

CFSAN Science Publications – 2017

The following is a list of scientific publications, from January 1 – December 31, 2017, with at least one CFSAN author. It was assembled in an effort to share information and to raise awareness about the research being conducted throughout the Center. The list includes journal articles and book chapters. To be included on the list the publication must have become available for the first time during 2017. First availability might have been the date the accepted manuscript was available on-line, the date of e-publication, or the date of hardcopy publication.

Some of the publications represent the collaborative effort of both CFSAN and non-CFSAN researchers. CFSAN scientists collaborate on many different subjects and with many research institutions throughout the world. As a result, the publication often originates from the lead external collaborator and the mission relevance of the publication is not always obvious from the title.

The publications are listed in alphabetical order, by title.

1. **Accelerated senescence in skin in a murine model of radiation-induced multi-organ injury.** McCart EA, Thangapazham RL, Lombardini ED, Mog SR, Panganiban RAM, Dickson KM, Mansur RA, Nagy V, Kim S-Y, Selwyn R, Landauer MR, Darling TN, Day RM; *Journal of Radiation Research*, 2017, **58**(5):636–646. <https://academic.oup.com/jrr/article-pdf/58/5/636/22933547/rrx008.pdf>
2. **Advancement in Chromatographic and Spectroscopic Analyses of Dietary Fatty Acids**, Mossoba MM, Karunathilaka SR, Chung JK, Srigley CT. In: *Fatty Acids: Chemistry, Synthesis, and Applications*, (Chapter 16). Ed. Ahmad MU, AOCS Press, 2017: 505-528.
<http://www.sciencedirect.com/science/article/pii/B9780128095218000179>
3. **Advancements in Microarray Utility for Detection and Tracking of Foodborne Microbes in the Genomic Era.** Li B, Patel IR, Tall BD, Elkins CA; *Advanced Techniques in Biology & Medicine*, 2017, **5**(3):1000239. <https://www.omicsonline.org/open-access/advancements-in-microarray-utility-for-detection-and-tracking-of-foodborne-microbes-in-the-genomic-era-2379-1764-1000239.pdf>
4. **Analysis and Characterization of Proteins Associated with Outer Membrane Vesicles Secreted by *Cronobacter* spp.** Kothary MH, Gopinath GR, Gangireddla J, Rallabhandi PV, Harrison LM, Yan QQ, Chase HR, Lee B, Park E, Yoo Y, Chung T, Finkelstein SB, Negrete FJ, Patel IR, Carter L, Sathyamoorthy V, Fanning S, Tall BD; *Frontiers in Microbiology*, 2017, **8**:134. <https://www.frontiersin.org/articles/10.3389/fmicb.2017.00134/pdf>
5. **An analysis of *Echinacea* chloroplast genomes: Implications for future botanical identification.** Zhang N, Erickson DL, Ramachandran P, Ottesen AR, Timme RE, Funk VA, Luo Y, Handy SM; *Scientific Reports*, 2017, **7**(1):216. <https://www.nature.com/articles/s41598-017-00321-6.pdf>

