Publications - JLRG

Publications

1. I.Y. Kim, J.A. Young, N.W. Gunther IV, and **J.L. Lee**. Inhibition of Salmonella by bacteriocin-producing lactic acid bacteria derived from US Kimchi and broiler chicken. *Journal of Food Safety*. 2014. Accepted.

2. M.E. Hickey, G.M. Accumanno, D.M. McIntosh, G.S. Blank, and **J.L. Lee**. Comparison of extracellular DNase- and protease-producing spoilage bacteria isolated from Delaware pond-sourced and retail channel catfish (*Ictalurus punctatus*). *Journal of the Science of Food and Agriculture*. 2014. Accepted.

3. M.E. Hickey, G.P. Richards, and **J.L. Lee**. Development of a two-step, non-probed multiplex real-time PCR for surveilling *Vibrio anguillarum* in seawater. *Journal of fish diseases*. 2014. DOI: 10.1111/jfd.12264.

4. I.Y. Kim and **J.L. Lee**. Multipurpose assessment for the quantification of *Vibrio* spp. and total bacteria in fish and seawater using multiplex real-time PCR. *Journal of the Science of Food and Agriculture*. 2014. DOI: 10.1002/jsfa.6699.

5. M.E. Hickey, S.A. Bessong, V. Kalavacharla, and **J.L. Lee**. Identification of extracellular DNase-producing bacteria populations on catfish fillets during refrigerated storage. *Food Science and Biotechnology*. 2013. 22:87-92.

6. T. Lingham, S.A. Bessong, G. Ozbay and **J.L. Lee**. Antimicrobial activity of vinegar on bacterial species isolated from retail and local channel catfish (*Ictalurus punctatus*). *Journal of Food Processing and Technology*. 2012. DOI: 10.4172/2157-7110.S11-003.

7. K.D. Maull, M.E. Hickey, and **J.L. Lee**. The Study and Identification of Bacterial Spoilage Species Isolated from Catfish during Refrigerated Storage. *Journal of Food Processing and Technology*. 2012. DOI: 10.4172/2157-7110.S11-003.

8. S.C. Moon and **J.L Lee**. Electrospun poly (ethylene oxide)/hydrated iron oxide /sodium alginate composite nanofibers with multi-functional properties. *Polymer Engineering and Science*. 2013. 53: 1321-1326.

9. **J.L. Lee** and R.E. Levin. Detection of 5 CFU/g of *Escherichia coli* O157:H7 on lettuce using activated charcoal and real-time PCR without enrichment. 2011. *Food Microbiology*. 2011. 28: 562-567.

10. **J.L. Lee** and R.E. Levin. Selective-detection of mixed bacterial survivors from fish fillets after freezing and thawing by ethidium bromide monoazide real-time PCR. *Food Biotechnology*. 2010. 24: 270-281.

11. **J.L. Lee** and R.E. Levin. Discrimination of viable and dead *Vibrio vulnificus* after refrigerated and frozen storage using EMA, sodium deoxycholate and real-time PCR. *Journal of Microbiological Methods*. 2009. 79: 184-188.

12. **J.L. Lee** and R.E. Levin. Improved detection of g-irradiated *Vibrio vulnificus* after heat and cold shock treatment by using ethidium monoazide real-time PCR. *Food Science and Biotechnology*. 2009. 18: 788-792.

13. **J.L. Lee** and R.E. Levin. Detection of *Vibrio vulnificus* before and after g-irradiation in quahog clams (*Mercenaria mercenaria*) tissue using real-time polymerase chain reaction. *Food Biotechnology*. 2009. 23: 121-132.

14. **J.L. Lee** and R.E. Levin. A comparative study of the ability of EMA and PMA to distinguish viable from heat killed mixed bacterial flora from fish fillets. *Journal of Microbiological Methods*. 2009. 76: 93-96.

15. **J.L. Lee** and H.Y. Kim. Expression and iron storage properties of recombinant human ferritins in *Escherichia coli*:Relevance for functional ferritins in food systems. *Food Biotechnology*. 2008. 22: 149-149.

16. **J.L. Lee** and R.E. Levin. New approach for discrimination of g-irradiated *Vibrio vulnificus* by using Real-time polymerase chain reaction. *Journal of Microbiological Methods*. 2008. 73: 1-6.

17. **J.L. Lee** and R.E. Levin. and H. Y. Kim. Improved co-expression and multi-assembly properties of recombinant human ferritin subunit in *Escherichia coli*. *J. Microbiol. Biotechnol*. 2008. 18: 926-932.

