

Meeting

# Items of interest from the literature

Items of interest from the literature (PubMed 22/06/2023 to 28/09/2023)

## ***Bacillus cereus***

[Phytotoxicity and cytotoxicity attributes of immobilized \*Bacillus cereus\* treated and untreated textile effluents on \*Vigna mungo\* seeds and \*Artemia franciscana\* larvae.](#)

Ahmad Wadaan M, Baabbad A, Farooq Khan M, Shanmuganathan R, Daniel F.

Environ Res. 2023 Aug 15;231(Pt 1):116111. doi: 10.1016/j.envres.2023.116111. Epub 2023 May 11.

PMID: 37178746

[Impact of \*Bacillus cereus\* on the Human Gut Microbiota in a 3D In Vitro Model.](#)

Calvigioni M, Panattoni A, Biagini F, Donati L, Mazzantini D, Massimino M, Daddi C, Celandroni F, Vozzi G, Ghelardi E.

Microorganisms. 2023 Jul 17;11(7):1826. doi: 10.3390/microorganisms11071826.

PMID: 37512998 Free PMC article.

[Inhibitory activity of flavonoids fraction from \*Astragalus membranaceus\* Fisch. ex Bunge stems and leaves on \*Bacillus cereus\* and its separation and purification.](#)

Cui L, Ma Z, Li W, Ma H, Guo S, Wang D, Niu Y.

Front Pharmacol. 2023 Jul 3;14:1183393. doi: 10.3389/fphar.2023.1183393. eCollection 2023.

PMID: 37538180 Free PMC article.

[Mechanism for combined application of biochar and \*Bacillus cereus\* to reduce antibiotic resistance genes in copper contaminated soil and lettuce.](#)

Duan M, Li Z, Yan R, Zhou B, Su L, Li M, Xu H, Zhang Z.

Sci Total Environ. 2023 Aug 1;884:163422. doi: 10.1016/j.scitotenv.2023.163422. Epub 2023 Apr 20.

PMID: 37087005

[Epidemiological Evaluation of \*Bacillus cereus\*-Induced Foodborne Outbreaks - China, 2010-2020.](#)

Duan S, Yu Y, Guo Y, Lu D, Li N, Liu Z, Liang J, Jiang Y, Wang S, Fu P, Liu J, Liu H.

China CDC Wkly. 2023 Aug 18;5(33):737-741. doi: 10.46234/ccdcw2023.140.

PMID: 37663900 Free PMC article.

[Inactivation mechanisms of atmospheric pressure plasma jet on \*Bacillus cereus\* spores and its application on low-water activity foods.](#)

Liu Y, Sun Y, Wang Y, Zhao Y, Duan M, Wang H, Dai R, Liu Y, Li X, Jia F.

Food Res Int. 2023 Jul;169:112867. doi: 10.1016/j.foodres.2023.112867. Epub 2023 Apr 23.

PMID: 37254316

[Antibacterial Effect of Melanoidins Derived From Xylose and Phenylalanine Against \*Bacillus cereus\* and \*Clostridium perfringens\*.](#)

Maesaka E, Kukuminato S, Aonishi K, Koyama K, Koseki S.

J Food Prot. 2023 Oct;86(10):100140. doi: 10.1016/j.jfp.2023.100140. Epub 2023 Aug 9.

PMID: 37562514

[Effect of probiotic Bacillus cereus DM423 on the flavor formation of fermented sausage.](#)

Shan K, Yao Y, Wang J, Zhou T, Zeng X, Zhang M, Ke W, He H, Li C.

Food Res Int. 2023 Oct;172:113210. doi: 10.1016/j.foodres.2023.113210. Epub 2023 Jun 30.

PMID: 37689956

[Cadmium-tolerant Bacillus cereus 2-7 alleviates the phytotoxicity of cadmium exposure in banana plantlets.](#)

Zhang L, Hu Y, Chen Y, Qi D, Cai B, Zhao Y, Li Z, Wang Y, Nie Z, Xie J, Wang W.

Sci Total Environ. 2023 Aug 30;903:166645. doi: 10.1016/j.scitotenv.2023.166645. Online ahead of print.

