington, D.C.

Leahy, J.G., and R.H. Olsen. 1995. Effects of dissolved oxygen concentration on the degradation of toluene by toluene-oxidizing bacteria. Abstr. 95th Gen. Meet. Amer. Soc. Microbiol. 1995, Washington, D.C. American Society for Microbiology, Washington, D.C.

Robinson, E.V., J.G. Leahy, and R.R. Colwell. 1995. Sequence analysis of the lipase and lipase-specific foldase genes from *Acinetobacter calcoaceticus* RAG-1. Abstr. 95th Gen. Meet. Amer. Soc. Microbiol. 1995, Washington, D.C. American Society for Microbiology, Washington, D.C.

Robinson, E.V., J.G. Leahy, and R.R. Colwell. 1995. Molecular analysis of the lipase in *Acinetobacter calcoaceticus* which is responsible for emulsan modification. In Situ and On-

Site Bioreclamation, Third International Symposium, San Diego, CA.

Leahy, J.G., and R.H. Olsen. 1994. Comparison of trichloroethylene degradation by toluene-oxidizing bacteria. Abstr. 94th Gen. Meet. Am. Soc. Microbiol. 1994, Las Vegas, NV. American Society for Microbiology, Washington, D.C.

Leahy, J.G., J.M. Jones-Meehan, E.L. Pullias, and R.R. Colwell. 1992. Transposon mutagenesis in *Acinetobacter calcoaceticus* RAG-1. 49th Annual Meeting of the Society for Industrial Microbiology, San Diego, CA.

Jones-Meehan, J., M. Walch, T. Davidson, and J. Leahy. 1991. Bioemulsifier production: role and regulation. DOD Bioremediation Technologies Workshop, Ventura, CA.

Leahy, J.G., and R.R. Colwell. 1989. Microbial ecology of hydrocarbon degradation revisited. Biotreatment - The Use of Microorganisms in the Treatment of Hazardous Materials and Hazardous Wastes, 2nd National Conference. Washington, D.C.

Rubin, A.J., J.G. Leahy, G.B. Wickramanayake, and O.J. Sproul. 1988. Comparison of chlorine, ozone and chlorine dioxide for the inactivation of *Giardia* cysts. 1988 Meeting of the American Water Works Association, Orlando, FL. J. Am. Water Works Assoc., **80**:91.

Somerville, C.C., K.A. Cunningham, G.A. Adamantiades, and J.G. Leahy. 1987. Plasmid incidence in bacteria isolated from the Campeche Bank region of the Gulf of Mexico. Abstr. 87th Annu. Meet. Amer. Soc. Microbiol. 1987, Atlanta, GA. American Society for Microbiology, Washington, D.C.

Leahy, J.G., J.J. Byrd, and C.C. Somerville. 1987. Microbial mineralization of ¹⁴C-hydrocarbons in sediments from the Campeche Bank. Abstr. 87th Annu. Meet. Amer. Soc. Microbiol. 1987, Atlanta, GA. American Society for Microbiology, Washington, D.C.

Student Poster Presentations

Barclay, B.A., R.R. Eagly, K.L. Porter, M.R. Davis, D.M. Moriarity, and J.G. Leahy. 2006. Metagenomic cloning of microbial DNA from swamp sediment for the identification of novel anticancer and antifungal compounds. UAH College of Science Student Conference, University of Alabama in Huntsville, Huntsville, AL.

Barclay, B.A., R.R. Eagly, K.L. Porter, M.R. Davis, D.M. Moriarity, and J.G. Leahy. 2006. Metagenomic cloning of microbial DNA from swamp sediment for the identification of novel anticancer and antifungal compounds. Biological Sciences Retreat, Monte Sano State Park, Huntsville, AL.

Eagly, R.R., K.L. Porter, M.R. Davis, B.A. Barclay, D.R. Snyder, D.M. Moriarity, R.O. Lawton, and J.G. Leahy 2006. Metagenomic cloning of microbial DNA from epiphytic soils for the identification of novel anticancer and antifungal compounds. Biological Sciences Retreat, Monte Sano State Park, Huntsville, AL.

Barclay, B.A., R.R. Eagly, K.L. Porter, M.R. Davis, D.M. Moriarity, and J.G. Leahy.

2006. Metagenomic cloning of microbial DNA from swamp sediment for the identification of novel anticancer and antifungal compounds. Research Experience for Undergraduates Poster Session, University of Alabama in Huntsville, Huntsville, AL.

Eagly, R.R., K.L. Porter, M.R. Davis, B.A. Barclay, D.R. Snyder, D.M. Moriarity, R.O. Lawton, and J.G. Leahy 2006. Metagenomic cloning of microbial DNA from epiphytic soils for the identification of novel anticancer and antifungal compounds. Sigma Xi Student Research Day, University of Alabama in Huntsville, Huntsville, AL.

Batchelor, P.J., and J.G. Leahy. 2004. Effects of inducer concentration on the transcriptional activation of the toluene 2,3-dioxygenase operon in *Pseudomonas putida* F1. Sigma Xi Student Research Day, University of Alabama in Huntsville, Huntsville, AL.

Creekmore, A., D. Marsic, O. Garriott, J.D. Ng, and J.G. Leahy. 2004. Halophilic organisms from the rainbow vent hydrothermal system in the Mid-Atlantic Ridge. Sigma Xi Student Research Day, University of Alabama in Huntsville, Huntsville, AL.

Moody, S.L., L.J. Cseke, H.L. White, G.K. Podila, and J.G. Leahy. 2004. Transcriptional activation of the genes encoding the toluene 4-monooxygenase pathway in *Pseudomonas mendocina* KR1. Sigma Xi Student Research Day, University of Alabama in Huntsville, Huntsville, AL.

Roberts, K.M., and J.G. Leahy. 2003. Enrichment and isolation of RDX-degrading bacteria from activated sludge. Louis Stokes Alliance for Minority Participation 2003 Summer Research Conference, Birmingham, AL.

Morin, P.J., M.C. Setzer, W.N. Setzer, and J.G. Leahy. 2002. The isolation of a stilbene-degrading bacterium for use in the synthesis of hydroxylated stilbene derivatives. Sigma Xi Student Research Day, University of Alabama in Huntsville, Huntsville, AL. First Place, Undergraduate Division.

