

Bonus—2005 ASM Poster Presentations

Monday, June 06, 2005

9:00 am - 12:00 pm

Q-033/469 Complete Tetrachloroethene Dechlorination in Anacostia River Sediment

D. W. Himmelheber, J. B. Hughes

R-005/501 EcoCyc: A Comprehensive Database Resource for *Escherichia coli* K12

I. M. Keseler¹, C. Bonavides-Martinez, J. Collado-Vides, S. Gama-Castro, M. E. Hance, J. Ingraham, S. M. Paley, I. T. Paulsen, M. Peralta-Gil, J. Pick, A. Santos-Zavaleta, P. D. Karp

Y-003/560 Speciation, Diversity, and Distribution of *Listeria* Species from the Natural Environment Using Sequencing of the sigB Gene

B. D. Sauders, J. Overdeest, E. Fortes, K. Windham, M. Wiedmann

A-023/023 Patterns of Transferable Antimicrobial Resistance in UTI *E. coli*

L. L. Marcusson, K. Vielfort, D. Hughes

Z-007/575 Evaluation of *Cryptosporidium* Oocysts and *Giardia* Cysts in a Watershed Reservoir

A. Azadpour-Keeley, B. R. Faulkner, M. E. Caldwell

Z-008/576 Comparison of Bacterial Populations and Chemical Composition of Circulated and Stagnant Dairy Wastewater Lagoons

J. A. McGarvey, W. G. Mille¹, S. Sanchez, C. J. Silva

Z-009/577 Genetic Characterization and Phenotypic Diversity of *Escherichia coli* from Freshwater Beaches

S. T. Walk, L. E. Keinath, S. Sankaralingam, J. M. Mladonicky, T. M. Larg¹, E. W. Alm, T. S. Whittam

1:00 pm - 4:00 pm

Y-014/559 Removal of Enzyme Inhibitors and Interferents from DNA Samples Using a Portable, Robotic Instrument for First-Responder DNA Testing Following a Putative Bioterrorist Attack, for Rapid Identification of Agricultural Pathogens, and for Microbial Characterization of Low Biomass Samples

T. Fukumoto, K. Venkateswaren, **B. Fields**

Y-016/561 A New Set of DNA and RNA Purification Kits for Bacteria and Viruses from a Variety of Sample Types

J. Tolman, C. Bennett, **S. Thatcher**, A. Upwall, S. Fowden, Y. Chen, V. Ngan, H. Millward, K. Tuck, D. Teng

Y-020/565 Electrochemiluminescent Detection of Biological Agents in Foods and Environmental Water Samples

W. J. Lyon, D. Niemeyer

N-002/318 *Clostridium botulinum* Type E Outbreaks in Lake Erie from 2002-04: Characterization of Environmental Conditions and Reservoirs of the Bacterium

T. Lee, A. Perez-Fuentetaja, M. Clapsadl, N. Anderson, R. Getchell

N-012/328 Phylogenetic Diversity and Spatial/Temporal Distribution of Nitrogenase (*nifH*) Genes in the Chesapeake Bay

R. Zhang, P-Y. Qian, S. C. K. Lau, F. Chen

N-015/331 Diversity of Enteric Bioluminescent Bacteria in Coral Reef Fish

E. A. O'Grady, C. F. Wimpee

N-017/333 Survival of Fecal Indicators in Surface Marine Waters of the Florida Keys and Coral Mucus

J. C. Venton, D. W. Griffin, E. K. Lipp

N-018/334 Isolation and Characterization of Marine Microorganisms with Antiviral Activity

M. L. K. Hansen, D. W. Yoon, R. Fujioka, P. C. Loh

N-021/337 What Lies Beneath: Chesapeake Bay Viriobenthos Diversity and Abundance
R. R. Helton, K. Wang, J. Kan, D. M. Winget, K. E. Wommack

N-022/338 Inhibition of NASBA and Real-Time RT-PCR Detection of Enteric Viruses in Seawater Samples
E. T. Casper, S. Patterson, J. Paul

N-023/339 A Handheld NASBA Analyzer for Portable Detection of Microbial Pollutants
S. S. Patterson, O. Neumann, A. Farmer, E. Casper, M. C. Smith, D. P. Fries, J. H. Paul

