

## **KwangCheol Casey Jeong, Ph. D.**

Associate Professor of Microbiology/Food safety  
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### **EDUCATION**

- Ph. D. University of Wisconsin-Madison, Department of Food Microbiology and Toxicology with Bacteriology minor, Madison, Wisconsin (2004)
- M. S. Chonnam National University, Dept. of Food Science and Technology, Gwangju, Korea (1998)
- B. S. Chonnam National University, Dept. of Food Science and Technology, Gwangju, Korea (1996)

### **PROFESSIONAL EXPERIENCE**

- Associate Professor, Dept. of Animal Sciences & Emerging Pathogens Institute, U. of Florida (July 2017 – present)
- Assistant professor, Dept. of Animal Sciences & Emerging Pathogens Institute, U. of Florida (March 2011 – June 2017)
- Faculty of Graduate school, University of Florida (2011 – present)
- Faculty of Animal Molecular and Cellular Biology Graduate Program, University of Florida (2011 – present)
- Faculty of One Health Center of Excellence for Research and Training, University of Florida (2011 – present)
- Adjunct Professor, Seoul National University, Korea (2017 – present)
- International Scholar Professor, KyungHee University, Korea (2017 – present)
- Adjunct Professor, Korea University, Korea (2015 – 2016)
- Postdoc, Department of Bacteriology, University of Wisconsin-Madison (July 2010 – March 2011)
- Postdoc, Department of Molecular Microbiology, Washington University in St. Louis, School of Medicine (June 2005 – June 2010)
- Postdoc, Food Research Institute, University of Wisconsin-Madison (Jan. 2005 – May 2005)
- Graduate Research Assistant, Department of Food Microbiology and Toxicology, University of Wisconsin-Madison (Aug. 2000 – Dec. 2004)
- Teaching Assistant, Department of Food Science, University of Wisconsin-Madison (Jan. 2003 – May 2003)

### **HONORS AND AWARDS**

- Doctoral Dissertation Advisor/Mentoring Award Nominee, CALS, University of Florida, 2018
- University Term Professorship Award, University of Florida, 2017
- Excellence Awards for Assistant Professors nominee, University of Florida, 2016
- Gamma Sigma Delta Junior Faculty Award nominee, 2015
- International Educator Awards Nominee, University of Florida, 2014
- International Educator of the Year, CALS, University of Florida, 2014
- Sigma Xi, Junior Faculty Research Award, University of Florida Chapter, 2014
- Career development award, Institute of Food and Agricultural Sciences, University of Florida. 2013
- The Laboratorian of the year-2012, Florida Association of Food Protection. 2013
- Berg/Morse Fellowship Award, Washington University in St. Louis, School of Medicine. 2007

### **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

- Member, American Society for Microbiology (1996 – present)
- Fellow, Faculty1000 (2010 – present)
- Member, Korean-American Scientists and Engineers Association (2011 – present)
- Member, International Association for Food Protection (2013 – present)

- Board Member, R&D planning/evaluation board of Ministry of Trade, Industry and Energy (MOTIE) in Korea (2013 – 2017)
- Member, Institute of Food Technologists (2014 – present)
- Editor, Journal of Agricultural Chemistry and Environment (2011- present)
- Editor, Frontiers in Microbiology (2018 – present)
- Medical Research Council (UK) Grant Reviewer, 2018
- International Reviewer for College Evaluation, China Agricultural University. Jul. 2-5, China
- Foundation of Food and Agriculture Research (FFAR) Grant Reviewer, 2017 & 2018
- USDA-NIFA Grantsmanship workshop mentor, Delaware State University, May 11, 2017
- USDA-NIFA Antimicrobial Resistance Program Grant Review Panel, Nov. 15-18, 2016
- USDA-NIFA Nanotechnology Program Grant Review Panel, Oct. 5-9, 2015
- Convener, Antimicrobials, General Microbiology, Meat and Poultry session during 2013 International Association for Food Protection meeting, Charlotte, NC. July 2013
- Convener, Risk assessment session during 2013 International Association for Food Protection meeting, Charlotte, NC. July 2013
- Steering committee, 97<sup>th</sup> Southeastern Branch of American Society for Microbiology meeting, Gainesville, FL. Oct. 20-23, 2011

