

## ADVISORY COMMITTEE ON THE MICROBIOLOGICAL SAFETY OF FOOD

## INFORMATION PAPER

Items of interest from the literature***Bacillus cereus***

Ahmad N, Abbasi BH, Fazal H. Effect of different in vitro culture extracts of black pepper (*Piper nigrum L.*) on toxic metabolites-producing strains. *Toxicol Ind Health*. 2013 Nov 5. [Epub ahead of print] PubMed PMID: 24193053.

Alkawareek MY, Gorman SP, Graham WG, Gilmore BF. Potential cellular targets and antibacterial efficacy of atmospheric pressure non-thermal plasma. *Int J Antimicrob Agents*. 2013 Oct 1. pii: S0924-8579(13)00325-7. doi: 10.1016/j.ijantimicag.2013.08.022. [Epub ahead of print.]

Arslan S, Eyi A, Küçüksarı R. Toxigenic genes, spoilage potential, and antimicrobial resistance of *Bacillus cereus* group strains from ice cream. *Anaerobe*. 2014 Feb;25:42-6. doi: 10.1016/j.anaerobe.2013.11.006. Epub 2013 Dec 3.

Bartoszewicz M, Kroten MA, Swiecicka I. Germination and proliferation of emetic *Bacillus cereus* sensu lato strains in milk. *Folia Microbiol (Praha)*. 2013 Nov;58(6):529-35.

Clair G, Lorphelin A, Armengaud J, Duport C. OhrRA functions as a redox-responsive system controlling toxinogenesis in *Bacillus cereus*. *J Proteomics*. 2013 Dec 6;94:527-39.

de Sarrau B, Clavel T, Zwickel N, Despres J, Dupont S, Beney L, Tourdot-Maréchal R, Nguyen-The C. Unsaturated fatty acids from food and in the growth medium improve growth of *Bacillus cereus* under cold and anaerobic conditions. *Food Microbiol*. 2013 Dec;36(2):113-22.

Decousser JW, Ramarao N, Duport C, Dorval M, Bourgeois-Nicolaos N, Guinebretière MH, Razafimahefa H, Doucet-Populaire F. *Bacillus cereus* and severe intestinal infections in preterm neonates: Putative role of pooled breast milk. *Am J Infect Control*. 2013 Oct;41(10):918-21.

Desriac N, Broussolle V, Postollec F, Mathot AG, Sohier D, Coroller L, Leguerinel I. *Bacillus cereus* cell response upon exposure to acid environment: toward the identification of potential biomarkers. *Front Microbiol*. 2013 Oct 2;4:284. Review.

Fernández-Fuentes MA, Abriouel H, Ortega Morente E, Pérez Pulido R, Gálvez A. Genetic determinants of antimicrobial resistance in Gram positive bacteria from organic foods. *Int J Food Microbiol*. 2013 Dec 7;172C:49-56.

Hosein IK, Hoffman PN, Ellam S, Asseez TM, Fakokunde A, Silles J, Devereux E, Kaur D, Bosanquet J. Summertime *Bacillus cereus* colonization of hospital newborns traced to contaminated, laundered linen. *J Hosp Infect.* 2013 Oct;85(2):149-54.

Lee JH, Shin H, Ryu S. Characterization and comparative genomic analysis of bacteriophages infecting members of the *Bacillus cereus* group. *Arch Virol.* 2013 Nov 22. [Epub ahead of print.]

Rajkovic A, Kljajic M, Smigic N, Devlieghere F, Uyttendaele M. Toxin producing *Bacillus cereus* persist in ready-to-reheat spaghetti Bolognese mainly in vegetative state. *Int J Food Microbiol.* 2013 Oct 15;167(2):236-43.

Sifuentes LY, Gerba CP, Weart I, Engelbrecht K, Koenig DW. Microbial contamination of hospital reusable cleaning towels. *Am J Infect Control.* 2013 Oct;41(10):912-5.

Van der Auwera GA, Feldgarden M, Kolter R, Mahillon J. Whole-Genome Sequences of 94 Environmental Isolates of *Bacillus cereus* Sensu Lato. *Genome Announc.* 2013 Oct 3;1(5). pii: e00380-13.

Wang J, Ding T, Oh DH. Effect of Temperatures on the Growth, Toxin Production, and Heat Resistance of *Bacillus cereus* in Cooked Rice. *Foodborne Pathog Dis.* 2013 Nov 27. [Epub ahead of print]

### ***Campylobacter***

Notes from the field: recurrent outbreak of *Campylobacter Jejuni* infections associated with a raw milk dairy—Pennsylvania, April–May 2013. *Clin Infect Dis.* 2013 Nov;57(10):i-ii

Antikainen J, Kantele A, Pakkanen SH, Lääveri T, Riutta J, Vaara M, Kirveskari J. A quantitative polymerase chain reaction assay for rapid detection of 9 pathogens directly from stools of travelers with diarrhea. *Clin Gastroenterol Hepatol.* 2013 Oct;11(10):1300-1307.e3.

Bouwknegt M, Knol AB, van der Sluijs JP, Evers EG. Uncertainty of Population Risk Estimates for Pathogens Based on QMRA or Epidemiology: A Case Study of *Campylobacter* in the Netherlands. *Risk Anal.* 2013 Dec 16. doi: 0.1111/risa.12153. [Epub ahead of print.]

Boysen L, Rosenquist H, Larsson JT, Nielsen EM, Sørensen G, Nordentoft S, Hald T. Source attribution of human campylobacteriosis in Denmark. *Epidemiol Infect.* 2013 Oct 30:1-10.

Committee on Infectious Diseases; Committee on Nutrition. Consumption of raw or unpasteurized milk and milk products by pregnant women and children. *Pediatrics.* 2014 Jan;133(1):175-9.

Davis MA, Moore DL, Baker KN, French NP, Patnode M, Hensley J, Macdonald K, Besser TE. Risk factors for campylobacteriosis in two Washington State counties with high numbers of dairy farms. *J Clin Microbiol*. 2013 Dec;51(12):3921-7.

de Man H, van den Berg HH, Leenen EJ, Schijven JF, Schets FM, van der Vliet JC, van Knapen F, de Roda Husman AM. Quantitative assessment of infection risk from exposure to waterborne pathogens in urban floodwater. *Water Res*. 2014 Jan 1;48:90-9.

Epps SV, Harvey RB, Hume ME, Phillips TD, Anderson RC, Nisbet DJ. Foodborne *campylobacter*: infections, metabolism, pathogenesis and reservoirs. *Int J Environ Res Public Health*. 2013 Nov 26;10(12):6292-304.

Feodoroff B, de Haan CP, Ellström P, Sarna S, Hänninen ML, Rautelin H. Clonal distribution and virulence of *Campylobacter jejuni* isolates in blood. *Emerg Infect Dis*. 2013 Oct;19(10):1653-5.

Ge B, Wang F, Sjölund-Karlsson M, McDermott PF. Antimicrobial resistance in *campylobacter*: susceptibility testing methods and resistance trends. *J Microbiol Methods*. 2013 Oct;95(1):57-67.

Giacomelli M, Salata C, Martini M, Montesissa C, Piccirillo A. Antimicrobial Resistance of *Campylobacter jejuni* and *Campylobacter coli* from Poultry in Italy. *Microb Drug Resist*. 2013 Dec 9. [Epub ahead of print.]

Goddard AD, Arnold ME, Allen VM, Snary EL. Estimating the time at which commercial broiler flocks in Great Britain become infected with *Campylobacter*: a Bayesian approach. *Epidemiol Infect*. 2013 Nov 20:1-9. [Epub ahead of print.]

Horn BJ, Lake RJ. Incubation period for campylobacteriosis and its importance in the estimation of incidence related to travel. *Euro Surveill*. 2013 Oct 3;18(40). pii: 20602.

Hughes GJ, Gorton R. An evaluation of SaTScan for the prospective detection of space-time *Campylobacter* clusters in the North East of England. *Epidemiol Infect*. 2013 Nov;141(11):2354-64.

Janež N, Loc-Carrillo C. Use of phages to control *Campylobacter* spp. *J Microbiol Methods*. 2013 Oct;95(1):68-75.

Kirkpatrick BD, Lyon CE, Porter CK, Maue AC, Guerry P, Pierce KK, Carmolli MP, Riddle MS, Larsson CJ, Hawk D, Dill EA, Fingar A, Poly F, Fimlaid KA, Hoq F, Tribble DR. Lack of homologous protection against *Campylobacter jejuni* CG8421 in a human challenge model. *Clin Infect Dis*. 2013 Oct;57(8):1106-13.

Llarena AK, Sivonen K, Hänninen ML. *Campylobacter jejuni* prevalence and hygienic quality of retail bovine ground meat in Finland. *Lett Appl Microbiol*. 2013 Dec 3. doi: 10.1111/lam.12206. [Epub ahead of print.]

