

ADVISORY COMMITTEE ON THE MICROBIOLOGICAL SAFETY OF FOOD

Items of possible interest from the literature

A list of items from the literature which may be of interest to Members is attached.

**Secretariat
June 2007**

Bacillus

Lapidus A, Goltsman E, Auger S, Galleron N, Segurens B, Dossat C, Land ML, Broussolle V, Brillard J, Guinebretiere MH, Sanchis V, Nguen-The C, Lereclus D, Richardson P, Wincker P, Weissenbach J, Ehrlich SD, Sorokin A. Extending the *Bacillus cereus* group genomics to putative food-borne pathogens of different toxicity. *Chem Biol Interact* 2007 Mar 12. Epub ahead of print.

Vassileva M, Torii K, Oshimoto M, Okamoto A, Agata N, Yamada K, Hasegawa T, Ohta M. A new phylogenetic cluster of cereulide-producing *Bacillus cereus* strains. *J Clin Microbiol* 2007; **45(4)**: 1274-7.

Minnaard J, Delfederico L, Vasseur V, Hollmann A, Riny I, Semorile L, Perez PF. Virulence of *Bacillus cereus*: a multivariate analysis. *Int J Food Microbiol* 2007; **116(2)**: 197-206.

Stenfors Arnesen LP, O'Sullivan K, Granum PE. Food poisoning potential of *Bacillus cereus* strains from Norwegian dairies. *Int J Food Microbiol* 2007; **116(2)**: 292-6.

Klein G, Beckmann L, Vollmer HM, Bartelt E. Predominant strains of thermophilic *Campylobacter* spp. in a German poultry slaughterhouse. *Int J Food Microbiol* 2007; Apr 25. Epub ahead of print.

Mihaljevic RR, Sikic M, Klančnik A, Brumini G, Mozina SS, Abram M. Environmental stress factors affecting survival and virulence of *Campylobacter jejuni*. *Microb Pathog* 2007; Apr 19. Epub ahead of print.

Hepworth PJ, Leatherbarrow H, Hart CA, Winstanley C. Use of suppression subtractive hybridisation to extend our knowledge of genome diversity in *Campylobacter jejuni*. *BMC Genomics* 2007; **8**: 110.

Rasschaert G, Houf K, Van Hende J, De Zutter L. Investigation of the concurrent colonization with *Campylobacter* and *Salmonella* in poultry flocks and assessment of the sampling site for status determination at slaughter.

Tam CC, O'Brien SJ, Petersen I, Islam A, Hayward A, Rodrigues LC. Guillain-Barre syndrome and preceding infection with *Campylobacter*, influenza and Epstein-Barr virus in the general practice research database. *PLoS ONE* 2007; **2**: e344.

Mara DD, Sleigh PA, Blumenthal UJ, Carr RM. Health risks in wastewater irrigation: comparing estimates from quantitative microbial risk analyses and epidemiological studies. *J Water Health* 2007; **5(1)**: 39-50.

van Hees BC, Veldman-Ariesen MJ, de Jongh BM, Tersmette M, van Pelt W. Regional and seasonal differences in incidence and antibiotic resistance of *Campylobacter* from a nationwide surveillance study in The Netherlands: an overview of 200-2004. *Clin Microbiol Infect* 2007; **13(3)**: 305-10.

Wong TL, Hollis L, Cornelius A, Nicol C, Cook R, Hudson JA. Prevalence, numbers, and subtypes of *Campylobacter jejuni* and *Campylobacter coli* in uncooked retail meat samples. *J Food Prot* 2007; **70(3)**: 566-73.

Lienau JA, Ellerbroek L, Klein G. Tracing flock-related *Campylobacter* clones from broiler farms through slaughter to retail products by pulsed-field gel electrophoresis. *J Food Prot* 2007; **70(3)**: 536-42.

Soultos N, Madden RH. A genotyping investigation of the colonization of piglets by *Campylobacter coli* in the first 10 weeks of life. *J Appl Microbiol* 2007; **102(4)**: 916-20.

Davis MA, Conner DE. Survival of *Campylobacter jejuni* on poultry skin and meat at varying temperatures. *Poult Sci* 2007; **86(4)**: 765-7.

Davis MA, Conner DE. Antimicrobial effects of *Pseudomonas aeruginosa* on survivability and recovery of *Campylobacter jejuni* on poultry products. *Poult Sci* 2007; **86(4)**: 760-4.