### **UNIVERSITY GOVERNANCE AND SERVICE**

- Korean-American Scientists and Engineers Association Gainesville Chapter, Financial Director, 2014- 2016.
- Member of the Search Committee for Food Virologist position, Department of Food Science and Human Nutrition. 2017.
- Member of the Search Committee for the department chair position of Department of Food Science and Human Nutrition. 2011 – 2012.
- CALS honors program advisor. 2012 – present.
- IFAS International Awards Evaluation committee. Oct. 2012 – Dec 2012.
- Teaching evaluation committee for Dr. S. Ahn (Food Science and Human Nutrition Dept.).
- Member of the Search Committee for beef cattle reproductive physiology position, Department of Animal Sciences. 2017-2018.
- Member of the Mentoring Committee for Junior faculty members (Dr. Jason Scheffler and Dr. Francisco Peñagaricano), 2017 – present.
- Member of the Search Committee for Research Assistant Scientist position, D. of Animal Sciences. 2015.
- Member of the Search Committee for Muscle biology position, D. of Animal Sciences. 2013-2014.
- IT committee, Department of Animal Sciences. 2013 – present.
- Member of the Search Committee for Research Assistant Scientist position, D. of Animal Sciences. 2014.
- Member of the Search Committee for Equine Physiology position, D. of Animal Sciences. 2012-2013.

### **AREAS OF SPECIALIZATION**

My ultimate research goal is to reduce pathogens in animals and humans, focusing on the mitigation of zoonotic pathogens to enhance food safety, to mitigate pathogen transmissions, and to reduce antimicrobial resistance. The research fits under the umbrella of the One Health concept. Basic science focuses on developing understanding of the molecular mechanisms of antimicrobial resistance, colonization, host-microbe interactions, and survival of pathogens in hosts. The following areas are priorities: i) Microbiology with food safety emphasis, ii) Host-microbe interaction to understand mechanisms that cause disease in hosts, iii) High throughput analyses including whole genome sequencing and metagenomics to identify and understand genetic factors that are required for survival and persistence in hosts and environments, iv) Determination of animal factors that modulate the survival of pathogens during infection, v) Antimicrobial resistance: prevalence, mechanisms of antimicrobial resistance development, and transmission, vi) Development of mitigation strategies for antimicrobial resistance that also leads to a reduced use of antibiotics, and vii) Shiga toxin-producing *Escherichia coli*: prevalence, transmission, persistence, and factors that affect prevalence of this pathogen.

