

ADVISORY COMMITTEE ON THE MICROBIOLOGICAL SAFETY OF FOOD
INFORMATION PAPER

Items of interest from the literature (PubMed 15/10/20 to 06/04/21)

<p><i>Bacillus cereus</i></p> <p>Peer review of the pesticide risk assessment of the active substance <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> strain SA-11. European Food Safety Authority (EFSA), Anastassiadou M, Arena M, Auteri D, Brancato A, Bura L, Carrasco Cabrera L, Chaideftou E, Chiusolo A, Crivellente F, De Lentdecker C, Egsmose M, Fait G, Greco L, Ippolito A, Istace F, Jarrah S, Kardassi D, Leuschner R, Lostia A, Lythgo C, Magrans O, Mangas I, Miron I, Molnar T, Padovani L, Parra Morte JM, Pedersen R, Reich H, Santos M, Sharp R, Szentes C, Terron A, Tiramani M, Vagenende B, Villamar-Bouza L. EFSA J. 2020 Oct 26;18(10):e06261. doi: 10.2903/j.efsa.2020.6261. eCollection 2020 Oct. PMID: 33133271 Free PMC article. Review.</p> <p>Comparison of the antibiotic resistance between genetically diverse and toxigenic <i>Bacillus cereus</i> sensu lato from milk, pepper and natural habitats. Bartoszewicz M, Czyżewska U. J Appl Microbiol. 2021 Feb;130(2):370-381. doi: 10.1111/jam.14792. Epub 2020 Aug 7. PMID: 32692860</p> <p>Characterization of <i>Bacillus cereus</i> Group Isolates From Human Bacteremia by Whole-Genome Sequencing. Bianco A, Capozzi L, Monno MR, Del Sambro L, Manzulli V, Pesole G, Loconsole D, Parisi A. Front Microbiol. 2021 Jan 12;11:599524. doi: 10.3389/fmicb.2020.599524. eCollection 2020. PMID: 33510722 Free PMC article.</p> <p>Comparative phenotypic, genotypic and genomic analyses of <i>Bacillus thuringiensis</i> associated with foodborne outbreaks in France. Bonis M, Felten A, Pairaud S, Dijoux A, Maladen V, Mallet L, Radomski N, Duboisset A, Arar C, Sarda X, Vial G, Mistou MY, Firmesse O, Hennekinne JA, Herbin S. PLoS One. 2021 Feb 19;16(2):e0246885. doi: 10.1371/journal.pone.0246885. eCollection 2021. PMID: 33607651 Free PMC article.</p> <p>Further Insights into the Toxicity of <i>Bacillus cytotoxicus</i> Based on Toxin Gene Profiling and Vero Cell Cytotoxicity Assays. Burtscher J, Etter D, Biggel M, Schlaepfer J, Johler S. Toxins (Basel). 2021 Mar 24;13(4):234. doi: 10.3390/toxins13040234. PMID: 33805220</p> <p>Antimicrobial resistance, virulence characteristics and genotypes of <i>Bacillus</i> spp. from probiotic products of diverse origins. Deng F, Chen Y, Sun T, Wu Y, Su Y, Liu C, Zhou J, Deng Y, Wen J. Food Res Int. 2021 Jan;139:109949. doi: 10.1016/j.foodres.2020.109949. Epub 2020 Dec 7. PMID: 33509502</p> <p>The Food Poisoning Toxins of <i>Bacillus cereus</i>. Dietrich R, Jessberger N, Ehling-Schulz M, Märtlbauer E, Granum PE. Toxins (Basel). 2021 Jan 28;13(2):98. doi: 10.3390/toxins13020098. PMID: 33525722 Free PMC article. Review.</p> <p>Ethanol adaptation in foodborne bacterial pathogens. He S, Fong K, Wang S, Shi X. Crit Rev Food Sci Nutr. 2021;61(5):777-787. doi: 10.1080/10408398.2020.1746628. Epub 2020 Apr 10. PMID: 32274932</p> <p>The <i>Bacillus cereus</i> Food Infection as Multifactorial Process. Jessberger N, Dietrich R, Granum PE, Märtlbauer E. Toxins (Basel). 2020 Nov 5;12(11):701. doi: 10.3390/toxins12110701. PMID: 33167492 Free PMC article. Review.</p>

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Mathot AG, Postollec F, Leguerinel I.
Compr Rev Food Sci Food Saf. 2021 Jan;20(1):840-862. doi: 10.1111/1541-4337.12690. Epub 2020 Dec 15. PMID: 33325134

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Review.

