Patrick Martin Gillevet

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EDUCATION

1976-1982	Univ. of Manitoba	Biochemistry Ph.D.
1972-1976	Univ. of Toronto	Microbiology B.Sc.

PROFESSIONAL EXPERIENCE

2008-present: *Director, Microbiome Analysis Center,*
Department of Environmental Sciences and Policy
George Mason University, Fairfax, Virginia 22030

2012-present: *Professor,*
Department of Biology
George Mason University, Fairfax, Virginia 22030

2012-2016: *Professor,*
Department of Environmental Sciences and Policy
George Mason University, Fairfax, Virginia 22030

2002-2011: *Associate Professor,*
Department of Environmental Sciences and Policy
George Mason University, Fairfax, Virginia 22030

2000-2002: *Research Professor,*
The School of Computational Sciences
George Mason University, Fairfax, Virginia 22030

1996-2000: *Research Associate Professor,*
The Institute for Bioscience, Bioinformatics and Biotechnology
George Mason University, Fairfax, Virginia 22030

1994- 2002: *Affiliate Professor,*
Department of Biology,
George Mason University, Fairfax, Virginia 22030

1993- 2000: *Affiliate Associate Professor,*
Institute for Computational Sciences and Informatics,
George Mason University, Fairfax, Virginia 22030

At George Mason University, we are using state of the art Genomics and Bioinformatics tools to study problems in Molecular Ecology and Evolution. We are developing molecular techniques for the high throughput characterization of the interactions of bacteria, fungi, archae, protists in microbial communities, molecular systematics, and population genetics. We have recently developed a Multitag Sequencing methodology that allows us to perform deep sequencing on dozens of samples at one time. We are using this technology to reconstruct evolutionary histories of organisms, characterize microbial communities of aquatic and terrestrial ecosystems, and analyze human and environmental diseases. We have recently established a MicroBiome Analysis Center at George Mason University to focus on the Molecular Ecology of the Human Microbiome and Environmental Ecosystems.

1993-1996: *Visiting Scientist,*
National Center for Human Genome Research,
National Institutes of Health, Bethesda, MD 20892

As a Visiting Scientist at the National Center for Human Genome Research, NIH, I established an integrated Fluorescent sequencing facility to rapidly sequence cDNA involved in Genetic lesions such as Trinucleotide repeat expansions. This system includes a LIMS based on GDE for the automated analysis of sequence data and it's presentation in a HTML based browsing system on the World Wide Web and had a throughput of over a million bases per year. I developed a modified version of the Genomic Walking sequencing technology to detect hypomethylation events in human disease states such as Prader-Willi/Angelman syndrome and Prostate cancer. I characterized a highly conserved Line Element that rearranges during development.

1990-1993: *Director, Harvard Genome Laboratory,*
The Biological Laboratories,
Harvard University, Cambridge, MA 02138

At the Harvard Genome I supervised the implementation of a program to sequence the model organism *Mycoplasma capricolum* using a new probing strategy, Multiplex Genomic Walking. The project was comprised of a computational group (4 persons), two supporting scientists, a development technical staff of 3 persons, and a production line staff of 5 persons. The project finished an initial stage of development and had the capability of producing a million base pairs of finished sequence per year. I supervised the development of a software environment, which facilitated the handling of data from the Walking strategy. The core software, called the Genetic Data Environment (GDE) is an XWindows based multiple sequence editor, which allows one to hook in external functions with very little effort. All processes in the wet lab were tracked and controlled by a Graphic User Interface (EZshelltool) linked to an internal database. This laboratory information management system has recently been incorporated into the Wisconsin package (SeqLab) and is commercially available.

1988-1990: *Technical Director,*
Center for Prokaryotic Genome Analysis.
Department of Microbiology, University of Illinois, Urbana, IL 61801

As the Technical Director of the Center for Prokaryotic Genome Analysis, I established wet lab and computer facilities at the University of Illinois. The mandate of the Center was to accomplish the large scale sequencing of entire prokaryotic genomes. The approach taken at the Center encompassed a hybrid physical mapping strategy using both top down and bottom up techniques and the integration of this mapping strategy with Fluorescent and Multiplex sequencing technology. I installed the necessary automated equipment for the large scale sequencing endeavor and trained technical personnel and students in a variety of methodologies related to the above. I developed a "Thermal Cycle" Sequencing technique on the ABI fluorescent sequencer that is now widely used in both the academic and industrial community.

1984-1988: *Post Doctoral Associate.*
Department of Biochemistry and Molecular Biology.
University of Florida, Gainesville, FL 32610.

The goals of the project were to delineate the mechanism of mitochondrial ribosomal protein evolution and correlate it with the evolution of the mitochondrial and nuclear genomes. Specifically, the project involved the isolation and characterization of cDNA clones from lambda gt11 expression libraries using antibodies to bovine mitochondrial ribosomal proteins. I installed several databases, such as Genbank and the Protein Inquiry Resource, on a VAX 11/780 and was closely involved in their maintenance and operation.

1982-1984: *Post Doctoral Associate.*
Department of Biochemistry and Molecular Biology,
University of Florida, Gainesville, Florida 32610.

The goal of this project was to isolate the cDNA clone for Calmodulin in an expression vector and to modify this construct by site directed mutagenesis. This research involved the construction of a cDNA library to bovine brain mRNA and the subsequent screening of this library to identify a full length Calmodulin clone.

PEER REVIEVED PUBLICATIONS

1. Dakshinamurti K, Gillevet PM (1979) Identification of biocytin. Methods in enzymology 62:398-401.
2. Gillevet PM, Dakshinamurti K (1982) Rat-liver fatty-acid-synthesizing complex. Bioscience Reports 2(10):841-848.
3. Gillevet PM, Dakashinamurti K (1983) Phosphorylation of proteolytically-nicked rat hepatic acetyl-CoA carboxylase. International Journal of Biochemistry 15(11):1361.
4. Gregori L, Gillevet PM, Doan P, Chau V (1985) Mechanism of enzyme regulation by calmodulin and Ca2+. Current Topics in Cellular Regulation 27:447-454.
5. Liu KH, Baumbach GA, Gillevet PM, Godkin JD (1990) Purification and characterization of bovine placental retinol-binding protein. Endocrinology 127(6):2696-2704.
6. Dharmavaram R, Gillevet P, Konisky J (1991) Nucleotide sequence of the gene encoding the vanadate-sensitive membrane-associated ATPase of Methanococcus voltae. Journal of Bacteriology 173(6):2131-2133.
7. Smith SW, Overbeek R, Woese CR, Gilbert W, Gillevet PM (1994) The Genetic Data Environment an Expandable GUI for Multiple Sequence Analysis. Computer Applications in the Biosciences 10(6):671-675.
8. Bork P, Ouzounis C, Casari G, Schneider R, Sander C, Dolan M, Gilbert W, Gillevet PM (1995) Exploring the Mycoplasma capricolum genome: A minimal cell reveals its physiology. Molecular Microbiology 16(5):955-967.
9. Dolan M, Ally A, Purzycki MS, Gilbert W, Gillevet PM (1995) Large-Scale Genomic Sequencing-Optimization of Genomic Chemical Sequencing Reactions. Biotechniques 19(2):264.
10. Robbins CM, Hsu E, Gillevet PM (1996) Sequencing homopolymer tracts and repetitive elements. Biotechniques 20(5):862-&.
11. Twerenbold D, Vuilleumier JL, Gerber D, Tadsen A, vandenBrandt B, Gillevet PM (1996) Detection of single macromolecules using a cryogenic particle detector coupled to a biopolymer mass spectrometer. Applied Physics Letters 68(24):3503-3505.
12. Reddy PH, Stockburger E, Gillevet P, Tagle DA (1997) Mapping and characterization of novel (CAG)n repeat cDNAs from adult human brain derived by the oligo capture method. Genomics 46(2):174-182.
13. Gillevet PM, Ally A, Dolan M, Hsu E, Purzycki MS, Overbeek R, Selkov EE, Smith S, Wang C, Gilbert W (1998) Mycoplasma capricolum genome project. Bacterial Genomes:526-540.
14. Harasewych MG, Adamkewicz SL, Plassmeyer M, Gillevet PM (1998) Phylogenetic relationships of the lower Caenogastropoda (Mollusca, Gastropoda, Architaenioglossa, Campaniloidea, Cerithioidea) as determined by partial 18S rDNA sequences. Zoologica Scripta 27(4):361-372.
15. Hilton GC, Martinis JM, Wollman DA, Irwin KD, Dulcie LL, Gerber D, Gillevet PM, Twerenbold D (1998) Impact energy measurement in time-of-flight mass spectrometry with cryogenic microcalorimeters. Nature 391(6668):672-675.
16. Widmer F, Seidler RJ, Gillevet PM, Watrud LS, Di Giovanni GD (1998) A highly selective PCR protocol for detecting 16S rRNA genes of the genus Pseudomonas (sensu stricto) in environmental samples. Applied and Environmental Microbiology 64(7):2545-2553.
17. Amaral Zettler LA, Nerad TA, O'Kelly CJ, Peglar MT, Gillevet PM, Silberman JD, Sogin