## **PUBLICATIONS**

### **A. Peer-reviewed Journal Articles**

1. Fan, Peixin, C. Nelson, M. Elzo, and **K.C. Jeong**. 2019. Role of host genetics in shaping early gut microbiota revealed by using a crossbred bovine model. *Submitted*.
2. Lee, S., R.K. Boughton, and **K.C. Jeong**. 2019. High prevalence and genomic characteristics of multi-drug resistant ESBL-producing pathogens in livestock and wildlife. 2019. *Submitted*.
3. Lee, S., R. Mir, S. Park, D. Kim, H.Y. Kim, R.K. Boughton, J.G. Morris, Jr., and **K.C. Jeong**. 2019. Increasing prevalence of ESBLs in the environment and livestock: challenges to mitigate antimicrobial resistance. *Submitted*.
4. Ma, Z, S. Lee, P. Fan, J. Lim, K. Galvao, C. Nelson, and **K.C. Jeong**. 2019. Diversity of beta-lactam antibiotic resistant bacteria in mastitic cows and its potential association with antibiotic treatment failure. *Submitted*.
5. Teng, L., S. Lee, g. Amber, S. Markland, R. Mir, N. DiLorenzo, C. Boucher, M. Prosperi, J.G. Morris, Jr., **K.C. Jeong**. 2019. Genomic comparison reveals natural occurrence of clinically relevant multi-drug resistant ESBL-producing *Escherichia coli*. *Submitted*.
6. Ghosal, D.\*, **K.C. Jeong**\*, Y.W. Chang, J. Gyore, L. Teng, A. J.P. Vogel, and G.J. Jensen. 2019. Polar targeting, assembly and molecular organization of the *Legionella* Dot/Icm T4SS. *Nat. Microbiol. Accepted*.  
\* *Co-first author*.
7. Markland, S., Thomas A. Weppelmann, Zhengxin Ma, Shinyoung Lee, Raies A. Mir, Lin Teng, Amber Ginn, Choonghee Lee, Maria Ukhanova, Sebastian Galindo, Chad Carr, Nicolas DiLorenzo, SooHyoun Ahn, Jae Hyung Mah, Volkar Mai, Mobley Ray, J Glenn Morris, and **K.C. Jeong**. 2019. High Prevalence of Cefotaxime Resistant Bacteria in grazing Beef Cattle: A Cross Sectional Study. *Frontiers in Microbiology*. 10:176
8. Piersanti, R.L., Zimpel, R., Molinari, P.C.C., Dickson, M.J., Ma, Z.X., **Jeong, K.C.**, Santos, J.E.P., Sheldon, I.M., and Bromfield, J.J., 2019. A model of clinical endometritis in Holstein heifers using pathogenic *Escherichia coli* and *Trueperella pyogenes*. *J. Dairy Sci.* 102:1-12.
9. Dai, Xiaoxia, Eduardo Paula, Lelis Januario, Laura Ana; Lorryny Silva, Virginia Brandao, Hugo Monteiro, Peixin Fan, Simon Poulson, **K.C. Jeong**, and Antonio Faciola. 2019. Effects of lipopolysaccharide dosing on bacterial community composition and fermentation in a dual-flow continuous culture system. *J. Dairy Sci.* 102:334-350.
10. Ma, Zhengxin, A. Ginn, M.Y. Kang, K.N. Galvao, and **K.C. Jeong**. 2018. Genomic and virulence characterization of intrauterine pathogenic *Escherichia coli* with multi-drug resistance isolated from cow uteri with metritis. *Frontiers in Microbiology*. 9:3117.
11. Alejandro Garrido-Maestu, Zhengxin Ma, Sae-Yeol-Rim Paik, Nusheng Chen, Sanghoon Ko, Zhaohui Tong, **K.C. Jeong**. 2018. Engineering of Chitosan-derived nanoparticles to enhance antimicrobial activity against foodborne pathogen *Escherichia coli* O157:H7. *Carbohydrate polymers*. 197:623-630.
12. Mir, R., T.A. Weppelmann, L. Teng, A. Kirpich, M.A. Elzo, J.D. Driver, and **K.C. Jeong**. 2018. Colonization Dynamics of Cefotaxime Resistant Bacteria in Beef Cattle Raised Without Cephalosporin Antibiotics. *Frontiers in Microbiol.* 9:1-12.
13. **Jeong, K.C.** J. Gyore, L. Teng, D. Ghosal, G.J. Jensen, J.P. Vogel. 2018. Polar targeting and assembly of the *Legionella* Dot/Icm type IV secretion system (T4SS) by T6SS-related components. *bioRxiv*. doi: <https://doi.org/10.1101/315721>.
14. Ghosal, D. Yi-Wei Chang, **K.C. Jeong**, J.P. Vogel, G. Jensen. 2018. Molecular architecture of the *Legionella* Dot/Icm type IV secretion system. *bioRxiv*. doi: <http://dx.doi.org/10.1101/312009>.
15. Belli, A.L., A. Veronese, R. Moreira, K. Flanagan, M. Ballou, J. Clapper, J. Driver, C. Nelson, Corwin; **K.C. Jeong**, R. Ricardo. 2018. Effects of treatment of pre-weaned dairy calves with recombinant bovine somatotropin on immune responses and somatotropic axis. *J. Dairy Sci.* 101:1-14.
16. Rothrock, M., Peixin Fan, **K.C. Jeong**, Sun Ae Kim, Steven Ricke, and Si Hong Park. 2018. Genome sequences of a *Listeria monocytogenes* strain isolated from pastured flock poultry farm system. *genomeA*. 6(10). E00171-18. doi: 10.1128/genomeA.00171-18.