[Enteropathogenic Potential of *Bacillus thuringiensis* Isolates from Soil, Animals, Food and Biopesticides.](#)
Schwenk V, Riegg J, Lacroix M, Märtlbauer E, Jessberger N.
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[The assessment of leading traits in the taxonomy of the *Bacillus cereus* group.](#)
Torres Manno MA, Repizo GD, Magni C, Dunlap CA, Espariz M.
Antonie Van Leeuwenhoek. 2020 Dec;113(12):2223-2242. doi: 10.1007/s10482-020-01494-3.
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Campylobacter

[Management Strategies for Prevention of *Campylobacter* Infections Through the Poultry Food Chain: A European Perspective.](#)
Alter T, Reich F. Curr Top Microbiol Immunol. 2021;431:79-102. doi: 10.1007/978-3-030-65481-8_4. PMID: 33620649

[Contribution of Foods and Poor Food-Handling Practices to the Burden of Foodborne Infectious Diseases in France.](#)
Augustin JC, Kooh P, Bayeux T, Guillier L, Meyer T, Jourdan-Da Silva N, Villena I, Sanaa M, Cerf O, On Behalf Of The Anses Working Group On Consumer Information On Foodborne Biological Risks.
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[Quantification of cross-contamination of *Campylobacter jejuni* during food preparation in a model kitchen in China.](#)
Bai Y, Lin XH, Zhu JH, Cui SH, Guo LX, Yan SF, Wang W, Xu J, Li F. J Food Prot. 2020 Nov 24. doi: 10.4315/JFP-20-280. Online ahead of print. PMID: 33232459

[Update on the campylobacter epidemic from chicken meat in New Zealand: The urgent need for an upgraded regulatory response.](#)
Baker MG, Grout L, Wilson N. Epidemiol Infect. 2020 Dec 15;149:e30.
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[Recency-Weighted Statistical Modeling Approach to Attribute Illnesses Caused by 4 Pathogens to Food Sources Using Outbreak Data, United States.](#)
Batz MB, Richardson LC, Bazaco MC, Parker CC, Chirtel SJ, Cole D, Golden NJ, Griffin PM, Gu W, Schmitt SK, Wolpert BJ, Kufel JSZ, Hoekstra RM.
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[Disinfectant and antimicrobial susceptibility studies of the foodborne pathogen *Campylobacter jejuni* isolated from the litter of broiler chicken houses.](#)
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PMID: 33518061 **Free PMC article.**

[Attribution of Illnesses Transmitted by Food and Water to Comprehensive Transmission Pathways Using Structured Expert Judgment, United States.](#)
Beshearse E, Bruce BB, Nane GF, Cooke RM, Aspinall W, Hald T, Crim SM, Griffin PM, Fullerton KE, Collier SA, Benedict KM, Beach MJ, Hall AJ, Havelaar AH.
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[Cross-contamination events of *Campylobacter* spp. in domestic kitchens associated with consumer handling practices of raw poultry.](#)
Cardoso MJ, Ferreira V, Truninger M, Maia R, Teixeira P.