N-047/363 Evaluation of 23S rRNA PCR Primers for Use in Phylogenetic Studies of Bacterial Diversity.
D. E. Hunt, V. Klepac-Ceraj, S. G. Acinas, C. Gautier, S. Bertilsson, M. F. Polz

Q-108/510 Impact of Plant Species and Density on Microbial Community Composition in a Free Water Surface Constructed Wetland
A. M. Ibekwe, M. Leddy, S. R. Lyon, M. Jacobson

Q-109/511 Evaluation of Wastewater Treatment Plant Efficiency to Reduce Bacterial and Viral Loading Using Real-time RT-PCR
W. Burkhardt, III, J. Woods, K. R. Calci

Q-113/515 Comparison of Fecal Coliform (FC) Concentrations in Two Urban Rivers: The Chicago Sanitary and Ship Canal (CC) and The Des Plaines River (DR)
G. K. Rijal, Z. Abedin, J. Zmuda, R. Gore, B. Sawyer, R. Lanyon

Q-118/520 Investigation of Archaeal and Bacterial Community Structure in Landfill Leachate Lysimeters by Denaturing Gradient Gel Electrophoresis (DGGE)
B. Nayak, A. D. Levine, V. J. Harwood

Q-125/528 Bacteria and Coliphages as Indicators of Performance of a Constructed Wetland under Tropical Conditions
G. Hernandez, A. Huertas, G. A. Toranzos

Q-126/529 Comparison of Wastewater Treatment Effectiveness on *Enterococcus* and Fecal Coliform
A. C. Rex, **K. A. Coughlin**

C-102/090 Detection of Bacterial Pathogens by Suspension Array Hybridization Assay
L. M. Sutton, S. A. Dunbar

C-130/126 Molecular Characterization of Vancomycin-Resistant *Enterococcus faecium* Isolated from Animals and Humans in Korea
S. K. Lim, T. S. Kim, H. S. Lee, Y. S. Joo, Y. H. Park, Y. Ike, H. B. Koh

Tuesday, June 07, 2005

8:00 am - 10:30 am

8:00 am - *n/a* Genetic Diversity and Antibiotic Resistance in *E. coli* Populations in Nature
T. S. Whittam

Q-183/504 Effect of Municipal Water Disinfection with Chloramine on *Legionella* Colonization of Potable Water Systems: A Prospective Environmental Study
B. Flannery, **V. A. Stevens**, L. Gelling, M. Conroy, D. Vugia⁴ J. Salerno, J. Weintraub, M. Moore, R. Besser, B. Fields

Q-184/505 Impact of Agricultural and Wastewater Treatment Facility Runoff on the Incidence of Antibiotic Resistant Bacteria in Streams
A. M. Jones, M. E. Allen

Q-191/514 Transfer of Antibiotic Resistance Plasmids to *E. coli* in Beach Sand
E. L. Francis, E. W. Alm

Q-146/465 MALDI-TOF Mass Spectrometry: A Rapid Method for Bacterial Identification from Water Samples
D. J. Dare, H. Sutton, X. Wang, H. Shah, M. Lunt

Q-149/468 A Statistical Appraisal of Disproportional versus Proportional Microbial Source Tracking Libraries
B. J. Robinson, K. J. Ritter, R. D. Ellender

Q-150/469 A Critical Evaluation of Flow Cytometry for Detecting *Enterococcus faecium* and *Enterococcus faecalis* in Recreational Waters
D. N. Stang, K. P. Brenner, M. R. Rodgers

Q-153/472 A Comparison of Enzyme-Based Total Coliform/*E. coli* Tests for Groundwater Monitoring
J. M. Olstadt, J. Schauer, J. Standridge, S. Kluender;

Q-155/474 16S rDNA Microarray Method Reveals Broader Diversity Than Typical Clone Library When Sampling the Environment.
T. DeSantis, E. Brodie, J. Moberg, S. Murray, I. Zubieta, Y. Piceno, G. Andersen