Nelson JM, Chiller TM, owers JH, Angulo FJ. Fluoroquinolone-resistant *Campylobacter* species and the withdrawal of fluoroquinolones from use in poultry: a public health success story. *Clin Infect Dis* 2007; **44(7)**: 977-80.

Ghafir Y, China B, Dierick K, De Zutter L, Daube G. A seven-year survey of *Campylobacter* contamination in meat at different production stages in Belgium. *Int J Food Microbiol* 2007; **116(1)**: 111-20.

Singer RS, Cox LA Jr, Dickson JS, Hurd HS, Phillips I, Miller GY. Modeling the relationship between food animal health and human foodborne illness. *Prev Vet Med* 2007; **79(2-4)**: 186-203.

Clostridium

Sebaiha M, Peck MW, Minton NP, Thomson NR, Holden MT, Mitchell WJ, Carter AT, Bentley SD, Mason DR, Crossman L, Paul CJ, Ivens A, Wells-Bennik MH, Davis IJ, Cerdano-Tarraga AM, Churcher C, Quail MA, Chillingworth T, Feltwell T, Fraser A, Goodhead I, Hance Z, Jagels K, Larke N, Maddison M, Moule S, Mungall K, Norbertezak H, Rabbinowitsch E, Sanders M, Simmonds M, White B, Whithead S, Parkhill J. Genome sequence of a proteolytic (Group 1) *Clostridium botulinum* strain Hall A and comparative analysis of the clostridial genomes. *Genome Res* 2007 May 22. Epub ahead of print.

Fenicia L, Anniballi F, Aureli P. Intestinal toxemia botulism in Italy, 1984-2005. *Eur J Clin Microbiol Infect Dis* 2007 May 22. Epub ahead of print.

Hedberg CW, Palazzi-Churras KL, Radke VJ, Selman CA, Tauxe RV. The use of clinical profiles in the investigation of foodborne outbreaks in restaurants: United States, 1982-1997. *Epidemiol Infect* 2007; Mar 5, 1-8. Epub ahead of print.

Rupnik M. Is *Clostridium difficile*-associated infection a potentially zoonotic and foodborne disease? Clin Microbiol Infect 2007; **3(5)**: 457-9.

Bloomfield SF, Cookson B, Falkiner F, Griffith C, Cleary V. Methicillin – resistant *Staphylococcus aureus*, *Clostridium difficile*, and extended – spectrum beta – lactamase – producing *Escherichia coli* in the community: assessing the problem and controlling the spread. Am J Infect Control 2007; **35(2)**: 86-8.

Brook I. Infant botulism. J Perinatol. 2007; **27(3)**: 175-80.

Webb MD, Pin C, Peck MW, Stringer SC. Historical and contemporary NaCl concentrations affect the duration and distribution of lag times from individual spores of nonproteolytic *clostridium botulinum*. Appl Environ Microbiol 2007; **73(7)**: 2118-27.

***E. coli* O157**

Zhang Y, Laing C, Steele M, Ziebel K, Johnson R, Benson AK, Taboada E, Gannon VP. Genome evolution in major *Escherichia coli* O157:H7 lineages. BMC Genomics 2007; **8(1)**: 121.

Mather AE, Innocent GT, McEwen SA, Reilly WJ, Taylor DJ, Steele WB, Gunn GJ, Ternent HE, Reid SW, Mellor DJ. Risk factors for hide contamination of Scottish cattle at slaughter with *Escherichia coli* O157. Prev Vet Med 2007 May 5. Epub ahead of print.

Sartz L, De Jong B, Hjertqvist M, Plym-Forsell L, Alsterlund R, Lofdahl S, Osterman B, Stahl A, Eriksson E, Hansson HB, Karpman D. An outbreak of *Escherichia coli* O157:H7 infection in southern Sweden associated with consumption of fermented sausage; aspects of sausage production that increase the risk of contamination. Epidemiol Infect 2007; Apr 20: 1-11. Epub ahead of print.

Hutchinson ML, Thomas DJ, Avery SM. Thermal death of *Escherichia coli* O157:H7 in cattle feeds. Lett Appl Microbiol 2007; **44(4)**: 357-63.