PMID: 37657542

***Campylobacter***

[Combining antimicrobial substances for Campylobacter post harvest mitigation on chicken breast fillet and chicken skin - any synergistic effects?](#)

Bogun K, Peh E, Siekmann L, Plötz M, Kittler S.

J Appl Microbiol. 2023 Sep 5;134(9):lxad209. doi: 10.1093/jambio/lxad209.

PMID: 37709568

[Genomic characterisation of \*Campylobacter jejuni\* Cj26: A high-level ciprofloxacin/erythromycin-resistant strain isolated from a poultry carcass in southern Brazil.](#)

Dias TS, Panzenhagen P, Figueira AA, Costa GA, Rossi DA, de Melo RT, Pereira VLA, de Aquino MHC.

J Glob Antimicrob Resist. 2023 Sep;34:1-4. doi: 10.1016/j.jgar.2023.05.009. Epub 2023 Jun 7.

PMID: 37290693

[Investigation of Trehalose Supplementation Impacting \*Campylobacter jejuni\* and \*Clostridium perfringens\* from Broiler Farming.](#)

Fan YC, Wu YT, Wu YS, Wang CL, Chou CH, Chen YC, Tsai HJ.

Vet Sci. 2023 Jul 15;10(7):466. doi: 10.3390/vetsci10070466.

PMID: 37505870 Free PMC article.

[Draft Genome Sequences of 17 \*Campylobacter coli\* Strains Isolated from Animal and Food Sources in Brazil.](#)

Gomes CN, Duque SDS, Balkey M, Allard MW, Falcão JP.

Microbiol Resour Announc. 2023 Jul 18;12(7):e0031223. doi: 10.1128/mra.00312-23. Epub 2023 Jun 12.

PMID: 37306576 Free PMC article.

[\*Campylobacter fetus\* foodborne illness outbreak in the elderly.](#)

Grouteau G, Mignonat C, Marchou B, Martin-Blondel G, Glass O, Roubaud-Baudron C, Lansalot-Matras P, Alik S, Balardy L, De Nadaï T, Bénéjat L, Jehanne Q, Le Coustumier A, Lehours P.

Front Microbiol. 2023 Jul 6;14:1194243. doi: 10.3389/fmicb.2023.1194243. eCollection 2023.

PMID: 37485516 Free PMC article.

[Reducing Campylobacter colonization in broilers by active immunization of naive broiler breeders using a bacterin and subunit vaccine.](#)

Haems K, Van Rysselberghe N, Goossens E, Strubbe D, Rasschaert G, Martel A, Pasmans F, Garmyn A.

Poult Sci. 2023 Aug 30;102(12):103075. doi: 10.1016/j.psj.2023.103075. Online ahead of print.

PMID: 37748236

[Prevalence and genotype diversity of Campylobacter jejuni in hunted reared pheasants \(Phasianus colchicus\) in Finland.](#)

Kivistö R, Sauvala M, Fredriksson-Ahomaa M, Björkroth J.

Acta Vet Scand. 2023 Aug 1;65(1):36. doi: 10.1186/s13028-023-00698-7.

PMID: 37528488 Free PMC article.

[Association between ability to form biofilm and virulence factors of poultry extra-intestinal Campylobacter jejuni and Campylobacter coli.](#)

Laconi A, Tolosi R, Drigo I, Bano L, Piccirillo A.

Vet Microbiol. 2023 Jul;282:109770. doi: 10.1016/j.vetmic.2023.109770. Epub 2023 May 3.

PMID: 37150060

[Campylobacter Infection-Associated Acute Pancreatitis in a Renal Transplant Recipient.](#)

Navarrete-Welton A, Francis ER, Gohh R, Farmakiotis D.

R I Med J (2013). 2023 Sep 1;106(8):13-15.

PMID: 37643334

[Outbreaks of Campylobacteriosis Caused by Drinking Raw Milk in Japan: Evidence of Relationship Between Milk and Patients by Using Whole Genome Sequencing.](#)

Ohno Y, Sekizuka T, Kuroda M, Ikeda T.

Foodborne Pathog Dis. 2023 Sep;20(9):375-380. doi: 10.1089/fpd.2023.0042. Epub 2023 Jul 20.

PMID: 37471207

[Deciphering the Association between \*Campylobacter\* Colonization and Microbiota Composition in the Intestine of Commercial Broilers.](#)

Pang J, Looft T, Zhang Q, Sahin O.