Q-156/475 DNA Biochips for Diagnostics, Source Tracking, and Microbial Community Analysis: Challenges and Selected Solutions
S. A. Hashsham, L. M. Wick, R. Stedtfeld, D. Tourlousse, S. Baushke, J-M. Rouillard, J. Klappenbach, J. R. Cole, E. Gulari, J. M. Tiedje

Q-160/479 Challenges in Developing Community Fingerprinting Oligonucleotide Microarrays Using the 16S rRNA Gene
A. Herzog, R. Stedtfeld, T. Huynh, S. Baushke, J. Weiss, J-M. Rouillard, E. Gulari, J. Tiedje, S. A. Hashsham

Q-161/480 Chromosomally Based Biosensors of *Acinetobacter sp.* ADP1 for the Detection of Environmental Pollutants
W. E. Huang, H. Wang, N. D'Souza, M. L. Cooper, I. Thompson, A. S. Whiteley

Q-163/482 Development of Rapid Biosensor Assays to Detect *Bacillus globigii* and *Escherichia coli* O157:H7 Using an Automated Array Biosensor
S. Magana, E. K. Kearns, D. V. Lim, A. K. Bailey, M. V. Tesone, T. A. Postlethwaite

Q-164/483 Assessment of Animal Impact on a South Carolina Estuary by Ribotyping *Escherichia coli*
L. F. Webster, S. M. Allen, D. A. Graves, D. A. Eargle, D. E. Chestnut, J. A. Gooch

Q-166/485 New Methodology for Viability Analysis for Environmental Samples
M. Lepuil, B. L. Weidow, J. Prater, K. Glass, M. Radosevich, D. C. White, J. P. Biggerstaff

Q-167/486 Detection of Vancomycin Resistant *Enterococcus faecalis* (N00-410) and *Enterococcus faecium* (N97-330) Using Microarrays
E. Kruszewski, Y. Matsumura, V. Deneff, L. Wick, K. Yadav, R. Xu, S. Baushke, R. Stedtfeld, J. Tiedje, S. Hashsham

Q-168/487 Parallel Detection of Multiple Pathogens Using an In Situ Synthesized Biochip and Various Virulence Genes
D. Tourlousse, A. Herzog, S. Baushke, L. Wick, J. Klappenbach, J. Cole, J. M. Rouillard, E. Gulari, J. Tiedje, S. Hashsham.

Q-169/488 Source Tracking of *Escherichia coli* in Maumee Bay, Ohio
P. S. Struffolino, V. Sigler, D. F. Dwyer

C-137/101 Development and Evaluation of a LightCycler™ PCR Assay for the Detection of Enteropathogenic *Escherichia coli*
M. T. Youssef, U. Reischl, N. A. Strockbine

Wednesday, June 08, 2005

9:00 am - 12:00 pm

Q-265/449 Microbial Community Composition, Structure and Diversity in Marine Sediments of Gulf of Mexico Revealed by 50-mer Oligonucleotide Microarray Hybridization
L. Y. Wu, C. W. Schadt, G. S. Wickham, S. C. Chong, A. H. Devol, J. M. Tiedje, J. Z. Zhou

Q-271/456 A Survey of Aerobic and Anaerobic Bacteria in Pond and River Sediments of Stressed Watersheds in Southeastern Massachusetts

M. Lakhal, **P. E. Mancini**

Q-273/459 Antibiotic Resistance Gene Exchange Between Coliform Bacteria in the Upper Susquehanna River

D. A. Miller, Jr., M. E. Allen

Q-279/466 *In vitro* Survival Study of *Campylobacter jejuni* in Aquatic Environments with Traditional Culture Methods and Direct Detection

E. Vereen, Jr., R. R. Lowrance, E. K. Lipp

Q-282/470 Identification of Attributes for Selection of Waterborne Organisms for the Environmental Protection Agency's Contaminant Candidate List (CCL)

N. Nwachuku, **C. P. Gerba**

P-054/341 Comparison of Methods for the Isolation of *Enterobacter sakazakii*

C. Iversen, P. Druggan, **S. J. Forsythe**

P-058/358 A Ganglioside-Based Assay for the Detection of Cholera Toxin in Oyster Homogenate Utilizing an Evanescent Wave Fiber-Optic Biosensor

