



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

Publications - Abstracts:

1. Eaton KA, Friedman DI, Francis GJ, Young VB, Haeger J, Whittam TS, Tyler JS, Abu-Ali G. The pathogenesis of renal disease due to enterohemorrhagic *E. coli* in germ free mice. *Gastroenterology*. 134:4. 2008.
- ² 2. Mansfield LS, Bell JA, Wilson DL, Murphy AJ, Fierro BR, Rathinam VA, Young VB. C57BL/6 mice and their IL-10 knockout (KO) can serve as models of *Campylobacter jejuni* colonization and enteritis. *The Keystone Symposia: Determinants of Host Resistance, Susceptibility or Immunopathology to Pathogens: Integrating Knowledge from Experimental Models to Human Disease (J2), Abstract Book*. Keystone, CO. January 6-10, 2006; 119.

Publications - Manuscripts:

1. Abu-Ali G., Lacher D.W., et al. Gene content and evolution of pathogenic *Escherichia coli* of the EHEC clonal complexes. *BMC Genomics*. 2009 Jul 3;10:296
2. Al-Majali AM, Ababneh MM, Shorman M, Saeed AM. Interaction of *Escherichia coli* heat-stable enterotoxin (STa) with its putative receptor on the intestinal tract of newborn kids. *FEMS Immunol Med Microbiology*. 2007; 49:35-40.
- ^{1,2} 3. Arshad MM, Asmar HA, Rahbar MH, Bouton ML, Wells E, Wilkins MJ, Saeed AM. Risk factors for *Salmonella* Oranienburg outbreak in a nursing home in Michigan. *Journal of the American Geriatrics Society*. April 2006; 54(4):715-717.
- ² 4. Arshad MM, Wilkins MJ, Downes FP, Rahbar MH, Erskine RJ, Boulton ML, Saeed AM. A registry-based study on the association between human salmonellosis and routinely collected parameters in Michigan, 1995-2001. *Foodborne Pathogens and Disease*. 2007; 4(1):16-25.
- ² 5. Arshad MM, Wilkins MJ, Downes FP, Rahbar MH, Erskine RJ, Boulton ML, Younus MW, Saeed AM. Epidemiologic attributes of invasive non-typhoidal *Salmonella* infections in Michigan, 1995-2001. *International Journal of Infectious Diseases*. 2008; 12(2):176-182.
- ² 6. Arshad MM, Wilkins MJ, Downes FP, Rahbar MH, Erskine RJ, Boulton ML, Younus MW, Saeed AM. Epidemiology of infant salmonellosis in Michigan: Records of 1995-2001. *Journal of Pediatric Infectious Diseases*. 2007; 2(2):89-94.
7. Antonopoulos DA, Huse S, Morrison HG, Schmidt TM, Sogin ML, Young V. Reproducible community dynamics of the gastrointestinal microbiota following antibiotic perturbation. *Infect Immun*. 2009. PMID: 19307217.
8. Bell JA, St. Charles JL, Murphy AJ, Rathinam VA, Plovanich-Jones AE, Stanley EL, Wolf JE, Gettings JR, Whittam TS, Mansfield LS. Multiple factors interact to produce responses resembling spectrum of human disease in *Campylobacter jejuni* infected C57BL/6 IL-10-/- mice. *BMC Microbiology*. 2009; 9:57.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

9. Bergholz TM, Kailasan Vanaja S, et al. Gene expression induced in *Escherichia coli* O157:H7 upon exposure to model apple juice. *Appl Environ Microbiol.* 2009. PMID: 19346340.
10. Bergholz TM, Tarr CL, et al. Recent gene conversions between duplicated glutamate decarboxylase genes (*gadA* and *gadB*) in pathogenic *Escherichia coli*. *Mol Bio Evol.* 2008; 24:2323-33.
- ^{1, 2} 11. Besser TE, Shaikh N, Holt NJ, Tarr PI, Konkel ME, Malik-Kale P, Walsh CW, Whittam TS, Bono J. Greater diversity of Shiga toxin-encoding bacteriophage insertion sites among *Escherichia coli* O157:H7 isolates from cattle than from humans. *Applied and Environmental Microbiology.* February 2007; 73(3):671-679.
12. Boedeker EC. Gastrointestinal infections, an overview: from pathogens to metagenomes. *Curr Opin Gastroenterol.* 2008; 24:1-3.
13. Boedeker EC. Gut microbes, the innate immune system and inflammatory bowel disease: location, location, location. *Curr Opin Gastroenterol.* 2007; 23:1-3.
14. Cadieux P, Wind A, Sommer P, Schaefer L, Crowley K, Britton RA, Reid G. Evaluation of reuterin production in urogenital probiotic *Lactobacillus reuteri* RC-14. *Appl Environ Microbiol.* 2008; 74:4645-4649.
15. Chang JY, Antonopoulos DA, Kalra A, Tonelli A, Khalife WT, Schmidt TM, Young VB. Decreased diversity of the fecal microbiome in recurrent *Clostridium difficile*-associated diarrhea. *J. Infect Dis.* 2008; 197:435-438.
- ² 16. Cho S, Boxrud DJ, Bartkus JM, Whittam TS, Saeed AM. Multiple-locus variable-number tandem repeat analysis of *Salmonella* enteritidis isolates from human and non-human sources using a single multiplex PCR. *FEMS Microbiology Letters.* August 10, 2007; 275(1):16-23.
17. Cho S, Whittam TS, et al. Allele distribution and genetic diversity of VNTR loci in *Salmonella enterica* serotype Enteritidis isolates from different sources. *BMC Microbiology.* 2008; 8:146.
18. Crane JK, Naeher TM, Shulgina I, Zhu C, Boedeker EC. Effect of zinc in enteropathogenic *Escherichia coli* infection. *Infect Immun.* 2007; 75:5974-5984.
19. Eaton KA, Danon SJ, Krakowka S, Weisbrode SE. A reproducible scoring system for quantification of histologic lesions of inflammatory disease in mouse gastric epithelium. *Comp Med.* 2007; 57:57-56.
- ² 20. Eaton KA, Friedman DI, Francis GJ, Tyler JS, Young VB, Haeger J, Abu-Ali G, Whittam TS. Pathogenesis of renal disease due to enterohemorrhagic *Escherichia coli* in germ-free mice. *Infection and Immunity.* 2008; 76(7): 3054-3063.
21. Eaton KA, Friedman DI, Francis GJ, Young VB, Haeger J, Whittam TS, Tyler JS, Abu-Ali G. The pathogenesis of renal disease due to enterohemorrhagic *E. coli* in germ free mice. *Gastroenterology.* 2008, 134:4.