17. Van Bruggen, AHC. M.M. He, K. Shin, V. Mai, **K.C. Jeong**, M.R. Finckh, J. G. Morris. 2018. Environmental and health effects of the herbicide glyphosate. *Science of The Total Environment*. 616:255-268.
18. Lee, SY. M.J. Kim, H.J. Kim, **K.C. Jeong**, H.Y. Kim. 2018. Simultaneous detection of four foodborne viruses in food samples using a one-step multiplex PCR. *J. Microbiol. Biotechnol.* doi: 10.4014/jmb.1710.10008.
19. Ogunade IM, Jiang Y, Pech Cervantes AA, Kim DH, Oliveira AS, Vyas D, Weinberg ZG, **Jeong KC**, Adesogan AT. 2018. Bacterial diversity and composition of alfalfa silage as analyzed by Illumina MiSeq sequencing: Effects of *Escherichia coli* O157:H7 and silage additives. *J. Dairy Sci.* doi: 10.3168/jds.2017-12876.
20. Ma, Z.X., A. Garrido-Maestu, C. Lee, J. Chon, D. Jeong, Y. Yue, K. Sung, Y. Park, and **K.C. Jeong**. 2018. Comprehensive *in vitro* and *in vivo* evaluation of chitosan microparticles for risk assessments using epithelial cells and *Caenorhabditis elegans*. *Hazardous Materials. J. Hazardous Materials*. 341:248-256.
21. Ma Z.X., A. Garrido-Maestu, and **K.C. Jeong**. 2017. Application, Mode of Action, and In Vivo Activity of Chitosan and its Micro- and Nanoparticles as Antimicrobial Agents: A Review. *Carbohydrate polymers*.176:257-265.
22. Ma, Z.X., A. Felipe, J. Romero, O. Pereira, **K.C. Jeong**, and A.T. Adesogan. 2017. The capacity of silage inoculant bacteria to bind aflatoxin B1 *in vitro* and in contaminated corn silage. *J. Dairy Sci.* 100:7198-7210.
23. Fan Y., A. Ginn, M. Kang, A.C. Wright. 2017. Application of chitosan microparticles for mitigation of *Salmonella* in Agricultural water. *J. Appl. Microbiology*. August 17. DOI: 10.1111/jam.13566.
24. Vieira-Neto, A. IRP Lima, F Lopes, C Lopera, R Zimpel, LDP Sinedino, **K.C. Jeong**, K Galvão, WW Thatcher, CD Nelson, JEP Santos. 2017. Use of calcitriol to maintain postpartum blood calcium and improve immune function in dairy cows. *J. Dairy Sci.* 100:5805-5823.
25. **Jeong, K.C.**, D. Ghosal, Y. Chang, G.J. Jensen, and J.P. Vogel. 2017. Polar delivery of *Legionella* type IV secretion system substrates is essential for virulence. *Proc. Natl. Acad. Sci. USA*. 114:8077-8082.
26. Ghosal, D., Y. Chang, **K.C. Jeong**, J.P. Vogel, G.J. Jensen. 2017. Structure of the *Legionella* Dot/Icm type IV secretion system in situ by electro cryotomography. *EMBO Reports*. Mar 23. doi: 10.15252/embr.201643598.
27. Jeon, S.J., F. Cunha, A. Ginn, **K.C. Jeong**, and K. Galvao. 2017. Draft Genome Sequences of *Escherichia coli* Strains Isolated at Calving from the Uterus, Vagina, Vulva, and Rectoanal Junction of a Dairy Cow that Later Developed Metritis. *genomeA*. e01511-16. doi: 10.1128/genomeA.01511-16.
28. Ogunade, I., D. Kim, Y. Jiang, A. Cervantes, A. Pech; K. Arriola, D. Vyas, Z. Weinberg, **K.C. Jeong**, A.T. Adesogan. 2017. Fate of *E. coli* O157:H7 and bacterial diversity in corn silage contaminated with the pathogen and treated with chemical or microbial additives. *J. Dairy Sci.* 100:1780-1794.
29. Jeon, S.J., Z.X. Ma, M.Y. Kang, K. Galvão, and **K.C. Jeong**. 2016. Application of chitosan microparticles for treatment of metritis and *in vivo* evaluation of broad spectrum antimicrobial activity in cow uteri. *Biomaterials*. 110:71-80.
30. Jeon, S.J., F. Cunha, X. Ma, N. Martinez, A. Vieira-Neto, R. Daetz, R. Bicalho, S. Lima J.E. Santos, **K.C. Jeong**, and K.N. Galvao. 2016. Uterine microflora and immune parameters associated with fever in dairy cows with metritis. *PLoS One*, doi: 10.1371/journal.pone.0165740.
31. Daetz, R., F. Cunha, J. Bittar, C. Risco, F. Magalhaes, Y. Maeda, J.E. Santos, K.C. Jeong Jeong, R. Cooke, and K.N. Galvao. 2016. Clinical response after chitosan microparticle administration and preliminary assessment of efficacy in preventing metritis in lactating dairy cows. *J. Dairy Sci.* 99:8946-8955.
32. Mir R.A., T.A. Weppelmann, J. Johnson, D. Archer, J.G. Morris, and **K.C. Jeong**. 2016. Identification and characterization of cefotaxime resistant bacteria in beef cattle. *PLoS One*. doi: 10.1371/journal.pone.0163279.
33. Ma Z.X., D. Kim, A.T. Adesogan, S. Ko, K.N. Galvao, and **K.C. Jeong**. 2016. Chitosan microparticles exert broad spectrum antimicrobial activity against antibiotic resistant microorganisms without increasing resistance. *ACS Appl. Mater. Interfaces*. 8:10700-9.
34. Ginn A., Z.X. Ma, K.N. Galvao, and **K.C. Jeong**. 2016. Draft genome sequence of an *Escherichia coli* O8:H19 ST708 strain isolated from a Holstein dairy cow with metritis. *genomeA*. 4(2) e00261-16.