C. Bedenbaugh, M. Kramer, D. V. Lim

P-065/353 Effect of Chlorine Disinfectant on Antibody-Based Detection of *Escherichia Coli* O157:H7

L. Freeman, C. Nyquist-Battie, D. Lund, D. Lim

Q-237/413 Statistical Analysis of DNA Microarray Data for Parallel Microbial Detection and Mixed Community Fingerprinting

S. Baushke, S. Kravchenko, L. Wick, R. Stedtfeld, D. Tourlousse, A. Herzog, T. Huynh, J-M. Rouillard, E. Gulari, J. M. Tiedje, S. A. Hashsham

Q-238/414 Automated Image Analysis for Quantitative Fluorescence *In Situ* Hybridization in Environmental Samples

Z. Zhou, M. Pons, L. Raskin, J. Zilles

Q-247/425 Phenotypic Microarray Analysis of *Desulfovibrio vulgaris*

S. E. Borglin, T. C. Hazen, J. Carlson, J. Wall, **D. Joyner**

Q-250/429 Spectrophotometric Measurements for the Detection and Identification of Harmful Microorganisms

A. G. Brooke, C. Stephans, T. L. Berg, G. D. Klungness, D. E. Huffman, L. H. Garcia-Rubio

Q-257/438 A Modified Method for the Detection of Human Pathogenic Microsporidia in Agricultural Samples

A. M. Kahler, J. A. Thurston-Enriquez

Q-258/440 Rapid PEG Precipitation Procedures for Virus Concentration in Water and Eluent Samples

T. L. Cromeans, V. R. Hill

Q-259/441 Speciation of Environmental *Enterococcus* and Related Species: Comparison of Four Commercial Phenotypic Methods with Biochemical Testing

M. H. Zhouandai, C. McGee, **D. F. Moore**, J. B. Mott, M. Von Winckelmann, K. Patton, J. C. Stewart, P. J. Brown, D. M. Ferguson

N-152/208 Community Composition of Microorganisms Catalyzing N Removal from a Variety of Coastal Marine Ecosystems

H. J. Mills, E. M. Hunter, D. Westbrook, D. Swofford, J. E. Kostka

N-153/209 Structure and Function of Benthic Microbial Communities in a Sulfidic Creek (Zodletone Mountain, OK)

S. M. Sievert, H. Jonkers, S. Buehring, K-U. Hinrichs, S. J. Molyneaux

Q-219/392 Characterization of *Escherichia coli* Strains Isolated from Ryzosphere of Water Hyacinth in Xochimilco Lake

I. A. Rosas, E. Salinas, A. Cruz, L. Martinez, M. Ramirez, C. Amabile, C. A. Eslava

Q-220/393 A Rapid One Step Quantitative RT-PCR Assay for the Detection of Human Enterovirus with an Internal Positive Control for RT-PCR Inhibitors

J. B. Gregory, R. T. Noble

Q-221/395 Occurrence of *Aeromonas spp.* in Treated and Untreated Waters of Puerto Rico

E. J. Rodriguez, G. A. Toranzos, G. Santos, M. d. Rivera, P. Hernández, R. Núñez, G. Seniera, V. Valcourt

Q-222/396 Identification of Potential Human Pathogens in Gull Feces at a Southwestern Lake Michigan Beach

J. L. Kinzelman, S. L. McLellan, O. A. Olapade, A. R. Amick, K. R. Pond, R. C. Bagley

Q-223/397 Incidence of Antibiotic Resistant Bacteria in Clinics and the Environment Along the Texas-Mexico Border

K. Sternes, **R. Reesmann**, F. Duran, T. Hartke, P. Carrillo

Q-224/399 Presence of Pathogenic Bacteria in Surface Water of the Rio Grande Basin

K. Sternes, **T. Hartke**, R. Reesmann, F. Duran, P. Carrillo

Q-225/400 Molecular Approaches for the Detection of Pathogens in Biosolids

C. M. Rock, A. Alum, M. Abbaszadegan

Q-228/403 Diversity of *Staphylococcus aureus* Strains Recovered from Beach Water Suggests Swimmers as Source of Water Contamination

