

PETER A. NOBLE

Phone: 206-409-6664

Address: Tucson, Arizona 85743

Email: panoble2017@gmail.com

ORCID: 0000-0002-6013-2588

Scopus Author ID: 26648823500

ResearcherID: A-8117-2008

Web: <http://peteranoble.com>**Academic Background**

Ph.D.	University of Saskatchewan	1994
Teaching Certification	University of British Columbia	1986
M.Sc.	Memorial University of Newfoundland	1984
B.Sc. (Honors)	Memorial University of Newfoundland	1982
Ph.D. Dissertation	Theoretical and practical aspects of impedance microbiology - Dr. William L. Albritton (Provincial Laboratory of Public Health, University of Alberta), Thesis advisor	

Professional History

Consultant at BuddyEngineer, 13305 NE 171st St. Suite C317, Woodinville, WA 98072 (253-256-5197), 2014-now.

Affiliate Professor, Department of Periodontics, School of Dentistry, University of Washington, Seattle, WA 2010-now.

Professor, PhD Microbiology Program, Alabama State University, Montgomery, AL, 2014-2016.

Associate Professor, PhD Microbiology Program, Alabama State University, Montgomery, AL, 2009-2014.

Adjunct Professor, Department of Microbiology, University of Alabama, Birmingham, AL 2011-2016.

Visiting Professor, Max-Planck-Institute for Evolutionary Biology, August-Thienemannstrasse, Ploen, Germany, May to August, 2010 and May, 2011.

Research Assistant Professor, Department of Civil and Environmental Engineering, University of Washington, Seattle, WA, 2001-2009.

Visiting Professor, Institute for Genetics, University of Cologne, Cologne, Germany, Summer, 2006.

Research Assistant Professor, Belle W. Baruch Institute of Marine Biology and Coastal Research, University of South Carolina, Columbia, SC, 1996-2001.

Visiting Scientist, Marine Biological Laboratory, Woods Hole, MA, May-June, 2000.

Visiting Research Scholar, Dept. of Civil Engineering, Northwestern University, Evanston, IL, Summer 1999.

Research Associate, Center of Marine Biotechnology, University of Maryland Biotechnology Institute, Baltimore, MD, 1995-1996

Post-doctoral Fellow, National Water Research Institute, Fountain Valley, CA. 1995

Post-doctoral Fellow (with Betty H Olson), Environmental Analysis and Design, University of California, Irvine, CA 1993-1995

Senior Biology Teacher, Vancouver School Board, Vancouver, British Columbia, Canada, 1987

Senior Biology Teacher, School District of Mystery Lake No. 2355, Thompson, Manitoba, Canada 1986

Computer Programmer/Statistical Analyst, University of British Columbia, Vancouver, BC, Canada. 1985

Research Assistant Technician, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland, Canada 1982-1984

Scopus H (Hirsch)-score=20; Number of peer-reviewed articles=50+; Average impact factor of journal articles=3.9; Average citations per article: 22.8; Number of posters=60+; Number of citations: 1000+

Journal Peer-Reviewed Publications (* indicates primary author)

2017

- P1. Pozhitkov A, Neme R, Domazet-Lošo T, Leroux BG, Soni S, Tautz, D, **Noble PA***. (2017) Tracing the dynamics of gene transcripts after organismal death. *Open Biology*. 7:160267. Cited by: 1. Impact factor of 5.303. doi:10.1098/rsob.160267. PMID: 28123054
- P2. Hunter MC, Pozhitkov A, **Noble PA***. (2017) Accurate predictions of postmortem interval using linear regression analyses of gene meter expression data. *Forensic Science International*. 275:90–101. Cited by: 3. Impact factor of 2.140. <http://dx.doi.org/10.1016/j.forsciint.2017.02.027> PMID: 28329724
- P3. Hunter MC, Pozhitkov A, **Noble PA***. (2017) Datasets used to discover the microbial signatures of oral dysbiosis, periodontitis and edentulism in humans. *Data Brief* 10:30–32. doi: 10.1016/j.dib.2016.11.051 PMID: PMC5137327
- P4. **Noble PA***, Pozhitkov A. (2017) What happens to our genes in the twilight of death? *TheScienceBreaker*, <https://goo.gl/iqj3sm>
- P5. **Noble PA***, Pozhitkov A. (2017) The postmortem microbiome and gene expression in vertebrates. *The Biochemist* 39:14-17. <http://www.biochemist.org/bio/03902/0014/039020014.pdf>
- P6. Pozhitkov A. **Noble PA***. (2017) Gene Meter: accurate abundance calculations of gene expression. *Communicative and Integrative Biology* (Accepted, May 5, 2017). Cited by: X. Impact factor of 1.56. <http://dx.doi.org/10.1080/19420889.2017.1329785>
- P7. Pozhitkov AE, **Noble PA***. (2017) Gene expression in the twilight of death. *BioEssays* 39 (9): in press, September, 2017 Cited by: X. Impact factor of 4.725

2016

- P8. Hunter MC, Pozhitkov A, **Noble PA***. (2016) Microbial signatures of oral dysbiosis, periodontitis and edentulism revealed by Gene Meter methodology. *Journal of Microbiological Methods* 131:85-101 Cited by: 4. Impact factor of 2.544. PMID: 27717873
- P9. Bagwell CE, Abernathy A, Barnwell R, Milliken CE, **Noble PA**, Dale T, Beauchesne KR, Moeller PDR. (2016) Discovery of bioactive metabolites in biofuel microalgae that offer

protection against predatory bacteria. *Frontiers in Microbiology* 7:516 Cited by: XX. Impact factor of 4.165. PMID: 27148205

- P10. **Noble, PA***, Park H-D, Olson BH, Asvapathanagul P, Hunter MC, Rosso D. (2016). A survey of biofilms on wastewater aeration diffusers suggests bacterial community composition and function varies by substrate type and time. *Applied Microbiology and Biotechnology* 100:6361-73. Cited by: 1. Impact factor of 3.3376. PMID: 27294381

2015

- P11. Pozhitkov A, Leroux B, Randolph TW, Beikler T, Flemmig TF, **Noble PA***. (2015). Towards microbiome transplant as a therapy for periodontitis: an exploratory study of periodontitis microbial signature contrasted by oral health, caries and edentulism. *BMC Oral Health* 15:125. Cited by: 12. Impact factor of: 1.3 PMID: 26468081
- P12. Pozhitkov A, Daubert D, BrochwiczDonimirski A, Goodgion D, Leroux B, Flemmig T, Hunter C, **Noble PA**, Bryers J.D. (2015) Interruption of electrical conductivity of titanium dental implants suggests a path towards elimination of the implant's corrosion. *PlosOne* 10:e0140393. DOI: 10.1371/journal.pone.0140393 Cited by: 1. Impact factor of 3.730. PMID: 26461491