¹ Included in 2007 Contract Review² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

22. Eaton KA, Whittam TS, Francis GJ, Wu V, Benson L. A germ-free mouse model of renal disease due to enterohemorrhagic *Escherichia coli*. *Veterinary Pathology*. 2006; 43:863.
- ² 23. Feng PC, Monday SR, Lacher DW, Allison L, Siitonen A, Keys C, Eklund M, Nagano H, Karch H, Keen J, Whittam TS. Genetic diversity among clonal lineages within *Escherichia coli* O157:H7 stepwise evolutionary model. *Emerging Infectious Diseases*. 2007; 13(11):1701-1706.
24. Frank DN, St. Amand AL, Feldman RA, Boedeker EC, Harpaz N, Pace NR. Molecular-phylogenetic characterization of microbial community imbalances in human inflammatory bowel diseases. *Proceedings of the National Academy of Sciences*. 2007; 104(34):13780-13785.
25. Hazbon, M.H., Motiwala, A.S. et al. Convergent evolutionary analysis identifies significant mutations in drug resistance targets of *Mycobacterium tuberculosis*. *Antimicrob Agents Chemother*. 2008; 52(9):3369-3376.
26. Hufner E, Britton RA, Roos S, Jonsson H, Hertel C. Global transcriptional response of *Lactobacillus reuteri* to the sourdough environment. *Syst Appl Microbiol*. 2008; 31:323-338.
- ² 27. Hyma KE, Lacher DW, Nelson AM, Bumbaugh AC, Janda JM, Strockbine NA, Young VB, Whittam TS. Evolutionary genetics of a new pathogenic *Escherichia* species: *Escherichia albertii* and related *Shigella boydii* strains. *Journal of Bacteriology*. 2005; 187(2):619-628.
28. Jacobson, M.J., Lin, G., et al. Phylogenetic analysis of *Clostridium botulinum* type A by multilocus sequence typing. *Microbiology*. 2008; 154(pt 8): 2408-2415.
29. Konczyk P, Ziebell K, et al. Genomic O island 122, locus for enterocyte effacement, and the evolution of virulent verocytotoxin-producing *Escherichia coli*. *Journal of Bacteriology*. 2008; 190(17):5832-40.
30. Kulasekara BR, Jacobs M, Zhou Y, Wu Z, Whittam TS, Kaul R, Brittnacher M, Miller SI, et al. Analysis of the genome of the *Escherichia coli* O157:H7 2006 spinach-associated outbreak isolate indicates candidate genes that may enhance virulence. *Infection and Immunity*. September 2009; 77(9):3713-21.
- ^{1,2} 31. Lacher DW, Steinsland H, Blank TE, Donnenberg MS, Whittam TS. Molecular evolution of typical enteropathogenic *Escherichia coli*: Clonal analysis by multilocus sequence typing and virulence gene allelic profiling. *Journal of Bacteriology*. 2007; 189(2):342-350.
- ^{1,2} 32. Lacher DW, Steinsland H, Whittam TS. Allelic subtyping of the intimin locus (*eae*) of pathogenic *Escherichia coli* by fluorescent RFLP. *FEMS Microbiology Letters*. 2006; 261(1):80-87.
- ² 33. Manning SD, Madera RT, Schneider W, Dietrich SE, Khalife W, Brown W, Whittam TS, Somsel P, Rudrik JT. Surveillance for Shiga toxin-producing *Escherichia coli* (STEC) in Michigan, 2001-2005. *Emerging Infectious Diseases*. 2007; 13(2):318-321.

¹ Included in 2007 Contract Review² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

- ² 34. Manning SD, Motiwala AS, Springman AC, Qi W, Lacher DW, Ouellette LM, Mladonicky JM, Somsel P, Rudrik JT, Dietrich SE, Zhang W, Swaminathan B, Alland D, Whittam TS. Variation in virulence among clades of *Escherichia coli* O157:H7 associated with disease outbreaks. *Proc. Natl. Acad. Sci.* March 25, 2008; 105(12):4868-4873.
- ^{1,2} 35. Mansfield LS, Bell JA, Wilson DL, Murphy AJ, Elsheikha HM, Rathinam VA, Fierro BR, Linz JE, Young VB. C57BL/6 and congenic interleukin-10 deficient mice can serve as models of *Campylobacter jejuni* colonization and enteritis. *Infection and Immunity.* 2006; 75(3):1099-1115.
- ² 36. Mansfield LS, Patterson JS, Fierro BR, Murphy AJ, Rathinam VA, Kopper JJ, Barbu NI, Onifade TJ, Bell JA. Genetic background of IL-10 ^{-/-} mice alters host-pathogen interactions with *Campylobacter jejuni* and influences disease phenotype. *Microbial Pathogenesis.* 2008; 1-17.
37. Mansfield LS, Schauer DB, Fox JG. Animal models of *Campylobacter jejuni* infections, In: *Campylobacter*, I. Nachamkin, C.M. Szymanski and M.J. Blaser (eds), *American Society for Microbiology Press*, Washington D.C. Chapter 21:367-381.
- ^{1,2} 38. Monday SR, Keys C, Hanson P, Shen Y, Whittam TS, Feng P. Produce isolates of the *Escherichia coli* Ont: H52 serotype that carry both Shiga toxin 1 and stable toxin genes. *Applied and Environmental Microbiology.* 2006; 72(4):3062-3065.
- ^{1,2} 39. Palaniappan RUM, Zhang Y, Chiu D, Torres A, DebRoy C, Whittam TS, Chang YF. Differentiation of *Escherichia coli* pathotypes by oligonucleotide spotted array. *Journal of Clinical Microbiology.* 2006; 44(4):1495-1501.
40. Parthasarathy G, Mansfield LS. Recombinant IL-4 (rIL-4) enhances *Campylobacter jejuni* invasion of Intestinal Pig Epithelial Cells (IPEC-1). *Microbial Pathogenesis* 2009. PMID: 19409975.
41. Rathinam VA, Appledorn DM, Hoag KA, Amalfitano A, Mansfield LS. *Campylobacter jejuni*-induced activation of dendritic cells involves cooperative signaling through Toll-like receptor 4 (TLR4)-MyD88 and TLR4-TRIF axes. *Infection and Immunity.* 2009; PMID:19332531, doi:10.1128/IAI.01562-08.
42. Rathinam VA, Hoag KA, Mansfield LS. Dendritic cells from C57BL/6 mice undergo activation and induce Th1-effector cell responses against *Campylobacter jejuni*. *Microbes Infect.* 2008; 10(12-13):1316-1324.
- ² 43. Riordan JT, Viswanath SB, Manning SD, Whittam TS. Genetic differentiation of *Escherichia coli* O157:H7 clades associated with human disease by real-time PCR. *Journal of Clinical Microbiology.* 2008; 46(6):2070.
44. Saeed AM, Cho S, Younus Y, Leung AKC, Davies DH. Novel approaches to diagnosing Salmonellosis. Chapter in *Salmonella Infections: New Research.* 2008; 93-106.
45. Saeed AM, Naji R. Infectious Agents. Chapter in *Epidemiologic Principles and Food Safety, Tamar Lasky edition.* Oxford University. 2007; 18-39.