R. S. Fujioka, T. L. Fowler, A. D. Tice

Q-229/405 Identification of a *Clostridium perfringens* Variable Genetic Marker with Molecular Sequence Analysis

J. C. Smoot, **L. M. Smoot**, H. Bost, E. A. Duffield, J. S. Meschke, D. A. Stahl

Q-230/406 Bacterial Source Tracking of *Escherichia coli* and *Enterococcus sp.* from the Great Salt Lake using Antibiotic Resistance Analysis

S. Merrigan, S. Garcia, A. Fausett, J. Earl, J. Taylor, B. Schow, **W. Lorowitz**, K. Nakaoka

Q-231/407 Development of an *Escherichia coli* O157:H7 Bioluminescent Reporter for Measuring Bioavailable Carbon

L. Hartano, **M. L. Shroyer**, L. Farris, H. Diefus-Dux, R. Turco, B. Reuhs, B. Applegate

N-135/187 Identification of Different Relationships Between Contaminated Groundwater Samples Based Upon Extensive Geochemical Data or Multiple Gene Sequences from Microbial Communities

M. W. Fields, T. Yan, X. Liu, C. E. Bagwell, S. L. Carroll, P. E. Jardine, D. B. Watson, C. S. Criddle, T. C. Hazen, J. Zhou

N-138/191 Quantitative Analysis of rRNA Populations of Bacterial Groups in Dairy Cattle Rumen Samples by Sequence-Specific Small-Subunit rRNA Cleavage Method

Y. Uyeno, Y. Sekiguchi, K. Tajima, A. Takenaka, Y. Kamagata

N-142/196 Inter-Taxa Pattern Recognition of Microbial and Benthic Macro-Invertebrate Communities in Polluted Streams Using Artificial Neural Networks

S-E. Lee, J-H. Choi, M-Y. Song, T-S. Chon, S-C. Kang, S-C. Koh

1:00 pm - 4:00 pm

Q-335/518 Viral Pathogens and Microbiological Indicators in Ground Water from Small Public Water Supplies in Southeastern Michigan

D. S. Francy, R. N. Bushon, E. J. Luzano, E. E. Bertke, G. S. Fout

Q-336/519 A Rapid Detection of Rotavirus with an Integrated Cell Culture and Reverse Transcriptase Polymerase Chain Reaction

R. A. Rodriguez, C. P. Gerba, K. A. Reynolds

Q-337/520 Persistence of *Norovirus* and Related Viral Surrogates Seeded into Surface Water and Groundwater as Determined by Quantitative Reverse Transcription-PCR and/or Cell Culture

J. Bae, K. J. Schwab

Q-338/521 Comparison of ORF2-Based (Region C) Hemi-Nested PCR Assays for the Detection of Low Copy Numbers of Noroviruses in Environmental Water Samples

A. M. Maloney, J. Vinje

Q-340/523 Human Polyomavirus, JCV, as a Potential Marker of Human Waste in the Environment

A. K. Rafique, S. Jiang

Q-341/525 A Survey of Pathogenic Viruses and Indicators in Boston Harbor and the Charles River

A. C. Rex, K. A. Coughlin, N. A. Ballester

Q-342/526 Inactivation of Human Adenoviruses and Fecal Indicator Bacteria in Marine Water

S. B. Choi, S. Jiang

Q-344/528 A SYBR Green Mediated Real-Time PCR Assay Differentiates *Vibrio vulnificus* Strains Based on Virulence Potential

K. V. Gordon, V. J. Harwood

Q-345/530 Diversity of Tetracycline Resistance Gene Profiles Among Microbial Communities in Georgia Estuaries

G. B. Kohlhagen, Y. Atkas, H. Hoehn, A. L. Barkovskii

Q-347/532 Genetic Diversity of PAH-Degrading Bacteria in Marine Sediments of Ushuaia Bay, Argentina

L. D. Guerrero, W. D. Di Marzio, **H. M. Dionisi**

Q-348/533 Using Remote Sensing for the Investigation of *Vibrio parahaemolyticus* in Gulf Coast Oysters (*Crassostrea virginica*) and Overlying Waters for Risk Assessment

