CFSAN Science Publications – 2019

The following is a list of scientific publications, from January 1 – December 31, 2019, 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 2019. 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. **Acrylamide levels and dietary exposure from foods in the United States, an update based on 2011-2015 data**. Abt E, Robin LP, McGrath S, Srinivasan J, DiNovi M, Adachi Y, Chirtel S; *Food Additives & Contaminants: Part A,* 2019, **36**(10):1475-1490. https://www.tandfonline.com/doi/pdf/10.1080/19440049.2019.1637548

2. **Additives, Inks and Other Migrant Substances in Food Contact Materials**, Paseiro-Cerrato R, Dejager L, Begley TH. In: *Food Contact Materials Analysis: Mass Spectrometry Techniques* (Chapter 3). Ed. Suman M, The Royal Society of Chemistry, 2019: 48-81. https://pubs.rsc.org/en/Content/Chapter/9781788012973-00048/978-1-78801-297-3

3. **All for one and one for all: the true potential of whole-genome sequencing**. Allard MW, Stevens EL, Brown EW; *The Lancet Infectious Diseases,* 2019, **19**(7):683-684. https://www.sciencedirect.com/science/article/pii/S1473309919301720/pdf

4. **Analysis and Occurrence of MCPD and Glycidyl Esters in Infant Formulas and Other Complex Food Matrices**, Beekman JK, Granvogl M, MacMahon S. In: *Food-Borne Toxicants: Formation, Analysis, and Toxicology* (Chapter 5). Eds. Granvogl M, MacMahon S., American Chemical Society, 2019: 67-90. https://pubs.acs.org/doi/pdf/10.1021/bk-2019-1306.ch005

5. **Analysis of Pesticides in Plant Foods by QuEChERS and Gas Chromatography–Mass Spectrometry: An Undergraduate Laboratory Experiment**. Hengel MJ, Wong JW, Redman ZC, Rering C, Williams KL; *Journal of Chemical Education,* 2020, **97**(1):226-233. https://pubs.acs.org/doi/pdf/10.1021/acs.jchemed.9b00476

6. **Application of Computational Methods for the Safety Assessment of Food Ingredients**, Volarath P, Zang Y, Kabadi SV. In: *Advances in Computational Toxicology: Methodologies and Applications in Regulatory Science* (Chapter 12). Ed. Hong H, Springer International Publishing, 2019: 233-257. https://link.springer.com/chapter/10.1007%2F978-3-030-16443-0_12

7. **Assessment of Behavioral Dysfunction Following Experimental Traumatic Brain Injury (TBI)**, Kabadi SV, Byrnes KR. In: *Basic Neurobiology Techniques* (Chapter 13). Ed. Wright NJD, Springer US, 2020: 315-349. https://link.springer.com/content/pdf/10.1007%2F978-1-4939-9944-6_13.pdf

8. **Assessment of the Impact of Accelerated Migration Testing for Coated Food Cans Using Food Simulants**. Paseiro-Cerrato R, DeJager L, Begley TH; *Molecules,* 2019, **24**(17):3123. https://www.mdpi.com/1420-3049/24/17/3123/pdf

9. **Associations of Environmental Conditions and *Vibrio parahaemolyticus* Genetic Markers in Washington State Pacific Oysters**. Flynn A, Davis BJK, Atherly E, Olson G, Bowers JC, DePaola A, Curriero FC; *Frontiers in Microbiology,* 2019, **10**(2797). https://www.frontiersin.org/articles/10.3389/fmicb.2019.02797/pdf

10. **Bactericidal effects and accelerated wound healing using Tb_4O_7 nanoparticles with intrinsic oxidase-like activity**. Li C, Sun Y, Li X, Fan S, Liu Y, Jiang X, Boudreau MD, Pan Y, Tian X, Yin J-J; *Journal of Nanobiotechnology,* 2019, **17**(1):54. https://jnanobiotechnology.biomedcentral.com/track/pdf/10.1186/s12951-019-0487-x

11. **Bioactive ingredients in infant formula: The value for a robust interdisciplinary discussion on safety assessment paradigm**. Kaneko KJ, Fasano J, Choudhuri S; *The Journal of Pediatrics,* 2020, **216**:250-251. https://www.sciencedirect.com/science/article/pii/S0022347619310935/pdf

12. **Bioanalysis for precision medicine**. Yang S, Yang Z, Wang PG; *Bioanalysis,* 2019, **11**(11):1039-1043. https://www.future-science.com/doi/pdf/10.4155/bio-2019-0106

13. **Biocatalytic Detoxification of Paralytic Shellfish Toxins**. Lukowski AL, Denomme N, Hinze ME, Hall S, Isom LL, Narayan ARH; *ACS Chemical Biology,* 2019, **14**(5):941-948. https://pubs.acs.org/doi/pdf/10.1021/acschembio.9b00123

14. **Bioinformatic discovery of a toxin family in *Chryseobacterium piperi* with sequence similarity to botulinum neurotoxins**. Mansfield MJ, Wentz TG, Zhang S, Lee EJ, Dong M, Sharma SK, Doxey AC; *Scientific Reports,* 2019, **9**(1):1634. https://www.nature.com/articles/s41598-018-37647-8.pdf

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16. **Bio-Plex suspension array immuno-detection of *Listeria monocytogenes* from cantaloupe and packaged salad using virulence protein inducing activated charcoal enrichment media**. Day JB, Hammack TS; *Food Microbiology,* 2019, **84**:103225. https://www.sciencedirect.com/science/article/pii/S0740002018311857/pdf

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22. **Characterization and Control of *Erwinia* spp. and *Pluralibacter* sp. in Tuna Salad Preparations**. Bjornsdottr-Butler K, McCarthy S, Ronald A. Benner J; *Journal of Food Protection,* 2019, **82**(6):1071-1081. https://jfoodprotection.org/doi/pdf/10.4315/0362-028X.JFP-18-506

23. **Characterization of *Salmonella enterica* Isolates from Selected U.S. Swine Feed Mills by Whole-Genome Sequencing**. Trinetta V, Magossi G, Allard MW, Tallent SM, Brown EW,

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