¹ Included in 2007 Contract Review² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

- ^{1, 2} 46. Saeed AM, Walk ST, Arshad MM, Whittam TS. Clonal structure and variation in virulence of *Salmonella* enteritidis isolated from mice, chickens, and humans. *Journal of AOAC International*. 2006; 89(2):504-511.
47. Serna AT, Boedeker EC. Pathogenesis and treatment of Shiga toxin-producing *Escherichia coli* infections. *Curr Opin Gastroenterol*. 2008; 24:38-47.
- ² 48. Tarr CL, Nelson AM, Beutin L, Olsen KE, Whittam TS. Molecular characterization reveals similar clonal groups of *Escherichia coli* of serogroup O174 (OX3). *Journal of Bacteriology*. 2008; 190(4):1344-1349.
49. Vanaja KS, Riordan JT, et al. Characterization of the *Escherichia coli* O157:H7 Sakai GadE regulon. *J. Bacteriol*. 2009; 191(6):1868-1877.
50. Whitehead K, Versalovic J, Roos S, Britton RA. Genomic and genetic characterization of the bile stress response of probiotic *Lactobacillus reuteri* ATCC 55730. *Appl Environ Microbiol*. 2008; 74:1812-1819.
- ² 51. Wick LM, Qi W, Lacher DW, Whittam TS. Evolution of genomic content in the stepwise emergence of *Escherichia coli* O157:H7. *Journal of Bacteriology*. 2005; 187(5):1783-1791.
52. Young VB, Schmidt TM. Overview of the gastrointestinal microbiota. *Adv Exp Med Biol*. 2008; 635:29-40.
- ² 53. Younus MW, Hartwick E, Siddiqi AA, Wilkins MJ, Davies HD, Rahbar M, Funk J, Saeed AM. The role of neighborhood level socioeconomic characteristics in *Salmonella* infections in Michigan (1997-2007): Assessment using geographic information system. *International Journal of Health Geographics*. 2007; 6(1):56.
- ^{1, 2} 54. Younus MW, Wilkins MJ, Arshad MM, Rahbar MH, Saeed AM. Demographic risk factors and incidence of *Salmonella* enteritidis infection in Michigan. *Foodborne Pathogens and Disease*. 2006; 3(3):266-273.
55. Younus MW, Wilkins MJ, Nguyen C, Davies HD, Rahbar MH, Funk J, Siddiqi A, Saeed AM. The role of the contaminated environment in the occurrence of sporadic non-typhoidal *Salmonella* infections in Michigan children: Findings from a population-based case-control study. *American Journal of Epidemiology*. 2008; 167(11):S77
- ^{1, 2} 56. Zhang W, Qi W, Albert TJ, Motiwala AS, Alland D, Hyytia-Trees EK, Ribot EM, Fields PI, Whittam TS, Swaminathan B. Probing genomic diversity and evolution of *Escherichia coli* O157 by single-nucleotide polymorphisms. *Genomic Research*. June 2006; 16(6):757-767.
57. Ziebell K, Konczyk P, Yong I, Frost S, Mascarenhas M, Kropinski AM, Whittam TS, Read SC, Karmali MA. Applicability of phylogenetic methods for characterizing the public health significance of verocytotoxin-producing *Escherichia coli* strains. *Applied. Environ. Microbiol*. 2008; 74(5):1671-1675.

¹ Included in 2007 Contract Review² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

58. Zhu C, Feng S, Sperandio V, Yang Z, Thate TE, Kaper JB, Boedeker EC. The possible influence of LuxS in the *in vivo* virulence of rabbit enteropathogenic *Escherichia coli*. *Vet Microbiol.* 2007; 125:313-322.
59. Zhu C, Feng S, Yang Z, Davis K, Rios H, Kaper JB, Boedecker EC. LEE-encoded regulator (Ler) mutants elicit serotype-specific protection, but not cross protection, against attaching and effacing *E. coli* strains. *Vaccine.* 2007; 25:1884-1892.
60. Zhu C, Yu J, Yang Z, Davis K, Rios H, Wang B, Glenn G, Boedeker EC. Protection against Shiga toxin-producing *Escherichia coli* infection by transcutaneous immunization with Shiga toxin subunit B. *Clin Vaccine Immunol.* 2008; 15:359-366.

Manuscripts in Press/Submission/Preparation:

1. Abu-Ali G, Ouellette LM, et al. Distinct transcriptional responses of the *Escherichia coli* O157:H7 spinach outbreak strain and the Sakai strain exposed to bovine mammary epithelial cells (MAC-T).
2. Abu-Ali G, Ouellette LM, et al. Increased adherence and virulence gene expression in the *Escherichia coli* O157:H7 strain implicated in a spinach outbreak. *BMC Genomics.* (Submitted)
3. Abu-Ali G, Ouellette LM, et al. Increased virulence in the O157:H7 clade 8 population. *J Molec Microbiol.* (In preparation)
4. Abu-Ali G, Ouellette LM, et al. Increased virulence in the O157:H7 clade 8 population. *Proc Natl Acad Sci USA.* (In preparation)
5. Abdujamilova N, Clark P, Massey J, Somsel P, Muyombwe A, Dixon D, Bartlett P. Norovirus surveillance and shedding in Michigan, 2007-2008. (In preparation)
6. Aref N. Immunogenic *Escherichia coli* heat-stable enterotoxin. *PhD Dissertation.* Michigan State University. Spring 2008. (Submitted)
7. Aref N, Cho S, Evon K, Saeed M. Immunization of rabbits with *Escherichia coli* heat-stable enterotoxin conjugate and evaluation of the kinetics of neutralizing and binding antibody production. (In preparation)
8. Aref N, Cho S, Evon K, Saeed M. Production of egg yolk-derived neutralizing antibody against the *Escherichia coli* heat-stable enterotoxin: Therapeutic modalities. (In preparation)
9. Aref N, Crisp N, Saeed M. Design of highly immunogenic *Escherichia coli* heat-stable enterotoxin (STa). (In preparation)
10. Aref NM, Saeed AM. Characterization of the affinity and avidity of *Escherichia coli* STa-specific antibodies from rabbit serum and egg yolks.
11. Aref NM, Saeed AM. Characterization of the immune response to immunogenic of the heat stable enterotoxin (STa) from Enterotoxigenic *Escherichia coli*.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