Tracy, K.D., M.H. Eley, and J.G. Leahy. 2001. Enrichment, isolation, and identification of aromatic and chloroaliphatic hydrocarbon-degrading bacteria from activated sludge. Sigma Xi Student Research Day, University of Alabama in Huntsville, Huntsville, AL. First Place, Life Sciences Division.

Rojas, E. 2000. Isolation and identification of bacteria capable of degrading the biomass fraction of steam-classified municipal solid waste. Louis Stokes Alliance for Minority Participation 2000 Summer Research Conference, Birmingham, AL. Third Place, Life Sciences Division.

Nnorom, O. 2000. The use of *Penicillium ochro-chloron* in the bioremediation of contaminated soil. Regional Science Fair, Decatur, AL. Honorable Mention; Intel Excellence in Environmental Science Award.

G;psemeyer, R. 2011. Germs can't take it, but you can. First place, Pope John Paul II CAHAOLic HIGH School Science Fair, Huntsville, AL. Third place, zRegional Science Fair, AHuntsville, AL. Fourth PlAce, Alabama State Sciene Fair, Huntsville, AL.

Nnorom, O. 2000. The use of *Penicillium ochro-chloron* in the bioremediation of contaminated soil. Catholic High School Science Fair, Huntsville, AL. 2nd Place in Division; Association for Women Geoscientists Student Award for Geoscience Excellence.

Aikman, S., and J.G. Leahy. 2000. Northern hybridization analysis of toluene oxygenase mRNA's from toluene-degrading bacteria. 77th Annu. Meet. Alabama Acad. Sci., Samford University, Birmingham, AL.

Aikman, S., and J.G. Leahy. 2000. Northern hybridization analysis of toluene oxygenase mRNA's from toluene-degrading bacteria. Sigma Xi Student Research Day, University of Alabama in Huntsville, Huntsville, AL.

Kersh, A. 1999. Antibiotic resistance in heterotrophic bacteria isolated from a fresh water pond. Louis Stokes Alliance for Minority Participation 1999 Summer Research Conference, Birmingham, AL. Honorable Mention Award, Life Sciences Division.

Invited Lectures, Presentations, and Seminars

"Molecular Physiology of the Toluene-Oxidizing Bacteria and its Application to the Bioremediation of Toluene- and TCE-Contaminated Soil and Groundwater". 1997. Biological Sciences Department, University of Missouri-Rolla, Rolla, MO; Department of Biological Sciences, University of Alabama in Huntsville, Huntsville, AL; Department of Biology and Microbiology, University of Wisconsin-La Crosse, La Crosse, WI.

"Bioremediation of Hydrocarbon-Contaminated Environments: Physiological and Molecular Genetic Approaches." 1996. Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX; Department of Biological Sciences, Northern Illinois University, DeKalb, IL; Department of Chemical Engineering, Wayne State University, Detroit, MI.

"Bioremediation of Oil Spills." 1991. Oil Pollution Control: A Seminar for the Officers and Cadets of the *Kruzenshtern*. National Aquarium, Baltimore, MD.

Journal and Book Reviews

Ad hoc reviewer for:

Bioremediation Journal
Bioresource Technology
Biotechnology Progress
Journal of Hazardous Materials
Marine Biotechnology
Microbial Ecology

Books reviewed:

Degradable Polymers and Materials - Principles and Practice. 2005. American Chemical Society.

Grants and Contracts

2015 Research and Creative Experience for Undergraduate Students. *Interdisciplinary Research with Nursing and Biology: Identification of Effective Disinfectants on Microbial Growth.* \$3200

2014 Cross College Faculty Research grant \$5000: PI – Collaborative to Promote Quality and Safety in Neonatal Suctioning: Bringing Nursing and Biology to the Bench

2014 Research Creative Undergraduate Experience. Microbiology Assessment of Suction Devices. UAH \$3500

Endangered Species ACT, Cooperative Endangered Species Conservation Fund

(Traditional Section Six) administered by the US Fish & Wildlife Service,

Department of the Interior. “An eDNA Survey of Streams in North Alabama to Determine

Possible Presence of the Hellbender.” Stallsmith, B.R., Leahy, J.G., and Matzkin, LM. \$56,660

National Fish and Wildlife service. “An eDNA Survey of Streams in North Alabama to Determine Possible Presence of the Hellbender.” Bruce R. Stallsmith and Joseph G. Leahy. 10/1/2014-9/30/2015. \$56,660. Not funded.

National Science Foundation STTR Program. “Bioaugmentation and biostimulation to enhance the biodegradation of trichloroethylene in soil.” Geoffrey Chew (Streamline automation), Waite Dykes (Streamline Aucomation), and Joseph G. Leahy. 1/1/2014 – 12.31/2014. \$80,000. Not funded.

National Science Foundation - EPSCOR Program, "Alabama Structural Biology Consortium" (Principal Investigator: E. Meehan, Co-Principal Investigators: J. Ng, L. Boyd, R. Magnuson, J. Leahy, W. Setzer, J. Baird, and faculty of the University of Alabama in Birmingham and University of South Alabama). February 1, 2001 - January 31, 2004. \$3,600,000.00.

Alabama Legacy for Environmental Research Trust, “Biological Treatment to Remove Hazardous Chemical By-Products of the Steam Classification Process” Michael H. Eley and Joseph G. Leahy. September 15, 2000 - September 15, 2001. \$60,506.00

Wyle Laboratories, “Determining the Resistance of Plastics to Bacteria.” (Michael H. Eley and Joseph G. Leahy). December 9, 1997 - June 8, 1998. \$6303.00.

DFHS, LLC. "Efficacy of a Proprietary Silver Formulation against Methicillin-Resistant and methicillin-Sensitive Staphylococcus aureus" (Joseph G. Leahy). June 15, 2009 - August 15, 2009. \$5999.00.

DFHS, LLC. "Effect of Redox Systems on the Efficacy of Silver Nitrate as a Microbiocide against Methicillin-resistant Staphylococcus aureus" November 15, 2009 - February 15, 2010. \$21,952.00 aggregate individual funding - \$92,328.00.

2015 Research and Creative Experience for Undergraduate Students. *Interdisciplinary Research with Nursing and Biology: Identification of Effective Disinfectants on Microbial Growth*. \$3200

2014 Cross College Faculty Research grant \$5000: PI – Collaborative to Promote Quality and Safety in Neonatal Suctioning: Bringing Nursing and Biology to the Bench

2014 Research Creative Undergraduate Experience. Microbiology Assessment of Suction Devices. UAH

Grants and Contracts – Other Submissions

National Science Foundation – STR (Small Business Technology Transfer Program). "Degradation of TCE in soil columns under Anoxic conditions with and without amendments." (Principal Investigator: Geoffrey Chew, Streamline Automation, Co-Principal Investigator: Joseph G. Leahy). \$79,999. Status – not funded.

