

CFSAN Science Publications – 2016

The following is a list of scientific publications, from January 1 – December 31, 2016, 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 2016. 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. **Advances and Challenges in Viability Detection of Foodborne Pathogens.** Zeng D, Chen Z, Jiang Y, Xue F, Li B; *Front Microbiol*, 2016, **7**:1833. <http://journal-cdn.frontiersin.org/article/231202/files/pubmed-zip/versions/1/pdf>
2. **Advances in Molecular Serotyping and Subtyping of *Escherichia coli*.** Fratamico PM, DebRoy C, Liu Y, Needleman DS, Baranzoni GM, Feng P; *Front Microbiol*, 2016, **7**:644. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4853403/pdf/fmicb-07-00644.pdf>
3. **Aflatoxins in Brazilian Peanut Confection.** Iha MH, Okada IA, Briganti RC, Mini CA, Trucksess MW; *Journal of AOAC International*, 2016, **99**(3):830-833. <http://dx.doi.org/10.5740/jaoacint.15-0256>
4. **Altered global gene expression profiles in human gastrointestinal epithelial Caco2 cells exposed to nanosilver.** Sahu SC; *Toxicology Reports*, 2016, **3**:262-268. <http://dx.doi.org/10.1016/j.toxrep.2016.01.012>
5. **Analysis of iodine in food samples by inductively coupled plasma-mass spectrometry.** Todorov TI, Gray PJ; *Food Addit Contam Part A Chem Anal Control Expo Risk Assess*, 2016, **33**(2):282-290. <http://www.tandfonline.com/doi/pdf/10.1080/19440049.2015.1131337>
6. **Antimicrobial Drug Efflux Pumps in Other Gram-Positive Bacteria,** Baranova N, Elkins CA. In: *Efflux-Mediated Antimicrobial Resistance in Bacteria: Mechanisms, Regulation and Clinical Implications* (Chapter 8). Ed. Li X-Z, Elkins CA, Zgurskaya HI, Springer International Publishing, 2016: 197-218. http://link.springer.com/chapter/10.1007/978-3-319-39658-3_8

7. **Application of a computer-assisted structure elucidation program for the structural determination of a new terpenoid aldehyde with an unusual skeleton.** Li XN, Ridge CD, Mazzola EP, Sun J, Gutierrez O, Moser A, DiMartino JC, MacDonald SA, Chen P; *Magn Reson Chem*, 2017, **55**(3):210-213. <http://onlinelibrary.wiley.com/enhanced/doi/10.1002/mrc.4466>
8. **Application of high-energy polarized energy-dispersive x-ray fluorescence spectrometry to the determination of trace levels of As, Hg, and Pb in certifiable color additives.** Hepp NM, James IC; *X-Ray Spectrometry*, 2016, **45**(6):330-338. <http://onlinelibrary.wiley.com/doi/10.1002/xrs.2709/full>
9. **Applications of Clinical Microbial Next-Generation Sequencing**, American Academy of Microbiology, Allard, MW - contributing participant, American Society for Microbiology; 2016. http://academy.asm.org/images/Colloquia-report/NGS_Report.pdf
10. **Aptamer-Based Technologies in Foodborne Pathogen Detection.** Teng J, Yuan F, Ye Y, Zheng L, Yao L, Xue F, Chen W, Li B; *Front Microbiol*, 2016, **7**:1426. <http://journal-cdn.frontiersin.org/article/218806/files/pubmed-zip/versions/1/pdf>
11. **“As Much Calcium as a Glass of Milk!” Understanding American Consumers’ Preferences for Fortified Foods.** Nan X, Verrill L, Iles I; *Journal of Food Products Marketing*, 2017, **23**(1):24-41. <http://www.tandfonline.com/doi/pdf/10.1080/10454446.2017.1244782>
12. **Assessing the Public Health Impact and Effectiveness of Interventions To Prevent *Salmonella* Contamination of Sprouts.** Ding H, Fu TJ; *J Food Prot*, 2016, **79**(1):37-42. <http://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-15-184>
13. **An Assessment of an Orbital Trapping Mass Spectrometer for the Measurement of 2,3,7,8-Chlorine Substituted Dioxins and Dibenzofurans in Foods.** Hayward DG; *Organohalogen Compounds*, 2016, **78**:841-844. <http://www.dioxin20xx.org/pdfs/2016/2.1003.pdf>
14. **Avoiding Pandemic Fears in the Subway and Conquering the Platypus.** Gonzalez A, Vazquez-Baeza Y, Pettengill JB, Ottesen A, McDonald D, Knight R; *mSystems*, 2016, **1**(3). <http://msystems.asm.org/content/msys/1/3/e00050-16.full.pdf>
15. **Biofortified β -carotene rice improves vitamin A intake and reduces the prevalence of inadequacy among women and young children in a simulated analysis in Bangladesh, Indonesia, and the Philippines.** De Moura FF, Moursi M, Donahue Angel M, Angeles-Agdeppa I, Atmarita A, Gironella GM, Muslimatun S, Carriquiry A; *The American Journal of Clinical Nutrition*, 2016, **104**(3):769-775. <http://ajcn.nutrition.org/content/104/3/769.full.pdf>