ML (2000) A molecular reassessment of the leptomyxid amoebae. Protist 151(3):275-282.
18. Litchfield CD, Gillevet PM (2002) Microbial diversity and complexity in hypersaline environments: A preliminary assessment. Journal of Industrial Microbiology & Biotechnology 28(1):48-55.
19. Mills DK, Fitzgerald K, Litchfield CD, Gillevet PM (2003) A comparison of DNA profiling techniques for monitoring nutrient impact on microbial community composition during bioremediation of petroleum-contaminated soils. Journal of Microbiological Methods 54(1):57-74.
20. Peglar MT, Zettler LAA, Anderson OR, Nerad TA, Gillevet PM, Mullen TE, Frasca S, Silberman JD, O'Kelly CJ, Sogin ML (2003) Two new small-subunit ribosomal RNA gene lineages within the subclass gymnamoebia. Journal of Eukaryotic Microbiology 50(3):224-232.
21. Tang JS, Gillevet PM (2003) Reclassification of ATCC 9341 from Micrococcus luteus to Kocuria rhizophila. International Journal of Systematic and Evolutionary Microbiology 53:995-997.
22. Lydell C, Dowell L, Sikaroodi M, Gillevet P, Emerson D (2004) A population survey of members of the phylum Bacteroidetes isolated from salt marsh sediments along the East Coast of the United States. Microbial Ecology 48(2):263-273.
23. Peglar MT, Nerad TA, Anderson OR, Gillevet PM (2004) Identification of amoebae implicated in the life cycle of Pfiesteria and Pfiesteria-like dinoflagellates. Journal of Eukaryotic Microbiology 51(5):542-552.
24. Drgon T, Saito K, Gillevet PM, Sikaroodi M, Whitaker B, Krupatkina DN, Argemi F, Vasta GR (2005) Characterization of ichthyocidal activity of Pfiesteria piscicida: Dependence on the dinospore cell density. Applied and Environmental Microbiology 71(1):519-529.
25. Webb SR, Garman GC, McIninch SP, Nerad TA, Peglar MT, Gillevet PM, Brown BL (2005) Etiology of ulcerative lesions of Atlantic menhaden (Brevoortia tyrannus) from James River, Virginia. Parasitology Research 97(5):358-366.
26. Litchfield CD, Sikaroodi M, Gillevet PM (2006) Characterization of natural communities of halophilic microorganisms, in Extremophiles, vol 35, pp 513-+.
27. Mills DK, Entry JA, Voss JD, Gillevet PM, Mathee K (2006) An assessment of the hypervariable domains of the 16S rRNA genes for their value in determining microbial community diversity: the paradox of traditional ecological indices. Fems Microbiology Ecology 57(3):496-503.
28. Torzilli AP, Sikaroodi M, Chalkley D, Gillevet PM (2006) A comparison of fungal communities from four salt marsh plants using automated ribosomal intergenic spacer analysis (ARISA). Mycologia 98(5):690-698.
29. Yang CY, Mills D, Mathee K, Wang Y, Jayachandran K, Sikaroodi M, Gillevet P, Entry J, Narashimhan G (2006) An ecoinformatics tool for microbial community studies: Supervised classification of Amplicon Length Heterogeneity (ALH) profiles of 16S rRNA. Journal of Microbiological Methods 65(1):49-62.
30. Ahn C, Gillevet PM, Sikaroodi M (2007) Molecular characterization of microbial communities in treatment microcosm wetlands as influenced by macrophytes and phosphorus loading. Ecological Indicators 7(4):852-863.
31. Bisson IA, Marra PP, Burtt EH, Sikaroodi M, Gillevet PM (2007) A molecular comparison of plumage and soil bacteria across biogeographic, ecological, and taxonomic scales. Microbial Ecology 54(1):65-81.

32. Komanduri S, Gillevet PM, Sikaroodi M, Mutlu E, Keshavarzian A (2007) Dysbiosis in pouchitis: Evidence of unique microfloral patterns in pouch inflammation. Clinical Gastroenterology and Hepatology 5(3):352-360.
33. Mills DK, Entry JA, Gillevet PM, Mathee K (2007) Assessing microbial community diversity using amplicon length heterogeneity polymerase chain reaction. Soil Science Society of America Journal 71(2):572-578.
34. Ertz D, Lawrey JD, Sikaroodi M, Gillevet PM, Fischer E, Killmann D, Serusiaux E (2008) A New Lineage of Lichenized Basidiomycetes Inferred from a Two-Gene Phylogeny: The Lepidostromataceae with Three Species from the Tropics. American Journal of Botany 95(12):1548-1556.
35. Hamdan LJ, Gillevet PM, Sikaroodi M, Pohlman JW, Plummer RE, Coffin RB (2008) Geomicrobial characterization of gas hydrate-bearing sediments along the mid-Chilean margin. Fems Microbiology Ecology 65(1):15-30.
36. Lawrey JD, Diederich P, Sikaroodi M, Gillevet PM (2008) Remarkable nutritional diversity of basidiomycetes in the Corticiales, including a new foliicolous species of Marchandiomyces (Anamorphic Basidiomycota, Corticiaceae) from Australia. American Journal of Botany 95(7):816-823.
37. Pesenti PT, Sikaroodi M, Gillevet PM, Sanchez-Porro C, Ventosa A, Litchfield CD (2008) Halorubrum californiense sp nov., an extreme archaeal halophile isolated from a crystallizer pond at a solar salt plant in California, USA. International Journal of Systematic and Evolutionary Microbiology 58:2710-2715.
38. Spear GT, Sikaroodi M, Zariffard MR, Landay AL, French AL, Gillevet PM (2008) Comparison of the diversity of the vaginal microbiota in HIV-infected and HIV-uninfected women with or without bacterial vaginosis. Journal of Infectious Diseases 198(8):1131-1140.
39. Ahn C, Gillevet PM, Sikaroodi M, Wolf KL (2009) An assessment of soil bacterial community structure and physicochemistry in two microtopographic locations of a palustrine forested wetland. Wetlands Ecology and Management 17(4):397-407.
40. Bisson I-A, Marra PP, Burtt EH, Jr., Sikaroodi M, Gillevet PM (2009) Variation in Plumage Microbiota Depends on Season and Migration. Microbial Ecology 58(1):212-220.
41. Gillevet PM, Sikaroodi M, Torzilli AP (2009) Analyzing salt-marsh fungal diversity: comparing ARISA fingerprinting with clone sequencing and pyrosequencing. Fungal Ecology 2:160-167.
42. Lawrey JD, Lucking R, Sipman HJM, Chaves JL, Redhead SA, Bungartz F, Sikaroodi M, Gillevet PM (2009) High concentration of basidiolichens in a single family of agaricoid mushrooms (Basidiomycota: Agaricales: Hygrophoraceae). Mycological Research 113:1154-1171.
43. Litchfield CD, Oren A, Irby A, Sikaroodi M, Gillevet PM (2009) Temporal and Salinity Impacts on the Microbial Diversity at the Eilat, Israel Solar Salt Plant. Global Nest Journal 11(1):86-90.
44. Lücking R, Lawrey JD, Sikaroodi M, Gillevet PM, Chaves JL, Sipman HJM, Bungartz F (2009) Do Lichens Domesticate Photobionts Like Farmers Domesticate Crops? Evidence from a Previously Unrecognized Lineage of Filamentous Cyanobacteria. American Journal of Botany 96(8):1409-1418.
45. Mutlu E, Keshavarzian A, Engen P, Forsyth CB, Sikaroodi M, Gillevet P (2009) Intestinal Dysbiosis: A Possible Mechanism of Alcohol-Induced Endotoxemia and Alcoholic Steatohepatitis in Rats. Alcoholism-Clinical and Experimental Research