Int J Food Microbiol. 2021 Jan 2;338:108984. doi: 10.1016/j.ijfoodmicro.2020.108984. Epub 2020 Nov 20. PMID: 33277046

[Current Perspectives and Potential of Probiotics to Limit Foodborne *Campylobacter* in Poultry.](#)
Deng W, Dittoe DK, Pavilidis HO, Chaney WE, Yang Y, Ricke SC.
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[The impact of key processing stages and flock variables on the prevalence and levels of *Campylobacter* on broiler carcasses.](#)
Emanowicz M, Meade J, Bolton D, Golden O, Gutierrez M, Byrne W, Egan J, Lynch H, O'Connor L, Coffey A, Lucey B, Whyte P.
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[Population Biology and Comparative Genomics of *Campylobacter* Species.](#)
Epping L, Antão EM, Semmler T.
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PMID: 33620648 Review.

[Human campylobacteriosis related to cross-contamination during handling of raw chicken meat: Application of quantitative risk assessment to guide intervention scenarios analysis in the Australian context.](#)
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Curr Top Microbiol Immunol. 2021;431:1-23. doi: 10.1007/978-3-030-65481-8_1.
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Hertogs K, Heyndrickx M, Gelaude P, De Zutter L, Dewulf J, Rasschaert G.
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PMID: 33518066 **Free PMC article.**

[Antimicrobial resistance and interspecies gene transfer in *Campylobacter coli* and *Campylobacter jejuni* isolated from food animals, poultry processing, and retail meat in North Carolina, 2018-2019.](#)
Hull DM, Harrell E, van Vliet AHM, Correa M, Thakur S.
PLoS One. 2021 Feb 11;16(2):e0246571. doi: 10.1371/journal.pone.0246571. eCollection 2021.
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Inglis GD, Taboada EN, Boras VF.
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PMID: 32805182

[Diagnostic approach for detection and identification of emerging enteric pathogens revisited: the *\(Ali\)arcobacter lanthieri* case.](#)
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[Review of Quantitative Microbial Risk Assessment in Poultry Meat: The Central Position of Consumer Behavior.](#)
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[Review on Stress Tolerance in *Campylobacter jejuni*.](#)
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[Evaluation of culture-based and molecular detection methods for *Campylobacter* in New Zealand raw cows' milk.](#)

Kingsbury JM, Soboleva TK.

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PMID: 32725959

[Phage Biocontrol of *Campylobacter*: A One Health Approach.](#)

Kittler S, Steffan S, Peh E, Plötz M.

Curr Top Microbiol Immunol. 2021;431:127-168. doi: 10.1007/978-3-030-65481-8_6.PMID:

33620651 Review.

[Attributing Human Foodborne Diseases to Food Sources and Water in Japan Using Analysis of Outbreak Surveillance Data.](#)

Kumagai Y, Pires SM, Kubota K, Asakura H.

J Food Prot. 2020 Dec 1;83(12):2087-2094. doi: 10.4315/JFP-20-151.PMID: 32649749

[Longitudinal Study of the Distribution of Antimicrobial-Resistant *Campylobacter* Isolates from an Integrated Broiler Chicken Operation.](#)

Kwon BR, Wei B, Cha SY, Shang K, Zhang JF, Kang M, Jang HK.

Animals (Basel). 2021 Jan 20;11(2):246. doi: 10.3390/ani11020246.PMID: 33498355 **Free PMC article.**

[Source attributed case-control study of campylobacteriosis in New Zealand.](#)

Lake RJ, Campbell DM, Hathaway SC, Ashmore E, Cressey PJ, Horn BJ, Pirikahu S, Sherwood JM, Baker MG, Shoemack P, Benschop J, Marshall JC, Midwinter AC, Wilkinson DA, French NP.

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PMID: 33221520

[Etiological Agents Implicated in Foodborne Illness World Wide.](#)

Lee H, Yoon Y.

Food Sci Anim Resour. 2021 Jan;41(1):1-7. doi: 10.5851/kosfa.2020.e75. Epub 2021 Jan 1.

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[On farm interventions to minimise *Campylobacter* spp. contamination in chicken.](#)

Lu T, Marmion M, Ferone M, Wall P, Scannell AGM.

Br Poult Sci. 2021 Feb;62(1):53-67. doi: 10.1080/00071668.2020.1813253. Epub 2020 Sep 16.