6. **Application of next generation sequencing toward sensitive detection of enteric viruses isolated from celery samples as an example of produce.** Yang Z, Mammel M, Papafragkou E, Hida K, Elkins CA, Kulka M; *International Journal of Food Microbiology*, 2017, **261**(Supplement C):73-81. <http://www.sciencedirect.com/science/article/pii/S0168160517303185>
7. **Approaches toward Identification of Surrogates To Validate Antimicrobial Washes as Preventive Controls for Fresh-Cut Leafy Greens.** Shazer A, Stewart D, Deng K, Tortorello M; *Journal of Food Protection*, 2017, **80**(10):1600-1604.
<http://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-17-069>
8. **Assessing the effect of oral exposure to *Paenibacillus alvei*, a potential biocontrol agent, in male, non-pregnant, pregnant animals and the developing rat fetus.** Sprando RL, Black T, Olejnik N, Keltner Z, Topping V, Ferguson M, Hanes D, Brown E, Zheng J; *Food and Chemical Toxicology*, 2017, **103**:203-213.
<http://www.sciencedirect.com/science/article/pii/S0278691517301023>
9. **Assessing the genome level diversity of *Listeria monocytogenes* from contaminated ice cream and environmental samples linked to a listeriosis outbreak in the United States.** Chen Y, Luo Y, Curry P, Timme R, Melka D, Doyle M, Parish M, Hammack TS, Allard MW, Brown EW, Strain EA; *PLoS One*, 2017, **12**(2):e0171389.
<http://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0171389&type=printable>
10. **Assessment of *Listeria monocytogenes* virulence in the *Galleria mellonella* insect larvae model.** Rakic Martinez M, Wiedmann M, Ferguson M, Datta AR; *PLoS One*, 2017, **12**(9):e0184557.
<http://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0184557&type=printable>
11. **Assessment of the Authenticity of Herbal Dietary Supplements: Comparison of Chemical and DNA Barcoding Methods.** Pawar RS, Handy SM, Cheng R, Shyong N, Grundel E; *Planta Med*, 2017, **83**(11):921-936. <https://www.thieme-connect.de/products/ejournals/pdf/10.1055/s-0043-107881.pdf>
12. **Baseline Practices for the Application of Genomic Data Supporting Regulatory Food Safety.** Lambert D, Pightling A, Griffiths E, Van Domselaar G, Evans P, Berthelet S, Craig D, Chandry PS, Stones R, Brinkman F, Angers-Loustau A, Kreysa J, Tong W, Blais B; *Journal of AOAC International*, 2017, **100**(3):721-731.
<http://www.ingentaconnect.com/content/aoac/jaoac/2017/00000100/00000003/art00022>
13. **Benchmark datasets for phylogenomic pipeline validation, applications for foodborne pathogen surveillance.** Timme RE, Rand H, Shumway M, Trees EK, Simmons M, Agarwala R, Davis S, Tillman GE, Defibaugh-Chavez S, Carleton HA, Klimke WA, Katz LS; *PeerJ*, 2017, **5**:e3893.
<https://peerj.com/articles/3893.pdf>

14. **Changing US Population Demographics: What Does This Mean for Listeriosis Incidence and Exposure?** Pohl AM, Pouillot R, Van Doren JM; *Foodborne Pathogens and Disease*, 2017, 14(9):524-530. <http://online.liebertpub.com/doi/pdf/10.1089/fpd.2017.2297>
15. **Characterization and Virulence Potential of Serogroup O113 Shiga Toxin-Producing *Escherichia coli* Strains Isolated from Beef and Cattle in the United States.** Feng P, Delannoy S, Lacher DW, Bosilevac JM, Fach P; *Journal of Food Protection*, 2017:383-391. <http://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-16-325>
16. **Chemical stability and *in chemico* reactivity of 24 fragrance ingredients of concern for skin sensitization risk assessment.** Avonto C, Wang M, Chittiboyina AG, Vukmanovic S, Khan IA; *Toxicology in Vitro*, 2018, 46(Supplement C):237-245. <http://www.sciencedirect.com/science/article/pii/S088723331730259X>
17. **A clade of *Listeria monocytogenes* serotype 4b variant strains linked to recent listeriosis outbreaks associated with produce from a defined geographic region in the US.** Burall LS, Grim CJ, Datta AR; *PLoS One*, 2017, 12(5):e0176912. <http://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0176912&type=printable>
18. **Closed Genome Sequence of *Chryseobacterium piperi* Strain CTMT/ATCC BAA-1782, a Gram-Negative Bacterium with Clostridial Neurotoxin-Like Coding Sequences.** Wentz TG, Muruvanda T, Lomonaco S, Thirunavukkarasu N, Hoffmann M, Allard MW, Hodge DR, Pillai SP, Hammack TS, Brown EW, Sharma SK; *Genome Announcements*, 2017, 5(48). <http://genomea.asm.org/content/5/48/e01296-17.full.pdf>
19. **Colouring Agents in Cosmetics: Regulatory Aspects and Analytical Methods,** Weisz A, Milstein SR, Scher AL, Hepp NM. In: *Analysis of Cosmetic Products (Second Edition)*, (Chapter 7). Eds. Salvador A, Chisvert A, Elsevier, 2018: 123-157. <http://www.sciencedirect.com/science/article/pii/B9780444635082000072>
20. **Comparative Analysis of Extended-Spectrum- β -Lactamase CTX-M-65-Producing *Salmonella enterica* Serovar Infantis Isolates from Humans, Food Animals, and Retail Chickens in the United States.** Tate H, Folster JP, Hsu C-H, Chen J, Hoffmann M, Li C, Morales C, Tyson GH, Mukherjee S, Brown AC, Green A, Wilson W, Dessai U, Abbott J, Joseph L, Haro J, Ayers S, McDermott PF, Zhao S; *Antimicrobial Agents and Chemotherapy*, 2017, 61(7). <http://aac.asm.org/content/61/7/e00488-17.full.pdf>
21. **Comparative Genomic Characterization of the Highly Persistent and Potentially Virulent *Cronobacter sakazakii* ST83, CC65 Strain H322 and Other ST83 strains.** Chase HR, Gopinath GR, Eshwar AK, Stoller A, Fricker-Feer C, Gangiredla J, Patel IR, Cinar HN, Jeong H, Lee C, Negrete F,