33(10):1836-1846.
46. Rose DJ, Keshavarzian A, Patterson JA, Venkatachalam M, Gillevet P, Hamaker BR (2009) Starch-entrapped microspheres extend in vitro fecal fermentation, increase butyrate production, and influence microbiota pattern. Molecular Nutrition & Food Research 53:S121-S130.
47. Bokhari H, Smith C, Veerendra K, Sivaraman J, Sikaroodi M, Gillevet P (2010) Novel fluorescent protein from Hydnophora rigida possess cyano emission. Biochemical and Biophysical Research Communications 396(3):631-636.
48. Ghannoum MA, Jurevic RJ, Mukherjee PK, Cui F, Sikaroodi M, Naqvi A, Gillevet PM (2010) Characterization of the Oral Fungal Microbiome (Mycobiome) in Healthy Individuals. Plos Pathogens 6(1):1-8.
49. Gillevet P, Sikaroodi M, Keshavarzian A, Mutlu EA (2010) Quantitative Assessment of the Human Gut Microbiome Using Multitag Pyrosequencing. Chemistry & Biodiversity 7(5):1065-1075.
50. Naqvi A, Rangwala H, Spear G, Gillevet P (2010a) Analysis of Multitag Pyrosequence Data from Human Cervical Lavage Samples. Chemistry & Biodiversity 7(5):1076-1085.
51. Naqvi A, Rangwale H, Keshavarzian A, Gillevet P (2010b) Network-Based Modeling of the Human Gut Microbiome. Chemistry & Biodiversity 7(5):1040-1050.
52. Spear GT, Gilbert D, Sikaroodi M, Doyle L, Green L, Gillevet PM, Landay AL, Veazey RS (2010) Identification of Rhesus Macaque Genital Microbiota by 16S Pyrosequencing Shows Similarities to Human Bacterial Vaginosis: Implications for Use as an Animal Model for HIV Vaginal Infection. Aids Research and Human Retroviruses 26(2):193-200.
53. Bokhari H, Anwar M, Mirza HB, Gillevet PM (2011) Evidences of lateral gene transfer between Archaea and pathogenic bacterial genome sequences. Bioinformation 6(8):ISSN 0973-2063.
54. Diederich P, Lawrey JD, Sikaroodi M, Gillevet PM (2011) A new lichenicolous teleomorph is related to plant pathogens in Laetisaria and Limonomyces (Basidiomycota, Corticiales). Mycologia 103(3):525-533.
55. Dixon E, Clubb C, Pittman S, Ammann L, Rasheed Z, Kazmi N, Keshavarzian A, Gillevet P, Rangwala H, Couch RD (2011) Solid-Phase Microextraction and the Human Fecal VOC Metabolome. Plos One 6(4).
56. Ghannoum MA, Mukherjee PK, Jurevic RJ, Retuerto M, Brown RE, Sikaroodi M, Webster-Cyriaque J, Gillevet PM (2011) Metabolomics Reveals Differential Levels of Oral Metabolites in HIV-Infected Patients: Toward Novel Diagnostic Targets. OMICS A Journal of Integrative Biology 15(0):1-11.
57. Hamdan LJ, Gillevet PM, Pohlman JW, Sikaroodi M, Greinert J, Coffin RB (2011) Diversity and biogeochemical structuring of bacterial communities across the Porangahau ridge accretionary prism, New Zealand. Fems Microbiology Ecology 77(3):518-532.
58. Harasewych MG, Sikaroodi M, Gillevet PM (2011) The Delray Beach, Florida, colony of Cerion (Paracerion) tridentatum costellata Pilsbry, 1946 (Gastropoda: Pulmonata: Cerionidae): Evidence for indirect Cuban origins. Nautilus 125(4):173-181.
59. Lawrey JD, Diederich P, Nelsen MP, Sikaroodi M, Gillevet PM, Brand AM, Van den Boom P (2011) The obligately lichenicolous genus Lichenoconium represents a novel lineage in the Dothideomycetes. Fungal Biology 115(2):176-187.
60. Spear GT, Gilbert D, Landay AL, Zariffard R, French AL, Patel P, Gillevet PM (2011) Pyrosequencing of the Genital Microbiotas of HIV-Seropositive and -Seronegative Women Reveals Lactobacillus iners as the Predominant Lactobacillus Species. Applied

and Environmental Microbiology 77(1):378-381.
61. Wisittipanit N, Rangwala H, Gillevet P (2011) Analysis of Microbiome Data across Inflammatory Bowel Disease Patients. Paper presented at the Machine Learning and Applications and Workshops (ICMLA), 2011 10th International Conference on.
62. Bajaj JS, Gillevet PM, Patel NR, Ahluwalia V, Ridlon JM, Kettenmann B, Schubert CM, Sikaroodi M, Heuman DM, Crossey MME, Bell DE, Hylemon PB, Fatouros PP, Taylor-Robinson SD (2012a) A longitudinal systems biology analysis of lactulose withdrawal in hepatic encephalopathy. Metabolic Brain Disease 27(2):205-215.
63. Bajaj JS, Hylemon PB, Ridlon JM, Heuman DM, Daita K, White MB, Monteith P, Noble NA, Sikaroodi M, Gillevet PM (2012b) Colonic mucosal microbiome differs from stool microbiome in cirrhosis and hepatic encephalopathy and is linked to cognition and inflammation. American Journal of Physiology-Gastrointestinal and Liver Physiology 303(6):G675-G685.
64. Bajaj JS, Ridlon JM, Hylemon PB, Thacker LR, Heuman DM, Smith S, Sikaroodi M, Gillevet PM (2012c) Linkage of gut microbiome with cognition in hepatic encephalopathy. American Journal of Physiology-Gastrointestinal and Liver Physiology 302(1):G168-G175.
65. Frankenfeld CL, Poudrier JK, Waters NM, Gillevet PM, Xu Y (2012) Dietary Intake Measured from a Self-Administered, Online 24-Hour Recall System Compared with 4-Day Diet Records in an Adult US Population. Journal of the Academy of Nutrition and Dietetics 12(10):1642-1647.
66. Hamdan LJ, Sikaroodi M, Gillevet PM (2012) Bacterial Community Composition and Diversity in Methane Charged Sediments Revealed by Multitag Pyrosequencing. Geomicrobiology Journal 29(4):340-351.
67. Mehta S, Maclain I, Baiely R, Moses S, Gillevet P, Spear G (2012a) Microbial Diversity of Genital Ulcer Disease in Men Enrolled in a Randomised Trial of Male Circumcision in Kisumu, Kenya. Sexually Transmitted Infections 7(7):1-9.
68. Mehta SD, Green SJ, Maclean I, Hu H, Bailey RC, Gillevet PM, Spear GT (2012b) Microbial Diversity of Genital Ulcer Disease in Men Enrolled in a Randomized Trial of Male Circumcision in Kisumu, Kenya. Plos One 7(7).
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70. Mutlu EA, Gillevet PM, Rangwala H, Sikaroodi M, Naqvi A, Engen PA, Kwasny M, Lau CK, Keshavarzian A (2012) Colonic microbiome is altered in alcoholism. American Journal of Physiology-Gastrointestinal and Liver Physiology 302(9):G966-G978.
71. Sikaroodi M, Gillevet PM (2012) Quality control in multi-tag pyrosequencing of microbial communities. BioTechniques 53(6):381-383.
72. Spear G, Rothaeulser K, Fritts L, Gillevet PM, Miller CJ (2012a) In Captive Rhesus Macaques, Cervicovaginal Inflammation Is Common but Not Associated with the Stable Polymicrobial Microbiome. Plos One 7(12):1-10.
73. Spear GT, Kersh E, Guenthner P, Vishwanathan SA, Gilbert D, Zariffard MR, Mirmonsef P, Landay A, Zheng L, Gillevet P (2012b) Longitudinal Assessment of Pigtailed Macaque Lower Genital Tract Microbiota by Pyrosequencing Reveals Dissimilarity to the Genital Microbiota of Healthy Humans. AIDS Res Hum Retroviruses 28(10):1244-9.
74. Bajaj JS, Heuman DM, Sanyal AJ, Hylemon PB, Sterling RK, Stravitz RT, Fuchs M, Ridlon JM, Daita K, Monteith P, Noble NA, White MB, Fisher A, Sikaroodi M,