Lévesque S, Fournier E, Carrier N, Frost E, Arbeit RD, Michaud S. Campylobacteriosis in Urban versus Rural Areas: A Case-Case Study Integrated with Molecular Typing to Validate Risk Factors and to Attribute Sources of Infection. PLoS One. 2013 Dec 26;8(12):e83731.

Membré JM, Laroche M, Magras C. Meta-analysis of *Campylobacter* spp. survival data within a temperature range of 0 to 42°C. J Food Prot. 2013 Oct;76(10):1726-32.

Patrick ME, Gilbert MJ, Blaser MJ, Tauxe RV, Wagenaar JA, Fitzgerald C. Human infections with new subspecies of *Campylobacter fetus*. Emerg Infect Dis. 2013 Oct;19(10):1678-80.

Pearson BM, Rokney A, Crossman LC, Miller WG, Wain J, van Vliet AH. Complete Genome Sequence of the *Campylobacter coli* Clinical Isolate 15-537360. Genome Announc. 2013 Dec 12;1(6). pii: e01056-13.

Pitkänen T. Review of *Campylobacter* spp. in drinking and environmental waters. J Microbiol Methods. 2013 Oct;95(1):39-47.

Riddle MS, Murray JA, Cash BD, Pimentel M, Porter CK. Pathogen-specific risk of celiac disease following bacterial causes of foodborne illness: a retrospective cohort study. Dig Dis Sci. 2013 Nov;58(11):3242-5.

Ryan ET. The intestinal pathobiome: its reality and consequences among infants and young children in resource-limited settings. J Infect Dis. 2013 Dec 1;208(11):1732-3.

Schijven J, Bouwknecht M, de Roda Husman AM, Rutjes S, Sudre B, Suk JE, Semenza JC. A Decision Support Tool to Compare Waterborne and Foodborne Infection and/or Illness Risks Associated with Climate Change. Risk Anal. 2013 Dec;33(12):2154-67.

Sivadon-Tardy V, Porcher R, Orlikowski D, Ronco E, Gault E, Roussi J, Durand MC, Sharshar T, Annane D, Raphael JC, Megraud F, Gaillard JL. Increased incidence of *Campylobacter jejuni*-associated Guillain-Barré syndromes in the Greater Paris area. Epidemiol Infect. 2013 Oct 10:1-5.

Stef L, Cean A, Vasile A, Julean C, Drinceanu D, Corcionivoschi N. Virulence characteristics of five new *Campylobacter jejuni* chicken isolates. Gut Pathog. 2013 Dec 13;5(1):41.

Sterk A, Schijven J, de Nijs T, de Roda Husman AM. Direct and indirect effects of climate change on the risk of infection by water-transmitted pathogens. Environ Sci Technol. 2013 Nov 19;47(22):12648-60.

Strachan NJ, Rotariu O, Macrae M, Sheppard SK, Smith-Palmer A, Cowden J, Maiden MC, Forbes KJ. Operationalising factors that explain the emergence of infectious diseases: a case study of the human campylobacteriosis epidemic. PLoS One. 2013 Nov 21;8(11):e79331.

Taboada EN, Clark CG, Sproston EL, Carrillo CD. Current methods for molecular typing of *Campylobacter* species. J Microbiol Methods. 2013 Oct;95(1):24-31.

Teunis PF, Falkenhorst G, Ang CW, Strid MA, De Valk H, Sadkowska-Todys M, Zota L, Kuusi M, Rota MC, Simonsen JB, Mølbak K, Van Duynhoven YT, Van Pelt W. *Campylobacter* seroconversion rates in selected countries in the European Union. Epidemiol Infect. 2013 Oct;141(10):2051-7.

Trimble LM, Alali WQ, Gibson KE, Ricke SC, Crandall P, Jaroni D, Berrang M, Habteselassie MY. Prevalence and concentration of *Salmonella* and *Campylobacter* in the processing environment of small-scale pastured broiler farms. Poult Sci. 2013 Nov;92(11):3060-6.

Ugarte-Ruiz M, Wassenaar TM, Gómez-Barrero S, Porrero MC, Navarro-Gonzalez N, Domínguez L. The effect of different isolation protocols on detection and molecular characterization of *Campylobacter* from poultry. Lett Appl Microbiol. 2013 Nov;57(5):427-35.

Wagenaar JA, French NP, Havelaar AH. Preventing *Campylobacter* at the source: why is it so difficult? Clin Infect Dis. 2013 Dec;57(11):1600-6.

Wensley A, Coole L. Cohort study of a dual-pathogen point source outbreak associated with the consumption of chicken liver pate, UK, October 2009. J Public Health (Oxf). 2013 Dec;35(4):585-9.

Whiley H, van den Akker B, Giglio S, Bentham R. The role of environmental reservoirs in human campylobacteriosis. Int J Environ Res Public Health. 2013 Nov 8;10(11):5886-907.

### ***Clostridium botulinum***

Liang WD, Bi YT, Wang HY, Dong S, Li KS, Li JS. Gene expression profiling of *Clostridium botulinum* under heat shock stress. Biomed Res Int. 2013;2013:760904. doi: 10.1155/2013/760904. Epub 2013

Ng V, Lin WJ. Comparison of assembled *Clostridium botulinum* A1 genomes revealed their evolutionary relationship. Genomics. 2013 Dec 22. pii: S0888-7543(13)00228-0. doi: 10.1016/j.ygeno.2013.12.003. [Epub ahead of print]

Olsen JS, Scholz H, Fillo S, Ramisse V, Lista F, Trømborg AK, Aarskaug T, Thrane I, Blatny JM. Analysis of the genetic distribution among members of *Clostridium botulinum* group I using a novel multilocus sequence typing (MLST) assay. J Microbiol Methods. 2014 Jan; 96:84-91.

## ***Cryptosporidium***

Dash M, Padhi S, Panda P, Parida B. Intestinal protozoans in adults with diarrhea. *N Am J Med Sci.* 2013 Dec;5(12):707-12.

Engsbro AL, Stensvold CR, Nielsen HV, Bytzer P. Prevalence, incidence, and risk factors of intestinal parasites in Danish primary care patients with irritable bowel syndrome. *Scand J Infect Dis.* 2013 Dec 17. [Epub ahead of print.]

Feng Y, Tiao N, Li N, Hlavsa M, Xiao L. Multilocus Sequence Typing of an Emerging *Cryptosporidium hominis* Subtype in the United States. *J Clin Microbiol.* 2013 Dec 4. [Epub ahead of print.]

Halstead FD, Lee AV, Couto-Parada X, Polley SD, Ling C, Jenkins C, Chalmers RM, Elwin K, Gray JJ, Iturriza-Gómara M, Wain J, Clark DA, Bolton FJ, Manuel RJ; Olympics GI Group. Universal extraction method for gastrointestinal pathogens. *J Med Microbiol.* 2013 Oct;62(Pt 10):1535-9.

Manser M, Granlund M, Edwards H, Saez A, Petersen E, Evengard B, Chiodini P; European Society of Clinical Microbiology and Infectious Diseases Study Group on Clinical Parasitology. Detection of *Cryptosporidium* and *Giardia* in clinical laboratories in Europe—a comparative study. *Clin Microbiol Infect.* 2014 Jan;20(1):O65-71.

McLaughlin SJ, Kalita PK, Kuhlenschmidt MS. Fate of *Cryptosporidium parvum* oocysts within soil, water, and plant environment. *J Environ Manage.* 2013 Dec 15;131:121-8.

Souza DS, Piazza RS, Pilotto MR, do Nascimento Mde A, Moresco V, Taniguchi S, Leal DA, Schmidt Éd, Cargin-Ferreira E, Bicego MC, Sasaki ST, Montone RC, de Araujo RA, Franco RM, Bouzon ZL, Bairy AC, Barardi CR. Virus, protozoa and organic compounds decay in depurated oysters. *Int J Food Microbiol.* 2013 Nov 1;167(3):337-45.

Šlapeta J. Cryptosporidiosis and *Cryptosporidium* species in animals and humans: a thirty colour rainbow? *Int J Parasitol.* 2013 Nov;43(12-13):957-70.

## ***E.coli***

Al-Nabulsi AA, Osaili TM, Obaidat HM, Shaker RR, Awaisheh SS, Holley RA. Inactivation of Stressed *Escherichia coli* O157:H7 Cells on the Surfaces of Rocket Salad Leaves by Chlorine and Peroxyacetic Acid. *J Food Prot.* 2014 Jan;77(1):32-9.