Gene Capture. "detection of methicillin-resistant *Staphylococcus pseudintermedius* using polymerase chain reaction." (Principal investigator: Joseph G. Leahy). \$8579. Status – not funded.

National Fish and Wildlife Service. "An eDNA Survey of Streams in North Alabama to Determine Possible Presence of the Hellbender". (Principal Investigator: Bruce Stallsmith. Co-Principal Investigator: Joseph G. Leahy) \$56,660. Status – not funded.

Consulting:

2014. Prozone, Inc., Huntsville, AL. "Study of the inactivation of 4 species of pathogenic Bacteria by Prozone's portable UV-ozonation system." \$2338.55. Funded.

Instruction

Term	Course	Enrollment	Student Evaluation Score
Fall 1997	BYS 214 - Infection and Immunity	26	84.9
	BYS 692 - Graduate Research	1	
Spring 1998	BYS 214 - Infection and Immunity	11	95.3
	BYS 490 - Senior Seminar	18	94.4
	BYS 492 - Undergraduate Research	1	N/A
	BYS 691 - Special Topics	1	N/A
	BYS 692 - Graduate Research	1	N/A
Summer 1998	BYS 491 - Special Topics	1	N/A
	BYS 492 - Undergraduate Research	1	N/A
	BYS 691 - Special Topics	1	N/A
	BYS 692 - Graduate Research	2	N/A
Fall 1998	BYS 214 - Infection and Immunity	28	92.6
	BYS 221 - General Microbiology I	23	84.4
	BYS 492 - Undergraduate Research	2	N/A
	BYS 691 - Special Topics	1	N/A
	BYS 692 - Graduate Research	1	
Spring 1999	BYS 214 - Infection and Immunity	12	96.9
	BYS 491 - General Microbiology II	9	97.7
	BYS 492 - Undergraduate Research	3	N/A

	BYS 691 - Special Topics	1	N/A
	BYS 692 - Graduate Research	1	N/A
Summer 1999	BYS 492 - Undergraduate Research	2	N/A
	BYS 691 - Special Topics	1	N/A
	BYS 692 - Graduate Research	3	N/A
	BYS 699 - Master's Thesis	1	N/A
Fall 1999	BYS 214 - Infection and Immunity	23	81.6
	BYS 221 - General Microbiology I	22	96.0
	BYS 491 - Special Topics	1	N/A
	BYS 492 - Undergraduate Research	2	N/A
	BYS 691 - Special Topics	1	N/A
	BYS 692 - Graduate Research	2	N/A
	BYS 699 - Master's Thesis	1	N/A

Instruction

Term	Course	Enrollment	Student Evaluation Score
Spring 2000	BYS 214 - Infection and Immunity	16	97.7
	BYS 322 - General Microbiology II	6	98.5
	BYS 491 - General Microbiology ii Lab	2	N/A
	BYS 691 - General Microbiology II	1	N/A
Summer 2000	BYS 492 - Undergraduate Research	1	N/A
	BYS 691 - Special Topics	1	N/A
	BYS 692 - Graduate Research	1	N/A
Fall 2000	BYS 321 - General Microbiology I	18	96.1
Spring 2001	BYS 322 - General Microbiology II	6	97.5
	BYS 691 - Special Topics	2	N/A
Summer 2001	BYS 492 - Undergraduate Research	1	N/A
	BYS 692 - Graduate Research	2	N/A
Fall 2001	BYS 221 - General Microbiology I	14	95.2
Spring 2002			

	BYS 214 - Infection and Immunity	19	94.4
	BYS 322 - General Microbiology II	4	98.8
	BYS 491 - Speacial Topics	2	N/A
	BYS 492 - Undergraduate Research	1	N/A
	BYS 692 - Graduate Research	2	N/A
	BYS 699 - Master's Thesis	1	N/A
Summer 2002			
	BYS 692 - Graduate Research	1	N/A
	BYD 699 - Master's Thesis	2	N/A
Fall 2002			
	BYS 221 - General Microbiology I	23	98.2
	BYS 491 - General Microbiology I	2	
	BYS 490 - Senior Seminar	8	100.0
	BYS 691 - Special Topics	2	N/A

Instruction

Term	Course	Enrollment	Student Evaluation Score
Fall 2002 (cont.)			
	BYS 692 - Graduate Research	2	N/A
	BYS 699 - master's Thesis	2	N/A
Spring 2003			
	BYS 214 - Infection and Immunity	21	95.8
	BYS 322 - GEneral Microbiology II	15	100.0
	BYS 691 - Special Topics	2	N/A
	BYS 692 - Graduate Research	2	N/A
Summer 2003			
	BYS 492 - Undergraduate Research	1	N/A
	BYS 692 - Graduate Research	2	N/A
Fall 2003			
	BYS 221 - General Microbiology I	21	96.0
	BYS 491 - General Microbiology I	2	N/A
	BYS 490 - Senior Seminar	19	90.0
	BYS 691 - Special Topics	2	N/A
Spring 2004			
	BYS 322 – General Microbiology II	14	93.8
	BYS 314 – Infection and Immunity	24	93.4
	BYS 491 – Special Topics	2	N/A

BYS 492 – Undergraduate Research	1	N/A
BYS 691 – Special Topics	2	N/A
BYS 692 – Graduate Research	2	N/A
Summer 2004		
BYS 491 – Special Topics	1	N/A
BYS 492 – Undergraduate Research	1	N/A
BYS 691 – Special Topics	1	N/A
BYS 692 – Graduate Research	1	N/A
Fall 2004		
BYS 321 – General Microbiology I	18	98.4
BYS 491 - General Microbiology I	3	
BYS 490 – Senior Seminar	25	100.0
BYS 691 – Special Topics	2	N/A
BYS 692 – Graduate Research	2	N/A