2014

- P13. Pozhitkov A, **Noble PA**, Bryk J, Tautz D. (2014) A revised design for microarray experiments to account for experimental noise and the uncertainty of probe response. *PlosOne* 9:e91295. Cited by: 15. Impact factor of 3.730. PMID: 24618910
- P14. Can I, Javan GT, Pozhitkov AE, **Noble PA***. (2014) Distinctive thanatomicrobiome signatures found in the blood and internal organs of humans. *Journal of Microbiological Methods* 104:1-7. Cited by: 24. Impact factor of 2.544. PMID: 25091187

2013

- P15. Harrison A, Binder H, Buhot A, Burden C, Carlon E, Gibas C, Gamble L, Halperin A, Hooyberghs J, Kreil D, Levicky R, **Noble PA**, Ott A, Pettitt M, Tautz D, Pozhitkov AE. 2013. Physico-chemical foundations underpinning microarray and next generation sequencing experiments. *Nucleic Acids Research* 41:2779-96. Cited by: 36. Impact factor of: 9.112. PMID: 23307556

2012

- P16. Kang H-Y, Rule RA, **Noble PA***. (2012) Artificial neural network modeling of phytoplankton blooms using long-term ecological research data sets and its application to sampling sites within the same estuary. *Treatise on Coastal and Estuarine Science* 9.09:161-171. Cited by: 2. Impact factor of: 3.20.

2011

- P17. Pozhitkov AE, Beikler T, Flemmig T, **Noble PA***. (2011) High-throughput methods for the analysis of human oral microbiome. *Periodontology 2000* 55:70-86. Cited by: 29. Impact factor of: 4.012. PMID: 21134229

2010

P18. Pozhitkov AE, Boubeb I, Brouwer MH, **Noble PA***. (2010) Beyond Affymetrix arrays: expanding the set of known hybridization isotherms and observing pre-wash signal intensities. *Nucleic Acids Research* 38:e28. Cited by: 25. Impact factor of: 9.112. PMID: 19969547

2009

P19. Rule RA, Pozhitkov AE, Noble PA*. (2009) Use of hidden correlations in short oligonucleotide array data are insufficient for accurate quantification of nucleic acid targets in complex target mixtures. *Journal of Microbiological Methods* 76:188–195. Cited by: 8. Impact factor of: 2.544. PMID: 19007823

2008

P20. Pozhitkov A, Rule RA, Stedtfeld RG, Hashsham SA, **Noble PA***. (2008) Concentration-dependency of nonequilibrium thermal dissociation curves in complex target samples. *Journal of Microbiological Methods*. 74:82-88. Cited by: 10. Impact factor of: 2.544. PMID: 18471911

P21. Pozhitkov AE, Nies G, Kleinhenz B, Tautz D, **Noble PA***. (2008). Simultaneous quantification of multiple nucleic acids in target mixtures using high density microarrays. *Journal of Microbiological Methods* 75: 92-102. Cited by: 9. Impact factor of: 2.544. PMID: 18579240

P22. Gough, HL, Dahl AL, Tribou E, **Noble PA**, Gaillard J-F, Stahl DA. (2008). Elevated sulfate reduction in metal contaminated freshwater lake sediments. *Journal of Geophysical Research - Biosciences* 113:G04037. Cited by: 9. Impact factor of: 3.303.

2007

P23. **Noble PA**, Tribou E. (2007) Neuroet: an easy-to-use artificial neural network for ecological and biological modelling. *Ecological Modelling* 203:87-98. Cited by: 27. Impact factor of: 2.399.

P24. Pozhitkov A, **Noble PA***. (2007) Comment on discrimination of shifts in soil microbial communities using nonequilibrium thermal dissociation and gel pad array technology. *Environmental Science and Technology*. 41:1797-1798. Cited by: 7. Impact factor of: 4.764. PMID: 17396676

P25. Pozhitkov A, **Noble PA***. (2007) High variability in melting profiles from gel pad arrays. *Environmental Microbiology* 9:1865. Cited by: 4. Impact factor of: 5.843. PMID: 17564621

P26. Pozhitkov A, Stedtfeld RG, Hashsham SA, **Noble PA***. (2007) Revision of the nonequilibrium dissociation and stringent washing approaches for identification of mixed nucleic acid targets by microarrays. *Nucleic Acids Research* 35:e70. Cited by: 33. Impact factor of: 9.112. PMID: 17430966

P27. Pozhitkov A, Bailey KD, **Noble PA***. (2007) Development of a statistically robust quantification method for microorganisms in mixtures using oligonucleotide microarrays. *Journal of Microbiological Methods* 70:292-300. Cited by: 13. Impact factor of: 2.544. PMID: 17553581

P28. Pozhitkov A, Tautz D, **Noble PA***. (2007) Oligonucleotide arrays: widely applied -- poorly understood. *Briefings in Functional Genomics and Proteomics* 6:141-148. Cited by: 71. Impact factor of: 4.210. PMID: 17644526

2006

- P29. Pozhitkov A, **Noble PA***, Domazet-Loso T, Nolte A, Sonnenberg R, Staehler P, Beier M, Tautz D. (2006) Tests of rRNA hybridization to microarrays suggest that hybridization characteristics of oligonucleotide probes for species discrimination cannot be predicted. *Nucleic Acids Research* 34:e66. Cited by: 114. Impact factor of: 9.112. PMID: 16707658

2005

- P30. Lewitus, AJ, White DL, Tymowski RG, Geesey ME, Hymel SN, **P. A. Noble***. (2005) Adapting the CHEMTAX method for assessing phytoplankton taxonomic composition in southeastern U.S. estuaries. *Estuaries* 28:160-172. Cited by: 110 Impact factor of: 2.13.
- P31. Kelly JJ, Siripong S, McCormack J, Janus LR, Urakawa H., ElFantroussi S., **Noble PA**, Sappelsa L, Rittmann BE, Stahl DA. (2005) DNA microarray detection of nitrifying bacterial 16S rRNA in wastewater treatment plant samples. *Water Research* 39:3229-3238. Cited by: 91. Impact factor of: 5.315. PMID: 16009395
- P32. Morris J, Porter D, Neet M, **Noble PA**, Schmidt L, Lapine LA, Jensen J. (2005) Salt and brackish marsh characterization at North Inlet, SC using LIDAR-derived elevation data and land cover extracted from multispectral imagery using a neural network. *International Journal of Remote Sensing* 26:5221-5234. Cited by: 43. Impact factor of: 1.138.
- P33. Pozhitkov A, Chernov B, Yershov G, **Noble PA***. (2005) Evaluation of gel-pad oligonucleotide microarray technology using artificial neural networks. *Applied and Environmental Microbiology* 71:8663-8676. Cited by: 37. Impact factor of: 4.486. PMID: 16332861