35. Teng L, A. Ginn, S.J. Jeon, and **K.C. Jeong**. 2016. Complete genome and plasmid sequence of an *E. coli* O157:H7 strain isolated from a supper-shedder steer. *genomeA*. 4(2) e00228-16.
36. Ogunade I., D. Kim, Y. Jiang; Z. Weinber, **K.C. Jeong**, A.T. Adesogan. 2016. Control of *Escherichia coli* O157:H7 in contaminated alfalfa silage: Effects of silage additives. *J. Dairy Sci.* 99:4427-36.
37. Gene P., D. Herzig, M. Aydin, S. Dunigan, P. Shah, **K.C. Jeong**, S.H. Park, S.C. Ricke and S. Ahn. 2016. Magnetic Bead-Based Immunoassay Coupled with Tyramide Signal Amplification for Detection of *Salmonella* in Foods. *J. Food Safety*. DOI:10.1111/jfs.12255.
38. Mir R.A., T.A. Weppelmann, M. Elzo, S. Ahn, J.D. Driver, and **K.C. Jeong**. 2016. Colonization of Beef Cattle by Shiga Toxin-producing *Escherichia coli* during the First year of Life: a Cohort Study. *PLoS One*. 10.1371/journal.pone.0148518.
39. Jeon SJ, Vieira-Neto A, Gobikrushanth M, Daetz R, Mingoti RD, Parize AC, de Freitas SL, da Costa AN, Bicalho RC, Lima S, **Jeong KC**, Galvão KN. 2015. Uterine Microbiota Progression from Calving until Establishment of Metritis in Dairy Cows. *Appl. Environ. Microbiol.* 81:6324-32.
40. **Jeong, K.C.** and J.P. Vogel. 2015. Spatiotemporal regulation of a *Legionella pneumophila* T4SS substrate by the metaeffector SidJ. *PLoS Pathogens*. doi: 10.1371/journal.ppat.1004695.
41. Fang, L., B. Wolmarans, M. Kang, **K.C. Jeong**, and A. Wright. 2015. Application of chitosan microparticles for reduction of *Vibrio* species in seawater and live oysters (*Crassostrea virginica*). *Appl. Environ. Microbiol.* 81:640-7.
42. **Jeong, K.C.** and J.P. Vogel. 2015. Novel export control of *Legionella* Dot/Icm substrate is mediated by dual, independent signal sequences. *Mol. Microbiol.* 96:175-88.
43. Mir, R.A., T.A. Weppelmann, M. Kang, T.M. Bliss, N. DiLorenzo, G.C. Lamb, and **K.C. Jeong**. 2015. Association between animal age and the prevalence of Shiga toxin-producing *Escherichia coli* in a cohort of beef cattle. *Vet. Microbiol.* 175:325-31.
44. Thompson, I.M.T., S. Tao, A.P. Monteiro, **K.C. Jeong**, G.E. Dahl. 2014. Effect of cooling during the dry period on immune response after *Streptococcus uberis* intramammary infection challenge of dairy cows. *J. Dairy Sci.* 97:7426-7436.
45. Li, Q., J.H. Brendemuhl, **K.C. Jeong**, and L. Badinga. 2014. Effects of dietary *omega*-3 polyunsaturated fatty acids on growth and immune response of weanling pigs. *J. Animal. Sci. Tech.* 56:7. doi: 10.1186/2055-0391-56-7.
46. Jeon, S., M. Oh, W. Yeo, K. Galvao, and **K.C. Jeong**. 2014. Underlying mechanism of antimicrobial activity of chitosan microparticles and implications for the treatment of infectious diseases. *PLoS One*. 10.1371/journal.pone.0092723.
47. Aydin, M., G. Herzig, **K.C. Jeong**, S. Dunigan, P. Shah, and S. Ahn. 2014. Rapid and sensitive detection of *Escherichia coli* O157:H7 in milk and ground beef using magnetic bead-based immunoassay coupled with tyramide signal amplification. *J. Food Prot.* 77:100-105.
48. Jeon, S., M. Elzo, N. DiLorenzo, C. Lamb, **K.C. Jeong**. 2013. Evaluation of animal genetic and physiological factors that affect the prevalence of *Escherichia coli* O157 in cattle. *PLoS One*. 10.1371/journal.pone.0055728.
49. Park D., E. Stanton, C. Kristin, D. Parrell, M. Bozile, D. Pike, S. Foster, **K.C. Jeong**, R. Ivanek, D. Dopfer, and C.W. Kaspar. 2013. Evolution of *stx2*-prophage in persistent bovine *Escherichia coli* O157:H7 strains. *Appl. Environ. Microbiol.* 10.1128/AEM.03158-12.
50. **Jeong, K.C.**, O. Hiki, M.Y. Kang, D. Park, C.W. Kaspar. 2013. Prevalent and persistent *Escherichia coli* O157 strains on farms are selected by bovine passage. *Vet. Microbiol.* doi:10.1016/j.vetmic.2012.11.034.
51. **Jeong, K.C.** and J. Yu. 2012. Investigation of *in vivo* protein interactions in *Aspergillus* spores. *Methods Mol. Bio.* 944:251-7.
52. Park, H.S., M. Ni, **K.C. Jeong**, J. H. Yu. 2012. The role, interaction, and regulation of the Velvet regulator VelB in *Aspergillus nidulans*. *PLoS One*. 7(9):e45935.
53. Vincent, C.D., J.R. Friedman, **K.C. Jeong**, M. Sutherland, and J.P. Vogel. 2012. Identification of the DotL coupling protein subcomplex of the *Legionella* Dot/Icm type IV secretion system. *Mol. Microbiol.* 85:378-391.