18. **J.L. Lee** and R.E. Levin. Discrimination of g-irradiated *Vibrio vulnificus* by using ethidium monoazide real-time polymerase chain reaction. *Journal of Applied Microbiology*. 2008. 104: 728-734.

19. **J.L. Lee** and R.E. Levin. Quantification of total viable bacteria on fish fillets by using ethidium monoazide Real-time polymerase chain reaction. *International Journal of Food Microbiology*. 2007. 118: 312-317.

20. **J.L. Lee**, C.S. Park., and H.Y. Kim. Functional assembly of recombinant human ferritin subunits in *Pichia pastoris*. *J. Microbiol. Biotechnol*. 2007. 17: 1685-1690.

21. **J.L. Lee** and R.E. Levin. Rapid quantification of total bacteria on cod fillets by using real-time PCR. *Journal of Fisheries Sciences*. 2007. 1: 58-67.

22. **J.L. Lee** and R.E. Levin. Selection of universal primer for quantification of total bacteria associated with fish fillets. *Food Biotechnology*. 2006. 20: 275- 285.

23. **J.L. Lee** and R.E. Levin. Direct application of the polymerase chain reaction for quantification of total bacteria on fish fillets. *Food Biotechnology*. 2006. 20: 287-298.

24. **J.L. Lee** and R.E. Levin. Use of ethidium bromide monoazide for quantification of viable and dead mixed bacterial flora from fish fillets by polymerase chain reaction. *Journal of Microbiological Methods*. 2006. 67: 456- 462.

25. **J. L. Lee**, S.N. Yang, C. S. Park, D. Jeoung, and H. Y. Kim. Purification and its glycosylation pattern of recombinant L-ferritin in *Pichia pastoris*. *J. Microbiol. Biotechnol*. 2004. 14: 68-73.

26. **J. L. Lee**, H. S. Song, H. J. Kim, J. H. Park., D. K. Chung., C. S. Park., D. Jeoung., and H. Y. Kim. Functional expression and production of human H-ferritin in *Pichia pastoris*. *Biotechnology Letters*. 2003. 25:1019-1023.

27. S. N. Yang, H. S. Song., **J. L. Lee** and H. Y. Kim. Selection of enhanced iron uptake yeast mutants by EMS mutagenesis. *Kor. J. Microbiol. Biotechnol*. 2003. 31: 435-438.

28. **J. L. Lee**., J. H. Park., I. S. Jung., D, Jeoung., S. K. Cho., H. Y. Kim. Purification and characterization of the recombinant human Iron Regulatory Protein 2 expressed in *Escherichia. coli*. *Agric. Chem.Biotechnol*. 2002. 45:117-120.

29. **J. L. Lee**, J. H. Park and H. Y. Kim. Identification of differentially expressed genes using RNA differential display. *Agric. Chem.Biotechnol*. 1999. 42: 123-127.

30. H. Y. Kim, I. S. Jung, and **J. L. Lee**. Regulation of ferritin synthesis in 5'-untranslated region by Iron Responsive Element. *Agric. Chem.Biotechnol.* 1998. 41: 224-227.

Presentations

1. **J.L. Lee**. Globalization of Korean Traditional Foods: Isolation of lactic acid bacteria from homemade Kimchi in Delmarva region and adoption if its probiotics properties for poultry and food safety in the USA. Korean Society of Food Science and Technology, Annual meeting. (2013, Cheonan, Korea).

2. **J.L. Lee** and J.Y. Kim. Optimization of multiplex real-time PCR assay for detection and quantification of *Vibrio* spp. and total bacteria. IAFP Annual meeting (2013, Charlotte, USA).

3. **J.L. Lee,** G. Accumanno. and M.E. Hickey. Isolation of DNase and protease producing bacteria on catfish spoilage. IAFP Annual meeting (2013, Charlotte, USA).

4. **J.L. Lee** and M.E. Hickey. Training and development of research-savvy undergraduate student through the multiplex real-time PCR assay. NACTA conference (2013, Blacksburg, USA).

5. **J.L. Lee**. Assaying the viability of spoilage bacteria and selectivity of r-irradiated Vibrio spp. in seafood using a PCR assay based on DNA amplification. Korean Society of Food Science and Technology Annual meeting (2011, Daegu, Korea).

6. **J. L. Lee**. Microbial evaluation of the freshness of cod fillet using real-time PCR for quantification of bacteria on fish fillets. UKC Annual meeting. (2009, Raleigh, USA).