Instruction

Term	Course	Enrollment	Student Evaluation Score
Spring 2005			
	BYS 214 - Infection and Immunity	9	100.0
	BYS 322 - General Microbiology II	14	93.8
	BYS 491 - Special Topics	1	N/A
	BYS 492 - Undergraduate Research	3	N/A
Summer 2005			
	BYS 692 – Graduate Research	2	N/A
Fall 2005			
	BYS 221 - General Microbiology I	19	95.0
	BYS 491 - General Microbiology I	2	
	BYS 490 - Senior Seminar	18	100.0
	BYS 492 - Undergraduate Research	1	N/A
	BYS 692 - Graduate Research	2	N/A
Spring 2006			
	BYS 214 - Infection and Immunity	24	94.4
	BYS 322 - General Microbiology II	9	94.2
Summer 2006			
	BYS 692 – Graduate Research	1	N/A
	BYS 699 – Master’s Thesis	2	N/A

Fall 2006	BYS 221 - General Microbiology I	20	94.0
	bys 490 - Senior Seminar	13	84.3
Spring 2007	BYS 214 - Infection and Immunity	40	93.4
	BYS 322 - General Microbiology I	24	94.8
Summer 2007	BYS 492 – Undergraduate Research	1	N/A
Fall 2007	BYS 221 - General Microbiology I	24	94.8
	bys 490 - Senior Seminar	14	88.0

Instruction

Term	Course	Enrollment	Student Evaluation Score
Spring 2008	BYS 214 - Infection and Immunity	24	94.2
	BYS 322 - General Microbiology II	26	96.9
Summer 2008	BYS 491 – Special Topics	1	N/A
	BYS 492 – Undergraduate Research	1	N/A
	BYS 691 – Special Topics	1	N/A
Fall 2008	BYS 221 - General Microbiology I	21	97.0
	BYS 490 - Senior Seminar	19	95.9
Spring 2009	BYS 214 - Infection and Immunity	48	98.8
	BYS 322 - General Microbiology II	13	98.9
Summer 2009			
Fall 2009	BYS 221 - General Microbiology I	21	97.0
	bys 490 - Senior Seminar	19	95.9
]2010]	[no courses offered this year]		

Spring 2011	[no courses offered]		
Summer 2011	[no courses offered]		
Fall 2011			
	BYS 221 - General Microbiology I	31	91.0
	BYS 491 - General Microbiology I	7	98.9
Spring 2012			
	BYS 100 - introduction to the Health Professions		N/A
		36	92.7
BYS	BYS 322 - General Microbiology II	11	93.6
BYS 492 - Undergraduate Research		1	N/A
Summer 2012			
	BYS 692 - Graduate Research	1	N/A

Instruction

Term	Course	Enrollment	Student Evaluation Score
Fall 2012			
	BYS 490 – Senior Seminar	9	96.7
Spring 2013			
	BYS 100 - introduction to the Health Professions	79	97.97
	BYS 322 – General Microbiology II	9	94.79
	BYS 491 – Special Topics	1	N/A
	BYS 492 – Undergraduate Research	3	N/A
Summer 2013			
	BYS 492 – Undergraduate Research	1	N/A
	BYS692 – Graduate Research	1	N/A
Fall 2013			
	BYS 321 – General Microbiology I	17	83.85
	BYS 491 (321)	4	
	BYS 490	12	94.52
	BYS 492	1	
	BYS 691	1	
	BYS 692	1	
	BYS 699	1	
Spring 2014			
	BYS 214 – Infection and Immunity	34	91.91
	BYS 322 – General Microbiology II	3	100.00

BYS 491 – General Microbiology II	4	94.17
BYS 691 – General Microbiology II	1	
BYS 492 – Undergraduate Research	2	
BYS 692 – Graduate Research	1	
Summer 2014		
BYS 490 – Senior Seminar	9	95.00
BYS 492 – Undergraduate Research	2	N/A
Fall 2014		
BYS 214 – Infection and Immunity	80	no data
BYS 321 – General Microbiology I	40	no data
BYS 492 – Undergraduate Research	5	no data
BYS 692 – Graduate Research	1	no data

Instruction (cont.)

Term	Course	Enrollment	Student Evaluation Score
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Instruction (cont.)

Term	Course	Enrollment	Student Evaluation Score
Spring 2002 (cont.)			
	BYS 692 - Graduate Research	2	
	BYS 699 - Master's Thesis	1	
Fall 2002	BYS 321 - General Microbiology I	22	95.9
	BYS 490 - Undergraduate Seminar	10	99.5
	BYS 691 - Special Topics	2	
	BYS 692 - Graduate Research	2	
Spring 2003	BYS 214 - Infection and Immunity	21	95.3
	BYS 322 - General Microbiology II	15	98.9
	BYS 691 - Special Topics	2	
	BYS 692 - Graduate Research	2	
Summer 2003	BYS 492 - Undergraduate Research	1	
	BYS 691 - Special Topics	2	
	BYS 692 - Graduate Research	2	
Fall 2003	BYS 321 - General Microbiology I	21	96.3
	BYS 490 - Undergraduate Seminar	19	91.4
	BYS 691 - Special Topics	2	
Spring 2004	BYS 214 - Infection and Immunity	24	95.6
	BYS 322 - General Microbiology II	14	93.4
	BYS 491 - Special Topics	1	
	BYS 492 - Undergraduate Research	1	
	BYS 692 - Graduate Research	2	
	BYS 699 - Master's Thesis	2	
Summer 2004	BYS 491 - Special Topics	1	
	BYS 492 - Undergraduate Research	1	
	BYS 691 - Special Topics	1	
	BYS 692 - Graduate Research	1	
Fall 2004	BYS 321 - General Microbiology I	18	97.7
	BYS 490 - Undergraduate Seminar	25	97.7
	BYS 491 - General Microbiology I	2	
	BYS 691 - Special Topics	2	
	BYS 692 - Graduate Research	2	
Spring 2005	BYS 214 - Infection and Immunity	44	96.1
	BYS 322 - General Microbiology II	4	99.5

BYS 491 - General Microbiology II	5
BYS 492 - Undergraduate Research	1
BYS 691 - Special Topics	2
BYS 692 - Graduate Research	2

Instruction (cont.)