Microorganisms. 2023 Jun 30;11(7):1724. doi: 10.3390/microorganisms11071724.

PMID: 37512896 Free PMC article.

[UK-wide risk factor study of broiler carcasses highly contaminated with \*Campylobacter\*.](#)

Smith RP, Lawes J, Davies RH, Hutchison ML, Vidal A, Gilson D, Rodgers J.

Zoonoses Public Health. 2023 Sep;70(6):523-541. doi: 10.1111/zph.13063. Epub 2023 Jun 19.

PMID: 37337320

[First Report of \*Campylobacter jejuni\* Strains Belonging to ST-21 Clonal Complex Isolated from Human, Poultry and Wild Birds in Croatia: Antimicrobial Resistance and Genetic Distance.](#)

Šoprek S, Ujević J, Kompes G, Jurinović L, Tambić Andrašević A.

Microorganisms. 2023 Jul 26;11(8):1884. doi: 10.3390/microorganisms11081884.

PMID: 37630444 Free PMC article.

[Genetic characteristics, antimicrobial susceptibility, and virulence genes distribution of \*Campylobacter\* isolated from local dual-purpose chickens in central China.](#)

Xiao J, Cheng Y, Zhang W, Lu Q, Guo Y, Hu Q, Wen G, Shao H, Luo Q, Zhang T.

Front Cell Infect Microbiol. 2023 Sep 7;13:1236777. doi: 10.3389/fcimb.2023.1236777. eCollection 2023.

PMID: 37743858 Free PMC article.

[Assessing the Risk of Seasonal Effects of \*Campylobacter\* Contaminated Broiler Meat Prepared In-Home in the United States.](#)

Xu X, Rothrock MJ Jr, Dev Kumar G, Mishra A.

Foods. 2023 Jun 30;12(13):2559. doi: 10.3390/foods12132559.

PMID: 37444297 Free PMC article.

[A \*Campylobacteriosis\* Outbreak Caused by One Asymptomatic Food Handler Carrier.](#)

Yan AX, Zhou GL, Gao P, Kang Y, Li SF, Wang YY, Wang FS, Wang HR, Li Y, Zhang MJ.

Biomed Environ Sci. 2023 Aug 20;36(8):779-782. doi: 10.3967/bes2023.105.

PMID: 37711091

[Prevalence of ciprofloxacin resistance and associated genetic determinants differed among \*Campylobacter\* isolated from human and poultry meat sources in Pennsylvania.](#)

Yan R, M'ikanatha NM, Nachamkin I, Hudson LK, Denes TG, Kovac J.

Food Microbiol. 2023 Dec;116:104349. doi: 10.1016/j.fm.2023.104349. Epub 2023 Aug 3.

PMID: 37689423

## ***Clostridium botulinum*, *Clostridium perfringens* and *Clostridium difficile***

[Enterotoxemia produced by lambda toxin-positive \*Clostridium perfringens\* type D in 2 neonatal goat kids.](#)

Acevedo HD, Schlesinger MS, Streitenberger N, Henderson E, Asin J, Beingesser J, Uzal FA.

J Vet Diagn Invest. 2023 Jul;35(4):448-451. doi: 10.1177/10406387231176995. Epub 2023 May 22.

PMID: 37212504

[Pathogenicity and Antibiotic Resistance Diversity in \*Clostridium perfringens\* Isolates from Poultry Affected by Necrotic Enteritis in Canada.](#)

García-Vela S, Martínez-Sancho A, Said LB, Torres C, Fliss I.

Pathogens. 2023 Jul 3;12(7):905. doi: 10.3390/pathogens12070905.

PMID: 37513752 Free PMC article.

[Infant Botulism.](#)

Garispe A, Cherry S.

J Educ Teach Emerg Med. 2023 Jul 31;8(3):O33-O60. doi: 10.21980/J88350. eCollection 2023 Jul.

PMID: 37575412 Free PMC article.

[Experimental acute \*Clostridium perfringens\* type D enterotoxemia in sheep is not characterized by specific renal lesions.](#)

Giannitti F, García JP, Adams V, Armendano JI, Beingesser J, Rood JI, Uzal FA.