Chase-Topping ME, McKendrick IJ, Pearce MC, MacDonald P, Matthews L, Halliday J, Allison J, Fenlon D, Low JC, Gunn G, Woolhouse ME. Risk factors for the presence of high-level shedders of *Escherichia coli* O157 on Scottish farms. J Clin Microbiol 2007; **45(5)**: 1594-603.

Liu WC, Matthews L, Chase-Topping M, Savill NJ, Shaw DJ, Woolhouse ME. Metapopulation dynamics of *Escherichia coli* O157 in cattle: an exploratory model. J R Soc Interface 2007 March 13. Epub ahead of print.

Franz E, Klerks MM, De Vos OJ, Termorshuizen AJ, van Bruggen AH. Prevalence of Shiga toxin-producing *Escherichia coli* stx 1, stx2, eaeA, and

rfbE genes and survival of *E. coli* O157:H7 in manure from organic and low-input conventional dairy farms. *Appl Environ Microbiol* 2007; **73(7)**: 2180-90.

Stacey KF, Parsons DJ, Christiansen KH, Burton CH. Assessing the effect of interventions on the risk of cattle and sheep carrying *Escherichia coli* O157:H7 to the abattoir using a stochastic model. *Prev Vet Med* 2007; **79(1)**: 32-45.

LeJeune JT, Wetzel AN. Preharvest control of *Escherichia coli* O157 in cattle. *J Anim Sci* 2007; **85 (13 Suppl)**: E73-80.

Listeria

Sagoo SK, Little CL, Allen G, Williamson K, Grant KA. Microbiological safety of retail vacuum-packed and modified-atmosphere-packed cooked meats at end of shelf life. *J Food Prot* 2007; **70(4)**: 943-51.

Felicio MT, Hogg T, Gibbs P, Teixeira P, Weidmann M. Recurrent and sporadic *Listeria monocytogenes* contamination in alheiras represents considerable diversity including virulence attenuated isolates. *Appl Environ Microbiol* 2007 Apr 20. Epub ahead of print.

Beaufort A, Rudelle S, Gnanou-Besse N, Toquin MT, Kerouanton A, Bergis H, Salvat G, Cornu M. Prevalence and growth of *Listeria monocytogenes* in naturally contaminated cold smoked salmon. *Lett Appl Microbiol* 2007; **44(4)**: 406-11.

Tolvanen R, Lunden J, Korkeala H, Wirtanen G. Ultrasonic cleaning of conveyor belt materials using *Listeria monocytogenes* as a model organism. *J Food Prot* 2007; **70(3)**: 758-61.

Gysemans KP, Bernaerts K, Vermeulen A, Geeraerd AH, Debevere J, Devlieghere F, Van Impe JF. Exploring the performance of logistic regression model types on growth/no growth data of *Listeria monocytogenes*. *Int J Food Microbiol* 2007; **114(3)**: 316-31.

Salmonella

Malorny B, Bunge C, Helmuth R. A real-time PCR for the detection of *Salmonella Enteritidis* in poultry meat and consumption eggs. *J Microbiol Methods* 2007 Apr 29. Epub ahead of print.

Leonard J, Marshall JK, Moayyedi P. Systematic Review of the Risk of Enteric Infection in Patients Taking Acid Suppression. *Am J Gastroenterol*. 2007 May 17. Epub ahead of print.

Sanchez J, Dohoo IR, Christensen J, Rajic A. Factors influencing the prevalence of *Salmonella spp.* in swine farms: A meta-analysis approach. *Prev Vet Med* 2007 May 9. Epub ahead of print.

Okamura M, Tachizaki H, Kubo T, Kikuchi S, Suzuki A, Takehara K, Nakamura M. Comparative evaluation of a bivalent killed *Salmonella* vaccine to prevent egg contamination with *Salmonella enterica* serovars *Enteritidis*, *Typhimurium*, and *Gallinarum* biovar *Pullorum*, using 4 different challenge models. *Vaccine* 2007 March 20. Epub ahead of print.

Ma L, Kornacki JL, Zhang G, Lin CM, Doyle MP. Development of thermal surrogate microorganisms in ground beef for in-plant critical control point validation studies. *J Food Prot* 2007; **70(4)**: 952-7.

Sagoo SK, Little CL, Allen G, Williamson K, Grant KA. Microbiological safety of retail vacuum-packed and modified-atmosphere-packed cooked meats at end of shelf life. *J Food Prot* 2007; **70(4)**: 943-51.