Allen KJ, Laing CR, Cancarevic A, Zhang Y, Mesak LR, Xu H, Paccagnella A, Gannon VP, Hoang L. Characteristics of clinical Shiga toxin-producing *Escherichia coli* isolated from British Columbia. *Biomed Res Int*. 2013;2013:878956. doi: 10.1155/2013/878956. Epub 2013

Aperce CC, Alvarado CA, Miller KA, Van Bibber-Krueger CL, Drouillard JS. Transit effects on fecal *Escherichia coli* O157 prevalence and coliform concentrations in feedlot cattle. *J Anim Sci*. 2013 Dec 18. [Epub ahead of print]

Bogard AK, Fuller CC, Radke V, Selman CA, Smith KE. Ground beef handling and cooking practices in restaurants in eight States. *J Food Prot*. 2013 Dec;76(12):2132-40.

Buzatu DA, Cooper WM, Summage-West C, Sutherland JB, Williams AJ, Bass DA, Smith LL, Woodruff RS, Christman JM, Reid S, Tucker RK, Haney CJ, Ahmed A, Rafii F, Wilkes JG. Photobleaching with phloxine B sensitizer to reduce food matrix interference for detection of *Escherichia coli* serotype O157:H7 in fresh spinach by flow cytometry. *Food Microbiol*. 2013 Dec;36(2):416-25.

Centers for Disease Control and Prevention (CDC). Notes from the Field: *Escherichia coli* O157:H7 Outbreak Associated with Seasonal Consumption of Raw Ground Beef - Wisconsin, December 2012-January 2013. *MMWR Morb Mortal Wkly Rep*. 2013 Dec 6;62(48):987.

Centers for Disease Control and Prevention (CDC). Outbreak of *Escherichia coli* O104:H4 Infections Associated with Sprout Consumption - Europe and North America, May-July 2011. *MMWR Morb Mortal Wkly Rep*. 2013 Dec 20;62(50):1029-31.

Chancey CC, Brooks JC, Martin JN, Echeverry A, Jackson SP, Thompson LD, Brashears MM. Survivability of *Escherichia coli* O157:H7 in mechanically tenderized beef steaks subjected to lactic acid application and cooking under simulated industry conditions. *J Food Prot*. 2013 Oct;76(10):1778-83.

Chen S, Sanderson MW, White BJ, Amrine DE, Lanzas C. Temporal-spatial heterogeneity in animal-environment contact: Implications for the exposure and transmission of pathogens. *Sci Rep*. 2013 Nov 1;3: 3112.

Cimolai N. The Canadian contribution to the science of verotoxigenic *Escherichia coli* and associated illnesses: the early years. *Can J Microbiol*. 2013 Nov;59(11):709-15.

Cody SH. Editorial Commentary: rapid detection and investigation of an outbreak of *Escherichia coli* O157:H7 infections: shoe-leather epidemiology on and around the strawberry farm. *Clin Infect Dis*. 2013 Oct;57(8):1135-7.

Davidson GR, Buchholz AL, Ryser ET. Efficacy of commercial produce sanitizers against nontoxigenic *Escherichia coli* O157:H7 during processing of iceberg lettuce in a pilot-scale leafy green processing line. *J Food Prot.* 2013 Nov;76(11):1838-45.

Devakumar D, Kitching A, Zenner D, Tostmann A, Meltzer M. Tracking sickness through social networks - the practical use of social network mapping in supporting the management of an *E. coli* O157 outbreak in a primary school in London. *Epidemiol Infect.* 2013 Oct;141(10):2022-30.

Feng PC, Reddy S. Prevalences of Shiga toxin subtypes and selected other virulence factors among Shiga-toxigenic *Escherichia coli* strains isolated from fresh produce. *Appl Environ Microbiol.* 2013 Nov;79(22):6917-23.

Forghani F, Oh DH. Hurdle enhancement of slightly acidic electrolyzed water antimicrobial efficacy on Chinese cabbage, lettuce, sesame leaf and spinach using ultrasonication and water wash. *Food Microbiol.* 2013 Oct;36(1):40-5.

Hudson J, Billington C, Wilson T, On S. Effect of phage and host concentration on the inactivation of *Escherichia coli* O157:H7 on cooked and raw beef. *Food Sci Technol Int.* 2013 Nov 27. [Epub ahead of print] PubMed PMID: 24285831.

Hudson JA, Billington C, Cornelius AJ, Wilson T, On SL, Premaratne A, King NJ. Use of a bacteriophage to inactivate *Escherichia coli* O157:H7 on beef. *Food Microbiol.* 2013 Oct;36(1):14-21.

Ibarra C, Amaral MM, Palermo MS. Advances in pathogenesis and therapy of hemolytic uremic syndrome caused by Shiga toxin-2. *IUBMB Life.* 2013 Oct;65(10):827-35.

Jaros P, Cookson AL, Campbell DM, Besser TE, Shringi S, Mackereth GF, Lim E, Lopez L, Dufour M, Marshall JC, Baker MG, Hathaway S, Prattley DJ, French NP. A prospective case-control and molecular epidemiological study of human cases of Shiga toxin-producing *Escherichia coli* in New Zealand. *BMC Infect Dis.* 2013 Sep 30;13: 450.

Keithlin J, Sargeant J, Thomas MK, Fazil A. Chronic Sequelae of *E. coli* O157: Systematic Review and Meta-analysis of the Proportion of *E. coli* O157 Cases That Develop Chronic Sequelae. *Foodborne Pathog Dis.* 2013 Nov 27. [Epub ahead of print]

Laidler MR, Tourdjman M, Buser GL, Hostetler T, Repp KK, Leman R, Samadpour M, Keene WE. *Escherichia coli* O157:H7 infections associated with consumption of



locally grown strawberries contaminated by deer. Clin Infect Dis. 2013 Oct;57(8):1129-34.

Launders N, Byrne L, Adams N, Glen K, Jenkins C, Tubin-Delic D, Locking M, Williams C, Morgan D; Outbreak Control Team. Outbreak of Shiga toxin-producing *E. coli* O157 associated with consumption of watercress, United Kingdom, August to September 2013. Euro Surveill. 2013 Oct 31;18(44). pii: 20624.

Lenahan M, Sheridan A, Morris D, Duffy G, Fanning S, Burgess CM. Transcriptomic Analysis of Triclosan-Susceptible and -Tolerant *Escherichia coli* O157:H19 in Response to Triclosan Exposure. Microb Drug Resist. 2013 Oct 18. [Epub ahead of print] PubMed PMID: 24138539.

Luna-Gierke RE, Griffin PM, Gould LH, Herman K, Bopp CA, Strockbine N, Mody RK. Outbreaks of non-O157 Shiga toxin-producing *Escherichia coli* infection: USA. Epidemiol Infect. 2014 Jan 7:1-11. [Epub ahead of print] PubMed PMID: 24398154.

Macarisin D, Patel J, Bauchan G, Giron JA, Ravishankar S. Effect of spinach cultivar and bacterial adherence factors on survival of *Escherichia coli* O157:H7 on spinach leaves. J Food Prot. 2013 Nov;76(11):1829-37.

Markland SM, Shortlidge KL, Hoover DG, Yaron S, Patel J, Singh A, Sharma M, Kniel KE. Survival of pathogenic *Escherichia coli* on basil, lettuce, and spinach. Zoonoses Public Health. 2013 Dec;60(8):563-71.

Matthews L, Reeve R, Gally DL, Low JC, Woolhouse ME, McAteer SP, Locking ME, Chase-Topping ME, Haydon DT, Allison LJ, Hanson MF, Gunn GJ, Reid SW. Predicting the public health benefit of vaccinating cattle against *Escherichia coli* O157. Proc Natl Acad Sci U S A. 2013 Oct 1;110(40):16265-70.

Matulkova P, Gobin M, Taylor J, Oshin F, O'Connor K, Oliver I. Crab meat: a novel vehicle for *E. coli* O157 identified in an outbreak in South West England, August 2011. Epidemiol Infect. 2013 Oct;141(10):2043-50.

Miko A, Delannoy S, Fach P, Strockbine NA, Lindstedt BA, Mariani-Kurkdjian P, Reetz J, Beutin L. Genotypes and virulence characteristics of Shiga toxin-producing *Escherichia coli* O104 strains from different origins and sources. Int J Med Microbiol. 2013 Dec;303(8):410-21.

Momtaz H, Safarpour Dehkordi F, Rahimi E, Ezadi H, Arab R. Incidence of Shiga toxin-producing *Escherichia coli* serogroups in ruminant's meat. Meat Sci. 2013 Oct;95(2):381-8.

Monath TP. Vaccines against diseases transmitted from animals to humans: a one health paradigm. *Vaccine*. 2013 Nov 4;31(46):5321-38.

Perry N, Cheasty T, Dallman T, Launders N, Willshaw G. Application of multilocus variable number tandem repeat analysis to monitor Verocytotoxin-producing *Escherichia coli* O157 phage type 8 in England and Wales: emergence of a profile associated with a national outbreak. *J Appl Microbiol*. 2013 Oct;115(4):1052-8.

Preußel K, Höhle M, Stark K, Werber D. Shiga Toxin-Producing *Escherichia coli* O157 Is More Likely to Lead to Hospitalization and Death than Non-O157 Serogroups - Except O104. *PLoS One*. 2013 Nov 14;8(11):e78180.