A. M. B. Phillips, A. DePaola, J. Bowers, S. Ladner, J. Krantz, G. Blackstone, D. J. Grimes

Q-349/534 Real Time PCR and Standard Culture Methods for Estimating Total and Pathogenic *Vibrio parahaemolyticus*-MPN in Alaskan Oysters

J. L. J. Nordstrom, S. Murray, C. Allison, C. Bentz, S. Watt, J. McLaughlin, E. Thompson, E. Sachs, C. Vandergrift, G. Blackstone, A. DePaola

Q-350/535 *Vibrio vulnificus* Densities in Oyster and Surface Water Samples from the Charleston, SC Area

J. A. Gooch, K. Bass, P. Pennington, M. Jones, G. Scott

Q-351/536 High Power Ultrasonic Treatment of Ballast Water and Wastewater Organisms

D. Stamper, E. Holmes, R. Jacobs, R. Brizzolara

Q-352/537 Transport and Adhesion of *Burkholderia cepacia* G4g and ENV435g in Aquatic Environments

S. L. Walker

Q-354/539 Detection of Bacterial Indicators and Pathogenic Microorganisms from Groundwater on South Bass Island, OH

S. L. Molloy, **T-T. Fong**, D. L. Wilson, L. S. Mansfield, J. B. Rose

Q-355/540 Real-time, in situ Monitoring of Bioactive Zone Dynamics in Saturated Porous Media Comprising Chemical, Physical, and Microbial Heterogeneities

J. G. Dorn, M. L. Brusseau, R. M. Maier

Q-358/543 Occurrence of *Cryptosporidium* and *Giardia* in Source Waters of Central Arizona

H. Ryu, M. Abbaszadegan

Q-309/489 Development of Rapid and Ultra-Sensitive PCR Assay for Detection of *Escherichia coli* and Enterococci in Drinking Water

A. F. Maheux, L. Bissonnette, M. Boissinot, F. J. Picard, A. Huletsky, P. Simard, M. Ouellette, P. H. Roy, M. G. Bergeron

Q-310/490 New Target and Control Assays for Quantitative Polymerase Chain Reaction (QPCR) Analysis of *Enterococci* in Water

S. D. Sieftring, L. Wymer, R. Haugland

- Q-311/491 Evaluation of *Methanobrevibacter smithii* as a Human-Specific Marker of Fecal Pollution
J. A. Ufnar, R. D. Ellender, S. Y. Wang
- Q-312/492 Fecal Indicator Bacteria Measurements in Water Samples by Quantitative Polymerase Chain Reaction (QPCR) Analyses of Fresh and Archived DNA Extracts
M. Varma, L. J. Wymer, R. A. Haugland
- Q-313/494 Microbial Source Determination in an Anthropogenically Impacted and an Unimpacted Florida Watershed Utilizing Host-Specific Genetic Markers
S. D. Shehane, R. M. Ulrich, T. Scott, V. J. Harwood
- Q-314/495 An Evanescent Wave Fiber Optic Biosensor for the Detection of Fecal Enterococci in Beach Water
M. T. Trindade, M. F. Kramer, D. V. Lim
- Q-315/496 Detection and Quantification of Enterococci Using Rapid Cycle, Real-Time PCR
J. B. James, H. Brown, IV, F. J. Genthner
- Q-316/497 Development of Rapid Methods to Detect Infectious F+ Coliphages as Indicators of Fecal Pollution
D. C. Love, M. D. Sobsey
- Q-317/498 An Overview of Microbial Source Tracking for Watershed Management
S. C. Long, K. Han, J. D. Plummer
- Q-318/499 Improved Methods for the Detection of Coliphages in Coastal Water and Molluscan Shellfish
G. L. Lovelace, M. D. Sobsey
- Q-321/503 Detection of Coliphages in Large Volumes of Water Using Positively Charged Filters
F-C. Hsu, D. Battigelli, R. Wong, F. Tepper, B. Robinson, J. Stewart³
- Q-322/504 The Inter-Tidal Zone is the Source of Enterococci to a Subtropical Recreational Beach
M. E. Durbin, A. M. Abdelzaher, N. F. Heybeck, H. M. Solo-Gabriele, S. Elmir, K. D. Goodwin, C. Sinigalliano
- Q-323/505 Detection of Human Polyomavirus in Environmental Water Samples as an Indication of Human Fecal Contamination
S. M. McQuaig, T. M. Scott, J. O. Lukasik, S. R. Farrah
- Q-325/507 Comparison of TaqMan and Scorpion Probes for use in QPCR Multiplex Assays for the Assessment of Fecal Contamination in Environmental Waters
A. D. Blackwood, R. T. Noble
- Q-326/508 Genetic Diversity of *Escherichia coli* Isolated from Backshore Sand of Two Freshwater Beaches of Southern Lake Michigan
W. T. E. Ting, D. S. Johnson, M. N. Byappanahalli, R. L. Whitman, C. C. Tseng
- Q-327/509 Specificity and Sensitivity of Fecal *Bacteroidetes* Human-Specific Primers with Fecal and Wastewater Samples from the U.S. Midwest and Northeast Regions
R. J. Tang, J. W. Santo Domingo, O. C. Shanks, M. C. Waldron, P. K. Weiskel, R. F. Breault, O. C. Pancorbo
- Q-328/510 Comparison of Rep-PCR DNA Fingerprints of *Escherichia coli* Isolated from Multiple Sources
R. U. Wijesinghe, **Y. Feng**, D. M. Stoeckel, C. W. Wood
- Q-330/512 Temporal Variability of *Enterococci* Species in Streams Impacted by Cattle Fecal Contamination
M. Molina, J. Maimes, J. Fisher, B. Johnson
- Q-331/514 Fecal Source Determination in the Stock Creek Watershed Based on Host-Specific Bacteroides Assays
D. Williams, A. C. Layton, V. Garrett, R. Gentry, L. McKay, G. Saylor
- Q-332/515 Evaluation of Data Requirements for Developing Effective Pathogen TMDLs