Rangwala H, Gillevet PM (2013) Modulation of the Metabiome by Rifaximin in Patients with Cirrhosis and Minimal Hepatic Encephalopathy. Plos One 8(4).
75. Cook GM, Rothenberger JP, Sikaroodi M, Gillevet PM, Peters EC, Jonas RB (2013a) A comparison of culture-dependent and culture-independent techniques used to characterize bacterial communities on healthy and white plague-diseased corals of the Montastraea annularis species complex. Coral Reefs 32(2):375-388.
76. Cook GM, Rothenberger JP, Sikaroodi M, Gillevet PM, Peters EC, Jonas RB (2013b) A Comparison of Culture-dependent and Culture-independent techniques used to Characterize Bacterial Communities on Healthy and White Plague Type II-Diseased Corals of the Montastraea annularis species complex. Coral Reef Journal 32(375-388).
77. Couch RD, Navarro K, Sikaroodi M, Gillevet P, Forsyth CB, Mutlu E, Engen PA, Keshavarzian A (2013) The Approach to Sample Acquisition and Its Impact on the Derived Human Fecal Microbiome and VOC Metabolome. Plos One 8(11).
78. Dal-Forno M, Lawrey JD, Sikaroodi M, Bhattarai S, Gillevet PM, Sulzbacher M, Luecking R (2013) Starting from scratch: Evolution of the lichen thallus in the basidiolichen Dictyonema (Agaricales: Hygrophoraceae). Fungal Biology 117(9):584-598.
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80. Hamdan LJ, Coffin RB, Sikaroodi M, Greinert J, Treude T, Gillevet PM (2013) Ocean currents shape the microbiome of Arctic marine sediments. Isme Journal 7(4):685-696.
81. Kakiyama G, Pandak WM, Gillevet PM, Hylemon PB, Heuman DM, Daita K, Takei H, Muto A, Nittono H, Ridlon JM, White MB, Noble NA, Monteith P, Fuchs M, Thacker LR, Sikaroodi M, Bajaj JS (2013) Modulation of the fecal bile acid profile by gut microbiota in cirrhosis. Journal of Hepatology 58(5):949-955.
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84. Bajaj JS, Cox IJ, Betrapally NS, Heuman DM, Schubert ML, Ratneswaran M, Hylemon PB, White MB, Daita K, Noble NA, Sikaroodi M, Williams R, Crossey MME, Taylor-Robinson SD, Gillevet PM (2014a) Systems biology analysis of omeprazole therapy in cirrhosis demonstrates significant shifts in gut microbiota composition and function. American journal of physiology. Gastrointestinal and liver physiology 307(10):G951-7.
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Hepatology 60(5):940-947.
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157. Bajaj, J.S., et al., *HCV Eradication Does Not Impact Gut Dysbiosis or Systemic Inflammation in Cirrhotic Patients.* Gastroenterology, 2016. **150**(4): p. S219-S219.
158. Bajaj, J.S.S., et al., *HCV Eradication does not impact gut dysbiosis or systemic inflammation in cirrhotic patients.* Journal of Hepatology, 2016. **64**: p. S615-S616.
159. Bajaj, J.S.S., et al., *Chronic opioid therapy is associated with gut dysbiosis in cirrhosis independent of cirrhosis severity.* Journal of Hepatology, 2016. **64**: p. S446-S447.
160. Calenda, G., et al., *Safety of GRFT-containing Vaginal Gels in Rhesus Macaques.* Aids Research and Human Retroviruses, 2016. **32**: p. 216-216.
161. Kang, D., et al., *The Beneficial Impact of Rifaximin on Systemic and Intestinal Inflammation and Ammonia Occurs Even Without Microbiota: More Than an Antibiotic.* Gastroenterology, 2016. **150**(4): p. S1022-S1023.
162. Kang, D.J., et al., *The beneficial impact of rifaximin on systemic and intestinal inflammation and ammonia occurs even without microbiota: more than an antibiotic.* Journal of Hepatology, 2016. **64**: p. S447-S447.
163. Llorente-Izquierdo, A.C., et al., *Gastric Acid Suppression Promotes Chronic Liver Disease by Inducing Overgrowth of Intestinal Enterococcus.* Hepatology, 2016. **64**: p. 24A-25A.
164. Puri, P., et al., *Alcoholic Hepatitis and Disease Severity Are Associated With Distinct Shifts in Fecal Microbial Ecology.* Hepatology, 2016. **64**: p. 609A-609A.
165. Puri, P., et al., *Body Weight Is a Key Determinant of Alcohol-Induced Shifts in Intestinal Microbial Ecology.* Hepatology, 2016. **64**: p. 806A-806A.
166. Bajaj, J.S., et al., *A novel combined Gut Fungal and Bacterial metric, Bacteroidetes/Ascomycota ratio, is independently Associated with Hospitalization Risk in Cirrhotic Patients.* Hepatology, 2017. **66**: p. 454A-455A.
167. Bajaj, J.S., et al., *Gut microbiota are associated with impaired brain recovery after liver transplant.* Gastroenterology, 2017. **152**(5): p. S1066-S1066.