Robbins A, Anand M, Nicholas DC, Egan JS, Musser KA, Giguere S, Prince H, Beaufait HE, Sears SD, Borda J, Dietz D, Collaro T, Evans P, Seys SA, Kissler BW. Ground Beef Recall Associated with Non-O157 Shiga Toxin-producing *Escherichia coli*, United States. *Emerg Infect Dis*. 2014 Jan;20(1):165-7.

Sakkejha H, Byrne L, Lawson AJ, Jenkins C. An update on the microbiology and epidemiology of enteropathogenic *Escherichia coli* in England 2010-2012. *J Med Microbiol*. 2013 Oct;62(Pt 10):1531-4.

Sanjar F, Hazen TH, Shah SM, Koenig SS, Agrawal S, Daugherty S, Sadzewicz L, Tallon LJ, Mammel MK, Feng P, Soderlund R, Tarr PI, Debroy C, Dudley EG, Cebula TA, Ravel J, Fraser CM, Rasko DA, Eppinger M. Genome Sequence of *Escherichia coli* O157:H7 Strain 2886-75, Associated with the First Reported Case of Human Infection in the United States. *Genome Announc*. 2014 Jan 9;2(1). pii: e01120-13.

37: Smith JL, Fratamico PM, Gunther NW 4th. Shiga Toxin-Producing *Escherichia coli*. *Adv Appl Microbiol*. 2014;86:145-97. doi: 10.1016/B978-0-12-800262-9.00003-2. PubMed PMID: 24377855.

Swirski AL, Pearl DL, Williams ML, Homan HJ, Linz GM, Cernicchiaro N, Lejeune JT. Spatial Epidemiology of *Escherichia coli* O157:H7 in Dairy Cattle in Relation to Night Roosts Of *Sturnus vulgaris* (European Starling) in Ohio, USA (2007-2009). *Zoonoses Public Health*. 2013 Nov 27. doi: 10.1111/zph.12092. [Epub ahead of print]

Trevisani M, Mancusi R, Valero A. Thermal inactivation kinetics of Shiga toxin-producing *Escherichia coli* in buffalo Mozzarella curd. *J Dairy Sci*. 2013 Dec 13. pii: S0022-0302(13)00836-9. doi: 10.3168/jds.2013-7150. [Epub ahead of print]

Tseng M, Fratamico PM, Manning SD, Funk JA. Shiga toxin-producing *Escherichia coli* in swine: the public health perspective. *Anim Health Res Rev*. 2014 Jan 8:1-13. [Epub ahead of print]

Verstraete K, DE Reu K, VAN Weyenberg S, Piérard D, DE Zutter L, Herman L, Robyn J, Heyndrickx M. Genetic characteristics of Shiga toxin-producing *E. coli* O157, O26, O103, O111 and O145 isolates from humans, food, and cattle in Belgium. *Epidemiol Infect.* 2013 Dec;141(12):2503-15.

Wang H, Zhang T, Wei G, Wu L, Wu J, Xu J. Survival of *Escherichia coli* O157:H7 in soils under different land use types. *Environ Sci Pollut Res Int.* 2014 Jan;21(1):518-24.

Yao Z, Wang H, Wu L, Wu J, Brookes PC, Xu J. Interaction between the Microbial Community and Invading *Escherichia coli* O157:H7 in Soils from Vegetable Fields. *Appl Environ Microbiol.* 2014 Jan;80(1):70-6.

Yoon Y, Geornaras I, Mukherjee A, Belk KE, Scanga JA, Smith GC, Sofos JN. Effects of cooking methods and chemical tenderizers on survival of *Escherichia coli* O157:H7 in ground beef patties. *Meat Sci.* 2013 Oct;95(2):317-22.

### **Hepatitis E**

Andraud M, Dumarest M, Cariolet R, Aylaj B, Barnaud E, Eono F, Pavo N, Rose N. Direct contact and environmental contaminations are responsible for HEV transmission in pigs. *Vet Res.* 2013 Oct 28;44(1):102. [Epub ahead of print]

Arends JE, Ghisetti V, Irving W, Dalton HR, Izopet J, Hoepelman AI, Salmon D. Hepatitis E: An emerging infection in high income countries. *J Clin Virol.* 2013 Dec 11. pii: S1386-6532(13)00509-X. doi: 10.1016/j.jcv.2013.11.013. [Epub ahead of print]

Chaussade H, Rigaud E, Allix A, Carpentier A, Touzé A, Delzescaux D, Choutet P, Garcia-Bonnet N, Coursaget P. Hepatitis E virus seroprevalence and risk factors for individuals in working contact with animals. *J Clin Virol.* 2013 Nov;58(3):504-8.

Choi JY, Lee JM, Jo YW, Min HJ, Kim HJ, Jung WT, Lee OJ, Yun H, Yoon YS. Genotype-4 hepatitis E in a human after ingesting roe deer meat in South Korea. *Clin Mol Hepatol.* 2013 Sep;19(3):309-14.

Dalton HR, Hunter JG, Bendall RP. Hepatitis E. *Curr Opin Infect Dis.* 2013 Oct; 26(5):471-8.

García M, Fernández-Barredo S, Pérez-Gracia MT. Detection of hepatitis E virus (HEV) through the different stages of pig manure composting plants. *Microb Biotechnol.* 2014 Jan;7(1):26-31.

Ijaz S, Said B, Boxall E, Smit E, Morgan D, Tedder RS. Indigenous Hepatitis E in England and Wales From 2003 to 2012: Evidence of an Emerging Novel Phylotype of Viruses. *J Infect Dis*. 2013 Dec 26. [Epub ahead of print] PubMed PMID: 24273173.

Juhl D, Baylis SA, Blümel J, Görg S, Hennig H. Seroprevalence and incidence of hepatitis E virus infection in German blood donors. *Transfusion*. 2014 Jan;54(1):49-56.

Kamar N, Dalton HR, Abravanel F, Izopet J. Hepatitis e virus infection. *Clin Microbiol Rev*. 2014 Jan;27(1):116-38.

Kamar N, Izopet J. Does chronic hepatitis E virus infection exist in immunocompetent patients? *Hepatology*. 2013 Nov 9. doi: 10.1002/hep.26927. [Epub ahead of print]

Krumbholz A, Joel S, Neubert A, Dremsek P, Dürrwald R, Johne R, Hlinak A, Walther M, Lange J, Wutzler P, Sauerbrei A, Ulrich RG, Zell R. Age-related and regional differences in the prevalence of hepatitis E virus-specific antibodies in pigs in Germany. *Vet Microbiol*. 2013 Dec 27;167(3-4):394-402.

Lhomme S, Dubois M, Abravanel F, Top S, Bertagnoli S, Guerin JL, Izopet J. Risk of zoonotic transmission of HEV from rabbits. *J Clin Virol*. 2013 Oct;58(2):357-62.

Machnowska P, Ellerbroek L, Johne R. Detection and characterization of potentially zoonotic viruses in faeces of pigs at slaughter in Germany. *Vet Microbiol*. 2014 Jan 10;168(1):60-8.

Ramalingam S, Smith D, Wellington L, Vanek J, Simmonds P, Macgilchrist A, Bathgate A, Simpson K, Johannessen I. Autochthonous hepatitis E in Scotland. *J Clin Virol*. 2013 Dec;58(4):619-23.

Ruggeri FM, Di Bartolo I, Ponterio E, Angeloni G, Trevisani M, Ostanello F. Zoonotic transmission of hepatitis E virus in industrialized countries. *New Microbiol*. 2013 Oct;36(4):331-44.

Walachowski S, Dorenlor V, Lefevre J, Lunazzi A, Eono F, Merbah T, Eveno E, Pavio N, Rose N. Risk factors associated with the presence of hepatitis E virus in livers and seroprevalence in slaughter-age pigs: a retrospective study of 90 swine farms in France. *Epidemiol Infect*. 2013 Nov 28:1-11. [Epub ahead of print]

## ***Listeria monocytogenes***

Almeida G, Magalhães R, Carneiro L, Santos I, Silva J, Ferreira V, Hogg T, Teixeira P. Foci of contamination of *Listeria monocytogenes* in different cheese processing plants. *Int J Food Microbiol.* 2013 Nov 1;167(3):303-9. doi: 10.1016/j.ijfoodmicro.2013.09.006. Epub 2013 Sep 21. PubMed PMID: 24184608.

Bae D, Seo KS, Zhang T, Wang C. Characterization of a potential *Listeria monocytogenes* virulence factor associated with attachment to fresh produce. *Appl Environ Microbiol.* 2013 Nov;79(22):6855-61.

Biondi E, Evans R, Mischler M, Bendel-Stenzel M, Horstmann S, Lee V, Aldag J, Gigliotti F. Epidemiology of bacteremia in febrile infants in the United States. *Pediatrics.* 2013 Dec;132(6):990-6.