54. Lim, M.S., J. Kim, J.G. Lim, B.S. Kim, **K.C. Jeong**, K.H. Lee, and S.H. Choi. 2011. Identification and characterization of a novel serine protease, VvpS, that contains two functional domains and is essential for autolysis of *Vibrio vulnificus*. *J. Bacteriol.* 193:3722-32.
55. **Jeong, K.C.**, M.Y. Kang, J.H. Kang, D.J. Baumler, and C.W. Kaspar. 2011. Reduction of *Escherichia coli* O157:H7 shedding in cattle by addition of chitosan microparticles to feed. *Appl. Environ. Microbiol.* 77:2611-2616.
56. Baumler, D.J., K.F. Hung, **K.C. Jeong**, and C.W. Kaspar. 2008. Molybdate treatment and sulfate starvation decrease ATP and DNA levels in *Ferroplasma acidarmanus*. *Archaea.* 2:205-209.
57. **Jeong, K.C.**, D.J. Baumler, K.F. Hung, J. Byrd, and C.W. Kaspar. 2008. *Escherichia coli* O157:H7 Dps protects DNA against low pH by formation of Dps-DNA complexes. *BMC Microbiol.* 8:181.
58. **Jeong, K.C.**, M.Y. Kang, C. Heimke, J.A. Shere, I. Erol and C.W. Kaspar. 2007. Isolation of *Escherichia coli* O157:H7 from the gall bladder of inoculated and naturally infected cattle. *Vet. Microbiol.* 119:339-345.
59. Baumler D.J., K.F. Hung, **K.C. Jeong**, and C.W. Kaspar. 2007. Production of methanethiol and volatile sulfur compounds by the archaeon "*Ferroplasma acidarmanus*". *Extremophiles.* 11:841-851.
60. Vincent, C.D., J.R. Friedman, **K.C. Jeong**, E.C. Buford, J.L. Miller, and J.P. Vogel. 2006. Identification of the core transmembrane complex of the *Legionella* Dot/Icm type IV secretion system. *Mol. Microbiol.* 62:1278-129.
61. Erol, I., **K.C. Jeong**, D.J. Baumler, B. Vykhodets, S.H. Choi, and C.W. Kaspar. 2006. H-NS controls metabolism and stress tolerance in *Escherichia coli* O157:H7 that influence mouse passage. *BMC Microbiol.* 6:72.
62. Baumler, D.J., K.F. Hung, J.L. Bose, B.M. Vykhodets, C.M. Cheng, **K.C. Jeong**, and C.W. Kaspar. 2006. Enhancement of acid tolerance in *Zymomonas mobilis* by a proton-buffering peptide. *Appl. Biochem. Biotechnol.* 134:15-26.
63. **Jeong, K.C.**, D.J. Baumler, and C.W. Kaspar. 2006. Dps expression in *Escherichia coli* O157:H7 requires an extended -10 region and is affected by the cAMP receptor protein. *Biochim Biophys Acta.* 1759:51-59.