168. Bajaj, J.S., et al., *Gut microbiota are associated with impaired brain recovery after liver transplant.* Journal of Hepatology, 2017. **66**(1): p. S63-S64.
169. Bajaj, J.S., et al., *DNA and RNA analysis of Gut microbiota in Cirrhosis Demonstrate Different profiles which can Predict Hospitalizations Independently.* Hepatology, 2017. **66**: p. 455A-456A.
170. Bajaj, J.S., et al., *Gut Microbial Functional Changes After Liver Transplant Can Modulate Infection Risk And Increase Atherogenic Metabolites.* Hepatology, 2017. **66**: p. 52A-53A.
171. Bajaj, J.S., et al., *Fecal microbiota transplant using a precision medicine approach is safe, associated with lower hospitalization risk and improved cognitive function in recurrent Hepatic Encephalopathy.* Gastroenterology, 2017. **152**(5): p. S906-S906.
172. Bajaj, J.S., et al., *Fecal microbiota transplant using a precision medicine approach is safe, Associated with lower hospitalization risk and improved cognitive function in recurrent hepatic encephalopathy.* Journal of Hepatology, 2017. **66**(1): p. S49-S49.
173. Bajaj, J.S., et al., *Periodontal therapy Improves Oral and Gut Microbiota and Reduces Systemic Inflammation and Endotoxemia in Patients with Cirrhosis.* Hepatology, 2017. **66**: p. 258A-259A.
174. Bajaj, J.S., et al., *Altered Gut Microbiota at Hospitalization are Associated with ACLF, type of Organ Failure, and Death in a Multi-Center North American Cohort.* Hepatology, 2017. **66**: p. 445A-446A.
175. Brim, H., et al., *Gut microbiome analysis reveals major dysbiosis in sickle cell diseases patients with a prevalence of Veillonella strains.* Gastroenterology, 2017. **152**(5): p. S631-S631.
176. Gillevet, P.M., et al., *Use of the microbiome as a biomarker to identify patients with colorectal polyps.* Gastroenterology, 2017. **152**(5): p. S152-S152.
177. Laffin, M., et al., *Endospore-forming bacteria are associated with maintenance of remission following intestinal resection in Crohn's Disease.* Gastroenterology, 2017. **152**(5): p. S192-S193
178. Acharya, C., et al., *Renal dysfunction is associated with gut microbiota changes in Cirrhosis.* Gastroenterology, 2018. **154**(6): p. S1179-S1179.
179. Amizadegan, J., et al., *Changes in GUT Microbiome Associated with Nash Progression in a Diet Induced Animal MODEL of Nonalcoholic Steatohepatitis (NASH).* Hepatology, 2018. **68**: p. 758A-759A.
180. Bajaj, J.S., et al., *Proton pump inhibitor initiation and withdrawal can modulate gut microbiota in patients with decompensated Cirrhosis.* gastroenterology, 2018. **154**(6): p. S948-S949.
181. Bajaj, J.S., et al., *Specific Gut Microbiota Patterns Are Linked with Different Cognitive Testing Strategies in Covert Hepatic Encephalopathy.* Hepatology, 2018. **68**: p. 144A-144A.
182. Bajaj, J.S., et al., *Diet affects gut microbiota and modulates hospitalization risk differentially in an international cirrhosis cohort.* Gastroenterology, 2018. **154**(6): p. S1079-S1080.
183. Bajaj, J.S., et al., *Antibiotic-associated disruption of microbial composition and functionality is restored after fecal microbial transplant in Cirrhosis.* Gastroenterology, 2018. **154**(6): p. S1107-S1107.
184. Bajaj, J.S., et al., *Periodontal Therapy Improves Cognitive Function, Inflammation and the Gut-Liver Axis in Cirrhosis.* Hepatology, 2018. **68**: p. 1161A-1162A.

185. Bajaj, J.S., et al., *Antibiotic-Associated Disruption of Microbiota Composition and Function in Cirrhosis Is Restored by Fecal Transplant Reply.* Hepatology, 2018. **68**(3): p. 1206-1206.
186. Fagan, A., et al., *Sustained long-term clinical and cognitive improvement after fecal microbiota transplantation in Cirrhosis.* Gastroenterology, 2018. **154**(6): p. S59-S60.
187. Friedland, B., et al., *Griffithsin Administered Vaginally for 14 Days Is Well-tolerated, With Anti-HIV Activity Up to 8 Hours Post Dose in the First-in-human Trial.* Aids Research and Human Retroviruses, 2018. **34**: p. 187-187.
188. Purit, P., et al., *Distinct Microbial Ecologic Shifts Are Associated with Altered Microbial Functions in Severe Alcoholic Hepatitis.* Hepatology, 2018. **68**: p. 782A-782A.
189. Reardon, K.M., et al., *Increasing prevalence of epizootic shell disease in American lobster from the nearshore Gulf of Maine.* Bulletin of Marine Science, 2018. **94**(3): p. 903-921.
190. Aamann, L., et al., *Twelve weeks of effective resistance training did not change the gut microbiota in patients with cirrhosis.* Journal of Hepatology, 2019. **70**: p. E510-E511.
191. Bajaj, J.S., et al., *Alterations in skin microbiota, serum bile acids and autotaxin modulate itching intensity in patients with cirrhosis.* Journal of Hepatology, 2019. **70**: p. E630-E630.
192. Bajaj, J.S., et al., *Fecal microbiota capsules are safe and effective in patients with recurrent hepatic encephalopathy: A randomized, blinded, placebo-controlled trial.* Journal of Hepatology, 2019. **70**: p. E55-E55.
193. Cox, I.J., et al., *Plasma metabolomic changes modulate the impact of Middle Eastern versus Western Diet in an international cirrhosis cohort.* Journal of Hepatology, 2019. **70**: p. E52-E53.

Technical Reports

1. P.M. Gillevet **(1999)** Microbial Identification Methods for Acinetobacter for the NCRR-ATCC.
2. L. Blaine and P.M. Gillevet **(1999)** Microbial Identification Methods: Decision Support for Classification and Identification of Pseudomonas and Bacillus Species. Contract report for the Environmental Protection Agency.
3. P.M. Gillevet and L. Blaine **(1999)** Microbial Authentication of Bacillus Phase I. Contract Report for Health Canada.
4. P.M. Gillevet, M. Sikaroodi, and L. Blaine **(2000)** Microbial Authentication of Bacillus Phase II. Contract Report for Health Canada.
5. P.M. Gillevet, M. Sikaroodi, and L. Blaine (**2001)** Characterization of Enterotoxins in Bacillus. Report for Health Canada.
6. P.M. Gillevet, M. Sikaroodi, and L. Blaine **(2001)** Report for Pseudomonas Double Blind Study. Report for Health Canada.
7. P.M. Gillevet and M. Sikaroodi **(2001)** Microbial Identification Methods: Decision Support for Classification and Identification of Pseudomonas Species; Phase II Report for EPA/Health Canada.
8. P.M. Gillevet and M. Sikaroodi **(2002)** Microbial Identification Methods: Decision Support for Classification and Identification of Pseudomonas Species: Phase III. Report for EPA/Health Canada.
9. P.M. Gillevet and M. Sikaroodi **(2002)** Characterization of Enterotoxins in Bacillus. Report for Health Canada.
10. P.M. Gillevet and M. Sikaroodi **(2003)** Characterization of International Pseudomonas Double Blind Study. Report for Health Canada.
11. P.M. Gillevet and M. Sikaroodi **(2004)** Characterization of International Pseudomonas Double Blind Study. Report for Health Canada.
12. P.M. Gillevet and M. Sikaroodi **(2005)** Characterization of International Pseudomonas Double Blind Study. Report for Health Canada.
13. P.M. Gillevet and M. Sikaroodi (**2006)** Characterization of International Pseudomonas Double Blind Study. Report for Health Canada.
14. P.M. Gillevet, P. Bojo, M. Sikaroodi, G. Garman, and S. McIninch **(2006)** Preliminary LH-PCR Analysis of Mucosal Surfaces of Smallmouth Bass from the Shenandoah River Fish. Report for Kill Task Force August 2006.

Patents Submitted to US Patent Office (USPTO), Swiss Patent Office (IGE), and International Patent Office (PCT)

1. Use of Cryogenic detectors for small molecules. Swiss IGE provisional patent application submitted in January 10 1997.
2. Use of Cryogenic detectors for small molecules. Swiss patent application submitted in January 10 1997
3. Gillevet PM (2005) Compositions and Methods for Diagnosing Colon Disorders, PCT/US05/39887, PCT/USPTO George Mason University.

4. Gillevet PM (2006) Multitag Sequencing and Ecogenomic Analysis, EPO 07871488.8; PCT/US2007/084840, WPO BioSpherex LLC.