Cantinelli T, Chenal-Francisque V, Diancourt L, Frezal L, Leclercq A, Wirth T, Lecuit M, Brisse S. "Epidemic clones" of *Listeria monocytogenes* are widespread and ancient clonal groups. *J Clin Microbiol.* 2013 Nov;51(11):3770-9.

Chibeu A, Agius L, Gao A, Sabour PM, Kropinski AM, Balamurugan S. Efficacy of bacteriophage LISTEX™P100 combined with chemical antimicrobials in reducing *Listeria monocytogenes* in cooked turkey and roast beef. *Int J Food Microbiol.* 2013 Oct 15;167(2):208-14.

Committee on Infectious Diseases, Committee on Nutrition. Consumption of raw or unpasteurized milk and milk products by pregnant women and children. *Pediatrics.* 2014 Jan;133(1):175-9.

Crespo R, Garner MM, Hopkins SG, Shah DH. Outbreak of *Listeria monocytogenes* in an urban poultry flock. *BMC Vet Res.* 2013 Oct 11; 9: 204.

Cruz CD, Pitman AR, Harrow SA, Fletcher GC. *Listeria monocytogenes* associated with New Zealand seafood production and clinical cases: Unique sequence types, truncated InIA and attenuated invasiveness. *Appl Environ Microbiol.* 2013 Dec 20. [Epub ahead of print] PubMed PMID: 24362419.

Dalmasso M, Jordan K. Absence of growth of *Listeria monocytogenes* in naturally contaminated Cheddar cheese. *J Dairy Res.* 2013 Dec 17:1-8. [Epub ahead of print]

Disson O, Lecuit M. In vitro and in vivo models to study human listeriosis: mind the gap. *Microbes Infect.* 2013 Dec;15(14-15): 971-80.

Ferreira V, Wiedmann M, Teixeira P, Stasiewicz MJ. *Listeria monocytogenes* Persistence in Food-Associated Environments: Epidemiology, Strain Characteristics, and Implications for Public Health. *J Food Prot.* 2014 Jan;77(1):150-70.

Félix B, Niskanen T, Vingadassalon N, Dao TT, Asséré A, Lombard B, Brisabois A, Roussel S. Pulsed-field gel electrophoresis proficiency testing trials: toward European harmonization of the typing of food and clinical strains of *Listeria monocytogenes*. *Foodborne Pathog Dis.* 2013 Oct;10(10):873-81.

Gaulin C, Gravel G, Bekal S, Currie A, Ramsay D, Roy S. Challenges in listeriosis cluster and outbreak investigations, province of quebec, 1997-2011. *Foodborne Pathog Dis.* 2014 Jan;11(1):1-7.

Godshall CE, Suh G, Lorber B. Cutaneous listeriosis. *J Clin Microbiol.* 2013 Nov;51(11):3591-6.

González D, Vitas AI, Díez-Leturia M, García-Jalón I. *Listeria monocytogenes* and ready-to-eat seafood in Spain: study of prevalence and temperatures at retail. *Food Microbiol.* 2013 Dec;36(2):374-8.

Haase JK, Didelot X, Lecuit M, Korkeala H; *L. monocytogenes* MLST Study Group, Achtman M. The ubiquitous nature of *Listeria monocytogenes* clones: a large-scale Multilocus Sequence Typing study. *Environ Microbiol.* 2013 Nov 26. doi: 10.1111/1462-2920.12342. [Epub ahead of print]

Hingston PA, Stea EC, Knøchel S, Hansen T. Role of initial contamination levels, biofilm maturity and presence of salt and fat on desiccation survival of *Listeria monocytogenes* on stainless steel surfaces. *Food Microbiol.* 2013 Oct;36(1):46-56.

Hystead E, Diez-Gonzalez F, Schoenfuss TC. The effect of sodium reduction with and without potassium chloride on the survival of *Listeria monocytogenes* in Cheddar cheese. *J Dairy Sci.* 2013 Oct;96(10):6172-85.

Jamali H, Radmehr B. Frequency, virulence genes and antimicrobial resistance of *Listeria* spp. isolated from bovine clinical mastitis. *Vet J.* 2013 Nov;198(2):541-2.

Lahou E, Uyttendaele M. Evaluation of Three Swabbing Devices for Detection of *Listeria monocytogenes* on Different Types of Food Contact Surfaces. *Int J Environ Res Public Health.* 2014 Jan 8;11(1):804-14.

Lamden KH, Fox AJ, Amar CF, Little CL. A case of foodborne listeriosis linked to a contaminated food-production process. *J Med Microbiol.* 2013 Oct;62(Pt 10):1614-6.

Lee S, Lee H, Lee JY, Skandamis P, Park BY, Oh MH, Yoon Y. Mathematical models to predict kinetic behavior and growth probabilities of *Listeria monocytogenes* on pork skin at constant and dynamic temperatures. *J Food Prot.* 2013 Nov;76(11):1868-72.

Locatelli A, Spor A, Jolivet C, Piveteau P, Hartmann A. Biotic and abiotic soil properties influence survival of *Listeria monocytogenes* in soil. *PLoS One.* 2013 Oct 7;8(10):e75969. doi: 10.1371/journal.pone.0075969.

Lunestad BT, Truong TT, Lindstedt BA. A multiple-locus variable-number tandem repeat analysis (MLVA) of *Listeria monocytogenes* isolated from Norwegian salmon-processing factories and from listeriosis patients. *Epidemiol Infect.* 2013 Oct; 141(10):2101-10.

McKenzie K, Maclean M, Timoshkin IV, Macgregor SJ, Anderson JG. Enhanced inactivation of *Escherichia coli* and *Listeria monocytogenes* by exposure to 405nm

light under sub-lethal temperature, salt and acid stress conditions. *Int J Food Microbiol.* 2014 Jan 17;170: 91-8.

Schoder D, Stessl B, Szakmary-Brändle K, Rossmann P, Wagner M. Population diversity of *Listeria monocytogenes* in quargel (acid curd cheese) lots recalled during the multinational listeriosis outbreak 2009/2010. *Food Microbiol.* 2014 May;39:68-73.

Schoder D, Skandamis P, Wagner M. Assessing in-house monitoring efficiency by tracing contamination rates in cheese lots recalled during an outbreak of listeriosis in Austria. *Int J Food Microbiol.* 2013 Nov 1;167(3):353-8.

Shen Q, Soni KA, Nannapaneni R. Influence of Temperature on Acid-Stress Adaptation in *Listeria monocytogenes*. *Foodborne Pathog Dis.* 2014 Jan;11(1):43-9.

Stessl B, Fricker M, Fox E, Karpiskova R, Demnerova K, Jordan K, Ehling-Schulz M, Wagner M. Collaborative Survey on the Colonization of Different Types of Cheese-Processing Facilities with *Listeria monocytogenes*. *Foodborne Pathog Dis.* 2014 Jan;11(1):8-14.

Vivant AL, Garmyn D, Piveteau P. *Listeria monocytogenes*, a down-to-earth pathogen. *Front Cell Infect Microbiol.* 2013 Nov 28;3:87. Review.

Vrbić M, Dinić M, Jovanović M, Ranković A, Popović-Dragonjić L, Djordjević-Spasić M. *Listeria monocytogenes* meningitis in an immunocompetent 18-year-old patient as a possible diagnostic and therapeutical problem. *Vojnosanit Pregl.* 2013 Oct;70(10):976-8.

## **Norovirus**

Ahmed SM, Lopman BA, Levy K. A systematic review and meta-analysis of the global seasonality of norovirus. *PLoS One.* 2013 Oct 2;8(10):e75922.

Ajami NJ, Kavanagh OV, Ramani S, Crawford SE, Atmar RL, Jiang ZD, Okhuysen PC, Estes MK, Dupont HL. Seroepidemiology of norovirus-associated travelers' diarrhea. *J Travel Med.* 2014 Jan;21(1):6-11.

Atmar RL, Opekun AR, Gilger MA, Estes MK, Crawford SE, Neill FH, Ramani S, Hill H, Ferreira J, Graham DY. Determination of the 50% Human Infectious Dose for Norwalk Virus. *J Infect Dis.* 2013 Dec 13. [Epub ahead of print]

Barker SF. Risk of Norovirus Gastroenteritis from Consumption of Vegetables Irrigated with Highly Treated Municipal Wastewater-Evaluation of Methods to Estimate Sewage Quality. *Risk Anal.* 2013 Nov 28. doi: 10.1111/risa.12138. [Epub ahead of print]

Bernard H, Höhne M, Niendorf S, Altmann D, Stark K. Epidemiology of norovirus gastroenteritis in Germany 2001-2009: eight seasons of routine surveillance. *Epidemiol Infect.* 2014 Jan;142(1):63-74.