12. Aref NM, Saeed AM. Immunization of egg laying hens with immunogenic heat stable enterotoxin (STa) from Enterotoxigenic *Escherichia coli*.
13. Aref NM, Saeed AM. Optimization of the production and purification of the heat stable enterotoxin (STa) from Enterotoxigenic *Escherichia coli*.
14. Gordoncillo, Abdujamilova MJ, Perri N, Donabedian S, Zervos M, Bartlett P. Colonization with Methicillin-resistant and Methicillin-sensitive *Staphylococcus aureus* in a Michigan Cohort with extensive livestock exposure. (In preparation)
15. Lacher DW, Steinsland H, et al. A revised system of nomenclature for allelic variants of intimin (*eae*). *J Bacteriol*. (In preparation)
16. Manning SD. *Escherichia coli* infections, 2nd edition. Chelsea House Publishers and Facts on File Infobase Publishing, NewYork, NY. (In preparation)
17. Manning SD, Million AD, et al. Prevalence and transmission of group B *Streptococcus* in families living on farms and their farm animals. *J Clin Microbiology*. (In preparation)
18. Manning SD, Whittam TS. Applications of genomics in foodborne pathogen research: Evolution. *In: Genomics of Foodborne Pathogens*. Springer, New York, NY. (In preparation)
19. Mansfield LS, Fierro BR, Murphy AJ, Rathinam VA, Young VB, Bell JA. IL-10 knockout (KO) mice of various genetic backgrounds develop non-protective isotype specific anti-*Campylobacter jejuni* IgG antibodies. 2006. (In preparation)
20. Mansfield LS, Patterson JS, Fierro BR, Murphy AJ, Apodaca SA, Barbu NI, Rathinam VA, Bell JA. Mouse genetic background influences host/pathogen interactions between *Campylobacter jejuni* and interleukin-10 deficient mice. *Journal of Molecular Microbiology*. 2008. (Accepted)
21. McNamara S, Abdujamilova N, Somsei P, Gordoncillo MJ, DeDecker JM, Bartlett P. Carriage of *Clostridium difficile* and other enteric pathogens among a 4-H occupational cohort. *J Clin Micro*. 2009. (Submitted)
22. Million A, Milton NR, Springman AC, Wu G, McNamara S, Bartlett P, Manning S, Davies HD. Prevalence and transmission of Group B Streptococcus in farm families and their animals. (In preparation)
23. Olmstead JD, Mansfield LS, Rathinam V. Determining Organ Specific recovery of *Campylobacter jejuni* using fluorescent techniques. (In preparation)
24. Riordan JT, Tietjen J, et al. Sigma N (RpoN), a novel regulator of extreme acid resistance in pathogenic *Escherichia coli* and *Shigella flexneri*. *J Biol Chem*. (In preparation)
25. Riordan JT, Walsh C, et al. The sigma S (RpoS) and sigma N (RpoN) regulons of *Escherichia coli* O157:H7: contribution to virulence and stress resistance gene regulation. *BMC Genomics*. (In press)
26. Reyes K, Zervos M, Bartlett P. Vancomycin-resistant enterococcus isolates found in pigs in the United States. (In preparation)

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

27. Steinsland H, Lacher DW, et al. Enteropathogenic *Escherichia coli* infections and immunity in young children. *J Infect Dis.* (In preparation)
28. Steinsland, H, Lacher DW, et al. Identification and description of human enterotoxigenic *Escherichia coli* clonal groups. *Plos Pathogens.* (In preparation)
29. Tietjen J, Lacher DW, et al. Distribution of non-O157:H7 Shiga toxin-producing *Escherichia coli* sequence types associated with disease in Michigan and Connecticut. *J Infect Dis.* (In preparation)
30. Tyler JS, Beerl K, Reynolds JL, Smith SJ, Honkala A, Eaton KA, Friedman DI. Prophage induction is required for renal disease and lethality in an EHEC mouse model. *PLOS Pathogens.* 2009. (Accepted)
31. Vanaja KS, Springman AC. Differential expression of virulence and stress fitness-associated genes between clinical and bovine-biased genotypes of *Escherichia coli* O157:H7. *Appl Environ Microbiol.* (In preparation)
32. Wolfson JJ, Gorczyca LA, et al. The operon encoding subtilase cytotoxin, a novel toxin discovered in Australia, is present in non-O157 shiga toxin-producing *Escherichia coli* isolated from humans in the United States. *Clin Infect Dis.* (Submitted)

Presentations - Abstracts:

1. Abu-Ali G, Ouellete LM, et al. Distinct transcriptional responses of the *Escherichia coli* O157:H7 spinach outbreak strain and the Sakai strain exposed to bovine mammary epithelial cells (MAC-T). *American Society for Microbiology Meeting.* Boston, MA. 2008.
2. Abu-Ali G, Ouellete LM, Henderson S, Whittam TS. Differences in virulence gene expression and invasive potential among two common *Escherichia coli* O157:H7 clades. *FWD IRN Annual Meeting.* Stevenson, WA. March 30-April 1, 2009.
3. Bartlett P, Gordoncillo MJ, Abdujamilova N, Perri M, Donabedian S, Zervos MJ. Colonization with Methicillin-resistant and Methicillin-sensitive *Staphylococcus aureus* in a Michigan Cohort with extensive livestock exposure. *FWD IRN Annual Meeting.* Stevenson, WA. March 30-April 1, 2009.
- ² 4. Bell JA, St. Charles JL, Murphy AJ, Rathinam VA, Whittam TS, Mansfield LS. *Campylobacter jejuni* strain adaptation and diet influence virulence and disease and mediate pathotype in the C57BL/6 IL-10 ^{-/-} murine model. *American Society for Microbiology General Meeting,* Toronto, ON. May 21-22, 2007.
5. Buffa B, Bell J, Rathinam AK, Kopper J, Murphy A, Mansfield LS. Responses of C57BL/6 interleukin-10 deficient and proficient mice to infection with low doses of *Campylobacter jejuni* 11168. *Phi Zeta Research Day.* College of Veterinary Medicine, Michigan State University. East Lansing, MI. 2009.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