PMID: 32835499 Review.

[Predicting antimicrobial susceptibility from the bacterial genome: A new paradigm for one health resistance monitoring.](#)

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Møretrø T, Moen B, Almlí VL, Teixeira P, Ferreira VB, Åsli AW, Nilsen C, Langsrud S.

Int J Food Microbiol. 2021 Jan 16;337:108928. doi: 10.1016/j.ijfoodmicro.2020.108928. Epub 2020

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Møretrø T, Nguyen-The C, Didier P, Maître I, Izsó T, Kasza G, Skuland SE, Cardoso MJ, Ferreira VB, Teixeira P, Borda D, Dumitrascu L, Neagu C, Nicolau AI, Anfruns-Estrada E, Foden M, Voysey P, Langsrud S.

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[Sources and transmission routes of campylobacteriosis: A combined analysis of genome and exposure data.](#)

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PMID: 33275955

[Comparison of MiSeq, MinION, and hybrid genome sequencing for analysis of *Campylobacter jejuni*.](#)

Neal-McKinney JM, Liu KC, Lock CM, Wu WH, Hu J.

Sci Rep. 2021 Mar 11;11(1):5676. doi: 10.1038/s41598-021-84956-6. PMID: 33707610 **Free PMC article.**

[Presence and quantification of pathogenic *Arcobacter* and *Campylobacter* species in retail meats available in Japan.](#)

Ohnishi T, Hara-Kudo Y.

Lett Appl Microbiol. 2021 Apr 2. doi: 10.1111/lam.13478. Online ahead of print. PMID: 33797068

[Adaptation of *Campylobacter* field isolates to propionic acid and sorbic acid is associated with fitness costs.](#)

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J Appl Microbiol. 2021 Mar 8. doi: 10.1111/jam.15057. Online ahead of print. PMID: 33683781

[Wildlife as Sentinels of Antimicrobial Resistance in Germany?](#)

Plaza-Rodríguez C, Alt K, Grobbel M, Hammerl JA, Irrgang A, Szabo I, Stingl K, Schuh E, Wiehle L, Pfefferkorn B, Naumann S, Kaesbohrer A, Tenhagen BA.

Front Vet Sci. 2021 Jan 27;7:627821. doi: 10.3389/fvets.2020.627821. eCollection 2020.

PMID: 33585611 **Free PMC article.**

[A Systematic Review of *Campylobacter jejuni* Vaccine Candidates for Chickens.](#)

Pumtang-On P, Mahony TJ, Hill RA, Vanniasinkam T.

Microorganisms. 2021 Feb 15;9(2):397. doi: 10.3390/microorganisms9020397. PMID: 33671947

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[Molecular Mechanisms of *Campylobacter* Biofilm Formation and Quorum Sensing.](#)

Püning C, Su Y, Lu X, Götz G.

Curr Top Microbiol Immunol. 2021;431:293-319. doi: 10.1007/978-3-030-65481-8_11.

PMID: 33620656 Review.

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Ricke SC.

Annu Rev Anim Biosci. 2021 Feb 16;9:379-400. doi: 10.1146/annurev-animal-061220-023200.

Epub 2020 Nov 6. PMID: 33156992

[Prevalence and Genotyping of *Campylobacter jejuni* and *Campylobacter coli* from Ovine Carcasses in New Zealand.](#)

Rivas L, Dupont PY, Gilpin B, Withers H.

J Food Prot. 2021 Jan 1;84(1):14-22. doi: 10.4315/JFP-20-220. PMID: 32766835

[The Data Behind Risk Analysis of *Campylobacter Jejuni* and *Campylobacter Coli* Infections.](#)

Romdhane RB, Merle R.

Curr Top Microbiol Immunol. 2021;431:25-58. doi: 10.1007/978-3-030-65481-8_2.

PMID: 33620647 Review.

[*Campylobacter* Contamination of UK-Produced Halal Chicken at Retail.](#)

Royden A, Christley R, Jones T, Williams A, Awad F, Haldenby S, Wigley P, Rushton S, Williams NJ.