2003

- P34. Urakawa H, ElFantroussi S, Smidt H, Smoot JC, Tribou E, Kelly JJ, **Noble PA**, Stahl DA. (2003) Optimization of single-base-pair mismatch discrimination in oligonucleotide microarrays. *Applied and Environmental Microbiology* 69:2848-2856. Cited by: 172. Impact factor of: 4.453. PMID: 12732557
- P35. ElFantroussi S, Urakawa H, Bernhard AE, Kelly JJ, **Noble PA**, Smidt H, Yershov GM, Stahl DA. (2003) Direct profiling of environmental microbial populations by thermal dissociation analysis of native ribosomal rRNAs hybridized to oligonucleotide microarrays. *Applied and Environmental Microbiology* 69:2377-2382. Cited by: 135. Impact factor of: 4.486. PMID: 12676724
- P36. **Noble PA***, Tymowski RG, Morris JT, Fletcher M, Lewitus AJ. (2003) Contrasting patterns of phytoplankton community pigment composition in two salt marsh estuaries in Southeastern United States. *Applied and Environmental Microbiology* 69:4129-4143. Cited by: 29. Impact factor of: 4.486. PMID: 12839791

2002

- P37. Urakawa H, **Noble PA***, ElFantroussi S, Kelly JJ, Stahl DA. (2002) Single-base pair discrimination of terminal mismatches by using oligonucleotide microarrays and neural network analyses. *Applied and Environmental Microbiology* 68:235-244. Cited by: 141. Impact factor of: 4.486. PMID: 11772632

P38. Ogunseitán OA, LeBlanc J, **Noble P.** (2002) Ecological dimensions of microbial proteomics. *Recent Research Developments in Microbiology* 6:487-501.

2001

P39. Almeida JS, Carrico JA, Marezek A, **Noble PA**, Fletcher M. (2001) Analysis of genomic sequences by chaos game representation. *Bioinformatics* 17:429-437. Cited by: 186. Impact factor of: 5.468. PMID: 11331237

2000

P40. **Noble PA***, Almeida JS, Lovell CR. (2000) Application of neural computing methods for interpreting phospholipid fatty acid profiles from natural microbial communities. *Applied and Environmental Microbiology* 66:694-699. Cited by: 52. Impact factor of: 4.486. PMID: 10653738

P41. Almeida JS, **Noble PA***. (2000) Neural computing in microbiology. *Journal of Microbiological Methods* 43:1-2. Cited by: 4. Impact factor of: 2.544. PMID: 11084224

1999

P42. **Noble PA***. (1999) Minireview: a hypothetical model for monitoring microbial growth by using capacitance measurements. *Journal of Microbiological Methods* 37:45-49. Cited by: 33. Impact factor of: 2.544. PMID: 10395463

P43. **Noble PA***, Dziuba M, Harrison DJ, Albritton WL. (1999) Factors influencing capacitance-based monitoring of microbial growth. *Journal of Microbiological Methods* 37, 51-64. Cited by: 36. Impact factor of: 2.544. PMID: 10395464

P44. Piceno YM, **Noble PA**, Lovell CR. (1999) A comparison of diazotroph assemblages in two vegetated salt marsh zones using denaturing gradient gel electrophoresis (DGGE) analysis. *Microbial Ecology* 38:157-167. Cited by: 91. Impact factor of: 2.912.

1991-1998

P45. **Noble PA***, Citek RW, Ogunseitán DA. (1998) Tetranucleotide frequencies in microbial genomes. *Electrophoresis* 19:528-535. Cited by: 19. Impact factor of: 3.261. PMID: 9588798

P46. **Noble PA***, Bidle KD, Fletcher M. (1997) Natural microbial community compositions compared by a back-propagating neural network and cluster analysis of 5S rRNA. *Applied and Environmental Microbiology* 63:1762-1770. Cited by: 54. Impact factor of: 4.486. PMID: 16535593

P47. **Noble PA***, Clark DL, Olson BH. (1996) Biological stability of ground water treated for organic carbon removal by conventional and membrane filtration methods. *Journal of the American Water Works Association* 88:87-96. Cited by: 28. Impact factor of: 0.633.

P48. Albritton, W. L., **Noble PA***, and K. D. Webster (1994) Clarification of the plasmid RSF0885 in *Haemophilus influenzae* serotype b. *Canadian Journal of Microbiology* 40:154-157. Cited by: 1. Impact factor of: 1.477 PMID: 8019938

P49. Dasgupta, MK, Ward K, **Noble PA**, Larabie M, Costerton JW. (1994) Development of bacterial biofilms on silastic catheter materials in peritoneal dialysis fluids. *American Journal of Kidney Diseases* 23:709-716. Cited by: 46. Impact factor of: 5.434. PMID: 8172213

- P50. Dziuba M, **Noble PA***, Albritton WL. (1993) A study of the nutritional requirements of a selected *Haemophilus ducreyi* strain by impedance and conventional methods. *Current Microbiology* 27:109-113. Cited by 9. Impact factor of: 1.815.
- P51. **Noble PA***, Ashton E., Davidson CA, Albritton WL. (1991) Heterotrophic plate counts of surface water samples by using impedance methods. *Applied and Environmental Microbiology* 57:3287-3291. Cited by: 22. Impact factor of: 4.486. PMID: 1781686
- P52. **Noble* PA**, Dabinett PE, Gow JA. (1990) Numerical taxonomic study of pelagic and benthic surface-layer bacteria in seasonally-cold coastal waters. *Systematic and Applied Microbiology* 13:77-85. Cited by: 12. Impact factor of: 3.590.

Non-Journal Articles Written About the Noble Laboratory

- A1. Justin Petrone: Researchers develop new microarray experimental design that improves data quality, reliability. <https://www.genomeweb.com/arrays/researchers-develop-new-microarray-experimental-design-improves-data-quality-rel> *GenomeWeb* March 14, 2014.
- A2. Anna Williams: Your death microbiome could catch your killer. <https://www.newscientist.com/article/mg22329842-500-your-death-microbiome-could-catch-your-killer/> *New Scientist*, August 27, 2014.
- A3. Jesse Jenkins: The death microbiome: invasion of the body snatchers. http://www.biotechniques.com/news/The-Death-Microbiome-Invasion-of-the-Body-Snatchers/biotechniques-353828.html#.V_PvGWCnFI *BioTechniques - The International Journal of Life Science Methods*, September 11, 2014.
- A4. Anna Williams: Hundreds of genes seen sparking to life two days after death, <https://www.newscientist.com/article/2094644-hundreds-of-genes-seen-sparking-to-life-two-days-after-death/> *New Scientist*, June 21, 2016.
- A5. Mitchell Leslie: 'Undead' genes come alive after life ends, <http://www.sciencemag.org/news/2016/06/undead-genes-come-alive-days-after-life-ends> *Science*, June 22, 2016.
- A6. Ryan O'Hare: Could there be life after death? Thousands of genes are seen coming to life TWO DAYS after animals die, <http://www.dailymail.co.uk/sciencetech/article-3654014/Is-life-death-1-000-genes-switch-animals-die-hundreds-active-days-after.html> *Daily Mail*, June 22, 2016.
- A7. Anonymous: Zombie Genes Awaken! <https://www.genomeweb.com/scan/zombie-genes-awaken> *GenomeWeb*, June 22, 2016.
- A8. Germen: Zombie-genen' komen tot leven na de dood, <http://www.visionair.nl/wetenschap/zombie-genen-komen-tot-leven-na-de-dood/> *Visionair.nl*, June 22, 2016.
- A9. Ben Taub: Zombie Genes That Wake Up After You Die Could Help To Predict Time Of Death, <http://www.iflscience.com/health-and-medicine/zombie-genes-that-wake-up-after-you-die-could-help-to-predict-time-of-death/> *IFLScience!*, June 22, 2016.
- A10. Julia Davis: Some genes do not turn on until you die. <http://www.pbs.org/wgbh/nova/next/body/some-genes-dont-turn-on-until-after-you-die/> June 22, 2016.
- A11. Yasmin Tayag. Newly Discovered Genes Will Make Us Rethink What 'Time of Death' Really Means, <https://www.inverse.com/article/17355-newly-discovered-genes-will-make-us-rethink-what-time-of-death-really-means> *Inverse*, June 22, 2016.