Choi WS, Rodríguez RA, Sobsey MD. Persistence of viral genomes after autoclaving. *J Virol Methods.* 2013 Dec 31. pii: S0166-0934(13)00523-5. doi: 10.1016/j.jviromet.2013.12.021. [Epub ahead of print]

Coudray C, Merle G, Martin-Latil S, Guillier L, Perelle S. Comparison of two extraction methods for the detection of hepatitis A virus in lettuces using the murine norovirus as a process control. *J Virol Methods.* 2013 Oct;193(1):96-102.

El-Senousy WM, Costafreda MI, Pintó RM, Bosch A. Method validation for norovirus detection in naturally contaminated irrigation water and fresh produce. *Int J Food Microbiol.* 2013 Oct 1;167(1):74-9.

Harris JP, Adams NL, Lopman BA, Allen DJ, Adak GK. The development of web-based surveillance provides new insights into the burden of norovirus outbreaks in hospitals in England. *Epidemiol Infect.* 2013 Nov 14:1-9. [Epub ahead of print]

Hata A, Katayama H, Kojima K, Sano S, Kasuga I, Kitajima M, Furumai H. Effects of rainfall events on the occurrence and detection efficiency of viruses in river water impacted by combined sewer overflows. *Sci Total Environ.* 2014 Jan 15;468-469:757-63.

Head MG, Fitchett JR, Atun R. Systematic analysis of funding awarded for norovirus research to institutions in the United Kingdom, 1997-2010. *J R Soc Med.* 2013 Nov 21. [Epub ahead of print]

Kundig F, Chevalley P, Genné D. [Norovirus gastroenteritis: frequent, often epidemic, with potentially severe complications]. *Rev Med Suisse.* 2013 Oct 9;9(401):1806-8, 1810-1. Review. French.

Lee BE, Pang XL. New strains of norovirus and the mystery of viral gastroenteritis epidemics. *CMAJ.* 2013 Nov 5;185(16):1381-2.

Liu P, Escudero B, Jaykus LA, Montes J, Goulter RM, Lichtenstein M, Fernandez M, Lee JC, De Nardo E, Kirby A, Arbogast JW, Moe CL. Laboratory evidence of norwalk virus contamination on the hands of infected individuals. *Appl Environ Microbiol.* 2013 Dec;79(24):7875-81.

Lopman B, Simmons K, Gambhir M, Vinjé J, Parashar U. Epidemiologic Implications of Asymptomatic Reinfection: A Mathematical Modeling Study of Norovirus. *Am J Epidemiol.* 2013 Dec 3. [Epub ahead of print]



Lopman B, Kang G. In Praise of Birth Cohorts: Norovirus Infection, Disease, and Immunity. *Clin Infect Dis*. 2013 Dec 23. [Epub ahead of print]

Machnowska P, Ellerbroek L, Johne R. Detection and characterization of potentially zoonotic viruses in faeces of pigs at slaughter in Germany. *Vet Microbiol*. 2014 Jan 10;168(1):60-8.

Manso CF, Torres E, Bou G, Romalde JL. Role of norovirus in acute gastroenteritis in the Northwest of Spain during 2010-2011. *J Med Virol*. 2013 Nov;85(11):2009-15.

Maunula L, Kaupke A, Vasickova P, Söderberg K, Kozyra I, Lazic S, van der Poel WH, Bouwknegt M, Rutjes S, Willems KA, Moloney R, D'Agostino M, de Roda Husman AM, von Bonsdorff CH, Rzeżutka A, Pavlik I, Petrovic T, Cook N. Tracing enteric viruses in the European berry fruit supply chain. *Int J Food Microbiol*. 2013 Oct 15;167(2):177-85.

Rajko-Nenow P, Keaveney S, Flannery J, McIntyre A, Doré W. Norovirus genotypes implicated in two oyster-related illness outbreaks in Ireland. *Epidemiol Infect*. 2013 Dec 5:1-9. [Epub ahead of print]

Rodriguez-Manzano J, Hundesa A, Calgua B, Carratala A, Maluquer de Motes C, Rusiñol M, Moresco V, Ramos AP, Martínez-Marca F, Calvo M, Monte Barardi CR, Girones R, Bofill-Mas S. Adenovirus and Norovirus Contaminants in Commercially Distributed Shellfish. *Food Environ Virol*. 2013 Nov 29. [Epub ahead of print]

Shearer AE, Hoover DG, Kniel KE. Effect of bacterial cell-free supernatants on infectivity of norovirus surrogates. *J Food Prot*. 2014 Jan;77(1):145-9.

Thorne LG, Goodfellow IG. Norovirus gene expression and replication. *J Gen Virol*. 2013 Nov 16. doi: 10.1099/vir.0.059634-0. [Epub ahead of print]

Tuladhar E, Hazeleger WC, Koopmans M, Zwietering MH, Duizer E, Beumer RR. Transfer of noroviruses between fingers and fomites and food products. *Int J Food Microbiol*. 2013 Nov 1;167(3):346-52.

Vega E, Barclay L, Gregoricus N, Shirley SH, Lee D, Vinjé J. Genotypic and epidemiologic trends of norovirus outbreaks in the United States, 2009 to 2013. *J Clin Microbiol*. 2014 Jan;52(1):147-55.

Wang D, Tian P. Inactivation conditions for human norovirus measured by an in situ capture-qRT-PCR method. *Int J Food Microbiol*. 2013 Dec 4;172C:76-82.

## **Salmonella**

Aboutaleb N, Kuijper EJ, van Dissel JT. Emerging infectious colitis. *Curr Opin Gastroenterol.* 2014 Jan;30(1):106-15

Ahmed AM, Shimamoto T. Isolation and molecular characterization of *Salmonella enterica*, *Escherichia coli* O157:H7 and *Shigella* spp. from meat and dairy products in Egypt. *Int J Food Microbiol.* 2014 Jan 3;168-169:57-62.

Amado IR, Vázquez JA, Guerra NP, Pastrana L. Thermal resistance of *Salmonella enterica*, *Escherichia coli* and *Staphylococcus aureus* isolated from vegetable feed ingredients. *J Sci Food Agric.* 2013 Dec 26. doi: 10.1002/jsfa.6554. [Epub ahead of print]

Arguello H, Sørensen G, Carvajal A, Baggesen DL, Rubio P, Pedersen K. Prevalence, serotypes and resistance patterns of *Salmonella* in Danish pig production. *Res Vet Sci.* 2013 Oct;95(2): 334-42.

Baker S, Duy PT, Nga TV, Dung TT, Phat VV, Chau TT, Turner AK, Farrar J, Boni MF. Fitness benefits in fluoroquinolone-resistant *Salmonella Typhi* in the absence of antimicrobial pressure. *Elife.* 2013 Dec 10;2:e01229. doi: 10.7554/eLife.01229.

Ban GH, Kang DH. Effects of gamma irradiation for inactivating *Salmonella* Typhimurium in peanut butter product during storage. *Int J Food Microbiol.* 2014 Feb 3;171:48-53.

Birmpa A, Sfika V, Vantarakis A. Ultraviolet light and ultrasound as non-thermal treatments for the inactivation of microorganisms in fresh ready-to-eat foods. *Int J Food Microbiol.* 2013 Oct 1;167(1):96-102.

Burke L, Hopkins KL, Meunier D, de Pinna E, Fitzgerald-Hughes D, Humphreys H, Woodford N. Resistance to third-generation cephalosporins in human non-typhoidal *Salmonella enterica* isolates from England and Wales, 2010-12. *J Antimicrob Chemother.* 2013 Nov 27. [Epub ahead of print]

Bäumler A, Fang FC. Host specificity of bacterial pathogens. *Cold Spring Harb Perspect Med.* 2013 Dec 1;3(12). pii: a010041.

Clemente L, Manageiro V, Ferreira E, Jones-Dias D, Correia I, Themudo P, Albuquerque T, Caniça M. Occurrence of extended-spectrum  $\beta$ -lactamases among isolates of *Salmonella enterica* subsp. *enterica* from food-producing animals and food products, in Portugal. *Int J Food Microbiol.* 2013 Oct 15;167(2):221-8.

Davies RH, Wales AD. *Salmonella* contamination of cereal ingredients for animal feeds. *Vet Microbiol.* 2013 Oct 25;166(3-4):543-9.

Denis M, Houard E, Fablet A, Rouxel S, Salvat G. Distribution of serotypes and genotypes of *Salmonella enterica* species in French pig production. *Vet Rec.* 2013 Oct 19;173(15):370.