- ² 6. Bumbaugh AC, Mangold RF, Plovanich-Jones AE, Whittam TS. Genomic variation in *Shigella dysenteriae* type I using a new approach called paired end sequencing mapping. *American Society for Microbiology 103rd General Meeting*. Washington, DC. May, 2003.
7. Cooper C, Bell J, Kopper J, Barbu N, Mansfield LS. The microbial composition of IBD murine model gut biopsy tissues as revealed by T-RFLP. *Phi Zeta Research Day*. College of Veterinary Medicine, Michigan State University. East Lansing, MI. 2009.
- ^{1,2} 8. Eaton KA, Friedman DS, Young VB, Pratt JS, Whittam TS, Francis GJ, Wu V, Benson L, Wilson MJ. A germ-free mouse model of renal disease due to enterohemorrhagic *E. coli*. *American Society for Microbiology General Meeting*. May 21-22, 2007.
- ² 9. Francisco SM, Lacher DW, Whittam TS. Extensive sequence diversity and recombination within the fim locus of enteropathogenic *Escherichia coli*. *American Society for Microbiology 104th General Meeting*. New Orleans, LA. May 23-27, 2004.
- ² 10. Francisco SM, Ouellette LM, Lacher DW, Qi W, Manning SD, Rudrik JT, Somsel PA, Whittam TS. Multilocus sequence typing of Shiga toxin-producing *Escherichia coli* associated with disease in Michigan. *American Society for Microbiology 105th General Meeting*. Atlanta, GA. June, 2005.
- ² 11. Henson MS, Lacher DW, Whittam TS. Allelic variation in espA of pathogenic *Escherichia coli*. *American Society for Microbiology 104th General Meeting*. New Orleans, LA. May 23-27, 2004.
- ² 12. Hyma KE, Bumbaugh AC, Strockbine N, Janda JM, Whittam TS. Multilocus sequence analysis supports a new pathogenic lineage of *Escherichia* that includes *Hafnia* alvei-like strains and *Shigella boydii* type 13. *American Society for Microbiology 103rd General Meeting*. Washington, DC. May, 2003.
- ² 13. Hyma KE, Lacher DW, Strockbine NA, Young VB, Whittam TS. Variation in the cytolethal distending toxin gene of *Escherichia albertii* and related *Shigella boydii* strains. *American Society for Microbiology 104th General Meeting*. New Orleans, LA. May 23-27, 2004.
14. Jerome JP, Plovanich-Jones AE, Bell J, Mansfield LS. Genetic changes during serial passage of *Campylobacter jejuni* in C57BL/6 IL-10-/- mice are associated with enhanced virulence. *Phi Zeta Research Day*. College of Veterinary Medicine, Michigan State University. East Lansing, MI. 2009.
- ^{1,2} 15. Mansfield LS, Bell JA, Murphy AJ, Fierro BR, Rathinam VA, Young VB. *Campylobacter jejuni* infection triggers inflammatory bowel disease in IL-10 knockout (KO) mice of various genetic backgrounds. *Crohn's Colitis Foundation of America Meeting, Microbial-Host Interactions in IBD*. St. Petersburg, FL. 2006.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

- ^{1, 2} 16. Mansfield LS, Bell JA, Wilson DL, Murphy AJ, Fierro BR, Rathinam VA, Young VB. C57BL/6 mice and their IL-10 knockout (KO) can serve as models of *Campylobacter jejuni* colonization and enteritis. *The Keystone Symposia: Determinants of Host Resistance, Susceptibility or Immunopathology to Pathogens: Integrating Knowledge from Experimental Models to Human Disease (J2), Abstract Book*. Keystone, CO. January 6-10, 2006; 119.
- ^{1, 2} 17. Mansfield LS, St. Charles JL, Fierro BR, Murphy AJ, Rathinam VA, Apodaca SA, Patterson JS, Whittam TS, Bell JA. *Campylobacter jejuni* induces a spectrum of pathotypes in murine models dependent on genotype of host and pathogen. *American Society for Microbiology General Meeting*. Toronto, ON. May 21-22, 2007.
- ² 18. Mansfield LS, Steenhard NR, Kringel H, Roepstorff A, Thamsborg SM. *Trichuris suis* is associated with increases in lumen and tissue dwelling *Campylobacters* in the colon and may require bacteria for persistence. *11th International Congress of Parasitology (ICOPA XI) Meeting*. Glasgow, Scotland. 2006.
19. McNamara S, Abdujamilova N, Somsei P, Gordoncillo MJ, DeDecker JM, Bartlett P. Carriage of *Clostridium difficile* and other enteric pathogens among a 4-H occupational cohort. *FWD IRN Annual Meeting*. Stevenson, WA. March 30-April 1, 2009.
- ² 20. Nelson AM, Lacher DW, Tarr CL, Whittam TS. Distribution of autotransporter toxin genes in pathogenic *Escherichia coli*. *American Society for Microbiology 103^d General Meeting*. Washington, DC. May, 2003.
- ² 21. Nelson AM, Lacher DW, Whittam TS. Distribution and characterization of a secondary type III secretion system (ETT2) in a stepwise evolutionary model of *Escherichia coli* O157:H7. *American Society for Microbiology 104th General Meeting*. New Orleans, LA. May 23-27, 2004.
- ^{1, 2} 22. Nelson AM, Ouellette LM, Lee AW, Tarr PI, Whittam TS. Virulence characterization of a common *Escherichia coli* clone (sequence type 29) isolated from pediatric patients in Seattle, WA. *American Society for Microbiology 106th General Meeting*. Atlanta, GA. June, 2006.
- ² 23. Nelson AM, Ouellette LM, Tarr PI, Klein EJ, Whittam TS. Virulence profiling of *Escherichia coli* isolates from pediatric hospital patients. *American Society for Microbiology 105th General Meeting*. Atlanta, GA. June, 2005.
24. Rathinam V, Appledorn DM, Hoag KA, Amalfitano A, Mansfield LS. *Campylobacter jejuni*-induced activation of murine dendritic cells involves cooperative signaling through MyD88 and TRIF. *15th International IRA Conference*. Chantilly, VA. 2008.
25. Reyes K, Zervos M, Bartlett P. Vancomycin-resistant enterococcus isolates found in pigs in the United States. *FWD IRN Annual Meeting*. Stevenson, WA. March 30-April 1, 2009.
26. St. Charles JL, Bell JA, Rathinam AK, Kopper JJ, Jerome JP, Flies AS, Buffa BA, Smith E, Mansfield LS. Investigating NODL/J, IL-10-/-, and B7-2-/- mice as models for *Campylobacter jejuni* induced Guillain Barre Syndrome. *Phi Zeta Research Day*. College of Veterinary Medicine, Michigan State University. East Lansing, MI. 2009.