- A12. Thomas Tamblyn: Is there life after death? Study finds evidence of hidden genes coming to life. http://www.huffingtonpost.co.uk/entry/is-there-life-after-death-study-finds-evidence-of-hidden-genes-coming-to-life-after-weve-died_uk_576baffbe4b0b1f1704fff0e *Huffington Post*, June 23, 2016.
- A13. Sarah Emerson: Scientists Caught 'Undead' Genes Coming Alive After Death, <http://motherboard.vice.com/read/scientists-caught-undead-genes-coming-alive-after-death> *Motherboard*, June 23, 2016.
- A14. Tanya Lewis: Genes expressed after death, <http://www.the-scientist.com/?articles.view/articleNo/46404/title/Genes-Expressed-After-Death/> *The Scientist Magazine*, June 23, 2016.
- A15. BEC Crew: Hundreds of genes spring to life up to 4 days after death, scientists find, <http://www.sciencealert.com/hundreds-of-genes-caught-sparking-to-life-2-days-after-death> *ScienceAlert*, June 23, 2016.
- A16. Anonymous: 'Undead' genes activate days after life ends, <https://likethefuture.com/undead-genes-come-alive-days-after-life-ends/> *Like the Future*, June 23, 2016.
- A17. Douglas Ernst: 'Undead' genes activate days after life ends: University of Washington Study. <http://www.washingtontimes.com/news/2016/jun/23/undead-genes-activate-days-after-life-ends-univers/> *The Washington Times*, June 23, 2016.
- A18. ОБСУДИТЕ В СОЦСЕТЯХ: Гены способны работать после смерти организма, http://polit.ru/news/2016/06/23/ps_undead_genes/ *Polit*, June 23, 2016.
- A19. Len Rosen: When We Die Do We Die? <http://www.21stcentech.com/die-die/> *21st Century Tech – A look at our future*, June 24, 2016.
- A20. Richard Chirgwin: Genes take a shot at rebooting after death, http://www.theregister.co.uk/2016/06/24/genes_take_a_shot_at_rebooting_after_death/ *The Register*, June 24, 2014.
- A21. Anonymous: 'Zombie Genes': There is Life After Death, <http://www.caribflame.com/2016/06/zombie-genes-there-is-life-after-death/> *Caribflame*, June 24, 2016.
- A22. Lise Loume: Decouverte. Des centaines de gènes "zombies" se réactivent après la mort. http://www.sciencesetavenir.fr/sante/decouverte-des-centaines-de-genes-zombies-se-reactivent-apres-la-mort_30809 *Sciences avenir*. June 24, 2016.
- A23. Anonymous: Life after death? New study suggests certain genes remain active even after demise. <http://home.bt.com/news/science-news/life-after-death-new-study-suggests-certain-genes-remain-active-even-after-demise-11364069792817> *Irish Examiner*, June 24, 2016.
- A24. Marissa Fessenden: Some genes remain "alive" for days after death. <http://www.smithsonianmag.com/smart-news/some-genes-remain-alive-days-after-body-dies-180959552/?no-ist> *Smithsonian Magazine*, June 24, 2016.
- A25. Ian Johnston: 'Jaw-dropping' discovery made about genes that live even after death. <http://www.independent.co.uk/news/science/genes-life-death-jaw-dropping-a7097656.html> *The Independent*, June 24, 2016.
- A26. George Dvorsky: Hundreds of genes spring back to life in the days after death, <http://gizmodo.com/hundreds-of-genes-spring-back-to-life-in-the-days-after-1782487652> *Gizmodo*, June 24, 2016.
- A27. Tyler Kokjohn: Tighten Up or the Zombie Genes Will Get You, <https://jayvay.wordpress.com/2016/07/25/tighten-up-or-the-zombie-genes-will-get-you/> *The Official Online Home of Jeremy Vaeni*, July 25, 2016.

