John Sanseverino

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Education

Ph.D.	1989	Department of Biology, Lehigh University.
M.S.	1985	Department of Microbiology, University of New Hampshire.
B.S.	1982	Department of Biology, Rensselaer Polytechnic Institute.

Continuing Education

Project Management Certificate of Completion. 2011. Project Management Institute and Pellissippi State Community College. 35 PDUs.

Experience and Background

2013 - present **Operations and Business Manager**, Climate Change Science Institute, Oak Ridge National Laboratory

2012 - 2013 **Project Manager,** Climate Change Science Institute, Oak Ridge National Laboratory

2010 - 2012 **Director of Programs**, Tennessee Solar Institute, University of Tennessee Research Foundation.

2006- 2010 **Managing Director,** *Center for Environmental Biotechnology (CEB), University of Tennessee, Knoxville.*

Research Associate Professor, *Department of Microbiology*

2005- 2007 **Co-Founder, Officer, and Board of Directors.** *Black Bear Biotechnology, LLC.* Black Bear was conceived as a vehicle to transition CEB related intellectual property to the market place. Black Bear was a recipient of a USDA SBIR Phase I award (May 1, 2006 – December 31, 2007)

2001- 2006 **Assistant Director,** *Center for Environmental Biotechnology, University of Tennessee, Knoxville.*

1999 - 2006 **Research Assistant Professor,** *Department of Microbiology, University of Tennessee, Knoxville.*

1998 **Adjunct Faculty,** *Roane State Community College*. Instructor for Microbiology Laboratory.

1996-2003 **Co-founder, Officer, and Board of Director, *Critical Point Technologies, Inc.*** Critical Point Technologies, Inc. was a start-up company that was developing instrumentation to monitor drinking water for microbial pathogens.

1995 - 2001 **Senior Research Associate, *Center for Environmental Biotechnology, University of Tennessee, Knoxville***.

1991 - 1995 **Environmental Specialist/Biotechnologist, Technology Development**, ***IT Corporation,*** Knoxville, Tennessee.

1989 - 1991 **Post-Doctoral Research Associate, *University of Tennessee, Knoxville, Tennessee***. Biodegradation of PAH in manufactured gas plant soils.

Select Publications

1. **Sanseverino, J**., B. S. Montenecourt, and J. A. Sands. 1989. Detection of Acrylic Acid Production in *Megasphaera elsdenii* in the Presence of 3-Butynoic Acid. *Applied Microbiology and Biotechnology*, Vol. 30, pp. 239-242.

2. King, J. M. H., P. M. DiGrazia, B. Applegate, R. Burlage, **J. Sanseverino**, P. Dunbar, F. Larimer, and G. S. Sayler, 1990, "Bioluminescent Reporter Plasmid for Naphthalene Exposure and Biodegradation," Science, Vol. 249, pp. 778-781.

3. **Sanseverino, J.**, C. Werner, J. Fleming, B. M. Applegate, J. M. H. King, and G. S. Sayler, 1993, "Molecular Diagnostic of Polycyclic Aromatic Hydrocarbon Biodegradation in Manufactured Gas Plant Soils," Biodegradation Journal. Vol. 4 pp. 303-321.

4. **Sanseverino, J.**, B. Applegate, J. M. H. King, and G. S. Sayler, 1993, "The Naphthalene Degradative Pathway of NAH7 and NAH7-Like Plasmids Mineralizes Phenanthrene and Anthracene," Applied and Environmental Microbiology, Vol. 59 pp. 1931-1937.

5. Fleming, J., **J. Sanseverino**, and G. S. Sayler, 1993, "Quantitative Relationship Between Naphthalene Catabolic Frequency and Expression in Predicting PAH Degradation in Soils at Town Gas Manufacturing Sites," Environmental Science and Technology. Vol 27 pp. 1068-1074.

6. Layton, A.C., C.A. Lajoie, J.P. Easter, R. Jernigan, **J. Sanseverino**, and G.S. Sayler. 1994. "Molecular Diagnostic and Chemical Analysis for Assessing Degradation of Polychlorinated Biphenyls by Bacterial Populations in Contaminated Soils." Journal of Industrial Microbiology. Vol. 13 pp. 392-401.

7. Layton, A.C., **J. Sanseverino**, B.W. Gregory, J. P. Easter, G.S. Sayler, and T. W. Schultz. 2002. *In vitro* estrogen binding of PCBs: Measured activity and detection of hydroxylated metabolites in a recombinant yeast assay. Toxicology and Applied Pharmacology. 180:157-163.