¹ Included in 2007 Contract Review² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

27. Steinsland H, Lacher DW, Manning SD, Whittam TS. Global distribution of enterotoxigenic *Escherichia coli* (EPEC) clonal groups and associations with infection. *FWD IRN Annual Meeting*. Stevenson, WA. March 30-April 1, 2009.
- ² 28. Steinsland H, Lacher DW, Valentiner-Branth P, Mølbak K, Sommerfelt H, Whittam TS. Protection from natural infections with attaching and effacing *Escherichia coli*. *Fortieth Joint Conference on Cholera and Other Bacterial Enteric Infections & Symposium on Vaccine Development*. Boston University. Boston, MA. June 5-9, 2005.
- ² 29. Tarr CL, Large TM, Bumbaugh AC, Lacher DW, Whittam TS. Evolutionary divergence of pathogenic *Escherichia coli* based on multilocus sequence analysis and multilocus virulence gene profiles. *American Society for Microbiology 103rd General Meeting*. Washington, DC. May, 2003.
- ² 30. Tarr CL, Nelson AM, Beutin L, Whittam TS. Virulence gene content of *Escherichia coli* isolates of serogroup O174 (OX3). *American Society for Microbiology 104th General Meeting*. New Orleans, LA. May 23-27, 2004.
31. Tietjen J, Lacher DW, Ouellette L, Rudrik JT, Somsel PA, Phan Q, Fontanaa J, Hadler J, Whittam T, Manning SD. Population structure of non-O157 shiga toxin-producing *Escherichia coli* (STEC) associated with disease in Michigan and Connecticut. *FWD IRN Annual Meeting*. Stevenson, WA. March 30-April 1, 2009.
32. Vanaja SK, Springman CA, Besser TE, Whittam TS. Differential expression of virulence and stress fitness-associated genes between clinical and bovine-biased genotypes of *Escherichia coli* O157:H7. *FWD IRN Annual Meeting*. Stevenson, WA. March 30-April 1, 2009.
33. Vijay AK, Rathinam VA, Appledorn D, Hoag K, Amalfitano A, Mansfield LS. TLR4 MyD88 and TLR4 TRIF signaling axes cooperate in activating dendritic cells in response to an intracellular enteric pathogen. *Pattern Recognition Molecules and Immune Sensors, Keystone Meetings*. Alberta CA, March, 2009.
- ² 34. Vijay AK, Rathinam VA, Hoag KA, Mansfield LS. Murine dendritic cells produce IL-12 and induce Th1 polarization in response to *Campylobacter jejuni* infection. *American Society for Microbiology General Meeting*. Toronto, ON. May 21-22, 2007.
- ² 35. Walk ST, Calhoun LM, DeRose-Wilson LJ, Alm EW, Whittam TS. Genetic diversity of environmental *Escherichia coli* isolated from beaches along Lake Huron, Michigan. *American Society for Microbiology 104th General Meeting*. New Orleans, LA. May 23-27, 2004.
- ² 36. Walk ST, Keinath LE, Sankaralingam S, Mladonicky JM, Large TM, Alm EW, Whittam TS. Genetic characterization and phenotypic diversity of *Escherichia coli* from freshwater beaches. *American Society for Microbiology 105th General Meeting*. Atlanta, GA. June, 2005.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

- ^{1,2} 37. Walk ST, Mladonicky JM, Sato K, Whittam TS. Organic agricultural effects on the phylogenetic composition of *Escherichia coli* populations from dairy cattle. *24th Annual Midwest Ecology and Evolution Conference (MEEC)*. University of Notre Dame. South Bend, IN. March 5-7, 2004.
- ² 38. Whittam TS. Shiga toxin-producing *Escherichia coli* strains of the O157:H7 clonal group grow better than strains of the O26:H11 clonal group under metal-limiting conditions. *American Society for Microbiology 104th General Meeting*. New Orleans, LA. May 23-27, 2004.
- ² 39. Wick LM, Baushke SW, Shah DC, Whittam TS, Gulari E, Tiedje JM, Hashsham SA. Discriminating single-base-pair mismatches on *in situ* synthesized microfluidic oligoarrays: Effect of mismatch position and type. *American Society for Microbiology 105th General Meeting*. Atlanta, GA. June, 2005.
- ^{1,2} 40. Wick LM, Herzog AB, Rouillard J-M, Gulari E, Tiedje JM, Hashsham SA. Microarray detection and subtyping of allelic variants of PCR amplicons. *American Society for Microbiology 106th General Meeting*. Atlanta, GA. June, 2006.
- ^{1,2} 41. Wilson DL, Plovanich-Jones AE, Qi W, Wick LM, Landgraf J, Bell JA, Rathinam VA, Young VB, Whittam TS, Mansfield LS, Linz JE. Microarray DNA-DNA hybridization analysis of *Campylobacter jejuni* strains implicates loci involved in the colonization of C57BL/6J IL10 -/- mice. *American Society for Microbiology General Meeting*. Orlando, FL. May 21-25, 2006.

Presentations - Posters:

- ² 1. Arshad MM, Bidol S, Rahbar MH, Stoltman G, Saeed AM. Emergence of *Salmonella* serotypes from humans in Michigan, 1995-2001. *International Conference of Emerging Infectious Diseases*. Centers for Disease Control (CDC). Atlanta, GA. February 26, 2004.
- ² 2. Arshad MM, Bidol S, Rahbar MH, Stoltman G, Saeed AM. Trends of *Salmonella* serotypes from humans in Michigan, 1995-2001. *13th Annual Phi Zeta Research Day*. Michigan State University-CVM. October 3, 2003.
- ^{1,2} 3. Baker C, Crisp N, Cho S, Saeed AM. Comparative study of growth patterns of multidrug resistant *Salmonella* enteritidis with drug sensitive strains. *The McNair National Program*. Michigan State University. August 28, 2006.
4. Cho S, Evon K, Whittam T, Saeed M. Genomic and virulence analysis of *Salmonella* serotype Tennessee isolates associated with a national peanut butter outbreak. *FWD IRN Annual meeting*. Stevenson, WA. March 30-April 1, 2009.
5. Cho S, Saeed AM. VNR multilocus analysis and phage typing: novel approach for typing *Salmonella enteritidis* from sporadic human *Salmonella enteritidis* infection in the US. *MSU-CVM Phi Zeta Research Day*. 2008.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