- A28. Elisabetta Intini: I geni che continuano a funzionare dopo la morte. <http://www.focus.it/scienza/salute/i-geni-attivi-dopo-la-morte> *Focus.it*, June 26, 2016.
- A29. Marie-Céline Jacquier: Les gènes zombie se réveillent après la mort. <http://www.futura-sciences.com/sante/actualites/medecine-genes-zombie-reveillent-apres-mort-63291/> *Futura-Sciences*, *Futura-Santé*, June 26, 2016.
- A30. Кирилл Стасевич: Некоторые гены просыпаются после смерти, <https://www.nkj.ru/news/29039/> *Science and Life Russia*, June 26, 2016.
- A31. Jeff Maloy: Zombie Genes: New Evidence Points to Genetic Life After Death, <http://www.signaltonoisemag.com/allarticles/2016/6/27/zombie-genes-new-evidence-points-to-genetic-life-after-death> *Signal to Noise Magazine*, June 27, 2016.
- A32. Rachel Siden: Genes may be active after death, http://www.bionews.org.uk/page_663639.asp *BioNews*, June 27, 2016.
- A33. Carole Lembezat and Jean Yves Nau: Hundreds of genes would reactivate after death. <http://www.genethique.org/en/hundreds-genes-would-reactivate-after-death-65903.html#.WCS7OWWCnFI> June 27, 2016.
- A34. Marta Musso: I geni continuano a essere attivi anche dopo la morte, <http://www.galileonet.it/2016/06/geni-attivi-dopo-morte/> *Galileo*, June 27, 2016.
- A35. Dennis Rijnvis: 'Honderden genen in muizen blijven actief na dood', <http://www.nu.nl/wetenschap/4283063/honderden-genen-in-muizen-blijven-actief-dood.html> *NU.nl*, June 27, 2016.
- A36. Anonymous: Napokkal a halál után is működőképes marad számos gén. <http://www.origo.hu/tudomany/20160623-genetika-genek-genmukodes-halal.html> *Origo*, June 27, 2016.
- A37. Susanne Hamann: Zombie-Gene wie bei "Walking Dead"? Forscher entdecken Gene, die sich nach dem Tod aktivieren. <http://www.rp-online.de/leben/gesundheit/news/walking-dead-zombie-gene-bei-tieren-entdeckt-aid-1.6077906> *RP.online*. June 27, 2016.
- A38. Jean-Michel Bourget: Life after death: the cell's point of view. <http://www.medicalnewsbulletin.com/life-after-death-cells-point-view-june-29-2016/> *Preclinical research – research in the news*, June 29, 2016.
- A39. Tábata Bergonci: Vida após a morte? A sombria história dos genes-zumbis! <http://www.saense.com.br/2016/06/vida-apos-a-morte-a-sombria-historia-dos-genes-zumbis/> *Saense*, June 29, 2016.
- A40. Anonymous: 'Undead' genes come alive days after death, <http://phys.org/news/2016-07-undead-genes-alive-days-death.html> *Phys.org*, July 1, 2016.
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- C51. Pozhitkov A., P. A., Noble Li S., Stedtfeld R., Hashsham S., Nies G., Tautz D. and Brouwer M. 2007. Oligonucleotide microarrays revisited: thermodynamics, Kinetics and hybridization patterns. Gordon Conference.
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- C53. Rule, R.A., T Flemmig, T. Beikler, A. Pozhitkov and P.A.. Noble An alternative methodology for microbial quantification using oligonucleotide microarrays: avoiding probe design artifacts. *Center for Process Analytical Chemistry* Seattle WA 2008, May 4-8, 2008
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- C60. Duncan S., F. White, I. Williams, F. Richardson, P. A. Noble. Metagenomic Analysis of Microcosms Simulating the Deepwater Horizon Blowout. 2012 Research and Creative Activity Symposium, Alabama State University, College of Science, Mathematics, and Technology. March 12-15, 2012.
- C61. White F., I. Williams, S. Duncan, F. Richardson, P. A. Noble. Examining the effects of Deepwater Horizon oil and dispersant on microbes in the Gulf of Mexico surface waters. 2012 Research and Creative Activity Symposium, Alabama State University, College of Science, Mathematics, and Technology. March 12-15, 2012.
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- C65. Mitchell, C. and P.A. Noble. Phytoplankton Heterotrophic Symbiosis and Its role in Biodegradation of Deepwater Horizon Oil in Gulf of Mexico Surface Waters. 2012 Annual Biomedical Research Conference for Minority Students (ABRCMS). November 7 - 10, 2012.
- C66. Duncan, S.M., C. Mitchell and P.A Noble The Putative Role of Phytoplankton -- Hydrocarbon-utilizing Microbial Symbiosis in Biodegradation of Deepwater Horizon Oil in Gulf of Mexico Surface Waters. 114th American Society of Microbiology General Meeting, Denver, Colorado, May 18 - 21, 2013 ASM STUDENT CAPSTONE AWARD WINNER!
- C67. Pozhitkov A.E., B. Leroux, P.A. Noble, T.F. Flemmig. Microbial Ensemble Associated with Periodontitis Beyond the Red Complex. International Association for Dental Research General Session, Seattle Washington, March 20-23, 2013.
- C68. Javan, G and P.A. Noble. Life after human death: The Thanatobiome. American Academy of Forensic Sciences 66th Annual Scientific meeting, Seattle Washington, February 17-22, 2014.
- C69. Christina Dewberry, Jasmine K Ferguson, Kawana Cannon, Fred Yeboah, Gulnaz Javan, Peter A. Noble, Shivani Soni. Characterizing the role of Erythroblast macrophage protein (*Emp*) in macrophage differentiation and function. 2014 Research Symposium, Alabama State University, March 20-21, 2014.
- C70. Colby Hunter, Alex Pozhitkov, Peter A. Noble. A New Procedure for Microarray Experiments to Account for Experimental Noise and the Uncertainty of Probe Response. 2014 Research Symposium, Alabama State University, March 20-21, 2014.
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- C72. Shayla Duncan, Cecile Mitchell, Peter A. Noble. The Aerobic Anoxygenic Microbes' Putative Role in the Deepwater Horizon Incident. 2014 Research Symposium, Alabama State University, March 20-21, 2014.

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- C75. M. Colby Hunter, Alex E. Pozhitkov, Peter A Noble. 2015. Using Gene Meters to Test the Accuracy of 454 Sequencing Results. American Society of Microbiology General Meeting, New Orleans, LA, May 30-June 2nd, 2015.
- C76. Peter A. Noble, M. Colby Hunter, B.H Olson, P. Asvapthanagul, M. Garrido-Baserba, and D. Rosso 2015. Biofilms fouling fine-pore diffuser bacterial assessment using pyrosequencing. 12th IWA Specialized Conference On Design, Operation, and Economics of Large Wastewater Treatment Plants. Prague, Czech Republic.
- C77. M. Colby Hunter, B.H Olson, P. Asvapthanagul, M. Garrido-Baserba, D. Rosso and Peter A. Noble. 2015. Microbial composition and function of diffuser biofilms in a municipal wastewater treatment plant. International Environmental Youth Symposium, Atlanta, GA. Oct 1 to 2nd, 2015, 3rd prize presentation winner.
- C78. M. Colby Hunter, Alex Pozhitkov, Shivani Soni, and Peter A. Noble. 2015. Calibration of DNA microarrays and sequencing technologies as the foundation for epigenetic research. KAUST-University of California Irvine Symposium on 'Epigenetics and Environment' on 2-6 December 2015. King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
- C79. Hunter M.C., Pozhitkov A.E., Noble P.A. Feasibility of gene expression measurements for determining the postmortem interval. Alabama experimental program to stimulate competitive research (EPSCoR). The science and technology open house hosted by Tuskegee University. Montgomery, AL, February 05, 2016
- C80. E. Webb, J. Son, E. Lindahl, P. A. Noble, A. Pozhitkov. Biofilm-induced electricity in titanium dental implants: path forward to new materials and electrotherapy. American Association for Dental Research Annual Meeting. March 16-19, 2016. Los Angeles, California
- C81. Colby M. Hunter, Alexander E. Pozhitkov, Peter A. Noble. Predicting the postmortem interval using gene transcription. Annual Biomedical Research Conference for Minority Students (ABRCMS). Tampa, FL., November 9th -12th 2016.

Books and Editing

Almeida, J. S. and P. A. Noble (Guest Editors). Special Issue: Neural Computing in Microbiology. Journal of Microbiological Methods, Vol. 43, 2000.

Project Reports (reports to sponsors)

Determining genome organization by using back-propagating neural network. NSF, 2000.

Novel mathematical approaches for determining ecosystem structure and dynamics. NSF, 2002.

Biocomplexity incubation activity: consequences of urban encroachment on natural ecosystems. NSF, 2002.

CISNET: Molecular to landscape monitoring of estuarine eutrophication. EPA-CISNET, 2002

Consortium for Ecoindicator Research for the Gulf of Mexico EPA 2001 STAR Program, EPA 2007.

MRI: Acquisition of a Roche/454 GS-Jr for Research and Training in Microbiology at Alabama State University, NSF Division of Biological Infrastructure, 2013.

Other Scholarly Activity

Patents

Pozhitkov, A. and P. A. Noble, (2005) Rapid and robust identification of known microorganisms in complex mixtures. Record of Invention, UW Ref#7346D.