16. **Biological Status and Dietary Intakes of Iron, Zinc and Vitamin A among Women and Preschool Children in Rural Burkina Faso.** Martin-Prevel Y, Allemand P, Nikiema L, Ayassou KA, Ouedraogo HG, Moursi M, De Moura FF; *PLoS One*, 2016, **11**(3):e0146810.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4798773/pdf/pone.0146810.pdf>

17. **The Biology of Nutrients: Genetic and Molecular Principles**, Choudhuri S, Chanderbhan R. In: *Nutraceuticals: Efficacy, Safety and Toxicity* (Chap. 17). Ed. Gupta RC, Academic Press, 2016: 209-226. <http://dx.doi.org/10.1016/B978-0-12-802147-7.00017-6>

18. **Biology-Inspired Microphysiological system Approaches to Solve the Prediction Dilemma of Substance Testing.** Marx U, Andersson TB, Bahinski A, Beilmann M, Beken S, Cassee FR, Cirit M, Daneshian M, Fitzpatrick S, Frey O, Gaertner C, Giese C, Griffith L, Hartung T, Heringa MB, Hoeng J, de Jong WH, Kojima H, Kuehn J, Leist M, Luch A, Maschmeyer I, Sakharov D, Sips AJ, Steger-Hartmann T, Tagle DA, Tonevitsky A, Tralau T, Tsyb S, van de Stolpe A, Vandebriel R, Vulto P, Wang J, Wiest J, Rodenburg M, Roth A; *ALTEX*, 2016.
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19. **The *C. elegans* model in toxicity testing.** Hunt PR; *Journal of Applied Toxicology*, 2017, **37**(1):50-59. <http://onlinelibrary.wiley.com/doi/10.1002/jat.3357/epdf>

20. **Case Studies and Outbreaks: Fresh Produce**, Papafragkou E, Hida K. In: *Viruses in Foods* Ed. Goyal SM, Cannon JL, Springer International Publishing, 2016: 165-184.
http://link.springer.com/chapter/10.1007%2F978-3-319-30723-7_6

21. **Characterization of Antibodies for Grain-Specific Gluten Detection.** Sharma GM, Rallabhandi P, Williams KM, Pahlavan A; *J Food Sci*, 2016, **81**(3):T810-T816.
<http://onlinelibrary.wiley.com/doi/10.1111/1750-3841.13241/pdf>

22. **Characterization of Shiga Toxin Subtypes and Virulence Genes in Porcine Shiga Toxin-Producing *Escherichia coli*.** Baranzoni GM, Fratamico PM, Gangiredla J, Patel I, Bagi LK, Delannoy S, Fach P, Boccia F, Anastasio A, Pepe T; *Front Microbiol*, 2016, **7**:574.
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4838603/pdf/fmicb-07-00574.pdf>