Eller C, Leistner R, Guerra B, Fischer J, Wendt C, Rabsch W, Werner G, Pfeifer Y. Emergence of extended-spectrum  $\beta$ -lactamase (ESBL) CTX-M-8 in Germany. *J Antimicrob Chemother.* 2013 Oct 1. [Epub ahead of print]

Erickson MC, Habteselassie MY, Liao J, Webb CC, Mantripragada V, Davey LE, Doyle MP. Examination of factors for use as potential predictors of human enteric pathogen survival in soil. *J Appl Microbiol.* 2013 Oct 25. doi: 10.1111/jam.12373. [Epub ahead of print]

Fischer J, Schmogger S, Jahn S, Helmuth R, Guerra B. NDM-1 carbapenemase-producing *Salmonella enterica* subsp. *enterica* serovar Corvallis isolated from a wild bird in Germany. *J Antimicrob Chemother.* 2013 Dec;68(12):2954-6.

Giacometti F, Bonilauri P, Serraino A, Peli A, Amatiste S, Arrigoni N, Bianchi M, Bilei S, Cascone G, Comin D, Daminelli P, Decastelli L, Fustini M, Mion R, Petruzzelli A, Rosmini R, Rugna G, Tamba M, Tonucci F, Bolzoni G. Four-year monitoring of foodborne pathogens in raw milk sold by vending machines in Italy. *J Food Prot.* 2013 Nov;76(11):1902-7.

Gkogka E, Reij MW, Gorris LG, Zwietering MH. Risk assessment strategies as a tool in the application of the Appropriate Level of Protection (ALOP) and Food Safety Objective (FSO) by risk managers. *Int J Food Microbiol.* 2013 Oct 1;167(1):8-28.

Hao XX, Li BM, Wang CY, Zhang Q, Cao W. Application of slightly acidic electrolyzed water for inactivating microbes in a layer breeding house. *Poult Sci.* 2013 Oct;92(10):2560-6.

Hawkey J, Edwards DJ, Dimovski K, Hiley L, Billman-Jacobe H, Hogg G, Holt KE. Evidence of microevolution of *Salmonella* Typhimurium during a series of egg-associated outbreaks linked to a single chicken farm. *BMC Genomics.* 2013 Nov 19;14(1):800. [Epub ahead of print]

Holvoet K, Sampers I, Seynnaeve M, Uyttendaele M. Relationships among hygiene indicators and enteric pathogens in irrigation water, soil and lettuce and the impact of climatic conditions on contamination in the lettuce primary production. *Int J Food Microbiol.* 2014 Feb 3;171:21-31.

Huang J, Wang M, Ding H, Ye M, Hu F, Guo Q, Xu X, Wang M. New Delhi Metallo- $\beta$ -Lactamase-1 in Carbapenem-Resistant *Salmonella* Strain, China. *Emerg Infect Dis.* 2013 Dec;19(12):2049-51.

Inns T, Beasley G, Lane C, Hopps V, Peters T, Pathak K, Perez-Moreno R, Adak G, Shankar A; Outbreak Control Team. Outbreak of *Salmonella enterica* Goldcoast infection associated with whelk consumption, England, June to October 2013. *Euro Surveill.* 2013 Dec 5;18(49). pii: 20654.

Karki S, Shakya P, Cheng AC, Dumre SP, Leder K. Trends of etiology and drug resistance in enteric fever in the last two decades in Nepal: a systematic review and meta-analysis. *Clin Infect Dis.* 2013 Nov;57(10):e167-76.

Lianou A, Koutsoumanis KP. Strain variability of the behavior of foodborne bacterial pathogens: a review. *Int J Food Microbiol.* 2013 Nov 1;167(3):310-21.

Mangen MJ, Plass D, Havelaar AH, Gibbons CL, Cassini A, Mühlberger N, van Lier A, Haagsma JA, Brooke RJ, Lai T, de Waure C, Kramarz P, Kretzschmar ME; BCoDE consortium. The Pathogen- and Incidence-Based DALY Approach: An Appropriated Methodology for Estimating the Burden of Infectious Diseases. *PLoS One.* 2013 Nov 20;8(11):e79740.

Marvasi M, Hochmuth GJ, Giurcanu MC, George AS, Noel JT, Bartz J, Teplitski M. Factors that affect proliferation of *salmonella* in tomatoes post-harvest: the roles of seasonal effects, irrigation regime, crop and pathogen genotype. *PLoS One.* 2013 Dec 4;8(12):e80871.

Messens W, Vivas-Alegre L, Bashir S, Amore G, Romero-Barrios P, Hugas M. Estimating the public health impact of setting targets at the European level for the reduction of zoonotic *Salmonella* in certain poultry populations. *Int J Environ Res Public Health.* 2013 Oct 11;10(10):4836-50.

Mitka M. FDA questions effectiveness of measures to reduce or prevent illness from eating imported spices. *JAMA.* 2013 Nov 27;310(20):2136.

Nathues C, Grüning P, Fruth A, Verspohl J, Blaha T, Kreienbrock L, Merle R. *Campylobacter* spp., *Yersinia enterocolitica*, and *Salmonella enterica* and their simultaneous occurrence in German fattening pig herds and their environment. *J Food Prot.* 2013 Oct;76(10):1704-11.

Nuding S, Antoni L, Stange EF. The host and the flora. *Dig Dis.* 2013;31(3-4):286-92.

Ongeng D, Geeraerd AH, Springael D, Ryckeboer J, Muyanja C, Mauriello G. Fate of *Escherichia coli* O157:H7 and *Salmonella enterica* in the manure-amended soil-plant ecosystem of fresh vegetable crops: A review. *Crit Rev Microbiol*. 2013 Oct 1. [Epub ahead of print]

Palhares JC, Kich JD, Bessa MC, Biesus LL, Berno LG, Triques NJ. *Salmonella* and antimicrobial resistance in an animal-based agriculture river system. *Sci Total Environ*. 2013 Dec 5;472C:654-661.

Pang S, Octavia S, Feng L, Liu B, Reeves PR, Lan R, Wang L. Genomic diversity and adaptation of *Salmonella enterica* serovar Typhimurium from analysis of six genomes of different phage types. *BMC Genomics*. 2013 Oct 20;14(1):718.

Park SH, Aydin M, Khatiwara A, Dolan MC, Gilmore DF, Bouldin JL, Ahn S, Ricke SC. Current and emerging technologies for rapid detection and characterization of *Salmonella* in poultry and poultry products. *Food Microbiol*. 2014 Apr;38:250-62.

Pasquali F, De Cesare A, Valero A, Olsen JE, Manfreda G. Improvement of sampling plans for *Salmonella* detection in pooled table eggs by use of real-time PCR. *Int J Food Microbiol*. 2013 Dec 10. pii: S0168-1605(13)00572-2. doi: 10.1016/j.ijfoodmicro.2013.12.005. [Epub ahead of print]

Pei Y, Parreira VR, Roland KL, Curtiss R 3rd, Prescott JF. Assessment of attenuated *Salmonella* vaccine strains in controlling experimental *Salmonella* Typhimurium infection in chickens. *Can J Vet Res*. 2014 Jan;78(1):23-30.

Pires AF, Funk JA, Lim A, Bolin SR. Enumeration of *salmonella* in feces of naturally infected pigs. *Foodborne Pathog Dis*. 2013 Nov;10(11):933-7.

Rhoades J, Kargiotou C, Katsanidis E, Koutsoumanis KP. Use of marination for controlling *Salmonella enterica* and *Listeria monocytogenes* in raw beef. *Food Microbiol*. 2013 Dec;36(2):248-53.

Rodríguez E, Bautista A, Barrero L. A first report of the emergence of *Salmonella* Typhimurium with carbapenemase (KPC-2) in Colombia. *Antimicrob Agents Chemother*. 2013 Dec 2. [Epub ahead of print]

Strawn LK, Gröhn YT, Warchocki S, Worobo RW, Bihn EA, Wiedmann M. Risk factors associated with *Salmonella* and *Listeria monocytogenes* contamination of produce fields. *Appl Environ Microbiol*. 2013 Dec;79(24):7618-27.

Sánchez-Romero MA, Casadesús J. Contribution of phenotypic heterogeneity to adaptive antibiotic resistance. *Proc Natl Acad Sci U S A*. 2014 Jan 7;111(1):355-60.

Taneja N, Appannanavar SB, Kumar A, Varma G, Kumar Y, Mohan B, Sharma M. Serotype profile and molecular characterization of antimicrobial resistance in non-typhoidal *Salmonella* isolated from gastroenteritis cases over nine years. *J Med Microbiol.* 2014 Jan;63(Pt 1):66-73.

Tansarli GS, Poulidakos P, Kapaskelis A, Falagas ME. Proportion of extended-spectrum  $\beta$ -lactamase (ESBL)-producing isolates among *Enterobacteriaceae* in Africa: evaluation of the evidence--systematic review. *J Antimicrob Chemother.* 2014 Jan 6. [Epub ahead of print]

Torpdahl M, Nielsen EM, Hansen F, Ethelberg S, Hammerum AM. Detection of extended-spectrum  $\beta$ -lactamases and AmpC  $\beta$ -lactamases in *Salmonella enterica* isolates from patients in Denmark during 2008-2010. *Int J Antimicrob Agents.* 2013 Oct;42(4):371-2.