Invited Lectures and Seminars

- T1. Bugs in tubs: the microbial ecology of hot tub, Southern California American Society of Microbiology 58th Annual Meeting, San Diego, California, June, 1994.
- T2. Pathogens in drinking water, waste and recreational water, American Society for Microbiology Workshop, Washington, DC, May, 1995.
- T3. The identification, enumeration and detection of water-borne microbes, American Society for Microbiology Workshop, New Orleans, Louisiana, May, 1996.
- T4. Controlling Microbes in drinking water: biostability, biofilms, pathogens and disinfectants, American Society for Microbiology Workshop, Miami Beach, Florida, May, 1997.
- T5. Visualization of Microbial Genomes by Analysis of Tetranucleotide Frequencies, Seventh Annual South Carolina Statewide Research Conference, Wild Dunes, Isle of Palms, South Carolina, October, 1998.
- T6. Neural computing approaches for analyzing microbiological data, American Society for Microbiology Workshop, Atlanta, Georgia, May, 1998.
- T7. Determining the relationship between the ecological dynamic properties of an estuarine ecosystem and its corresponding microbial community structure, Southeastern Branches of the American Society for Microbiology, Jekyll Island, Georgia, October, 1999.
- T8. The application of artificial neural networks to determine associations between biotic and abiotic factors in ecosystems, All EaGLes meeting, Annapolis, Maryland, Dec, 2002.
- T9. Neuroet: an easy-to-use artificial neural network for ecological and biological modelling, 4th Conference of the International Society for Ecological Informatics, South Korea, October, 2004.
- T10. Ecological informatics and grappling with the complexity of microorganisms in ecological systems, 4th Conference of the International Society for Ecological Informatics, South Korea, October, 2004.
- T11. Evaluation of gel-pad oligonucleotide microarrays using artificial neural networks. American Society for Microbiology Meeting, Atlanta, GA, June, 12th, 2005.

- T12. Oligonucleotide arrays: journey to the destination. Febit Biotech GmbH, Heidelberg, Germany, July, 19th, 2006.
- T13. Oligonucleotide arrays: the journey and destination. FluIT Biosystems GmbH Schloss Birlinghoven, Germany, August 2nd, 2006.
- T14. Oligonucleotide DNA microarrays for the identification of microorganisms. Institute of Oceanography, Chinese Academy of Sciences, Qingdao, China, October, 2006.
- T15. Neuroet: an easy-to-use artificial neural network for ecological and biological modeling, Institute of Oceanography, Chinese Academy of Sciences, Qingdao, China, October, 2006.
- T16. Simultaneous quantification of multiple rRNA targets in complex target samples. International Association for Dental Research, Toronto, Canada, July 2-5, 2008.
- T17. Exploration of the human oral microbiota using next generation sequencing. Tuskegee University First Joint Symposium, March 12,13, 2010.
- T18. Breathing New Life into DNA Microarrays, Public Health Seminar, University of California, Irvine, Monday, June 2nd, 2014.
- T19. Death activates ancient genes. Sierra Club, Montgomery Alabama, June 18, 2015.
- T20. Death awakens ancient genes. KAUST-University of California Irvine Symposium on 'Epigenetics and Environment' on 2-6 December 2015. King Abdullah University of Science and Technology, Thuwal, Saudi Arabia

Presentations at Conferences

- Noble, P. A., E. Ashton, C. A. Davidson, M. Dziuba, K. D. Webster, and W. L. Albritton. Development of a biosensor for routine environmental microbiology. *Proceedings of the American Water Works Association, Water Quality Technological Conference*, Toronto, Ontario, pp. 1267-1280. 1992.
- Noble, P. A. and W. L. Albritton. An insertion sequence located in the non-TnA portion of "RSF0885". *Canadian Society of Microbiologists Annual Meeting*, St. John's, Nfld., June 14-18, 1992.
- Noble, P. A., L. Sawyer, D. L. Clark, S. W. Hermanowicz, and B. H. Olson. Biological stability of groundwater treated by conventional and membrane methods For Organic Removal. *American Water Works Association - Water Quality Technology Conference*, San Francisco, California, pp. 1609-1631, 1994.
- Noble P.A., R.A. Rule, T Flemmig, T. Beikler, and A. Pozhitkov. Simultaneous quantification of multiple nucleic acid targets in complex target mixtures using high-density oligonucleotide microarrays. *Center for Process Analytical Chemistry* Seattle WA 2008, May 4-8, 2008
- Noble P.A. A. Pozhitkov, and R.A. Rule. Establishing nearest neighbor model parameters for hybridization on the surface of microarrays. *Center for Process Analytical Chemistry* Seattle WA 2008, May 4-8, 2008

Professional Society Membership

- American Society for Microbiology (1990-2012)
International Association for Dental Research (2008)

Professional Society and Other Service

Appointed to the Associate Editor of *Estuarine Coastal and Shelf Science*, 2014-2017.

Appointed to the Editorial Board of *Journal of Microbiological Methods*, 1999-present.

Appointed to the Editorial Board of *Microarrays*, 2015-present.

Appointed to the Editorial Board of *Applied and Environmental Microbiology*, 1999-2001.

Re-Appointed to the Editorial Board of *Applied and Environmental Microbiology*, 2001-2004.

Organized and Co-Chaired an international conference entitled: "Physicochemical fundamentals of DNA hybridizations on surfaces as applied to microarrays and bead-based sequencing technologies ", which was held on May 9th to 12, 2011 at Max-Planck-Institute for Evolutionary Biology in Ploen, Germany. Web site: <http://www.evolbio.mpg.de/ploenworkshop/>

Reviews Made

Journal or Other	Number
<i>Applied and Environmental Microbiology</i>	190+
<i>Journal of Microbiological Methods</i>	100+
<i>Nucleic Acids Research</i>	5
<i>Environmental Microbiology</i>	9
<i>Nature ISME</i>	1
<i>Botanica Marina</i>	1
<i>Journal of Shellfish Diseases</i>	1
<i>Journal of Industrial Microbiology</i>	1
<i>Genome Biology</i>	1
<i>Biotechnology Progress</i>	1
<i>Food Microbiology</i>	1
<i>Bioinformatics</i>	1
<i>Photogrammetric Engineering and Remote Sensing</i>	1
<i>Estuarine, Coastal and Shelf Science</i>	5
<i>Journal of the American College of Nutrition</i>	1
NSF Proposals	52+
NIH Proposals	50
DOE	2
National Environment Research Council UK	1
Nature	1
EPA	16
USDA	14

Undergraduate Students

Univ. California, Irvine

Emily Bruhms, (Environmental Analysis and Design) – taught microbiological methods.

Baruch Institute, Univ. South Carolina

Caroline Roper, (Marine Science) – taught molecular biology methods and was involved in mentoring. Now: Ph.D. from University of California, Davis. Assistant Prof at UCD.

Megan Dantzler, (Marine Science) – taught molecular biology methods. Now: Ph.D. at University of South Carolina

Sara Thieben and Megan Kelly (Marine Science) – taught laboratory and marine biology field skills.