Genbank Submissions

1. Gillevet, P., Ally, A., Barton, F., Brenner, S.E., Clark-Whitehead, R., Dolan, M., Douglas, N., Hsu, E., Purzycki, M.S., Richter, B., Russo, S., Sartell, J., Smith, S.W., Wang, C., Williams, J., and Gilbert, W. **(17-Aug-1994)** Mycoplasma capricolum Accessions MC002 - MCABN 325 sequences 704,275 bases. Mycoplasma capricolum Genome Project, Harvard University, Cambridge, MA 02138
2. Widmer, F., Seidler, P.M. Gillevet, R.J., Watrud, L.S., and Di Giovanni, G.D. **(02-Jun-1997)** unidentified beta proteobacteria, Accessions AF006502 – AF006507, 6 sequences, 5,940 bases Terrestrial Plant Ecology Branch, U.S. Environmental Protection Agency, 200 SW 35th Street, Corvallis, Oregon 97333-4902, USA
3. Reddy, P.H., Stockburger, E., Wilderson, J., Ellison, J., Gillevet, P., and Tagle, D.A. **(12-Jan-1998)** Human Triplet Repeat Sequences Accessions HSU92978-HSU93216, 19 sequences 39,292 bases. Laboratory of Gene Transfer, National Human, Genome Research Institute, Bethesda, MD 20892, USA
4. Harasewych, M.G., Adamkewicz, S.L., Plassmeyer, M., and Gillevet, P.M. **(27-Mar-1998)** Caenogastropoda, Accessions AF055644 – AF055654, 11 sequences, 5,379 bases. Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560, USA
5. Amaral Zettler, L.A., Nerad, T.A., O'Kelly, C.J., Peglar, M.T., Gillevet, P.M., Silberman, J.D., and Sogin, M.L. **(08-Aug-2000)** Echinamoeba exundans, Accessions AF293895 – Af439349, 9 sequences, 18,324 bases. The Josephine Bay Paul Center for Comparative Molecular Biology and Evolution, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543, USA
6. Marano Briggs, K., Mills, D.K., Jonas, R.B., and Gillevet, P.M. **(08-Aug-2000)** Marichromatium purpuratum and Black Band clones, Accessions AF094713- AF29031, 43 sequences, 64,242 bases. Molecular Environmental Science, Environmental Science and Policy, George Mason University, 10900 University Blvd, Manassas, VA 20110, USA
7. Peglar, M.T., Gillevet, P.M., Nerad, T.A., and Jonas, R.B. **(13-Jun-2002)** Estuarine Amoebae, Accessions AY183886 – AY183894; AY121846 – AY121856, 20 sequences, 42,966 bases. Protistology Laboratory and the Authentication Resource Center, American Type Culture Collection, P.O. Box 1549, Manassas, VA 22032, USA
8. Gillevet, P.M. and Tang, J.S. **(31-Aug-2002)** Kocuria rhizophila, Accessions AF542072 – AF542074, 3 sequences, 4,002 bases . Molecular Environmental Science, Environmental Science and Policy, George Mason University, 10900 University Blvd, Manassas, VA 20110, USA
9. Peglar, M.T. and Gillevet, P.M. **(16-Dec-2002)** Kudoa clupeidae 1 sequence 1,394 bases Accession AY197771. Protistology Collection, American Type Culture Collection, 10801 University Blvd., Manassas, VA 20110, USA
10. Lydell, C., Dowell, L., Sikaroodi, M., Gillevet, P., and Emerson, D. **(20-Mar-2003)** Bacteroidetes, Accessions AY259501 – AY259513, 14 sequences, 18,811 bases. American Type Culture Collection, 10801 University Blvd, Manassas, VA 20110, USA

11. Gillevet, P.M., Sikaroodi, M., Bisson, I.-A., Marra, P.P., and Burtt, E.H. Jr. **(16-Jul-2006)** Uncultured Bacteria, Accessions DQ856126 – DQ856301, 176 sequences, 95,744 bases. Molecular Environmental Science, Environmental Science and Policy, George Mason University, 10900 University Blvd, Manassas, VA 20110, USA

PROFESSIONAL ACTIVITIES

GMU Administration

1. Laboratory Safety Committee, Faculty Representative for PWI (2000-2010)
2. Radiation Safety Committee, Faculty Representative for PWI (2000-2008)
3. Biological Safety Committee, Faculty Representative for PWI (2000-2008)
4. ESP Committee on Committee (2003)
5. ESP ad hoc committee on Biology Undergraduate program development (2003)
6. Lead on Molecular Ecology and Evolution group at PW (2000-present)
7. College of Science Promotion and Tenure Committee (2009-2011)
8. Laboratory Safety Committee, Faculty Rep (2000-present)
9. Radiation Safety Committee, Chair (2008-present)
10. Biological Safety Committee, Chair (2008-present)
11. Director Microbiome Analysis Center (2008-present)

Society Memberships

1. American Association for the Advancement of Science (AAAS)
2. American Association for Microbiology (ASM)
3. National Defense Industrial Association (NDIA)
4. Soil Sciences

Articles Reviewed for Journals

1. Journal of Bioinformatics
2. Biotechniques
3. Wiley Interscience
4. Aquatic Microbial Ecology
5. Chemical & Biological National Security Program (CNBP)
6. Soil Sciences
7. Gut

Grant Review Committees

1. National Science Foundation
2. National Institutes of Health, NCRR
3. USAID

Sabaticals In Laboratory

1. Albert Torzilli Associate Professor, Biology Department, George Mason University Fall 2001
2. Robert Jonas Associate Professor, Dept. of Environmental Sciences and Policy, George Mason University Fall 2001
3. Carol Litchfield Associate Professor, Biology Department, George Mason University Fall 200
4. Habib Bukari Assistant Professor, Department of Biosciences, Commission on Science and Technology for Sustainable Development in the South (COMSATS), Institute for Information Technology, Islamabad, Pakistan Fall 2005 - Spring 2006.
5. Cyril Ajuzie Research Scientist, Laboratoire d'Oc□anographie Biologique et AquaculturesUniversit Libre de Bruxelles, Belgium Spring 2008 - Summer 2008
6. James Lawrey Professor, Dept. of Environmental Sciences and Policy, George Mason University Fall 2010

Graduate Students

1. Marzena Galdzicka (1998) Natural classification of the genus Pseudomonas, Biology, M.Sc. Thesis
2. Robert Garian (2000) Prediction of dimeric structure of proteins from amino acid sequences, Computational Sciences and Informatics, Ph.D.
3. Michael Peglar (2001) Molecular and morphological differentiation of common amoeboid protists from Pfiesteria piscicida and related dinoflagellates . Biology M.Sc. Thesis
4. Marzena Galdzicka (2002) A molecular genetic characterization of Ellis-van Creveld (EvC) syndrome. Environmental Sciences and Policy, Ph.D.
5. Ron Taylor (2003) Reconstruction of Metabolic and Genetic Networks from Gene Expression Perturbation Data using a Boolean Model. School of Computational Sciences, Ph.D.
6. Paul Baumgartner (2003) Cross-platform gene expression analysis facilitated by gene rank normalization. Biology, M.Sc. Thesis
7. Suma Dasu (2003) ALHAS: Amplicon Length Heterogeneity Analysis System. Biology, M.Sc. Project
8. Ateeq-ur Rehman (2003) Computational Sciences and Informatics M.Sc. Project
9. Mark Wilson (2004) Interpretational issues in human forensic mitochondrial DNA analysis. Environmental Sciences and Policy, Ph.D.
10. Hureen Sagar (2004) A centralized database system to store and retrieve sequence analysis queries. New Century College, M.Sc.
11. Sarah Winfrey (2005) Linking external Functions into the Genetic Data Environment. Bioinformatics and Computational Biology, M.Sc. Project
12. Kishor Tappita (2006) Hierarchical Classification of Environmental Clone Libraries using Phylotypes. Bioinformatics and Computational Biology, M.Sc. Project
13. Shyam Nathan (2006) Use of C4.5 to Classify Inflammatory Bowel Disease Samples. Bioinformatics and Computational Biology, MSc Project
14. Elizabeth Dingess (2008) The Analysis of Trumpeter and Tundra Swan Hybridization using Sex Chromosome Markers. Molecular and Microbiology, M.Sc. Project
15. Thibault Malliard (2008) Molecular Ecology Knowledgebase, University of Nantes, Professional Masters
16. Robert Downs (2008) DNA to Protein Patenting issues. Bioinformatics and Computational Biology MSc Project
17. Karen Dalfrey (2009) Integrating biodefense topics into secondary education curriculum. Biodefense, Ph.D.
18. Jessica Barker (2009) Differentiation of Tundra and Trumpeter Swans using the Mitochndrial D-Loop Sequence. Bioinformatics and Computational Biology MSc Project
19. Ammar Naqvi (2010) Understanding and analyzing the human microbiome: Taxonomic identification and potential interactions. Environmental Sciences and Policy, M.Sc. Thesis
20. Julie Zobel (2010) The role of naturally occurring pathogenic Bacillus anthracis in biological incident preparedness and response . Biodefense, Ph.D.
21. Sonya Graves (2010) *Borrelia burgdorferi* infections in the white-footed mouse (*Peromyscus leucopus*) and the black-legged tick (*Ixodes scapularis*) in Fairfax County, Virginia. Biology, M.Sc. Thesis