Term	Course	Enrollment	Student Evaluation Score
Summer 2005	BYS 692 - Graduate Research	2	
Fall 2005	BYS 321 - General Microbiology I	17	94.6
	BYS 490 - Undergraduate Seminar	18	96.5
	BYS 491 - General Microbiology I	2	
	BYS 492 - Undergraduate Research	1	
	BYS 692 - Graduate Research	2	
Spring 2006	BYS 214 - Infection and Immunity	40	94.4
	BYS 322 - General Microbiology II	10	94.2
	BYS 491 - General Microbiology II	1	
	BYS 492 - Undergraduate Research	1	
	BYS 691 - General Microbiology II	1	
	BYS 691 - Special Topics	2	
	BYS 692 - Graduate Research	2	
	BYS 699 - Master's Thesis	2	
Summer 2006	BYS 692 - Graduate Research	1	
	BYS 699 - Master's Thesis	2	
Fall 2006	BYS 321 - General Microbiology I	24	94.0
	BYS 490 - Senior Seminar	16	86.8
	BYS 492 - Special Topics	1	
	BYS 691 - Special Topics	1	
	BYS 692 - Graduate Research	1	
Spring 2007	BYS 214 - Infection and Immunity	43	94.2
	BYS 321 - General Microbiology I	24	93.9
	BYS 492 - Undergraduate Research	1	
Summer 2007	BYS 492 - Undergraduate Research	1	
Fall 2007	BYS 321 - General Microbiology I	21	96.3
	BYS 490 - Senior Seminar	15	98.0
	BYS 492 - Undergraduate Research	1	
Spring 2008	BYS 214 - Infection and Immunity	45	
	BYS 322 - General Microbiology II	10	
	BYS 491 - General Microbiology II	2	
	BYS 492 - Undergraduate Research	1	

Instruction (cont.)

Term	Course	Enrollment	Student Evaluation Score
Summer 2008	BYS 491 - Undergraduate Research	1	
	BYS 492 - Undergraduate Research	2	
Fall 2008			
SPRING 2009			
Summer 2009			
Fall 2009			
SPping 2010			
Spring 2011			
Fall 2011	491- General Microbiology I	8	98.93
	321- General Microbiology I	46	93.0
Spring 2012	*****		
Spring 2013	BYS 100 - Introduction to the Health Professions	49	
	BYS 322 - General Micarobiology II	9	
	BYS 491 - Gaaeneral microbiology II	1	
	BYS 492 - Undergraudate Research	3	
	BYS 691 - Genearal Microbiology II	1	
Summer 2013	BYS 492 Undeargraduate Research	1	
Fall 2013	BYs 321 - Geneearal microbiology I	17	
	BYS 491 - General microbiology I	4	
	BYS 490 - Senior Seminar	12	
	BYS 492 - Undergraduate Research	1	

	BYS 691 - Speacial Topics	1	
	BYS 692 - Graduate Research	1	
	BYS 699 - Masters Thesis	1	
Spring 2014	BYS 214 – Infection and Immunity	24	
	BYS 322 – General Microbiology II		
Summer 2014	BYS 490 – Swnior Seminar	16	95% (100%)
	OTHER		
Fall 2014	BYS 214	80	
	BYS 321	40	
	OTHER		
Spring 2015	BYS 214	38	
	BYS 322	5	
	BYS 491	5	
	BYS 691	1	
	BYS 492	3	
	BYS 692	1	

Curriculum Development

1998 - Revision of General Microbiology course at UAH. Changed from one course to a two-course series in order to provide adequate time for a comprehensive treatment of the field. Added coverage of a number of important topics, including microbial genetics, genetic engineering and biotechnology, industrial microbiology, microbial diversity, and microbial systematics. Changed from a 200-level (sophomore) to a 300-level (junior) course because of greater focus on molecular and mechanistic aspects, and correspondingly higher level of difficulty. Added requirement for General Genetics as a prerequisite to allow more in-depth treatment of microbial genetics. Catalog descriptions for new courses: BYS 321 - “Structure, physiology, and genetics of microorganisms, control of microbial growth, and microorganisms as pathogens”; BYS 322 - “Diversity of microorganisms in form, function, and ecology, and the use of microorganisms in biotechnology.”

Undergraduate Advising

Leslie Tripp	Fall 1997 - Spring 1998
Alanna Clements	Spring 1998 - Spring 2000
Tommy Evans	Spring 1998 - Spring 2000
Kathryn Hinke	Spring 1998 - Spring 1999
Jeremy Smith	Spring 1998 - Spring 1999
Maryann Taylor	Spring 1998 - Fall 1999
Loree Thompson	Spring 1998 - Summer 1999
Monaz Baria	Fall 1998 - Summer 2000
Karen Bors	Fall 1998 - Spring 2000
Melissa Burk	Summer 1999
Tracy Lavezzi	Summer 1999 - Fall 2000
Marella McCoy	Summer 1999 - Fall 2003
Brad Higginbotham	Fall 1999 - Spring 2000
Scott Howison	Fall 1999 - Spring 2002
Kristi May	Spring 2000 - Fall 2001
Leigh Ann Merritt	Spring 2000 - Fall 2001
Brian Moore	Spring 2000 - Spring 2002
Patricia Morin	Spring 2000 - Summer 2002
Stanley Patti	Spring 2000 - Spring 2001
Kimberly Stover	Spring 2000 - Spring 2001
Janet Wilks	Spring 2000 - Spring 2002
Monica Mathis	Summer 2000
Gayle Stephenson	Summer 2000 - Spring 2002
Stephanie Apice	Summer 2000 - Spring 2000
Patricia Autrey	Fall 2000 - Spring 2001
Be Phetsinorath	Fall 2000 - Spring 2001
Lisa Knox	Fall 2000
Renea Gooch	Spring 2001
Jonah Harris	Spring 2001 - Spring 2004
Jennifer Pinckley	Spring 2001 - Fall 2001
Melanie Roberts	Spring 2001
Lauren Sulcer	Spring 2001 - Spring 2003
Heather Jansen	Summer 2001 - Spring 2003
Christian Harmon (Huntigton College graduate)	2012
Shane Kamar	Spring 2012 - present
Jaskirat Sethi	Spring 2012 - present
Stephanie Hollich	Spring 2012 - Spring 2013
Kathrine Glosemeyer (University of Alabama at Birmingham graduate)	Summer 2013 - Spring 2014
Maria Torres	Spring 2014 - Spring 2015
Lana Harwell	Spring 2014 - present

Undergraduate Advising (cont.)