J Food Prot. 2021 Mar 5. doi: 10.4315/JFP-20-428. Online ahead of print. PMID: 33666665

[Epidemiological trends of foodborne *Campylobacter* outbreaks in the United States of America, 1998-2016.](#)

Sher AA, Ashraf MA, Mustafa BE, Raza MM.

Food Microbiol. 2021 Aug;97:103751. doi: 10.1016/j.fm.2021.103751. Epub 2021 Jan 29.

PMID: 33653524

[Seasonal synchronization of foodborne outbreaks in the United States, 1996-2017.](#)

Simpson RB, Zhou B, Naumova EN.

Sci Rep. 2020 Oct 15;10(1):17500. doi: 10.1038/s41598-020-74435-9.

PMID: 33060743 **Free PMC article.**

[Evaluation of effect of chilling steps during slaughtering on the *Campylobacter* sp. counts on broiler carcasses.](#)

Stella S, Tirloni E, Bernardi C, Grilli G.

Poult Sci. 2021 Mar;100(3):100866. doi: 10.1016/j.psj.2020.11.043. Epub 2020 Nov 27.

PMID: 33516479 **Free PMC article.**

[A proposed scheme for the monitoring of antibiotic resistance in veterinary pathogens of food animals in the UK.](#)

Teale C, Borriello P.

Vet Rec. 2021 Mar 1:e201. doi: 10.1002/vetr.201. Online ahead of print. PMID: 33645738

[Genetic characterisation of a subset of *Campylobacter jejuni* isolates from clinical and poultry sources in Ireland.](#)

Truccollo B, Whyte P, Burgess C, Bolton D.

PLoS One. 2021 Mar 9;16(3):e0246843. doi: 10.1371/journal.pone.0246843. eCollection 2021.

PMID: 33690659 **Free PMC article.**

[Foodborne pathogens in the omics era.](#)

Vieira KCO, Silva HRAD, Rocha IPM, Barboza E, Eller LKW.
Crit Rev Food Sci Nutr. 2021 Mar 30;1-16. doi: 10.1080/10408398.2021.1905603. Online ahead of print.PMID: 33783282

[In Silico Characterization of Toxin-Antitoxin Systems in *Campylobacter* Isolates Recovered from Food Sources and Sporadic Human Illness.](#)

Wadie B, Abdel-Fattah MA, Yousef A, Mouftah SF, Elhadidy M, Salem TZ.
Genes (Basel). 2021 Jan 7;12(1):72. doi: 10.3390/genes12010072.PMID: 33430508 **Free PMC article.**

[Comparative history of *Campylobacter* contamination on chicken meat and campylobacteriosis cases in the United States: 1994-2018.](#)

Williams MS, Ebel ED, Nyirabahizi E.
Int J Food Microbiol. 2021 Mar 16;342:109075. doi: 10.1016/j.ijfoodmicro.2021.109075. Epub 2021 Jan 26.PMID: 33550153

[Pathogenicity of *Campylobacter* strains of poultry and human origin from Poland.](#)

Wysok B, Wojtacka J, Kivistö R.
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[Bacterial shifts on broiler carcasses at retail upon frozen storage.](#)

Yu Z, Joossens M, Kerkhof PJ, Houf K.
Int J Food Microbiol. 2021 Feb 16;340:109051. doi: 10.1016/j.ijfoodmicro.2021.109051. Epub 2021 Jan 18.PMID: 33485099

[Possible reservoirs of thermotolerant *Campylobacter* at the farm between rearing periods and after the use of enrofloxacin as a therapeutic treatment.](#)

Zbrun MV, Rossler E, Olivero CR, Soto LP, Zimmermann JA, Frizzo LS, Signorini ML.
Int J Food Microbiol. 2021 Feb 16;340:109046. doi: 10.1016/j.ijfoodmicro.2021.109046. Epub 2021 Jan 5.PMID: 33445066