64. Baumler D.J. **K.C. Jeong**, B.G. Fox, and C.W. Kaspar. 2005. Sulfate requirement for heterotrophic growth of *Ferroplasma acidarmanus* strain fer1. *Research in Microbiology.* 156:492-498.
65. Jeong, H.S., **K.C. Jeong**, H.K. Choi, K.J. Park, K.H. Lee, J.H. Rhee, and S.H. Choi. 2001. Differential expression of *Vibrio vulnificus* elastase gene in a growth phase-dependent manner by two different types of promoters. *J. Biol. Chem.* 276:13875-13880.
66. **Jeong, K.C.**, H.S. Jeong, S.E. Lee, S.S. Chung, J.H. Rhee, A.M. Starks, G.M. Escudero, P.A. Gulig, and S.H. Choi. 2000. Construction and phenotypic evaluation of a *Vibrio vulnificus* vvpE mutant for elastolytic protease. *Infect. Immun.* 68:5096-5106.
67. Lee, S.E., Shin, S.Y. Kim, Y.R. Kim, D.H. Shin, S.S. Chung, Z.H. Lee, J.Y. Lee, **K.C. Jeong**, S.H. Choi, and J.H. Rhee. 2000. *Vibrio vulnificus* has the transmembrane transcription activator ToxRS stimulating the expression of the hemolysin gene vvhA. *J. Bacteriol.* 182:3405-3415.
68. **Jeong, K.C.**, E.Y. Jeong, T.E. Hwang, and S.H. Choi. 1998. Identification and characterization of *Acinetobacter* sp. CNU961 able to grow with phenol at high concentrations. *Biosci. Biotechnol. Biochem.* 62:1830-1833.
69. Kim, C.M., **K.C. Jeong**, J.H. Rhee, and S.H. Choi. 1997. Thermal-death times of opaque and translucent morphotypes of *Vibrio vulnificus*. *Appl. Environ. Microbiol.* 63:3308-3310.

## **B. Book chapters**

1. Si Hong Park, Mushin Aydin, Peixin Fan, Shinyoung Lee, Lin Teng, Sun Ae Kim, Soohyoun Ahn, Steven C Ricke, Zhaohao Shi, and **K. C. Jeong**. 2018. Detection Strategies for Foodborne Salmonella and Prospects for Utilization of Whole Genome Sequencing Approaches. Pages:289-308. *Food and Feed Safety Systems and Analysis*. Steven Ricke [et al.]. Academic Press.
2. **K.C. Jeong**, C.D. Vincent, E. Buford, and J.P. Vogel. 2006. Subcellular Localization of the Dot/Icm Type IV Secretion Proteins. *Legionella: State of the art 30 years after its recognition*. Nicholas P. Cianciotto [et al.]. Washington, D.C. ASM Press.

3. C.D. Vincent, **K.C. Jeong**, J. Sexton, E. Buford, and J.P. Vogel. 2006. The *Legionella pneumophila* Dot/Icm Type IV Secretion System. *Legionella: State of the art 30 years after its recognition*. Nicholas P. Cianciotto [et al.]. Washington, D.C. ASM Press.