James Kinney	Summer 2001 - Fall 2002
Celetta Selby	Summer 2001 - Fall 2001
Jennifer Moyers	Fall 2001 - present
Joy Ward	Spring 2002 - Spring 2003
Diana Young	Spring 2002 - Fall 2005
Catherine Hughes	Summer 2002 - Spring 2003
Adenrele Aderibigbe	Fall 2002 - Spring 2005
Joseph Jones	Fall 2002 - Fall 2003
Andrew Waite	Fall 2002 - Fall 2003
Kevin Butler	Spring 2003 - Fall 2004
Leslie Lawson	Spring 2003 - Summer 2004
Shanette Granstaff	Summer 2003 - Summer 2004
Stephanie Joly	Summer 2003 - Fall 2003
Blake Stevenson	Summer 2003 - Spring 2004
Jessica Holmes	Fall 2003 - Fall 2004
Nevallina Munnings	Fall 2003 - Fall 2005
Enrique Sosa	Fall 2003 - Spring 2005
Andrew Fairless	Spring 2004 - Spring 2005
Sara Jane Harris	Spring 2004 - Spring 2007
Marie Olszewski	Spring 2004 - Fall 2006
Christine Sargent	Spring 2004 - Spring 2007
Julie Petty	Spring 2004 - Fall 2005
Ryan Berryman	Fall 2004 - Fall 2006
Amelia Boehme	Fall 2004 - Spring 2007
Pleasant Cook	Fall 2004 - Summer 2008
Brittany Barclay	Spring 2005 - Spring 2007
Hannah Eason	Spring 2005 - Summer 2006
Toni Hamlet	Spring 2005
Thomas Savage	Spring 2005 - Fall 2008
Charla Telesco	Spring 2005
Kendra Watts	Spring 2005
Chase Gamwell	Summer 2005 - Summer 2008
Miranda Hickman	Summer 2005 - Fall 2007
Ruchit Shah	Summer 2005 - Summer 2006
Ashely Byrd	Fall 2005 - Fall 2007
Mallory Crafton	Fall 2005 - Summer 2007
Caitlyn Glick	Fall 2005 - Spring 2006
Erin Hansen	Fall 2005 - Spring 2006
Casey Pence	Fall 2005 - Spring 2007
Alexandra DuPont	Spring 2006 - Summer 2009
Jesse Sexton	Spring 2006 - Spring 2009
Christine Agi	Fall 2006 - Spring 2009
Michelle Badgely	Fall 2006 - Fall 2006
Sena Blair	Spring 2007 - present
Sam Anthony	Fall 2007 - present
Morgan Manley	Fall 2007 - Summer 2010

Undergraduate Advising (cont.)

Kaela Charman	Fall 2007 - present
Susan Kleminsky	Fall 2007
Jeneka McDonald	Fall 2007 - present
Jessica Kennedy	Spring 2008 - Spring 2010
Megan Tucker	Spring 2008 - Spring 2011
Joy Garcia	Summer 2008 - Summer 2011
Andrew Heninger	Spring 2014 – present
Maria Torres	Spring 2014 – Summer 2015
Bradley Robison	Summer 2015 – present
Ammie Spitzig	Summer 2015 - present

Supervision of Undergraduate Training and Research

Alanna Clements	Fall 1997 - Summer 1999 (Research Genetics)
Lori Morris	Fall 1997 - Fall 1998 (Research Genetics)
Michelle Pranger	Fall 1997 - Spring 1998 (Research Genetics)
Justin Simmonds	Fall 1997 (medical school)
Melissa Burk	Spring 1998 - Summer 1999 (NASA)
Teresa Copeland	Spring 1998 (nursing)
Dianne Moody	Spring 1998
Jeremy Smith	Spring 1998 - Spring 1999 (UAH graduate school)
Maryann Taylor	Spring 1998 - Fall 1999 (Research Genetics)
Kassandra Kurth	Summer 1998
Loree Thompson	Summer 1998 - Summer 1999 (Florida State University)
Amy Graham	Fall 1998 (Research Genetics)
Stanley Patti	Fall 1998 - Spring 2001 (Trinity University Law School)
Deborah Ramsey	Fall 1998 (graduate school)
Darius McKay	Spring 1999 (chemist – Alabama A&M)
Karen Tracy	Spring 1999 - Fall 2000 (UAH graduate school)
Rebecca Ferguson	Summer 1999 - Spring 2002 (nursing)
Angela Kersh (AMP Program)	Spring 1999
Lakesha Ward	Summer 1999 (nursing)
Robyn Broyden	Fall 1999 - Spring 2000 (UAH graduate school)
Cortney Stewart	Fall 1999 (nursing)
Monaz Baria	Spring 2000 - Fall 2000 (Research Genetics)
Tracey Lavezzi	Spring 2000 - Fall 2000 (Louisiana State University)
Scott Howison	Spring 2000 (SRS Technologies)
Claudia Morales	Spring 2000 - Spring 2002 (University of Colorado, Physican's Assitnt School)
Patricia Morin-Bachelor school)	Spring 2000 - Summer 2002 (UAH graduate school)
Eilenn Rojas (AMP Program)	Summer 2000
Janet Wilks	Fall 2000 - Spring 2002 (nursing)
Jennifer Edens	Spring 2001- Spring 2003 (nursing)
Holly Miles	Spring 2001 - Spring 2003 (nursing)
Caron Lightbourne	Spring 2002 - Fall 2003
Donya Whitfield	Spring 2002 - Spring 2003 (nursing)
Paige Norris	Fall 2002 - Spring 2003 (nursing)
Diana Taylor	Fall 2002 - present
Leslie Lawson	Summer 2003 - Summer 2004 (UAH graduate school)
Krstin Roberts (AMP Program)	Summer 2003 - Fall 2003
Blake Stevenson	Summer 2003 (medical school)
Krystle Kaplan	Fall 2003 - Spring 2005 (nursing)
Rebecca Suessman	Fall 2003 - Fall 2004 (UAH graduate school)
Eboni Gilbert (AMP Program)	Summer 2004
Hannah Eason	Fall 2004 - present
Caitlyn Glick	Fall 2004 - Spring 2006 (Iowa State University Veterinary School)
Danielle Snyder	Fall 2004 - Spring 2006
Thomas Savage	Spring 2005 - present

Brittany Barclay	Summer 2005 - Spring 2007
Cameron Keith	Fall 2005 - Spring 2007
Olivia Lewter	Spring 2012 – Spring 2014
Megan Heekin	Fall 2012 – Spring 2014
Leighton Jordan	Fall 2013 – Summer 2014
Noemi Eitel	Summer 2014 – present
Elizabeth McCauley	Summer 2014 – present
Megan Breland	Summer 2014 – present
Edie Damron	Summer 2014 – present

Supervision of Undergraduate Training and Research (cont.)