8. P. Dutta, **J. Sanseverino,** P.G. Datskos, and M.J. Sepaniak. 2005. Nanostructured Cantilevers as Nanomechanical Immunosensors for Cytokine Detection. NanoBiotechnology. 1(3):237-244.

9. **J. Sanseverino**, Gupta, R.K., A.C. Layton, S. S. Patterson, S. Ripp, L. Saidak, M.L. Simpson, T. W. Schultz, and G.S. Sayler. 2005. *Saccharomyces cerevisiae* BLYES Expressing Bacterial Bioluminescence for Rapid, Sensitive Detection of Estrogenic Compounds. Applied and Environmental Microbiology. 71(8): 4455-4460.

10. Rice, J.F., A.G. May, F-M. Menn, **J. Sanseverino**, G.S. Sayler. 2005. Natural Selection for 2,4,5-trichlorophenoxyacetic acid Mineralizing Bacteria in Agent Orange Contaminated Soil. Biodegradation. 16:501-512.

11. M. Eldridge, **J. Sanseverino**, A. Layton, J. Easter, T.W. Schultz, and G.S. Sayler. 2007. *Saccharomyces cerevisiae* BLYAS: a New Bioluminescent Bioreporter for the Detection of Androgenic Compounds. Applied and Environmental Microbiology. 73(19):6012-6018.

12. Dahl, A.L., J. Sanseverino, J.-F. Galliard. 2009. Bioavailability of Hg in Presence of Anthropogenic Ligands. Geochimica et Cosmochimica Acta

13. **J. Sanseverino,** M. Eldridge, A. Layton, J. Yarbrough, J. Easter, T.W. Schultz, and G.S. Sayler. 2009. Screening of Potentially Hormonally Active Chemicals using Bioluminescent Yeast Bioreporters. Toxicological Sciences. 107(1):122-134.

14. D.M. Close, S.S. Patterson, s. Ripp, S.J. Baek, **J. Sanseverino**, G.S. Sayler. 2010. Autonomous Bioluminescent Expression of the Bacterial Luciferase Gene Cassette (*lux*) in a Mammalian Cell Line. PLoS ONE 5(8): e12441.

15. Dahl, A.L., J. Sanseverino, J.-F. Galliard. 2011. Bacterial Bioreporter Detects Mercury in the Presence of Excess EDTA. Environmental Chemistry. http://dx.doi.org/10.1071/EN11043

16. Bergamasco, A., M. Eldridge, J. Sanseverino, F. Sodre, C. Montagner, I. Pescara, W. Jardim, G. Umbuzeiro. 2011. Bioluminescent Yeast Estrogen Assay (BLYES) as a Sensitive Tool to Monitor Surface and Drinking Water for Estrogenicity. Journal of Environmental Monitoring. 13(11): 3288-3293.

17. Tithof, P. K., Richards, S. M., Elgayyar, M. A., Menn, F. M., Vulava, V. M., McKay, L., Sanseverino, J., Sayler, G., Tucker, D. E., Leslie, C. C., Lu, K. P., Ramos, K. S. 2011. Activation of group IVC phospholipase A(2) by polycyclic aromatic hydrocarbons induces apoptosis of human coronary artery endothelial cells. Arch. Toxicol. 85(6):623-634. Doi: 10.1007/s00204-010-0614-9

18. Jiang, K., A. Chauhan, J. Sanseverino, M. S. Allen, A. C. Layton, Y. Wang, J. M. DeBruyn, S. Moser, P. Jegier, D. Close, S. Lucas, A. Copeland, A. Lapidus, T. Glavina Del Rio, E. Dalin, H. Tice, D. Bruce, L. Goodwin, S. Pitluck, D. Sims, T. Brettin, J. C. Detter, C. Han, F. Larimer, M. Land, L. Hauser, N. C. Kyrpides, N. Mikhailova and G. S. Sayler. 2012. Complete genome sequence of *Thauera aminoaromatica* strain MZ1T. Standards in Genomic Sciences. 6(3):325-335. DOI:10.4056/sigs.2696029

19. Sawhney, R., K. Thakur, B. Venkatesan, S. Ji, G. Upreti, J. Sanseverino. 2014. Empirical analysis of the solar incentive policy for Tennessee solar value chain. Applied Energy. 131:368-376. Doi: 10.1016/j.apenergy.2014.06.047.