D. R. Dulaney, K. J. Maier, **P. R. Scheuerman**

Q-333/516 A Comparison Study of Microbial Enzyme Activities and Coliforms in the Sediments of a Fecally-contaminated Tennessee Stream Relative to Season and Land Use

B. G. Evanshen, K. J. Maier, P. R. Scheuerman

Q-334/517 Bacterial Source Tracking in Virginia's Public Beaches

J. W. Dickerson, Jr., C. Hagedorn

P-076/449 Development of an Improved DNA Preparation and Enrichment Method for the Detection of Water- and Food-borne Pathogenic Bacteria and Protozoa

M. Murphy, **S. Chen**

P-077/450 Multiplex Melt-Curve Detection of Enterotoxigenic *B. cereus hblC*, *hblA*, and *nheA* Gene Targets

K. Gracias, J. McKillip

P-082/455 Unique Strategies for Identifying *E. coli* O157:H7 by Real-Time PCR Using Both 5'-Nuclease and Fluorescence Resonance Energy Transfer (FRET) Probes

K. J. Yoshitomi, K. C. Jinneman, S. D. Weagant

Thursday, June 09, 2005

9:00 am - 12:00 pm

Q-404/568 Microbial Source Tracking: Multiplex Quantitative Real-Time RT-PCR Assay for F-Specific RNA Coliphages

M. Kirs, D. C. Smith

Q-405/569 Long Term Survival of Fecal Indicator Bacteria in Beach Sand and Interstitial waters of a Tropical Coastal Environment

E. E. Sánchez, R. Droz, G. A. Toranzos

Q-406/570 Investigation of Microbial Fecal Pollution of a Pristine Florida Beach by BOX-PCR of *Escherichia coli* and Enterococci and PCR Amplification of Host-Specific Markers

M. J. Brownell, M. J. Dontchev, S. D. Shehane, T. M. Scott, J. Lukasik, R. C. Kurz, V. J. Harwood

Q-407/571 Predicting *E. coli* Concentrations at Five Indiana Beaches of Southern Lake Michigan

R. L. Whitman, M. B. Nevers

Q-408/573 Identifying Sources of Fecal Pollution in a Mixed Use Watershed in Virginia

G. Touchton, C. Hagedorn

Q-409/574 Use of Bacteroides PCR-Based Methods to Examine Fecal Contamination Sources in Tropical Coastal Waters