Sarah Sanders	Fall 2005 - Spring 2006 (nursing)
Ashley Howser	Spring 2006 - Spring 2007 (nursing)
Stephanie Jeffrey	Summer 2006 - Fall 2007
Diana Dang	Fall 2006 - Spring 2007
Sheila Foster	Fall 2006 - present
Katrina Gervais	Fall 2006 - present
Kristin Dunn	Spring 2007
Christy Moore	Spring 2007 - present
Jessica Ryans	Spring 2007 - present

Supervision of Undergraduate Honors Thesis

Priya Bhat	Fall 1998 - Spring 1999
Ross Vandernoot	Summer 1999

Awards for Undergraduate Students

Patricia Morin, American Society for Microbiology Travel Grant Award, 2001
Brittany Barclay, Research Experience for Undergraduates Award, 2006

M.S. Students Graduated

Stephanie Aikman	Spring 2001
Patricia Batchelor	Spring 2004
Shannon Moody	Spring 2004
Rebecca Eagly	Summer 2006
Leslie Lawson	Fall 2006

Personal Awards

Dr. Adriel D. Johnson Power of One Award from the Mincority Graduate Students Association

Spring 2014

Graduate Advising

Stephanie Aikman (M.S. thesis)	Fall 1997 - Spring 2001
Sylvia Bates (M.S. non-thesis)	Fall 1997
Sarena Teng (M.S. non-thesis)	Spring 1997 - Fall 1997
Suzanne Morcomb (M.S. non-thesis)	Summer 1998 - Fall 1999
Greg Easterly (M.S. non-thesis)	Summer 2000
Karen Tracy (M.S. thesis)	Spring 2001 - Fall 2002
Nancy Wills (M.S. thesis)	Spring 2001 - Summer 2002
Holly White (M.S. non-thesis)	Summer 2001 - Summer 2002
Shelly Norris (M.S. non-thesis)	Fall 2002
Patricia Batchelor (M.S. thesis)	Fall 2002 - Spring 2004
Shannon Moody (M.S. thesis)	Fall 2002 - Spring 2004
Rebecca Eagly (M.S. thesis)	Summer 2004 - Summer 2006
Leslie Lawson (M.S. thesis)	Fall 2004 - Fall 2006
Brittany Barclay (Ph.D.)	Fall 2007
Amelia Boehme (M.S. non-thesis)	Fall 2007 - present
Christine Sargent (M.S. non-thesis)	Fall 2007 - present

Supervision of Graduate Training and Research

Stephanie Aikman (M.S. thesis)	Fall 1997 - Spring 2001
Allen Elliott (M.S. thesis, Civil Engineering)	Spring 1998 - Fall 1998
Suzanne Morcomb (M.S. thesis)	Summer 1998 - Fall 1999
Ross Vandernoot	Summer 1999
Seon Farris (M.S. thesis, Civil Engineering)	Summer 2000 - Spring 2001
Karen Tracy	Spring 2001 - Summer 2002
Nancy Wills	Spring 2001 - Summer 2002
Patricia Batchelor (M.S. thesis)	Fall 2002 - Spring 2004
Shannon Moody (M.S. thesis)	Fall 2002 - Spring 2004
Michelle Gudgen	Fall 2003 - Spring 2004
Ashley Creekmore	Spring 2004 - Summer 2004
Rebecca Eagly (M.S. thesis)	Summer 2004 - Summer 2006
Leslie Lawson (M.S. thesis)	Fall 2004 - Fall 2006
Connie Hajjar	Fall 2005 - Spring 2007
Donna Hockman	Fall 2005 - Spring 2007
Kimberly Mills	Fall 2006 - present
Brenda Wright	Fall 2006 - present
Brittany Barclay (Ph.D.)	Fall 2007
Amelia Boehme	Fall 2007 - present
Avinash Sreedasyam	Spring 2008 - present

Internships

Camille Suret, Oceanology Center of Marseille, University of the Mediterranean, Marseille,

France

Spring 2008

M.S. Non-Thesis Report Committee

Kristy Hill (Biological Sciences)	Fall 2000
Tracey Dickerson (Biological Sciences)	Fall 2001
Rebecca Miller (Biological Sciences)	Spring 2004
Lucinda Matthews (Biological Sciences)	Spring 2006
Amy McDonald (Biological Sciences)	Fall 2006
Sanchali Ghosh (Biological Sciences)	Spring 2008
Christine Sargent (Biological Sciences)	Summer 2008

M.S. Thesis Committees

Divya Pradhan (Biological Sciences)	Spring 1998
Meera Tiruvenkata (Chemistry)	Spring 2003
Holly White (Biological Sciences)	Spring 2004
Michelle Gudgeon (Biological Sciences)	Spring 2004
Shannon Moody (Biological Sciences)	Spring 2004
Patricia Batchelor (Biological Sciences)	Spring 2004
Ashley Boyette (Biological Sciences)	Summer 2004
Rebecca Eagly (Biological Sciences)	Summer 2006
Leslie Lawson (Biological Sciences)	Fall 2006
James Wolfsberger	Spring 2014 – Summer 2015
Kelly Hogkins	Spring 2014

Ph.D. Dissertation Committee

Michael Muratet (Biotechnology Science and Engineering)	Spring 2008
Preti Jain (Biotechnology Science and Engineering)	Summer 2008

Observer for Masters Degree Thesis Committees

Jonathan Bush (Computer Science)	Fall 2000
Troy Skinner (Mechanical and Aerospace Engineering)	Summer 2003
James Mullis (Mechanical and Aerospace Engineering)	Spring 2005
James Garner (Electrical and Computer Engineering)	Spring 2006
Melissa Farbman (Mechanical and Aerospace Engineering)	Spring 2007
Thammanit Piputsitee (Mechanical and Aerospace Engineering)	Summer 2008

Observer for Ph.D. Dissertation Committee

Gerald Russell (Mechanical and Aerospace Engineering)
Spring 2002

Reviewer for Ph.D. Dissertation

Zulfiger Ali Raza, National Centre of Excellence in Physical Chemistry, University of
Peshawar, Peshawar, Pakistan Fall 2006

Naba Bordoloi, Department of Molecular Biology and Biotechnology, Tezpur University,
Napaam, India Spring 2007

Fellowships and Awards for Graduate Students

Stephanie Aikman (M.S. thesis), Dimopoulos Fellowship, Fall 1998

Stephanie Aikman (M.S. thesis), Graduate Teaching Assistant of the Year, Department of
Biological Sciences, 2000-2001