22. Smriti Bhattarai (2011) Identification of nonpoint sources of fecal pollution in surface water by genotypic source tracking method. Environmental Sciences and Policy, Ph.D.
23. Bob Brown (2011) Systems Modeling of the Oral Metabiome. Bioinformatics and Computational Biology, Ph.D.
24. Shalabh Summan (2011) Analysis of the Microbiome in Celiac Disease. M.Sc. Project
25. Meghana Vemulapalli (2011) Analysis of the Microbiome from Lobster Shell Disease. M.Sc. Project
26. Allison Hilberer (2011) The Mycobiome of Lobster Shell Disease Lesions. M.Sc. Project
27. Andrew Heekin (2011) Characterization of the Human Gastrointestinal Microbiome via Metabolic Pathway Analysis. Bioinformatics and Computational Biology, Ph.D.
28. Sean Smith (2011) Systems Biology Analysis of Porcine Obesity. Bioinformatics and Computational Biology, Ph.D.
29. Nuttachat Wisittipanit (2012) Machine Learning Analysis for the Human Microbiome Including Analytical Application. Bioinformatics and Computational Biology, Ph.D.
30. Andmorgan Fisher (2012) Characterization of the Human Intestinal Microbiome and and Correlation Oral Microbiota. Environmental Sciences and Policy, Ph.D
31. Norman Meres (2013) Epizootic Shell Disease in the American Lobster *(Homarus americanus)*. Environmental Sciences and Policy, Ph.D.
32. Masoumeh Sikaroodi, Dysbiosis in Inflammatory Bowel Disease. Biosciences Ph.D. (2014)
33. Sugandha Patibanda, Metabolomic network in IL-10 deficient mice. Bioinformatics and Computational Biology, Ph.D. (2014)
34. Lauren Wilson, Hybridization in the Northern Swans. Environmental Sciences and Policy, Ph.D.(2014)
35. Tammy Henry, Population genetics and Evidence-based management of San Joaquin kit fox. Environmental Sciences and Policy, Ph.D. (2014)
36. Anne Hansen, Early Life History, Habitat Use, and Microsatellite Allele Frequency of Two Common Reef Fishes (*T. bifasciatum and S. partitus*) in Marine Protected Areas of the Northwestern Gulf of Mexico. Environmental Sciences and Policy, M.Sc. (2014)
37. Chris Yesmont A phylogenomic analysis of the Trumpeter (*Cygnus buccinator)* and Tundra Swan *(Cygnus columbianus columbianus)* (2014)
38. Sarah Kuppert Use of environmental DNA (eDNA) to track amphibians in Virginia watersheds Environmental Sciences and Policy M.Sc. (2015)
39. Naga Betrapally Microbiome Analysis of Cirrhostic Patients with Hepatic Encephalopathy Ph.D. (2017)
40. Sonya Graves Variation of *Borrelia burgdorferi* Infections in the White-Footed Mouse (Peromyscus Leucopus) in Fairfax County, VA Ph.D.(2017)
41. Nathan Dougan The Effects of Probiotics on the Human Microbiome and Health. Environmental Sciences and Policy, Ph.D. (2018)
42. Ezzat Dadkhah-Ezzat Development of a Microbiome Based Diagnostic for Colon Cancer Ph.D. (2018)
43. Jamal Andrews Environmental Effects on the Microbial Community of *Homarus americanus* afflicted with Epizootic Shell Disease. Biology (2018)
44. Jasmine Amirzadegan The impacts of the skin and gut microbiomes on liver disease. Bioinformatics in progress
45. Jennifer Jones Mycobacteriophage cluster identification using the minor tail protein gene Biology, in progress

46. Rohan Patil Comparative analysis of methods and workflows used to derive otus: QIIME, UPARSE and RDP-11. Bioinformatics in progress
47. Natalie Hall Urban stormwater Best Management Practices (BMPs) and microbial dentrifier communities. ESP in progress
48. Alexander Robillard One Health and Conservation of Northeastern Pacific Sea Turtles ESP, in progress

Graduate Students Co-Advised

49. Deetta Mills (2000) Molecular monitoring of microbial populations during bioremediation of contaminated soils. Environmental Sciences and Policy, Ph.D. C. Litchfield chair
50. Jill Peters (2001) Using the Mitochondrial Control region to determine species relationships between the Trumpeter (C. Cygnus buccinators) and Tundra (C. columbianus) Swans. Biology, M.Sc. Project L. Rockwood chair
51. Johanna Weis (2001) Bacterial iron oxidation in circumneutral freshwater habitats: findings from the field and the laboratory. Environmental Sciences and Policy, Ph.D. D. Emerson chair
52. Michael Branhagen (2003) Montioring of the North American River Otter (*Lontra Canadensis*) Using Molecular Analysis of Scat. Environmental Sciences and Policy, Ph.D., L. Rockwood chair
53. Paige Rothenberger (2004) A comparison of bacterial communities associated with white plague-infected Montastraea annularis corals at Sprat Hole, St. Croix, U.S.V.I. Environmental Sciences and Policy, M.Sc. R. Jonas chair
54. Daemian Schreiber (2006) Population Genetics of American shad (*Alosa sapidissima,* Wilson 1811) and Alewife (*Alosa psuedoharengus,* Wilson 1811) from the Potomac River and Tributaries in Virginia. Environmental Sciences and Policy, M.Sc. Thesis Don Kelso, Chair
55. Geoffrey Cook (2009) A Comparative Analysis of Bacterial Communities Associated with Apparently Healthy and Diseased Corals. Environmental Sciences and Policy, Ph.D. R. Jonas chair
56. Zeehasham Rasheed (2012) System Biology Analysis of the Microbiome in Alcoholic Liver Disease. Computer Science, Ph.D. Huzefa Rangwala, Chair

Masters in New Professional Sciences (MNPS)

57. Armistead, David	(2002)	MNPS in Bioinformatics
58. Brown, Robert	(2002)	MNPS in Bioinformatics
59. Carrera, Ana	(2002)	MNPS in Bioinformatics
60. Enokpa, Emmanuel	(2002)	MNPS in Bioinformatics
61. Gandreti, Vijaya	(2002)	MNPS in Bioinformatics
62. Hutson-Black, Janinne	(2002)	MNPS in Bioinformatics
63. Johnson, Thomas	(2002)	MNPS in BioTechnology
64. Kebede, Solomon	(2002)	MNPS in Bioinformatics
65. Kifle, Gizachew	(2002)	MNPS in BioTechnology
66. Medicherla, Satyavathi	(2002)	MNPS in Bioinformatics

67. Pineda, Marbin	(2002)	MNPS in BioTechnology
68. Seeke, Swathi	(2002)	MNPS in Bioinformatics
69. Bradshaw, Dawn	(2003)	MNPS in Bioinformatics
70. Brinkac, Lauren	(2003)	MNPS in Bioinformatics
71. Wilson, Glenda	(2003)	MNPS in Bioinformatics
72. Ryan, Christopher	(2003)	MNPS in Bioinformatics
73. Holloway, Linda	(2005)	MNPS in BioTechnology