7. **J. L. Lee** and R. E. Levin. Selective detection of mixed bacterial survivors from fish fillets after freezing and thawing by ethidium bromide monoazide real-time PCR. IFT Annual meeting.(2009,Anaheim,USA).

8. **J. L. Lee** and R. E. Levin. Discrimination of gamma (r)-irradiated & non irradiated *Vibrio vulnificus* in quahog clams (*Mercenaria mercenaria*) using real-time PCR. IFT Annual meeting. (2008, New Orleans,USA).

9. **J. L. Lee** and R. E. Levin. Discrimination of g-irradiated & non irradiated *Vibrio vulnificus* in quahog clams (*Mercenaria mercenaria*) using Real-Time Polymerase Chain Reaction. Annual Atlantic Fisheries Technology Conference. (2007,

Portland, USA).

10. **J. L. Lee** and R. E. Levin. Discrimination of g-irradiated & non r-irradiated *Vibrio vulnificus* using Real-Time Polymerase Chain Reaction. IFT Annual meeting. (2007, Chicago. USA).

11. **J. L. Lee**. Use of ethidium bromide monoazide (EMA) for quantification of viable and dead bacteria from fish fillets by PCR and real-time PCR. Cambridge Healthtech Institute's nucleic acid-based technologies conference. (2007, Baltimore, USA).

12. **J. L. Lee** and R. E. Levin. Quantification of total viable bacteria on fish fillets by

using PCR and EMA real-time PCR. Trans-Atlantic Fisheries Technology

Conference.(2006,Quebec, Canada).

13. **J. L. Lee** and R. E. Levin. Rapid quantification of viable total bacteria on fish

fillets by using ethidium bromide monoazide real-time PCR. IFT Annual meeting.

(2006, Orlando. USA).

14. **J.L. Lee**, and H. Y. Kim. Expression of recombinant human H-ferritin in *Pichia*

pastoris. CHI Conference (2004, San Diego, USA).

15. **J.L. Lee**, and H. Y. Kim. Functional expression of human L-ferritin in *Pichia pastoris*. Annual- Meeting of the Korean Society for Microbiology and Biotechnology, Bio Exhibition &International Symposium. (2003, Maju, Korea).

16. **J.L. Lee**, and H. Y. Kim. Expression of human H-and L-ferritin in *Pichia pastoris*. Annual Meeting of the Korean society for microbiology and biotechnology. (2001, Fall, Sang-Rok, Korea).

17. **J.L. Lee**, and H. Y. Kim. The constriction of bicistronic expression vector for

studying human ferritin heteropolymers. Annual Meeting of the Korean Society

for Applied Biological Chemistry. (2000, Spring, Young-Nam National Univ,

Korea).

18. **J.L. Lee**, and H. Y. Kim. Overexpression of recombinant ferritins in *E. coli*. Annual Meeting of the Korean Society of Food Science & Technology. (1999, Fall, Kyung-Hee Univ, Korea).

19. **J.L. Lee**, and H. Y. Kim. Characterization of the recombinant Human H-L-Ferritin. Annual Meeting of the Korean Society for Applied Biological Chemistry. (1999, Spring, Kang-Won National Univ, Korea).

20. **J.L. Lee**, J. H. Park, and H. Y. Identification of differentially expressed genes using RNA differential display. Annual Meeting of the Korean Society for Biochemistry and Molecular Biology. (1999, Spring, A-Ju Univ, Korea).

21. **J.L. Lee** and H. Y. Kim. Expression and purification of human Ferritin in

Escherichia. coli. Annual Meeting of the Korean Society for Biochemistry and

Molecular Biology. (1999, Spring, A-Ju Univ, Korea).

22. **J.L. Lee** and H. Y. Kim. Characterization of Iron-regulated proteis in iron

metabolism. Annual Meeting of the Korean Society for Molecular and Cellular

Biology. (1998, Seoul National Univ, Korea).

23. **J.L. Lee** and H. Y. Kim. Characterization of Nramp2 as an iron transport protein.

Annual Meeting of the Korean Society for Biochemistry and Molecular Biology.

(1998, Fall, KAIST, Korea).

24. **J.L. Lee** and H. Y. Kim. Structure and function of the iron responsive element.

Annual Meeting of the Korean Society for Biochemistry and Molecular Biology.

(1998, Spring, Korea Univ, Korea).

25. **J.L. Lee** and H. Y. Kim. Binding characterization of iron regulatory protein to

RNA ligand. Annual Meeting of the Korean Society for Applied Biological

Chemistry. (1997, Seoul National Univ, Korea).

Source URL: http://www.desu.edu/agriculture-and-related-sciences/publications-jlrg