Finkelstein S, Stephan R, Tall BD, Lehner A; *Frontiers in Microbiology*, 2017, **8**(1136).
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22. **Comparative responses of chicken macrophages to infection with *Salmonella enterica* serovars.** Balan KV, Babu US; *Poultry Science*, 2017, **96**(6):1849-1854.
<https://academic.oup.com/ps/article-pdf/96/6/1849/17631614/pew477.pdf>
23. **Comparative transcriptomic analysis of endothelial progenitor cells derived from umbilical cord blood and adult peripheral blood: Implications for the generation of induced pluripotent stem cells.** Gao X, Yourick JJ, Sprando RL; *Stem Cell Research*, 2017, **25**(Supplement C):202-212.
<http://www.sciencedirect.com/science/article/pii/S1873506117302349>
24. **Comparison of diglycolic acid exposure to human proximal tubule cells *in vitro* and rat kidneys *in vivo*.** Mossoba ME, Vohra S, Toomer H, Pugh-Bishop S, Keltner Z, Topping V, Black T, Olejnik N, Depina A, Belgrave K, Sprando J, Njorge J, Flynn TJ, Wiesenfeld PL, Sprando RL; *Toxicology Reports*, 2017, **4**:342-347.
<http://www.sciencedirect.com/science/article/pii/S2214750017300422>
25. **Complete Genome and Methylome Sequences of *Salmonella enterica* subsp. *enterica* Serovars Typhimurium, Saintpaul, and Stanleyville from the SARA/SARB Collection.** Yao K, Roberts RJ, Allard MW, Hoffmann M; *Genome Announcements*, 2017, **5**(11):e00031-17.
<http://genomea.asm.org/content/5/11/e00031-17.full.pdf>
26. **Complete Genome Sequence of a Human Sapovirus GI.2 Variant, Isolated from a Patient in Ireland in 2016.** Yang Z, O'Gorman J, De Gascun C, Bennett C, Elkins CA, Kulka M, Coughlan S; *Genome Announcements*, 2017, **5**(38):e01028-17.
<http://genomea.asm.org/content/5/38/e01028-17.full.pdf>
27. **Complete Genome Sequence of Human Norovirus GII.Pe-GII.4 Sydney from the United States.** Yang Z, Vinjé J, Kulka M; *Genome Announcements*, 2017, **5**(15):e00159-17.
<http://genomea.asm.org/content/5/15/e00159-17.full.pdf>
28. **Complete Genome Sequences of Three *Salmonella enterica* subsp. *enterica* Serovar Saintpaul Isolates Associated with a 2013 Multistate Outbreak in the United States.** Yao K, Muruvanda T, Allard MW, Hoffmann M; *Genome Announcements*, 2017, **5**(22):e00456-17.
<http://genomea.asm.org/content/5/22/e00456-17.full.pdf>
29. **Complete Genome Sequences of Two *Salmonella enterica* subsp. *enterica* Serovar Enteritidis Strains Isolated from Egg Products in the United States.** Hu L, Zhang G, Allard MW, Yao K, Stones R, Hoffmann M, Brown EW; *Genome Announcements*, 2017, **5**(26):e00614-17.
<http://genomea.asm.org/content/5/26/e00614-17.full.pdf>