Vet Pathol. 2023 Jul;60(4):412-419. doi: 10.1177/03009858231171669. Epub 2023 May 12.

PMID: 37177792

[Foodborne Botulism, Canada, 2006-2021<sup>1</sup>](#).

Harris RA, Tchao C, Prystajecky N, Weedmark K, Tcholakov Y, Lefebvre M, Austin JW.

Emerg Infect Dis. 2023 Sep;29(9):1730-7. doi: 10.3201/eid2909.230409.

PMID: 37610295 Free PMC article. Review.

[Identification and Characterization of a Potential Probiotic, Clostridium butyricum G13, Isolated from the Intestine of the Mud Crab \(Scylla paramamosain\)](#).

Liang H, Tran NT, Deng T, Li J, Lei Y, Bakky MAH, Zhang M, Li R, Chen W, Zhang Y, Chen X, Li S.

Microbiol Spectr. 2023 Aug 17;11(4):e0131723. doi: 10.1128/spectrum.01317-23. Epub 2023 Jul 31.

PMID: 37522814 Free PMC article.

[Characterization of quinolones resistant Clostridium perfringens toxinotype D.](#)

Madeeha Tariq -, Aftab Ahmad Anjum -, Tehreem Ali -, Mian Muhammad Khubaib Sattar -, Rabia Manzoor -.

Pak J Pharm Sci. 2023 Jul;36(4):1203-1209.

PMID: 37599496

[The effect of dietary Yucca schidigera extract supplementation on productive performance, egg quality, and gut health in laying hens with Clostridium perfringens and coccidia challenge.](#)

Mao X, Dou Y, Fan X, Yu B, He J, Zheng P, Yu J, Luo J, Luo Y, Yan H, Wang J, Wang H, Wang Q.

Poult Sci. 2023 Aug;102(8):102822. doi: 10.1016/j.psj.2023.102822. Epub 2023 May 29.

PMID: 37321033 Free PMC article.

[The effects of probiotic and threonine application on the carcass yield, internal organ development, intestinal morphology and cecal microbiota of broilers challenged with Clostridium perfringens.](#)

Omrani AH, Mousavi SN, Foroudi F, Jafarabadi GA, Hosseini SA, Alahyaribeik S.

Res Vet Sci. 2023 Jul;160:1-10. doi: 10.1016/j.rvsc.2023.05.002. Epub 2023 May 13.

PMID: 37201219

[Botulism in Cattle: A Case Report of an Outbreak in Sardinia \(Italy\).](#)

Pinna L, Coccollone A, Maxia M, Bano L, Scalfaro C, Mandas D, Liciardi M.

Animals (Basel). 2023 Jul 27;13(15):2435. doi: 10.3390/ani13152435.

PMID: 37570244 Free PMC article.

[Clostridium botulinum Infection.](#)

Tiwari A, Nagalli S.

2023 Aug 7. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-.

PMID: 31971722 Free Books & Documents.

[The isolation, identification, whole-genome sequencing of Clostridium butyricum LV1 and its effects on growth performance, immune response, and disease-resistance of Litopenaeus vannamei.](#)

Wang Q, Li W, Liu H, Tan B, Dong X, Chi S, Yang Q, Zhang S, Fan D, Hu Y.

Microbiol Res. 2023 Jul;272:127384. doi: 10.1016/j.micres.2023.127384. Epub 2023 Apr 15.

PMID: 37141852

[Genome characteristics of the \*optrA\*-positive \*Clostridium perfringens\* strain QHY-2 carrying a novel plasmid type.](#)

Wu K, Li Z, Fang M, Yuan Y, Fox EM, Liu Y, Li R, Bai L, Zhang W, Zhang WM, Yang Q, Chang L, Li P, Wang X, Wang J, Yang Z.

mSystems. 2023 Aug 31;8(4):e0053523. doi: 10.1128/msystems.00535-23. Epub 2023 Jul 17.

PMID: 37458450 Free PMC article.

[Characterization of the \*Clostridium perfringens\* phage endolysin cpp-lys and its application on lettuce.](#)

Zhao X, Li L, Zhang Q, Li M, Hu M, Luo Y, Xu X, Chen Y, Liu Y.

Int J Food Microbiol. 2023 Nov 16;405:110343. doi: 10.1016/j.ijfoodmicro.2023.110343. Epub 2023 Jul 27.