M. M. Bonkosky, M. Rivera, O. C. Shanks, C. A. Kelty, L. Casillas, J. W. Santo Domingo

Q-410/575 Carbon Source Utilization and Antibiotic Resistance Analysis (Disk Diffusion) as Methods for Source Tracking in Texas Surface Waters

P. J. Brown, J. C. Stewart, C. A. Branecky, J. B. Mott

Q-411/576 Using FAME Profiles of Fecal Coliforms to Predict Sources of Fecal Contamination in a Natural Pond

B. Z. Haznedaroglu, D. H. Zitomer, **M. Duran**

Q-412/577 Resuscitation of Viable But Non-Culturable Coliforms from Polluted Surface Waters

R. E. Fernandez

Q-413/578 Fatty Acid Methyl Ester Profiles of Total Coliforms for Microbial Source Tracking

B. Z. Haznedaroglu, G. B. Hughes-Strange, M. Duran

Q-414/579 Beach Water Quality and Microbial Source Tracking Library Validation: Consideration of *E. coli* Population Diversity

M. J. Dontchev, D. L. Wingfield, T. A. Cutting, P. T. Amuso, A. C. Cannons, V. J. Harwood

Q-415/580 Use of *Escherichia coli* *fim* Gene Polymorphisms as a Bacterial Source Tracking (BST) Tool
J. B. Crozier, M. Salama, A. Hinlicky, C. Hagedorn

Q-416/581 Considerations for Using Sewage Versus Direct Human Samples to Generate a Bacterial Source Tracking Database
T. L. O'Brien, D. Bailey, A. Gill, P. Staton

Q-418/583 Survival and Implications of Bacteroidetes, *Bifidobacterium*, and *Selenomonas* as Alternative Fecal Pollution Indicators
C. J. Schulz, G. W. Childers

Q-419/584 Genetic Characteristics of *E. coli* Isolated from Attached Green Algae, *Cladophora glomerata*
M. Byappanahalli, M. Sadowsky, D. Shively, R. Whitman

Q-420/585 Temporal Variability of Microbial Indicator Bacteria Runoff Concentrations from Tilled and No-Tilled Manured Cropland
J. A. Thurston-Enriquez, B. Eghball, J. Gilley

Q-421/586 Correlation of Bacteroidetes General and Host-Specific PCR Markers with the Presence of *Salmonella* spp. and *Escherichia coli* O157:H7
S. P. Walters, K. G. Field, V. P. J. Gannon, T. A. Graham, A. Muckle, J. Thomas, J. Byrne

Q-422/587 A Survey of F Plasmid Presence and Type In *E. coli* Isolates From Animal, Avian and Human Sources To Evaluate the Potential Utility of F+RNA Phages as a Sources Tracking Tool
N. K. Josephs, H. Viernes, F. Farin, J. S. Meschke

Q-423/588 Evaluation of Host Specific PCR-Based Methods for the Identification Fecal Pollution
J. W. Santo Domingo, R. Lamendella, J. Tang, O. Pancorbo, O. Shanks, C. Kelty

Q-424/589 Evaluation of Enterococci and Fecal Coliform Bacteria as Indicators of Viral Pathogen Loads In Marine Recreational Waters
B. Haley, J. C. Venton, E. Vereen, T. J. Onifade, K. Caspary, E. K. Lipp

Q-425/590 Detection and Occurrence of Coliphages and Enteric Bacteria as Indicators of Fecal Contamination of Groundwater
M. D. Sobsey, G. Lovelace, S. Goyal, S. Pillai, A. Margolin, N. Nwachuku

Q-426/591 Individual and Joint Survival of Environmental Enterococci
K. L. Entrekin, P. S. Amy, D. E. James

Q-427/592 Comparison of Individual versus Composite Sampling Strategies for Enumeration of Enterococcus in Marine Recreational Water
J. F. Griffith, K. C. Schiff;

C-400/151 DNA Subtyping and Integron Analysis of Multidrug Resistant Clinical and Environmental *Salmonella* Isolates
A. Tatavarthy, K. K. Peak, W. Veguilla, F. Reeves, A. Cannons, P. Amuso, J. Cattani