Karen Tracy (M.S. thesis), Dimopoulos Fellowship, Spring 2001

Patricia Batchelor (M.S. thesis), Graduate Teaching Assistant of the Year, College of
Science, 2002-2003

Supervision of High School Student Research

Oluchi Nnorom, Catholic High School Fall 1999 - Spring 2000

University Service Activities

University Service:

Faculty Senate	8/03 - 5/05
Finance and Resources Committee	8/03 - 5/05
Turnitin Panel	11/03
Biotechnology Program Admissions Committee	2/04 - present
Quality Enhancement Plan Committee	5/05 - 3/06
Academic Resource Center Director Search Committee	9/06 - 10/06
University Research Infrastructure Grant Review Committee	3/08 - 5/08
Honors Council	8/112 - present

College Service:

Instructional Technology Committee	11/97 - 5/99
Tenure Committee for Joseph Ng	10/03
Tenure Committee for Carmen Sholz	10/03
Pre-professional Advisory Committee	10/03 - present
Dean's Evaluation Committee	2/04 - 3/04
Reappointment Committee for Mary Setzer	3/06 - present
Promotion and Tenure Committee	11/06 - present

Departmental Service:

Molecular Biologist Search Committee	1/98 - 5/98
Curriculum Committee	10/98 - 9/02
Microbiologist Search Committee	10/98 - 4/99
Graduate Admissions Committee	5/99 - 4/13
Chair Search Committee	10/00 - 4/01
Chair, Undergraduate Curriculum Committee	12/03 - present
Chair, SACS Accreditation Committee	10/04 - 3/06
Co-Advisor, Biology Society	8/13 - present

Community and Public Service Activities

- Invited speaker, National Honor Society Induction Ceremony, Pope John Paul II Catholic High School, April 2, 2014..
- Invited speaker, Theology on Tap, St. Joseph's Church, February 20, 2014.
- Invited speaker, St. Joseph's Catholic Church, September 9, 2012.
- Head coach, St. John's Catholic School, 2008-2009..

- Assistant coach, St. John's Catholic School, 2006-2007.
- Invited to speak at the Franklin School. Fall 2003.
- Supervised microbiology demonstration for home-schooled students at UAH. Spring 2004.
- Assisted Fox News - Birmingham with microbiological investigation. Spring 2004.
- Supervised microbiological exercises for students at St. John's School. Fall 2003.
- Expert witness, United States District Court, Sierra Club, et al., vs. Whittaker and Sons, LLC., *et al.* Fall 2005 - Spring 2006.

Government Testimony

- Alabama Environmental Management Commission, “Runoff from a Swine Facility as a Source of Fecal Coliforms and Antibiotic-Resistant *E. coli* in Crow Creek”, Leahy, J.G., D.R. Snyder, E. Gilbert, B. Burgess, and W. Jones. Fall 2005.

Press Coverage

- Montgomery Advertiser, November 13, 2005. “Hog Farm Waste Blamed”. Article cites research and testimony for the Alabama Environmental Management Commission. Fall 2005.

Summary of Other Service Activities

- Responsible for complete revamping and reorganization of microbiology program, including:
 - Cleaning and reorganization of physical plant associated with microbiology laboratories and laboratory preparations facility.
 - Staffing and training of undergraduate and graduate students to work in laboratory preparations facility. Responsible for training 27 students over the last five years. Assembled documents containing all necessary protocols and methods, and provided direct supervision of training in media, stain, and reagent preparation, culture maintenance and inoculations, and safe disposal of all biological materials.
 - Direct supervision of laboratory preparations facility, including day to day activities of 6 to 8 students per semester. Responsible for preparation of over 500 reagent bottles, over 500 cultures, and over 6000 media per semester.
 - Training of 9 different Graduate Teaching Assistants over the last five years.
 - Apart from my own teaching responsibilities, was responsible for supervision of laboratory sections when lecture sections were taught by part-time instructors.
 - Selection of updated laboratory manuals.
- Purchase of all supplies and equipment for the microbiology laboratories.
 - Maintenance of all microbiology laboratory equipment, including departmental autoclaves.
 - Revision of General Microbiology curriculum (see Curriculum Development) and selection of new textbooks.
- As a member of the Instructional Technology Committee, oversaw the purchase and installation of over \$25,000 in audiovisual equipment for the main lecture hall.
- Administration of audiovisual equipment for main lecture hall, including purchase of new equipment, software installation, and coordination of all service calls.
- Administration of departmental computer lab, including software installation for other faculty and coordination of all service calls.
- Spearheaded effort to obtain 24-hour climate control for laboratories in Wilson Hall.
- Coordinated purchase and installation of 3 new autoclaves for the department.

Summary of Other Service Activities (cont.)

- Worked with other faculty to obtain additional Graduate Teaching Assistantships for the department, as well as salary raises.
 - Worked with other faculty to purchase Genetics Computer Group software for the University.
 - As Faculty Mentor for the Louis Stokes Alliance for Minority Participation, directly supervised the research of 4 minority students between 1998 and 2003.
 - As Treasurer for the UAH Chapter of Sigma Xi, responsible for all financial transactions of the Chapter, and assist the President, President-Elect, and the Secretary in planning and carrying out Chapter activities, which include the Student Poster Day and the Annual Banquet.
 - As member of Faculty Senate Finance and Resources Committee, participated in clarification of intellectual property rights issues at UAH, and improvement of handicapped access at the UAH campus. Supervised discussions and meetings culminating in the revision of parking policy at UAH for students, staff, and faculty. Organized and implemented awards for Distinguished Speaker Series at UAH.
 - As Chair of departmental Undergraduate Curriculum Committee, personally organized all discussions and meetings culminating in the complete revision of undergraduate curriculum.
- moving of autoclaves and microbiology prep room to new building

Honors

Alpha Lambda Delta, Ohio State University, 1978
Phi Eta Sigma, Ohio State University, 1978
Phi Beta Kappa, Ohio State University, 1982
Phi Kappa Phi, Ohio State University, 1982
Sigma Xi, University of Maryland, 1990
Student Government Association Outstanding Faculty Award for the College of Science,
University of Alabama in Huntsville, 1999
Nominee, Distinguished Teaching Award, University of Alabama in Huntsville, 2001
Nominee, Distinguished Teaching Award, University of Alabama in Huntsville, 2002
Who's Who Among America's Teachers, 2002

Professional Organizations

American Society for Microbiology, 1985

Society for Industrial Microbiology, 1987

References

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