Presentations - Lectures:

1. Abu-Ali G. Genetic groups (clades) of *Escherichia coli* O157:H7 isolated from human disease. *Michigan State University Bad Bug Club seminar*. East Lansing, MI. September, 2008.
2. Abu-Ali G, Ouellette LM, et al. Distinct transcriptional responses of the *Escherichia coli* O157:H7 spinach outbreak strain and the Sakai strain exposed to bovine mammary epithelial cells (MAC-T). *American Society for Microbiology Meeting*. Boston, MA. 2008.
- ² 3. Arshad MM, Saeed AM. Antibiotic resistant *Salmonella* enteritidis in midwest layer farms. *Phi Zeta Conference*. Michigan State University. 2005.
- ² 4. Arshad MM, Saeed AM. Antibiotic resistant-*Salmonella* enteritidis in midwest layer farms. *The 14th Annual Phi Zeta Research Day of the College of Veterinary Medicine*. Michigan State University. October 14, 2004.
- ² 5. Arshad MM, Younus MW, Downes FP, Whittam TS, Reeves MJ, Saeed AM. Invasive Salmonellosis in Michigan, 1995-2001. *The 15th Annual Phi Zeta Research Day of the College of Veterinary Medicine*. Michigan State University. October 20, 2005.
- ^{1,2} 6. Bell JA. *Campylobacter jejuni* strain adaptation and diet influence virulence and disease and mediate pathotype in the C57BL/6 IL-10 ^{-/-} murine model. *American Society for Microbiology General Meeting*. Toronto, ON. May 21-22, 2007.
- ² 7. Boedeker E, Eaton K, Young V, Whittam T, Saeed M, Plovanich-Jones A, Carey S. *Dr. Edgar Boedeker Visit – Mini Workshop*. Michigan State University. January 12-14, 2006.
- ^{1,2} 8. Cho S, Whittam TS, Saeed AM. Cluster analysis of *Salmonella* enteritidis using optimized multilocus variable tandem repeat analysis (MLVA). *The NIH-MRU Annual Meeting*. Stanford, CA. September 22, 2006.
- ² 9. Eaton KA. Enterohemorrhagic *E. coli* (EHEC) and renal disease in germ-free mice. *The HUS Workshop*. Tufts University. April 10-11, 2007.
- ² 10. Francisco SM, Ouellette LM, Lacher DW, Qi W, Manning SD, Rudrik JT, Somsel PA, Whittam TS. Multilocus sequence typing of Shiga toxin-producing *Escherichia coli* associated with disease in Michigan. *The American Society for Microbiology 105th General Meeting*. 2005.
11. Gupta A, Vanaja SK, et al. Survival of *Escherichia coli* serotype O121:H19 in simulated gastric fluid. *American Society for Microbiology Meeting*. Boston, MA. 2008.
- ² 12. Howard A, Younus MW, Miller S, Saeed AM. *In vitro* attachment and invasion of Hep-2 cells by *Salmonella* enteritidis isolated from human, egg, and chicken cecal sources. *The 14th Annual Phi Zeta Research Day of the College of Veterinary Medicine*. Michigan State University. October 14, 2004.
13. Lacher DW, Steinsland H, et al. A revised system of nomenclature for allelic variants of intimin (eae). *American Society for Microbiology Meeting*. Boston, MA. 2008.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

- ² 14. Lacher DW, Whittam TS. Allelic typing of the *eae* locus of pathogenic *Escherichia coli* by fluorescent RFLP. *The American Society for Microbiology 105th General Meeting*. 2005.
- ² 15. Maley JR, Crisp N, Cho S, Saeed AM. Longitudinal study of egg laying hens experimentally infected with a wild type *Salmonella enteritidis* phage type 4 and three mutants. *Phi Zeta Day*. Michigan State University-CVM. October 13, 2006.
16. Manning SD. Variation in virulence among clades of *Escherichia coli* O157. *Annual PulseNet Meeting*. St. Louis, MO. April 17, 2008.
17. Manning SD. Variation in virulence among *Escherichia coli* O157 lineages. *Michigan State University Microbiology and Molecular Genetics departmental Seminar*. East Lansing, MI. October, 2008.
- ^{1,2} 18. Manning SD, Motiwala AS, Springman AC, Qi W, Lacher DW, Ouellette LM, Mladonicky JM, Somsel P, Rudrick JT, Dietrich SE, Zhang W, Alland D, Whittam TS. Genotyping *Escherichia coli* O157:H7 for genome-wide single nucleotide polymorphisms reveals the emergence of a hypervirulent lineage. *American Society for Microbiology General Meeting*. Toronto, ON. May 21-22, 2007.
- ^{1,2} 19. Mansfield LS. *Campylobacter jejuni* induces a spectrum of pathotypes in murine models dependent on genotype of host and pathogen. *American Society for Microbiology General Meeting*. Toronto, ON. May 21-22, 2007.
- ^{1,2} 20. Mansfield LS. *Campylobacter jejuni* infection triggers inflammatory bowel disease in IL-10 knockout (KO) mice of various genetic backgrounds. *Crohn's Colitis Foundation of America Meeting, Microbial-Host Interactions in IBD*. St. Petersburg, FL. May, 2006.
- ^{1,2} 21. Mansfield LS. *Trichuris suis* is associated with increases in lumen and tissue dwelling *Campylobacters* in the colon and may require bacteria for persistence. *11th International Congress of Parasitology (ICOPA XI) Meeting*. Glasgow, Scotland. August, 2006.
- ² 22. Nelson AM, Ouellette LM, Tarr PI, Klein EJ, Whittam TS. Virulence profiling of *Escherichia coli* isolates from pediatric hospital patients. *The American Society for Microbiology 105th General Meeting*. 2005.
- ^{1,2} 23. Rathinam VA. Murine dendritic cells produce IL-12 and induce Th1 polarization in response to *Campylobacter jejuni* infection. *American Society for Microbiology General Meeting*. Toronto, ON. May 21-22, 2007.
24. Riordan JT. Genetic resolution of *Escherichia coli* O157:H7 using single nucleotide polymorphisms. *American Society for Microbiology General Meeting*. Boston, MA. May, 2008.
25. Riordan JT, Tietjen J, Sigma N. A regulator of glutamate-dependent acid resistance in Enterohaemorrhagic *Escherichia coli* (EHEC) O157:H7. *American Society for Microbiology Meeting*. Philadelphia, PA. 2009.