Greene SK, Daly ER, Talbot EA, Demma LJ, Holzbauer S, Patel NJ, Hill TA, Walderhaug MO, Hoekstra RM, Lynch MF, Painter JA. Recurrent multistate outbreak of *Salmonella Newport* associated with tomatoes from contaminated fields, 2005. *Epidemiol Infect* 2007; May 3: 1-9. Epub ahead of print.

Hill AA, Snary EL, Arnold ME, Alban L, Cook AJ. Dynamics of *Salmonella* transmission on a British pig grower-finisher farm: a stochastic model. *Epidemiol Infect* 2007; May 3: 1-14. Epub ahead of print.

Amar CF, East CL, Gray J, Itturiza-Gomara M, Maclure EA, Mclauchlin J. Detection by PCR of eight groups of enteric pathogens in 4,627 faecal samples: re-examination of the English case-control Infectious Intestinal Disease Study (1993 – 1996). *Eur J Clin Microbiol Infect Dis* 2007; **26(5)**: 311-23.

Hopkins KL, Wooton L, Day MR, Threlfall EJ. Plasmid-mediated quinolone resistance determinant qnrS1 found in *Salmonella enterica* strains isolated in the UK. *J Antimicrob Chemother* 2007; **59(6)**: 1071-5.

Centers for Disease Control and Prevention (CDC). Preliminary FoodNet data on the incidence of infection with pathogens transmitted commonly through food-10 States, 2006. *MMWR Morb Mortal Wkly Rep* 2007; **56(14)**: 336-9.

Krumkamp R, Reintjes R, Dirksen-Fischer M. Case-case study of a *Salmonella* outbreak: An epidemiological method to analyse surveillance data. *Int J Hyg Environ Health* 2007 Apr 4. Epub ahead of print.

Alcaine SD, Warnick LD, Weidmann M. Antimicrobial resistance in nontyphoidal *Salmonella*. *J Food Prot* 2007; **70(3)**: 780-90.

Pintar K, Cook A, Pollari F, Ravel A, Lee S, Odumeru JA. Quantitative effect of refrigerated storage time on the enumeration of *Campylobacter*, *Listeria*, and *Salmonella* on artificially inoculated raw chicken meat. *J Food Prot* 2007; **70(3)**: 739-43.

Messens W, Grijspeerdt K, De Rue K, De Ketelaere B, Mertens K, Bamelis F, Kemps B, De Baerdemaeker J, Decuypere E, Herman L. Eggshell penetration of various types of hens' eggs by *Salmonella enterica* serovar *Enteritidis*. *J Food Prot* 2007; **70(3)**: 623-8.

White PL, Naugle AL, Jackson CR, Fedorka-Cray PJ, Rose BE, Pritchard KM, Levine P, Saini PK, Schroeder CM, Dreyfuss MS, Tan R, Holt KG, Harman J, Buchanan S. *Salmonella Enteritidis* in meat, poultry, and pasteurized egg products regulated by the U.S. Food Safety and Inspection Service, 1998 through 2003. *J Food Prot* 2007; **70(3)**: 582-91.

Bagger-Skjot L, Nielsen EM, Sandvang D, Ethelberg S, Monnet DL, Hammerum AM. Less frequent *Salmonella* serovars as a reservoir of antimicrobial resistance. *J Antimicrob Chemother* 2007; **59(4)**: 814-5.

Ethelberg S, Sorensen G, Kristensen B, Christensen K, Krusell L, Hempel-Jorgensen A, Perge A, Nielsen EM. Outbreak with multi-resistant *Salmonella Typhimurium* DT104 linked to carpaccio, Denmark, 2005. *Epidemiol Infect* 2007; Mar 5: 1-8. Epub ahead of print.

Kivi M, Hofhuis A, Notermans DW, Wannet WJ, Heck ME, Van de Giessen AW, Van Duynhoven YT, Stenvers OF, Bosman A, VAN Pelt W. A beef-associated outbreak of *Salmonella Typhimurium* DT104 in The Netherlands with implications for national and international policy. *Epidemiol Infect* 2007; Feb 28: 1-10. Epub ahead of print.

Li XZ, Mehrotra M, Ghimire S, Adewoye L. beta-Lactam resistance and beta-lactamases in bacteria of animal origin. *Vet Microbiol* 2007; **121(3-4)**: 197-214.