Van Doren JM, Neil KP, Parish M, Gieraltowski L, Gould LH, Gombas KL. Foodborne illness outbreaks from microbial contaminants in spices, 1973-2010. *Food Microbiol.* 2013 Dec;36(2):456-64.

Van Doren JM, Blodgett RJ, Pouillot R, Westerman A, Kleinmeier D, Ziobro GC, Ma Y, Hammack TS, Gill V, Muckenfuss MF, Fabbri L. Prevalence, level and distribution of *Salmonella* in shipments of imported capsicum and sesame seed spice offered for entry to the United States: observations and modeling results. *Food Microbiol.* 2013 Dec;36(2):149-60.

Waitt JA, Kuhn DD, Welbaum GE, Ponder MA. Post-Harvest Transfer and Survival of *Salmonella enterica* Serotype Enteritidis on Living Lettuce. *Lett Appl Microbiol.* 2013 Oct 3. doi: 10.1111/lam.12170. [Epub ahead of print]

Wei SH, Huang AS, Liao YS, Liu YL, Chiou CS. A Large Outbreak of Salmonellosis Associated with Sandwiches Contaminated with Multiple Bacterial Pathogens Purchased via an Online Shopping Service. *Foodborne Pathog Dis.* 2013 Dec 6. [Epub ahead of print]

Wensley A, Coole L. Cohort study of a dual-pathogen point source outbreak associated with the consumption of chicken liver pate, UK, October 2009. *J Public Health (Oxf).* 2013 Dec;35(4):585-9.

Woodford N, Wareham DW, Guerra B, Teale C. Carbapenemase-producing *Enterobacteriaceae* and non-*Enterobacteriaceae* from animals and the environment: an emerging public health risk of our own making? *J Antimicrob Chemother.* 2013 Oct 3. [Epub ahead of print]

Zenner D, Janmohamed K, Lane C, Little C, Charlett A, Adak GK, Morgan D. The serotype case-case design: a direct comparison of a novel methodology with a case-control study in a national *Salmonella* Enteritidis PT14b outbreak in England and Wales. *Epidemiol Infect.* 2013 Nov;141(11):2346-53.

Zhao EY, Bao HX, Tang L, Zou QH, Liu WQ, Zhu DL, Chin J, Dong YY, Li YG, Cao FL, Poppe C, Sanderson KE, Johnston RN, Zhou D, Liu GR, Liu SL. Genomic comparison of *Salmonella* typhimurium DT104 with non-DT104 strains. *Mol Genet Genomics.* 2013 Nov;288(11):549-57

### ***Staphylococcus aureus***

Bianchi DM, Gallina S, Bellio A, Chiesa F, Civera T, Decastelli L. Enterotoxin gene profiles of *Staphylococcus aureus* isolated from milk and dairy products in Italy. *Lett Appl Microbiol.* 2013 Oct 23. doi: 10.1111/lam.12182. [Epub ahead of print]

Gallina S, Bianchi DM, Bellio A, Nogarol C, Macori G, Zaccaria T, Biorci F, Carraro E, Decastelli L. Staphylococcal poisoning foodborne outbreak: epidemiological investigation and strain genotyping. *J Food Prot.* 2013 Dec;76(12):2093-8.

Omoe K, Hu DL, Ono HK, Shimizu S, Takahashi-Omoe H, Nakane A, Uchiyama T, Shinagawa K, Imanishi K. Emetic potentials of newly identified staphylococcal enterotoxin-like toxins. *Infect Immun.* 2013 Oct;81(10):3627-31

Snyder HL, Niebuhr SE, Dickson JS. Transfer of Methicillin-Resistant *Staphylococcus aureus* from Retail Pork Products onto Food Contact Surfaces and the Potential for Consumer Exposure. *J Food Prot.* 2013 Dec;76(12):2087-92.

### ***Toxoplasma gondii***

Alvarado-Esquivel C, Sánchez-Anguiano LF, Arnaud-Gil CA, López-Longoria JC, Molina-Espinoza LF, Estrada-Martínez S, Liesenfeld O, Hernández-Tinoco J, Sifuentes-Álvarez A, Salas-Martínez C. *Toxoplasma gondii* infection and suicide attempts: a case-control study in psychiatric outpatients. *J Nerv Ment Dis.* 2013 Nov;201(11):948-52.

Beste C, Getzmann S, Gajewski PD, Golka K, Falkenstein M. Latent *Toxoplasma gondii* infection leads to deficits in goal-directed behavior in healthy elderly. *Neurobiol Aging.* 2013 Nov 20. pii: S0197-4580(13)00580-0. [Epub ahead of print]

Chemoh W, Sawangjaroen N, Nissapatorn V, Suwanrath C, Chandeying V, Hortiwakul T, Andiappan H, Sermwittayawong N, Charoenmak B, Siripaitoon P,

Lekkla A, Sukthana Y. *Toxoplasma gondii* infection: What is the real situation? *Exp Parasitol*. 2013 Dec;135(4):685-9.

Contopoulos-Ioannidis DG, Maldonado Y, Montoya JG. Acute *Toxoplasma gondii* Infection among Family Members in the United States. *Emerg Infect Dis*. 2013 Dec;19(12):1981-4.

Gajewski PD, Falkenstein M, Hengstler JG, Golka K. *Toxoplasma gondii* impairs memory in infected seniors. *Brain Behav Immun*. 2013 Dec 7. pii: S0889-1591(13)00578-3. doi: 10.1016/j.bbi.2013.11.019. [Epub ahead of print]

Halsby K, Guy E, Said B, Francis J, O'Connor C, Kirkbride H, Morgan D. Enhanced surveillance for toxoplasmosis in England and Wales, 2008-2012. *Epidemiol Infect*. 2013 Oct 7:1-8. [Epub ahead of print]

Janse JJ, Wong GW, Potts J, Ogorodova LM, Fedorova OS, Mahesh PA, Sakellariou A, Papadopoulos NG, Knulst AC, Versteeg SA, Kroes AC, Vossen AC, Campos Ponce M, Kummeling I, Burney P, van Ree R, Yazdanbakhsh M. Foodborne and orofecal pathogens and allergic sensitization: EuroPrevall-International Cooperation study. *Pediatr Allergy Immunol*. 2013 Dec 10. doi: 10.1111/pai.12175. [Epub ahead of print]

Mosti M, Pinto B, Giromella A, Fabiani S, Cristofani R, Panichi M, Bruschi F. A 4-year evaluation of toxoplasmosis seroprevalence in the general population and in women of reproductive age in central Italy. *Epidemiol Infect*. 2013 Oct;141(10):2192-5.

Neumayerová H, Juránková J, Saláková A, Gallas L, Kovařík K, Koudela B. Survival of experimentally induced *Toxoplasma gondii* tissue cysts in vacuum packed goat meat and dry fermented goat meat sausages. *Food Microbiol*. 2014 May;39:47-52.

Nogareda F, LE Strat Y, Villena I, DE Valk H, Goulet V. Incidence and prevalence of *Toxoplasma gondii* infection in women in France, 1980-2020: model-based estimation. *Epidemiol Infect*. 2013 Nov 14:1-10. [Epub ahead of print]

Palos Ladeiro M, Aubert D, Villena I, Geffard A, Bigot A. Bioaccumulation of human waterborne protozoa by zebra mussel (*Dreissena polymorpha*): Interest for water biomonitoring. *Water Res*. 2014 Jan 1;48:148-55.

Song C, Chiasson MA, Nursimulu N, Hung SS, Wasmuth J, Grigg ME, Parkinson J. Metabolic reconstruction identifies strain-specific regulation of virulence in *Toxoplasma gondii*. *Mol Syst Biol*. 2013 Nov 19;9:708. doi: 10.1038/msb.2013.62.



Thompson RC. Parasites and food: ripe for exploitation. *Trends Parasitol.* 2014 Jan;30(1):1-3. doi: 10.1016/j.pt.2013.09.006.

Thompson RC. Parasite zoonoses and wildlife: One Health, spillover and human activity. *Int J Parasitol.* 2013 Nov;43(12-13):1079-88. doi: 10.1016/j.ijpara.2013.06.007.

Tomita T, Bzik DJ, Ma YF, Fox BA, Markillie LM, Taylor RC, Kim K, Weiss LM. The *Toxoplasma gondii* Cyst Wall Protein CST1 Is Critical for Cyst Wall Integrity and Promotes Bradyzoite Persistence. *PLoS Pathog.* 2013 Dec;9(12):e1003823.

Zhang M, Yang Z, Wang S, Tao L, Xu L, Yan R, Song X, Li X. Detection of *Toxoplasma gondii* in shellfish and fish in parts of China. *Vet Parasitol.* 2013 Nov 19. pii: S0304-4017(13)00584-0. [Epub ahead of print]

**Secretariat**  
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