Elizabeth Mack (Biology) – taught fundamentals of neural network computing and was involved in her Honors Thesis: The development of artificial neural networks for the exploration of population genetic data for the exploration of population genetic data. Now: M.D. at University of South Carolina.

Univ. Washington

Erik Tribou, (Computer Science) - supervised computer activities and mentored. Now: has M.S. (Computing) from the University of Las Vegas.

Travis Krick, (Computer Science) - supervised computer-related activities.

Kyle D. Bailey (BioChemistry)- supervised laboratory activities and mentored. Undergraduate Research Symposium 2006: Identification and quantification of microbes in complex microbial mixtures. K. Bailey, A. Pozhitkov and P. A. Noble. Now: a graduate student at Univ. Missouri.

Alison Thomas, MIAME standards adherence research project

Alisa Carlson, MIAME standards adherence research project

Alabama State University

Undergraduate Students learning molecular biology and Roche/454 sequencing: Shayla M Duncan (American Society for Microbiology Undergraduate Research Capstone Program Scholar; National Institute of Standards and Technology 2014 Summer Undergraduate Research Fellow; Senior Capstone Fellow; 2015 Post-baccalaureate Program position at Experimental Transplantation and Immunology Branch of National Institute of Health), Frances White, India Williams, Folasuyi Richardson (ASM undergraduate research honorable mentions award), Suna M. Njie (Senior Capstone Fellow), Jaylah Stanley, and Taelor Jones (work study students).

Graduate Students

Baruch Institute, Univ. South Carolina

Yvette M. Piceno, Ph.D. Student, - taught fundamentals of neural network computing. Now a scientist at Lawrence Livermore Laboratory, California

Univ. Washington

Evaristo Liwa, Ph.D. student (NSF fellow) in the Department of Oceanography and Coastal Sciences, Louisiana State University- Baton Rouge, LA -- taught fundamentals of neural network computing. Ph.D.

Thesis (2006): A neural network model for classification of coastal wetlands vegetation structure with moderate resolution imaging spectro-radiometer (MODIS) data.

Rebecca A. Rule, MEng, Civil and Environmental Engineering. June 1st, 2007 - 2009. Now: USA Army Core of Engineers.

Hsu-Ya Kang, Ph.D, Civil and Environmental Engineering. Jan. 2009 –transferred to PhD Program at University of Taiwan.

Alabama State University

Cecile Mitchell, MS student, 2013 (graduated); Ismail Can, MS, 2014; M. Colby Hunter, PhD, 2013-2016;

Other Student Supervision (service on graduate degree committees)

Ph.D. Committee

Baruch Institute, Univ. South Carolina

Hongyue Dang - taught molecular biology skills. Now: Professor at Institute of Oceanology Chinese Academy of Sciences, Qingdao, China

Univ. Washington

Jeremy Nadeau, Analytical Chemistry, Fall, 2006- graduated.
Jennifer Maki, Analytical Chemistry, Spring, 2009- graduated.

Alabama State University

Kelly Frazier, MS Forensic Science, Fall, 2013 – 2014

Research Activities

Sponsored Research

- | | |
|-----------|--|
| 1997-2000 | Accelerated Research in Biofouling Control, US Dept. of Defense/Office of Naval Research, \$383,251 (co-PI with M. Fletcher and C.R. Lovell, Baruch Institute, University of South Carolina), funded. |
| 1999-2000 | National Science Foundation: Determining genome organization by using a back propagating neural network, DEB Microbial Genetics, \$28,680/2 years, funded. |
| 1999-2001 | CISNET: Molecular to landscape monitoring of estuarine eutrophication, EPA/NOAA/NASA, \$586,553/3 years (co-PI with J.T. Morris, M. Fletcher, D. Porter, Baruch Institute, University of South Carolina), funded. |
| 2000-2001 | National Science Foundation: Novel mathematical approaches for determining ecosystem structure and dynamics. DEB Ecological Systems, \$137,146), funded. |
| 2000-2002 | National Science Foundation: Bicomplexity Incubation Activity: Consequences of urban encroachment on natural ecosystems.. DEB Ecological Systems, \$93,409/12 months, (co-PI with G. Kleppel and others, SUNY), funded. |
| 2001-2005 | EPA: Consortium for Ecoindicator Research for the Gulf of Mexico EPA 2001 STAR Program, (co-PI with Marius Brouwer (PI) and others, University of Southern Mississippi), One component of \$6 M multi-institutional project, funded. |

- 2002-2006 National Institute of Dental and Craniofacial Research: DNA Microchips: Detecting microbes and virulence factors in oral cavity fluids (co-PI Noble), \$3,938,123, funded.
- 2005-2008 NSF/NIH: Collaborative Research: Rapid classification and identification of microbes using DNA microarrays and bioinformatics. Noble (PI): \$495,498 36 months. (Recommended for funding but not funded).
- 2007-2008 University of Washington Provost Bridge Funding: Simultaneous quantification of multiple nucleic acids targets in complex microbial mixtures. Noble (PI), \$44,804, 24 months (funded).
- 2007-2008 University of Washington Royalty Research Fund: Simultaneous quantification of multiple microbes in complex microbial mixtures. Noble (PI), \$35,597, 24 months.
- 2008-2010 Hach Memorial fund: Simultaneous quantification of microbial targets in mixtures using high density arrays. Peter Noble (Co-PI), \$25,800, 24 months.
- 2010-2013 National Science Foundation: MRI: Acquisition of a Roche/454 GS-Jr for Research and Training in Microbiology at Alabama State University. Peter A Noble (PI), 36 months, \$107,200 (funded) + 30,000 matching funds.
- 2011-2011 Molecular Devices- Microarray Systems. Funding for the Conference entitled "Physical chemistry of DNA hybridizations occurring on the solid surfaces as applied to microarray and bead-based sequencing technologies". Max-Planck-Institute in Ploen Germany, May 9 to 12, 2011, (\$1,500).
- 2011-2012 MESC: Microbial community activities in seawater amended with MR252 oil and Corexit 9500. (~\$35,000)
- 2012-2012 SEED-SET -- SEED money to Strengthen a NIH proposal, Enhance national and international research collaborations at top universities, and Train undergraduate students on a state-of-the-art DNA sequencing instrument. ASU Provost Innovation Award, Peter A Noble (PI), 6 months, (\$6,000)
- 2012-2012 Matching funds to SEED-SET grant, University of Düsseldorf, Peter A Noble (PI), 6 months, (\$5,972)
- 2013-2014 National Institute of Health R21: Transplantation of health-associated oral microbiome for treatment of periodontitis. Collaboration with University of Washington. (Scored 23). Approved for funding by NIH – but declined by the University of Washington.
- 2014-2015 International Team for Implantology: Submucosal microbiome and titanium corrosion in peri-implantitis. Collaboration with University of Washington and University of Düsseldorf. (funded; \$25,500).
- 2013-2014 DNA sequencing of biofilms from sludge bioreactors. Collaboration with Prof. Betty Olson and Diego Rosso, Civil and Environmental Engineering, University of California Irvine. (2013: \$2,592) (2014: \$6,000).
- 2013-2014 DNA sequencing of canine periodontal samples. Collaboration with Prof. Beikler of the University of Düsseldorf (\$3,600).