Graduate Student Committees

1. Kay Marano-Briggs	ESP	Ph.D.	2000
2. George Getzinger	Biology	M.Sc.	2001
3. Stephen Glanowski	SCS	Ph.D.	2003
4. Lakshmi Kumar	SCS	Ph.D.	2004
5. Jeanne Classen	ESP	M.Sc.	2004
6. Thomas Heiman	SCS	Ph.D.	2005
7. Kristy Robinson	Biology	M.Sc.	2005
8. Pete Pesenti	ESP	Ph.D.	2005
9. Raji Ganguli	ESP	Ph.D.	2005
10. Hena Ramay	BINF	Ph.D.	2006
11. Ari Kahn	BINF	Ph.D.	2006
12. Karen Santora	ESP	MSc.	2006
13. H. Deshmukh	BINF	Ph.D.	2006
14. Christy Milstead	ESP	M.Sc.	2006
15. Saleha Husain	ESP	Ph.D.	2007
16. Aravinda Kuntimaddi	MMB	MSc.	2008
17. Mohammed Jarrar	MMB	PhD	2008
18. Yan Ding	BCB	Ph.D	2008
19. Geofrey Cook	ESP	M.Sc.	2009
20. Saleha Husain	ESP	Ph.D.	2009
21. Staci A Lewis	ESP	Ph.D.	2009
22. Rafael Villa-Angulo	BCB	Ph.D.	2009
23. Ganiraju Manyam	MMB	Ph.D.	2009
24. Ryosuke Kadoi	BCB	Ph.D	2009
25. Subashini Iyer	MMB	Ph.D.	2010
26. Christine Bozart	ESP	Ph.D.	2010
27. Stephanie Koon	MMB	M.Sc.	2010
28. Swati Dalmet	ESP	Ph.D	2012
29. James Martin	ESP	M.Sc.	2013
30. Robert Slate	ESP	Ph.D.	2014
31. Heather Abrahams	ESP	M.Sc.	2014
32. Jennifer Ravinskas	ESP	M.Sc.	2016
33. Josh Combs	ESP	M.Sc.	2017
34. Manuela Del-Forno	ESP	Ph.D.	2017
35. Carmen Bernett	ESP	Ph.D.	2017
36. Dana Mckosky	ESP	M.Sc	2017
37. Olivia Taylor	ESP	M.Sc.	2018
38. Thomas Pike	Computational Social Sc,	Ph.D.	2019

39.
40. Stephen Kassinger BioSciences Ph.D. in progress
41. Mohammad Rhoman Computer Sc Ph.D. in progress

Undergraduate Students Mentored

1.	Mathew Plassmeyer	1997	George Mason University (Biology)
2.	Cindy Lydell	1998	George Mason University (Biology)
3.	Amy Fisher	1998	George Mason University (Biology)
4.	Stacey Tully	1999	George Mason University (Biology)
5.	Mylo Wagner	1999	George Mason University (Biology)
6.	Kate Phillips	2000	Princeton University (REU student)
7.	Lori William	2000	George Mason University (REU student)
8.	Klaya Ardahl	2000	George Mason University (Biology)
9.	Kristine Welch	2001	George Mason University (Biology)
10.	Eric Brownell	2001	Princeton University (REU student)
11.	Lindsey Lucas	2001	Princeton University (REU student)
12.	Nick Brown	2001	Virginia Tech
13.	Anita Samuel	2002	GMU (Biology)
14.	Nathan Buck	2004	GMU (Center of Global Education)
15.	Allison Lipperd	2004	GMU (Center of Global Education)
16.	Nishanth Parameswaran	2010	U of Texas at Dallas
17.	Amanda Zulolo	2012	George Mason University (Computer Science)

High School Students Mentored

1.	Roger Chang:	1996	Thomas Jefferson High School of Science and Technology
2.	Eddy Yeung:	1997	Thomas Jefferson High School of Science and Technology
3.	Nicki Kissanee:	1997	Thomas Jefferson High School of Science and Technology
4.	Kate Phillips:	1998	Thomas Jefferson High School of Science and Technology
5.	Janelle Haynes:	1999	Thomas Jefferson High School of Science and Technology
6.	Sara Jones:	2000	Thomas Jefferson High School of Science and Technology
7.	Lizzy Blair:	2000	Thomas Jefferson High School of Science and Technology
8.	Christina Danko:	2000	Thomas Jefferson High School of Science and Technology
9.	Nathan Allen:	2001	Thomas Jefferson High School of Science and Technology
10.	Brenda Goguen:	2001	Thomas Jefferson High School of Science and Technology
11.	Conrad Yaddof:	2001	Manassas High School
12.	Terrell Brotherton	2001	Thomas Jefferson High School of Science and Technology
13.	Lindsey Lucas	2001	Thomas Jefferson High School of Science and Technology
14.	Daisi Choi	2002	Thomas Jefferson High School of Science and Technology
15.	Tarik Jones	2003	Thomas Jefferson High School of Science and Technology
16.	Lindsey McCrickard	2003	Thomas Jefferson High School of Science and Technology
17.	Amit Joseph	2004	Thomas Jefferson High School of Science and Technology
18.	Matt Arango	2004	Thomas Jefferson High School of Science and Technology
19.	Abby Lauer	2005	Thomas Jefferson High School of Science and Technology
20.	Will Sullivan	2005	Thomas Jefferson High School of Science and Technology
21.	Ashley Briggs	2005	Manassas High School
22.	Helen Ye	2005	Thomas Jefferson High School of Science and Technology

23. Tracy Kovach	2005	Thomas Jefferson High School of Science and Technology
24. Ariana Tabing	2005	Thomas Jefferson High School of Science and Technology
25. Peter Bojo	2006	Thomas Jefferson High School of Science and Technology
26. Ronnie Wang	2006	Thomas Jefferson High School of Science and Technology
27. Raza Mir	2007	Thomas Jefferson High School of Science and Technology
28. N. Parameswaran	2008	Thomas Jefferson High School of Science and Technology
29. Hannah Clark	2009	Thomas Jefferson High School of Science and Technology
30. Alex Kim	2009	Thomas Jefferson High School of Science and Technology
31. Cameron Gahres	2010	ASSIP, South County Secondary School
32. April Hyon	2010	Thomas Jefferson High School of Science and Technology
33. Gireesh Reddy	2010	Thomas Jefferson High School of Science and Technology
34. Allison Macconnell	2011	Prince William County Governor's School
35. Adrienne Gillevet	2011	ASSIP, TJHSST
36. Ha Young Shin	2012	Prince William County Governor's School
37. Jennifer Hwang	2012	Thomas Jefferson High School of Science and Technology
38. Esther Lee	2012	Thomas Jefferson High School of Science and Technology
39. Brendan Kim	2012	Thomas Jefferson High School of Science and Technology
40. Jane Pak	2012	Thomas Jefferson High School of Science and Technology
41. Adrienne Gillevet	2012	Thomas Jefferson High School of Science and Technology
42. Lucia Liu	2012	Thomas Jefferson High School of Science and Technology
43. Manjot	2013	Prince William County Governor's School
44. Vrinda Shukla	2013	Thomas Jefferson High School of Science and Technology

Scientific Expeditions:

1. Slit Shell Expedition: Bahamas Is. Harbor Branch Oceanographic Institute and Smithsonian Institute. Expedition aboard the R/V Edwin Link utilizing the Johnson Sealink July 1998

2. Living Fossils Expedition: Bahamas Is. Harbor Branch Oceanographic Institute, the Bailey-Matthews Shell Museum, and Natural History Museum, Smithsonian Institute. Expedition aboard the R/V Edwin Link utilizing the Johnson Sealink (see http://www.mnh.si.edu/livingfossils/) August 1999

3. Aquarius Coral Restoration/Resilience Experiments (ACRRE) field collection trip. NOAA sponsored coral disease collection out of Aquarius Base. June 2011 (see http://mbac.gmu.edu/mee/display_detail.php?tb=research&id=3)

Articles Reviewed for Journals

1. Journal of Bioinformatics
2. Biotechniques
3. Wiley Interscience
4. Aquatic Microbial Ecology
5. Chemical & Biological National Security Program (CNBP)

6. Soil Sciences
7. Gut
8. Clinical Immunology
9. Applied Soil Ecology
10. PLOS Plant & Soil

Grant Review Committees

1. National Science Foundation
2. NCRR, National Institutes of Health
3. USAID
4. COBRE, National Institutes of Health