¹ Included in 2007 Contract Review² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

26. Riordan JT, Whittam TS. Contribution of rpoS and rpoN to virulence and stress-fitness gene regulation in *Escherichia coli* O157:H7. *American Society for Microbiology Meeting*. Boston, MA. 2008.
- ^{1, 2} 27. Saeed AM. Advances in molecular epidemiologic approaches to infectious diseases. *The Department of Epidemiology Seminar Series on Burden of Infectious Diseases*. March 13, 2006.
- ² 28. Saeed AM. The evolution of virulence of *Salmonella enteritidis*. *The School of Public Health Seminar Series*. November 1, 2006.
- ^{1, 2} 29. Saeed AM. The role of veterinary epidemiologist in preharvest food safety. *APVMA 2006 Symposium*. East Lansing, Michigan. March 11, 2006.
- ² 30. Saeed AM. Vaccine development to enteric diseases. *The Department of Pediatric and Human Development (Annual Seminar Series)*. Michigan State University. East Lansing, MI. December 6, 2006.
31. Steinsland H. Clonal protection and pathogenicity of enterotoxigenic *Escherichia coli* (EPEC). *National Food Safety & Toxicology Center*. Michigan State University. October 26, 2007.
32. Steinsland H. Clonal protection and pathogenicity of enterotoxigenic *Escherichia coli* (EPEC). *National Food Safety & Toxicology Center*. Michigan State University. February 23, 2007.
33. Steinsland H. Clonal protection and pathogenicity of enterotoxigenic *Escherichia coli* (EPEC). *National Food Safety & Toxicology Center*. Michigan State University. May 12, 2006.
34. Vanaja KS, Riordan JT, et al. Identification of differentially expressed genes in clinical and bovine-specific genotypes of *Escherichia coli* O157:H7. *American Society for Microbiology Meeting*. Boston, MA. 2008.
35. Vijay AK, Rathinam VA, Appledorn DM, Olmstead J, Hoag KA, Amalfitano A, Mansfield LS. *Campylobacter jejuni*-induced Activation of mucine dendritic cells involves cooperative signaling through MyD88 and TRIF. *American Society for Microbiology Meeting*. Boston, MA. 2008.
- ² 36. Whittam TS. How to become a pathogen: Lessons from the pathogenic *Escherichia*. *Ecology and Evolution of Infectious Diseases Seminar Series*. Washington State University. Pullman, WA. February 10, 2006.
- ^{1, 2} 37. Wilson DL. Microarray DNA-DNA hybridization analysis of *Campylobacter jejuni* strains implicates loci involved in the colonization of C57BL/6J IL-10 ^{-/-} mice. *American Society for Microbiology General Meeting*. Orlando, FL. May 21-25, 2006.
38. Wolfson JJ, Qadeer Z, et al. Prevalence of genes encoding the novel toxin, SubAB, in non-O157 STEC that affects humans in the US. *American Society for Microbiology Meeting*. Boston, MA. 2008.
39. Wolfson JJ, Qadeer Z, et al. Prevalence of genes encoding the novel toxin, SubAB, in non-O157 STEC that affects humans in the US. *Infectious Disease Society for America*. Washington DC.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review



COMPLETE NETWORK BIBLIOGRAPHY

Microbiology Research Unit – Michigan State University

- ^{1, 2} 40. Wu VL, Benson LH, Francis G, Eaton KA. Experimental infection of young germ-free mice with *Escherichia coli* O157:H7. *Dendritic Cell-Pathogen Interaction Workshop*. The University of Michigan. May 8, 2006.
- ² 41. Younus MW, Arshad M, Rahbar MH, Saeed AM. Risk of *Salmonella* enteritidis infection in Michigan children (<5 years): Regression model for selected risk factors using poisson analysis. *The 15th Annual Phi Zeta Research Day of the College of Veterinary Medicine*. Michigan State University. October 20, 2005.
- ² 42. Younus MW, Wilkins M, Rahbar MH, Saeed AM. Trend analysis of *Salmonella* enteritidis infection: Comparison of Michigan and national estimates (1977-2001). *The Michigan Public Health Association Annual Meeting*, University of Michigan. Ann Arbor, MI. 2004.

Presentations - Television Interview:

1. Manning SD. Hypervirulent *E. coli*: The microbe commonly known as the hamburger or spinach bug may be becoming more virulent. Interviewed at the *American Society for Microbiology General Meeting* for BBC Microbe World. Toronto, Canada. 2007. Released on October 9, 2007. URL: <http://www.flpradio.com/microbeworld/2007-OCT-1-15.htm>.
- ² 43. Younus MW, Arshad M, Rahbar MH, Saeed AM. Epidemiology of *Salmonella* enteritidis infection in children (< 5 years) in Michigan: Analysis of surveillance data (1995-2003). *The Maternal and Child Health Conference*. Atlanta, GA. 2004.
- ² 44. Younus MW, Arshad MM, Rahbar MH, Saeed AM. *Salmonella* enteritidis infection in Michigan: The role of demographic factors. *The Healthy Mothers and Healthy Babies Conference*. Mackinac, Michigan. 2005.
- ² 45. Younus MW, Arshad MM, Rahbar MH, Saeed AM. *Salmonella* enteritidis infection in the pediatric population of Michigan. *The 14th Annual Phi Zeta Research Day of the College of Veterinary Medicine*. Michigan State University. October 14, 2004.
- ² 46. Younus MW, Arshad MM, Saeed AM. Trend analysis of *Salmonella* enteritidis infection: Comparison of Michigan and national estimates (1977-2001). *Michigan Public Health Conference*. University of Michigan. Ann Arbor, MI. March, 2005.
- ² 47. Younus MW, Wilkins MJ, Arshad M, Rahbar MH, Saeed AM. Epidemiology of *Salmonella* enteritidis infection in children (< 5 years) in Michigan: Analysis of surveillance data (1995-2003). *Michigan Public Health Conference*. University of Michigan. Ann Arbor, MI. March, 2005.
- ² 48. Younus MW, Wilkins MJ, Mokhtar M, Rahbar MH, Saeed AM. *Salmonella* enteritidis infection in Michigan: The role of demographic factors. *Michigan Public Health Conference*. University of Michigan. Ann Arbor, MI. March, 2005.

¹ Included in 2007 Contract Review

² Included in 2008 Contract Review