30. **A Comprehensive Evaluation of the Genetic Relatedness of *Listeria monocytogenes* Serotype 4b Variant Strains.** Burall LS, Grim CJ, Mammel MK, Datta AR; *Frontiers in Public Health*, 2017, 5(241). <https://www.frontiersin.org/articles/10.3389/fpubh.2017.00241/pdf>
31. **Conservative Exposure Predictions for Rapid Risk Assessment of Phase-Separated Additives in Medical Device Polymers.** Chandrasekar V, Janes DW, Saylor DM, Hood A, Bajaj A, Duncan TV, Zheng J, Isayeva IS, Forrey C, Casey BJ; *Annals of Biomedical Engineering*, 2018, 46(1):14-24. <https://link.springer.com/content/pdf/10.1007%2Fs10439-017-1931-4.pdf>
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33. **Consumer use effects on nanoparticle release from commercially available ceramic cookware.** Addo Ntim S, Norris S, Scott K, Thomas TA, Noonan GO; *Food Control*, 2018, 87:31-39. <https://www.sciencedirect.com/science/article/pii/S0956713517305819>
34. **Cross-reactivity profiles of legumes and tree nuts using the xMAP® multiplex food allergen detection assay.** Cho CY, Oles C, Nowatzke W, Oliver K, Garber EAE; *Analytical and Bioanalytical Chemistry*, 2017, 409(25):5999-6014. <https://link.springer.com/content/pdf/10.1007%2Fs00216-017-0528-y.pdf>
35. **Crystal Structure of Cocosin, A Potential Food Allergen from Coconut (*Cocos nucifera*).** Jin T, Wang C, Zhang C, Wang Y, Chen Y-W, Guo F, Howard A, Cao M-J, Fu T-J, McHugh TH, Zhang Y; *Journal of Agricultural and Food Chemistry*, 2017, 65(34):7560-7568. <http://pubs.acs.org/doi/pdf/10.1021/acs.jafc.7b02252>
36. **Culture-Based Quantification with Molecular Characterization of Non-O157 and O157 Enterohemorrhagic *Escherichia coli* Isolates from Rectoanal Mucosal Swabs of Feedlot Cattle.** Stromberg ZR, Lewis GL, Schneider LG, Erickson GE, Patel IR, Smith DR, Moxley RA; *Foodborne Pathogens and Disease*, 2018, 15(1):26-32. <https://www.liebertpub.com/doi/pdf/10.1089/fpd.2017.2326>
37. **CXC Chemokines Exhibit Bactericidal Activity against Multidrug-Resistant Gram-Negative Pathogens.** Crawford MA, Fisher DJ, Leung LM, Lomonaco S, Lascols C, Cannatelli A, Giani T, Rossolini GM, Doi Y, Goodlett DR, Allard MW, Sharma SK, Khan E, Ernst RK, Hughes MA; *MBio*, 2017, 8(6):e01549-01517. <http://mbio.asm.org/content/8/6/e01549-17.full.pdf>