23. **Characterizing "Adversity" of Pathology Findings in Nonclinical Toxicity Studies: Results from the 4th ESTP International Expert Workshop.** Palazzi X, Burkhardt JE, Caplain H, Dellarco V, Fant P, Foster JR, Francke S, Germann P, Groters S, Harada T, Harleman J, Inui K, Kaufmann W, Lenz B, Nagai H, Pohlmeier-Esch G, Schulte A, Skydsgaard M, Tomlinson L, Wood CE, Yoshida M; *Toxicologic Pathology*, 2016, **44**(6):810-824.
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24. **Characterizing variances of milk powder and instrumentation for development of a nontargeted, Raman spectroscopy and chemometrics detection method for evaluation of authenticity.** Karunathilaka SR, Farris S, Mossoba MM, Moore JC, Yakes BJ; *Food Additives & Contaminants: Part A*, 2016, **33**(6):921-932.
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25. **A Collaborative Study: Determination of Mycotoxins in Corn, Peanut Butter, and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography–Tandem Mass Spectrometry (LC-MS/MS).** Zhang K, Schaab MR, Southwood G, Tor ER, Aston LS, Song W, Eitzer B, Majumdar S, Lapainis T, Mai H, Tran K, El-Demerdash A, Vega V, Cai Y, Wong JW, Krynskiy AJ, Begley TH; *J Agric Food Chem*, 2017, **65**(33):7138-7152.
<http://pubs.acs.org/doi/pdfplus/10.1021/acs.jafc.6b04872>
26. **Comparative evaluation of direct plating and most probable number for enumeration of low levels of *Listeria monocytogenes* in naturally contaminated ice cream products.** Chen Y, Pouillot R, Burall LS, Strain EA, Van Doren JM, De Jesus AJ, Laasri A, Wang H, Ali L, Tatavarthy A, Zhang G, Hu L, Day J, Sheth I, Kang J, Sahu S, Srinivasan D, Brown EW, Parish M, Zink DL, Datta AR, Hammack TS, Macarasin D; *International Journal of Food Microbiology*, 2017, **241**:15-22.
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29. **Comparison of 2 methods for estimating the prevalences of inadequate and excessive iodine intakes.** Juan W, Trumbo PR, Spungen JH, Dwyer JT, Carriquiry AL, Zimmerman TP, Swanson CA, Murphy SP; *Am J Clin Nutr*, 2016, **104**(Supplement 3):888S-897S.
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31. **Comparison of Multiple Methods for the Determination of Sulfite in *Allium* and *Brassica* Vegetables.** Robbins Carlos KS, de Jager LS; *Food Additives & Contaminants: Part A*, 2016, **33**(10):1509-1517. <http://www.tandfonline.com/doi/pdf/10.1080/19440049.2016.1229869>
32. **Comparison of RNA extraction kits for the purification and detection of an enteric virus surrogate on green onions via RT-PCR.** Xu R, Shieh YC, Stewart DS; *Journal of Virological Methods*, 2017, **239**:61-68. <http://www.sciencedirect.com/science/article/pii/S0166093416302889>
33. **Complete Genome and Methylome Sequences of *Salmonella enterica* subsp. *enterica* Serovar Panama (ATCC 7378) and *Salmonella enterica* subsp. *enterica* Serovar Sloterdijk (ATCC 15791).** Yao K, Muruvanda T, Roberts RJ, Payne J, Allard MW, Hoffmann M; *Genome Announc*, 2016, **4**(2). <http://genomea.asm.org/content/4/2/e00133-16.full.pdf>
34. **Complete Genome and Methylome Sequences of Two *Salmonella enterica* spp.** Yao K, Muruvanda T, Roberts RJ, Payne J, Allard MW, Hoffmann M; *Genome Announc*, 2016, **4**(1). <http://genomea.asm.org/content/4/1/e01599-15.full.pdf>
35. **Complete Genome Sequence and Methylome of *Salmonella enterica* subsp. *enterica* Cerro, a Frequent Dairy Cow Serovar.** Haley BJ, Pirone C, Muruvanda T, Brown E, Allard M, Karns JS, Van Kessel JA; *Genome Announc*, 2016, **4**(1). <http://genomea.asm.org/content/4/1/e01350-15.full.pdf>
36. **Complete Genome Sequence of Human Norovirus GII.4_2006b, a Variant of Minerva 2006.** Yang Z, Mammel MK, Kulka M; *Genome Announc*, 2016, **4**(1). <http://genomea.asm.org/content/4/1/e01648-15.full.pdf>
37. **Complete Genome Sequence of Human Norovirus Strain GII.P7-GII.6 Detected in a Patient in the United States in 2014.** Yang Z, Vinje J, Elkins CA, Kulka M; *Genome Announc*, 2016, **4**(5). <http://genomea.asm.org/content/4/5/e01211-16.full.pdf>
38. **Complete Genome Sequences of Four Enterohemolysin-Positive (*ehxA*) Enterocyte Effacement-Negative Shiga Toxin-Producing *Escherichia coli* Strains.** Lorenz SC, Kotewicz ML, Hoffmann M, Gonzalez-Escalona N, Fischer M, Kase JA; *Genome Announc*, 2016, **4**(5). <http://genomea.asm.org/content/4/5/e00846-16.full.pdf>
39. **Comprehensive Laboratory Evaluation of a Highly Specific Lateral Flow Assay for the Presumptive Identification of *Bacillus anthracis* Spores in Suspicious White Powders and Environmental Samples.** Ramage JG, Prentice KW, DePalma L, Venkateswaran KS, Chivukula S, Chapman C, Bell M, Datta S, Singh A, Hoffmaster A, Sarwar J, Parameswaran N, Joshi M, Thirunavkkarasu N, Krishnan V, Morse S, Avila JR, Sharma S, Estacio PL, Stanker L, Hodge DR,

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