[Microbiological safety of ready-to-eat fresh-cut fruits and vegetables sold on the Canadian retail market.](#)

Zhang H, Yamamoto E, Murphy J, Locas A.
Int J Food Microbiol. 2020 Dec 16;335:108855. doi: 10.1016/j.ijfoodmicro.2020.108855. Epub 2020 Sep 4.PMID: 32949906

[Bacterial adhesion rate on food grade ceramics and Teflon as kitchen worktop surfaces.](#)

Zore A, Bezek K, Jevšnik M, Abram A, Runko V, Slišković I, Raspor P, Kovačević D, Bohinc K.
Int J Food Microbiol. 2020 Nov 2;332:108764. doi: 10.1016/j.ijfoodmicro.2020.108764. Epub 2020 Jun 17.PMID: 32585372

[Technical specifications on a randomisation of sampling for the purpose of antimicrobial resistance monitoring from food-producing animals and food as from 2021.](#)

European Food Safety Authority (EFSA).
EFSA J. 2020 Dec 23;18(12):e06364. doi: 10.2903/j.efsa.2020.6364. eCollection 2020 Dec. PMID: 33376555 **Free PMC article.**

[The European Union One Health 2019 Zoonoses Report.](#)

European Food Safety Authority; European Centre for Disease Prevention and Control.
EFSA J. 2021 Feb 27;19(2):e06406. doi: 10.2903/j.efsa.2021.6406. eCollection 2021 Feb. PMID: 33680134 **Free PMC article.**

Clostridium*, *botulinum*, *Clostridium perfringens*, *Clostridium difficile

[Comparative in silico genome analysis of *Clostridium perfringens* unravels stable phylogroups with different genome characteristics and pathogenic potential.](#)

Abdel-Glil MY, Thomas P, Linde J, Busch A, Wieler LH, Neubauer H, Seyboldt C.
Sci Rep. 2021 Mar 24;11(1):6756. doi: 10.1038/s41598-021-86148-8.PMID: 33762628 **Free PMC article.**

[Occurrence of *Clostridioides* \(*Clostridium*\) *difficile* in Poultry GIBLETS at Slaughter and in Retail Pork and Poultry Meat in Southeastern Spain.](#)

Candel-PÉrez C, Santaella-Pascual J, Ros-Berruezo G, Martínez-GraciÁ C.
J Food Prot. 2021 Feb 1;84(2):310-314. doi: 10.4315/JFP-20-256.PMID: 33513258

[Visual Detection of *Clostridium perfringens* Alpha Toxin by Combining Nanometer Microspheres with Smart Phones.](#)

Cao A, Chi H, Shi J, Sun R, Du K, Song Y, Zhu M, Zhang L, Huang J. *Microorganisms*. 2020 Nov 26;8(12):1865. doi: 10.3390/microorganisms8121865. PMID: 33256026 **Free PMC article.**

[Determination of Genomic Epidemiology of Historical Clostridium perfringens Outbreaks in New York State by Use of Two Web-Based Platforms: National Center for Biotechnology Information Pathogen Detection and FDA GalaxyTrakr.](#)
Carey J, Cole J, Venkata SLG, Hoyt H, Mingle L, Nicholas D, Musser KA, Wolfgang WJ. *J Clin Microbiol*. 2021 Jan 21;59(2):e02200-20. doi: 10.1128/JCM.02200-20. Print 2021 Jan 21. PMID: 33177125

[Insights on toxin genotyping, virulence, antibiogram profiling, biofilm formation and efficacy of disinfectants on biofilms of Clostridium perfringens isolated from poultry, animals and humans.](#)
Gharieb R, Saad M, Abdallah K, Khedr M, Farag E, Abd El-Fattah A. *J Appl Microbiol*. 2021 Mar;130(3):819-831. doi: 10.1111/jam.14838. Epub 2020 Sep 15. PMID: 32881183

[A survey of a blown pack spoilage produced by Clostridium perfringens in vacuum-packaged wurstel.](#)
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