38. **Defining a Core Genome Multilocus Sequence Typing Scheme for the Global Epidemiology of *Vibrio parahaemolyticus*.** Gonzalez-Escalona N, Jolley KA, Reed E, Martinez-Urtaza J; *Journal of Clinical Microbiology*, 2017, **55**(6):1682-1697. <http://jcm.asm.org/content/55/6/1682.full.pdf>
39. **Detection and Antigenic Profiling of Undeclared Peanut in Imported Garlic Using an xMAP Multiplex Immunoassay for Food Allergens.** Pedersen RO, Peters T, Panda R, Wehling P, Garber EAE; *Journal of Food Protection*, 2017, **80**(7):1204-1213.
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40. **Detection and Quantification of Biologically Active Botulinum Neurotoxin Serotypes A and B Using a Förster Resonance Energy Transfer-Based Quantum Dot Nanobiosensor.** Wang Y, Fry HC, Skinner GE, Schill KM, Duncan TV; *ACS applied materials & interfaces*, 2017, **9**(37):31446-31457. <https://pubs.acs.org/doi/pdf/10.1021/acsmami.7b08736>
41. **Detection of Gluten during the Fermentation Process To Produce Soy Sauce.** Cao W, Watson D, Bakke M, Panda R, Bedford B, Kande PS, Jackson LS, Garber EAE; *Journal of Food Protection*, 2017, **80**(5):799-808. <http://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-16-483>
42. **Detection of Paralytic Shellfish Toxins in Mussels and Oysters Using the Qualitative Neogen Lateral-Flow Immunoassay: An Interlaboratory Study.** Dorantes-Aranda JJ, Tan JYC, Hallegraeff GM, Campbell K, Ugalde SC, Harwood DT, Bartlett JK, Campàs M, Crooks S, Gerssen A, Harrison K, Huet A-C, Jordan TB, Koeberl M, Monaghan T, Murray S, Nimmagadda R, Ooms C, Quinlan RK, Shi F, Turner AD, Yakes BJ, Turnbull AR; *Journal of AOAC International*, 2017, **101**(2):468-479.
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43. **Detection of *Salmonella enterica* subsp. *enterica* Serovar Cubana from Naturally Contaminated Chick Feed.** Benahmed F, Wang H, Beaubrun JJ-G, Gopinath GR, Cheng C-M, Hanes DE, Hammack TS, Rasmussen M, Davidson MK; *Journal of Food Protection*, 2017, **80**(11):1815-1820. <http://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-16-344>
44. **Determination of Organic Impurities in Anthraquinone Color Additives D&C Violet No. 2 and D&C Green No. 6 by Ultra-High Performance Liquid Chromatography.** Yang HHW; *Journal of AOAC International*, 2017, **100**(1):230-235.
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45. **Determination of Sudan I and a newly synthesized Sudan III positional isomer in the color additive D&C Red No. 17 using high-performance liquid chromatography.** Weisz A, James IC, Tae CJ, Ridge CD, Ito Y; *Food Additives & Contaminants: Part A*, 2017, **34**(11):1831-1841.
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46. **Determination of Sulfite in Food by Liquid Chromatography Tandem Mass Spectrometry: Collaborative Study.** Carlos KS, de Jager LS; *Journal of AOAC International*, 2017, **100**(6):1785-1794.
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47. **Determining the zone of impact of norovirus contamination in shellfish production areas through microbiological monitoring and hydrographic analysis.** Campos CJA, Goblick G, Lee R, Wittamore K, Lees DN; *Water Research*, 2017, **124**:556-565.
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48. **Development and Validation of a Cultural Method for the Detection and Isolation of *Salmonella* in Cloves.** Zhang G, Ali L, Gill V, Tatavarthy A, Deng X, Hu L, Brown EW, Hammack TS; *Journal of Food Protection*, 2017, **80**(3):376-382.
<http://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-16-376>
49. **Development of a Hazard Classification Scheme for Substances Used in the Fraudulent Adulteration of Foods.** Everstine K, Abt E, McColl D, Popping B, Morrison-Rowe S, Lane RW, Scimeca J, Winter C, Ebert A, Moore JC, Chin HB; *Journal of Food Protection*, 2018, **81**(1):31-36.
<http://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-17-173>
50. **Development of a Reference Standard Library of Chloroplast Genome Sequences, GenomeTrakrCP.** Zhang N, Ramachandran P, Wen J, Duke JA, Metzman H, McLaughlin W, Ottesen AR, Timme RE, Handy SM; *Planta Med*, 2017, **83**(18):1420-1430. <https://www.thieme-connect.de/products/ejournals/pdf/10.1055/s-0043-113449.pdf>
51. **Developmental Neurotoxicity Considerations for Food Additive Safety,** Wu Y-C, Kabadi SV, Neal-Kluever A. In: *Food Toxicology: Current Advances and Future Challenges*, (Chapter 5). Eds. Sachan A, Hendrich S, Apple Academic Press, 2018: 93-149. <https://www.crcpress.com/Food-Toxicology-Current-Advances-and-Future-Challenges/Sachan-Hendrich/p/book/9781771886178>
52. **Dietary exposures for the safety assessment of seven emulsifiers commonly added to foods in the United States and implications for safety.** Shah R, Kolanos R, DiNovi MJ, Mattia A, Kaneko KJ; *Food Additives & Contaminants: Part A*, 2017, **34**(6):905-917.
<http://www.tandfonline.com/doi/pdf/10.1080/19440049.2017.1311420>
53. **Dietary Supplement Adverse Event Report Data From the FDA Center for Food Safety and Applied Nutrition Adverse Event Reporting System (CAERS), 2004-2013.** Timbo BB, Chirtel SJ, Ihrie J, Oladipo T, Velez-Suarez L, Brewer V, Mozersky R; *Annals of Pharmacotherapy*, 2018, **52**(5):431-438. <http://journals.sagepub.com/doi/pdf/10.1177/1060028017744316>