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[Enterotoxemia produced by lambda toxin-positive \*Clostridium perfringens\* type D in 2 neonatal goat kids.](#)

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Harris RA, Tchao C, Prystajecy N, Weedmark K, Tcholakov Y, Lefebvre M, Austin  
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Emerg Infect Dis. 2023 Sep;29(9):1730-7. doi: 10.3201/eid2909.230409.

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Y, Chen X, Li S.

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Poult Sci. 2023 Aug;102(8):102822. doi: 10.1016/j.psj.2023.102822. Epub 2023 May 29.

PMID: 37321033 Free PMC article.

[Prescribed probiotic usage to prevent Clostridioides difficile infection among older patients receiving antibiotics: A retrospective cohort study.](#)

Mori N, Katsumata T, Takahashi T.

J Infect Chemother. 2023 Sep;29(9):833-837. doi: 10.1016/j.jiac.2023.05.001. Epub 2023 May 19.

PMID: 37211085

[The effects of probiotic and threonine application on the carcass yield, internal organ development, intestinal morphology and cecal microbiota of broilers challenged with Clostridium perfringens.](#)

Omran AH, Mousavi SN, Foroudi F, Jafarabadi GA, Hosseini SA, Alahyaribeik S.

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Animals (Basel). 2023 Jul 27;13(15):2435. doi: 10.3390/ani13152435.

PMID: 37570244 Free PMC article.

[\*Clostridioides difficile\* in Pigs and Dairy Cattle in Northern Italy: Prevalence, Characterization and Comparison between Animal and Human Strains.](#)

Spigaglia P, Barbanti F, Faccini S, Vescovi M, Criscuolo EM, Ceruti R, Gaspano C, Rosignoli C.

Microorganisms. 2023 Jul 2;11(7):1738. doi: 10.3390/microorganisms11071738.

PMID: 37512910 Free PMC article.

[\*Clostridium botulinum\* Infection.](#)

Tiwari A, Nagalli S.

2023 Aug 7. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-.

PMID: 31971722 Free Books & Documents.

[Disinfection of \*Clostridioides difficile\* on spinach with epigallocatechin-based antimicrobial solutions and sodium hypochlorite.](#)

Tosun MN, Taylan Yalcın G, Korkmazer G, Zorba M, Caner C, Demirel Zorba NN.

Int J Food Microbiol. 2023 Oct 2;402:110301. doi: 10.1016/j.ijfoodmicro.2023.110301. Epub 2023 Jun 22.

PMID: 37364320

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Wang Q, Li W, Liu H, Tan B, Dong X, Chi S, Yang Q, Zhang S, Fan D, Hu Y.

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mSystems. 2023 Aug 31;8(4):e0053523. doi: 10.1128/msystems.00535-23. Epub 2023 Jul 17.

PMID: 37458450 Free PMC article.

[Strategies for applying probiotics in the antibiotic management of \*Clostridioides difficile\* infection.](#)

Yang J, Meng L, Li Y, Huang H.

Food Funct. 2023 Sep 19. doi: 10.1039/d3fo02110f. Online ahead of print.

PMID: 37725066 Review.

[Characterization of the \*Clostridium perfringens\* phage endolysin cpp-lys and its application on lettuce.](#)

Zhao X, Li L, Zhang Q, Li M, Hu M, Luo Y, Xu X, Chen Y, Liu Y.

Int J Food Microbiol. 2023 Nov 16;405:110343. doi: 10.1016/j.ijfoodmicro.2023.110343. Epub 2023 Jul 27.

PMID: 37523902

## ***E. coli* O157, STEC, VTEC**

### [Escherichia coli \(e Coli 0157 H7\).](#)

Ameer MA, Wasey A, Salen P.

2023 Aug 8. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-.

PMID: 29939622 Free Books & Documents.

### [Shiga-Toxin-Producing Strains of \*Escherichia coli\* O104:H4 and a Strain of O157:H7, Which Can Cause Human Hemolytic Uremic Syndrome, Differ in Biofilm Formation in the Presence of CO2 and in Their Ability to Grow in a Novel Cell Culture Medium.](#)

Amemiya K, Rozak DA, Dankmeyer JL, Dorman WR, Marchand C, Fetterer DP, Worsham PL, Purcell BK.