2014-2017 National Science Foundation: RIA: Life after death: the human thanatomicrobiome in organs as a function of post-mortem interval. I wrote this proposal. (\$200,000).

Short courses, workshops, and other educational programs

Pathogens in drinking water, waste and recreational water, American Society for Microbiology Workshop, Washington, DC, day-long workshop, 1995.

The identification, enumeration and detection of water-borne microbes, American Society for Microbiology Workshop, New Orleans, Louisiana, day-long workshop, 1996.

Controlling microbes in drinking water: biostability, biofilms, pathogens and disinfectants, American Society for Microbiology Workshop, Miami Beach, Florida, day-long workshop, 1997.

Neural computing approaches for analyzing microbiological data, American Society for Microbiology Workshop, Atlanta, Georgia, day-long workshop, 1998.

Organized an international conference entitled: "Physical chemistry of DNA hybridizations occurring on the solid surfaces as applied to microarray and bead-based sequencing technologies". Max-Planck-Institute in Ploen Germany, May 9 to 12, 2011.

Organized a College workshop entitled: "Use of Roche 454 Pyrosequencer: Genomes, Metagenomes, and Transcriptomes", Alabama State University, Montgomery, AL, Sept. 25th, 2012.

Service

College Service

NSF ADVANCE Cross-Department Cultural Change Program member: Winter, Spring, Fall 2004-2005

Chair of 2013 Research Symposium, Alabama State University, Montgomery AL, March 20-21, 2013

Chair of 2014 Research Symposium, Alabama State University, Montgomery AL, March 19-20, 2014

Chair of 2015 Research Symposium, Alabama State University, Montgomery AL, March 18-19, 2015

National Service

2002 NSF Biological Oceanography Review Panel

2003 NIH Oral Cavity Review Panel

2004 NIH Oral Cavity Review Panel

2006 (Feb and March) EPA Biological Oceanography Review Panels

2010 (Feb and March) EPA Star Program Review Panels

2011 USDA Review Panel - Animal health and disease

2013 NIH Human Microbiome Review Panel

2013 NSF Division of Biological Infrastructure Review Panel

2015 NSF Division of Biological Review Panel

All Other Service

Science Judge at 2011 Louis Stokes Alliance for Minority Participation poster competition, Renaissance Hotel, Montgomery AL, April 11, 2011.

Science Judge at 2012 Annual Biomedical Research Conference for Minority Students, San Jose, CA, November 7-10, 2012

Sponsored Visiting Professor (at Baruch Institute, Univ. South Carolina): Prof. Jonas S. Almeida, (1998-2000) from New University of Lisbon (Universidade Nova de Lisboa), Portugal. Now: Full Prof. at University of Texas, Huston, TX.

Mentored post-doctoral fellow: Alex Pozhitkov (at University of Washington), He just finished as Research Associate, Max-Planck-Institute for Evolutionary Biology. Ploen, Germany and is now a Research Associate and NIH scholar at the University of Washington and Fred Hutchinson Cancer Research Institute.

Mentored post-doctoral fellow: Hidetoshi Urakawa at the University of Washington. He was associate professor of The Ocean Research Institute, The University of Tokyo and is now an associate professor in Florida.

Courses Taught

University	Course	Course Title	Quarter	Credit hours	Students
University of California, Irvine	BIO 101	Intro Biology Course	Fall 1995	3	60
University of Washington	CEE 700	Graduate Research F06	Fall 2006	2	1
	CEE 700	Graduate Research W07	Winter 2007	2	1
	CEE 700	Graduate Research S07	Spring 2007	2	1
	CEE 700	Graduate Research F08	Fall 2008	2	1
	CEE 700	Graduate Research W09	Winter 2009	10	1
	CEE 700	Graduate Research S09	Winter 2009	2	1
	CEE 600	Graduate Research W09	Winter 2009	3	1
	CEE 600	Graduate Research S09	Spring 2009	3	1
Alabama State University	BIO 730.1	Microbial Physiology	Fall 2009	3	10
	CHE 700.1	Biochemistry	Winter 2010	3	3
	BIO 614	Applied Microbiology	Fall 2010	4	2
	BIO 614/702	Applied Microbiology	Winter 2011	4	2
	BIO 619/704	Molecular Genetics	Spring 2012	4	2
	BIO 614/701	Applied Microbiology	Fall 2012	4	5
	BIO 719-01	Scientific Writing and Presentation	Winter 2013	4	1
	BIO 521	Bioinstrumentation and Biotechniques	Summer 2013	4	6
	BIO 730.1	Microbial Physiology	Fall 2013	3	10
	BIO 740.1	Environmental Microbiology	Winter 2014	4	1
	BIO 799	Graduate Research	Winter 2014	1	1
	BIO805	Microbial Ecology	Summer 2014	4	4
	BIO 799	Graduate Research	Summer 2014	1	

					1
	BIO521	Bioinstrumentation and Biotechniques	Fall 2014	4	5
	BIO 799	Graduate Research	Fall 2014	1	1
	BIO835	Water Microbiology/Distribution Systems	Fall 2014	4	10
	BIO730	Genomes and Genes	Spring 2015	3	3
	BIO730.1	Microbial Physiology	Fall 2015	3	1
	BIO700	Biostatistics	Winter 2016	3	10

References for Peter A. Noble

1. Dr. Alex Pozhitkov, Senior Technical Lead in Research Applications. Associate Director. City of Hope, Information Sciences - Beckman Research Institute, 4920 Rivergrade Rd., Irwindale, CA 91706 Email: apozhitkov@coh.org Phone: 1 626 218-6647
2. Professor Betty H. Olson, Civil and Environmental Engineering, Associate Director Urban Water Institute, University of California, Irvine. 92697 Email: bholson@uci.edu Phone: 949 824-5281
3. Professor and Chair Oladele Ogunseitan, Department of Population Health & Disease Prevention, Director of Research Education, Training and Career Development, Institute for Clinical and Translational Science, Board Member, UC Global Health Institute University of California, Irvine. 92697 Email: oladele.ogunseitan@uci.edu Phone: 949-824-0611
4. Director Prof. Diethard Tautz, Max-Planck-Institute for Evolutionary Biology, Ploen, Germany, August-Thienemannstrasse 2, 24306 Ploen (Germany) Email: tautz@evolbio.mpg.de Phone: 011 49 4522 763 390
5. Professor Shivani Soni, Department of Biological Sciences, Alabama State University, Montgomery Alabama 36101 Email: shivani_soni_2000@yahoo.com Phone: 617-501-0937
6. Professor Diego Ross, Civil and Environmental Engineering, Director Urban Water Institute, University of California, Irvine. 92697 Email: bidui@uci.edu Phone: (949) 824-8661