54. **Differential MS2 Interaction with Food Contact Surfaces Determined by Atomic Force Microscopy and Virus Recovery.** Shim J, Stewart DS, Nikolov AD, Wasan DT, Wang R, Yan R, Shieh YC; *Applied and Environmental Microbiology*, 2017, **83**(24):e01881-17.
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55. **Distribution of Animal Drugs among Curd, Whey, and Milk Protein Fractions in Spiked Skim Milk and Whey.** Shappell NW, Shelver WL, Lupton SJ, Fanaselle W, Van Doren JM, Hakk H; *Journal of Agricultural and Food Chemistry*, 2017, **65**(4):938-949.
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56. **Draft Genome Sequence of *Cronobacter sakazakii* GP1999, Sequence Type 145, an Epiphytic Isolate Obtained from the Tomato's Rhizoplane/Rhizosphere Continuum.** Chase HR, Eberl L, Stephan R, Jeong H, Lee C, Finkelstein S, Negrete F, Gangiredla J, Patel I, Tall BD, Gopinath GR, Lehner A; *Genome Announcements*, 2017, **5**(31):e00723-17.
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57. **Draft Genome Sequences of 23 *Salmonella enterica* Strains Isolated from Cattle in Ibadan, Nigeria, Representing 21 *Salmonella* Serovars.** Sanchez Leon M, Fashae K, Kastanis G, Allard M; *Genome Announcements*, 2017, **5**(46). <http://genomea.asm.org/content/5/46/e01128-17.full.pdf>
58. **Draft Genome Sequences of 64 *Salmonella enterica* Serotype Enteritidis Isolates Obtained from Wild Mice.** Guard J, Cao G, Kastanis GJ, Davison S, McClelland M, Sanchez Leon M, Zheng J, Brown E, Allard MW; *Genome Announcements*, 2017, **5**(36).
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60. **Draft Genome Sequences of Ciprofloxacin-Resistant *Salmonella enterica* Strains with Multiple-Antibiotic Resistance, Isolated from Imported Foods.** Khan AA, Khajanchi BK, Khan SA, Elkins CA, Foley SL; *Genome Announcements*, 2017, **5**(45):5 e01222-17.
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61. **Draft Genome Sequences of Enterotoxigenic *Bacillus cereus* Strains Obtained from Powdered Infant Formula.** Carter L, Chase HR, Choi H, Jun S, Park J, Jeong S, Kim M, Han K, Lee C, Jeong H, Finkelstein S, Negrete F, Cinar HN, Tall BD, Gopinath GR; *Genome Announcements*, 2017, **5**(8):e01644-16. <http://genomea.asm.org/content/5/8/e01644-16.full.pdf>

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63. **Draft Genome Sequences of *Listeria monocytogenes* Strains from Listeriosis Outbreaks Linked to Soft Cheese in Washington State.** Li Z, Marsland PA, Meek RT, Eckmann K, Allard MW, Pérez-Osorio AC; *Genome Announcements*, 2017, **5**(36). <http://genomea.asm.org/content/5/36/e00936-17.full.pdf>
64. **Draft Genome Sequences of *Yersinia frederiksenii*, *Yersinia intermedia*, and *Yersinia kristensenii* Strains from Brazil.** Imori PFM, Campioni F, Cao G, Kastanis G, Leon MS, Allard MW, Falcao JP; *Genome Announcements*, 2017, **5**(32). <http://genomea.asm.org/content/5/32/e00780-17.full.pdf>
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