Microorganisms. 2023 Jul 3;11(7):1744. doi: 10.3390/microorganisms11071744.

PMID: 37512916 Free PMC article.

### [Prevalence and characterization of the seven major serotypes of Shiga toxin-producing \*Escherichia coli\* \(STEC\) in veal calves slaughtered in France.](#)

Auvray F, Bièche-Terrier C, Um MM, Dupouy V, Nzuzi N, David L, Allais L, Drouet M, Oswald E, Bibbal D, Brugère H.

Vet Microbiol. 2023 Jul;282:109754. doi: 10.1016/j.vetmic.2023.109754. Epub 2023 Apr 24.

PMID: 37116423

[Surface proteins of Shiga toxin-producing \*Escherichia coli\* mediate association with milk fat globules in raw milk.](#)

Bagel A, Bouvier-Crozier M, Canizares M, Hamadou B, Courcol L, Lopez C, Michel V, Douellou T, Sergentet D.

Front Microbiol. 2023 Jun 23;14:1156374. doi: 10.3389/fmicb.2023.1156374. eCollection 2023.

PMID: 37426002 Free PMC article.

[Antibacterial and antibiofilm performance of low-frequency ultrasound against \*Escherichia coli\* O157:H7 and its application in fresh produce.](#)

Bai M, Dai J, Li C, Cui H, Lin L.

Int J Food Microbiol. 2023 Sep 2;400:110266. doi: 10.1016/j.ijfoodmicro.2023.110266. Epub 2023 May 26.

PMID: 37263173

[Antibacterial mechanism of vanillin against \*Escherichia coli\* O157: H7.](#)

Chen P, Liu Y, Li C, Hua S, Sun C, Huang L.

Heliyon. 2023 Aug 19;9(9):e19280. doi: 10.1016/j.heliyon.2023.e19280. eCollection 2023 Sep.

PMID: 37662745 Free PMC article.

[\*Escherichia coli\* O157:H7 strains in bovine carcasses and the impact on the animal production chain.](#)

Dos Santos GF, de Sousa FG, Beier SL, Mendes ACR, Leão AMGES.

Braz J Microbiol. 2023 Sep;54(3):2243-2251. doi: 10.1007/s42770-023-01034-x. Epub 2023 Jun 19.

PMID: 37335430 Review.

[Prevalence of Shiga Toxin-Producing \*Escherichia coli\* O157 in Wild Scottish Deer with High Human Pathogenic Potential.](#)

Fitzgerald SF, Mitchell MC, Holmes A, Allison L, Chase-Topping M, Lupolova N, Wells B, Gally DL, McNeilly TN.

Animals (Basel). 2023 Sep 2;13(17):2795. doi: 10.3390/ani13172795.

PMID: 37685059 Free PMC article.

[Detection and Isolation of \*Escherichia coli\* O157:H7 in Beef from Food Markets and Fecal Samples of Dairy Calves in the Peruvian Central Highlands.](#)

Gonzales BL, Andrade DA, Valdivia CA, Ho-Palma AC, Munguia A, Yucra D, Escobedo M, Crotta M, Limon G, Gonzalez A, Guitian J, Gonzales-Gustavson E.

Am J Trop Med Hyg. 2023 Jul 24;109(3):568-570. doi: 10.4269/ajtmh.23-0181. Print 2023 Sep 6.

PMID: 37487566

[Surveillance of antimicrobial resistant Shiga toxin-producing \*E. coli\* O157:H7 in England, 2016-2020.](#)

Greig DR, Do Nascimento V, Olonade I, Swift C, Nair S, Jenkins C.

J Antimicrob Chemother. 2023 Sep 5;78(9):2263-2273. doi: 10.1093/jac/dkad231.

PMID: 37545157

[Identification of Contamination Sources and Assessment of Risk Factors Associated with the Occurrence of \*Escherichia coli\* O157:H7 on Small-scale Cow-calf Operations in Oklahoma and Louisiana.](#)

Jaroni DA, Saha J, Rumbaugh K, Marshall RW.

J Food Prot. 2023 Sep 7;86(11):100156. doi: 10.1016/j.jfp.2023.100156. Online ahead of print.

PMID: 37689366

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## **Secretariat**

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