

## Publication list of Jeffrey Hoorfar

### **BOOK EDITOR:**

Global food safety of fresh produce: A handbook of best practice, innovative commercial solutions and case studies. Hoorfar J. (ed.). Woodhead Publishing, Cambridge, UK. (*in preparation*).

Case studies in Food Safety and Authenticity: Lessons From Real-Life Situations. Hoorfar J. (ed.). Woodhead Publishing, Cambridge, UK. (*in press*).

Rapid Detection, Characterization and Enumeration of Foodborne Pathogens (2011). Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. ISBN 978-1-55581-542-4.

Food chain integrity: A Holistic Approach to Traceability, Authenticity, Safety and Quality (2011). Hoorfar J., Jordan K., Butler F. and Prugger R. (eds.). Woodhead Publishing, Cambridge, UK. ISBN 0-85709-068-2.

### **JOURNAL ARTICLES:**

1. Josefsen M.H., Bonnichsen L., Larsson J.T., Nielsen E.M., Fricker M., Ehling-Schulz M., Hoorfar J., Christensen L.S. (2012). Evaluation of *flaA* short variable region sequencing, Multilocus Sequence Typing, and Fourier Transform Infrared Spectroscopy for discrimination between *Campylobacter jejuni* strains. Food Analytical Methods (DOI: 10.1007/s12161-011-9333-y).
2. Löfström C., Hansen F., Mansdal S., Hoorfar J. (2012). Detection of *Salmonella* in meat: Comparative and collaborative validation of a non-complex and cost-effective pre-PCR protocol. Journal of AOAC International 95: 100-104.
3. Christensen L.S., Josefsen M.H., Pedersen K., Christensen J., Bonnichsen L., Sørensen G., Hoorfar J. (2011). Real-time monitoring of *Salmonella enteric* in free-range geese. Applied and Environmental Microbiology 77: 3160-3162.
4. Krämer N., Löfström C., Vigre H., Hoorfar J., Bunge C., Malorny B. (2011). A novel strategy to obtain quantitative data for modelling: Combined enrichment and real-time PCR for enumeration of salmonellae from pig carcasses. International Journal of Food Microbiology 145: S86-S95.
5. Löfström C., Schelin J., Norling B., Vigre H., Hoorfar J., Rådström P. (2011). Culture-independent quantification of *Salmonella enterica* in carcass gauze swabs by flotation prior to real-time PCR. International Journal of Food Microbiology 145: S103-S109.
6. Grønlund H., Riber L., Vigre H., Löfström C., Folling L., Huehn S., Malorny B., Rådström P., Rudi K., Hoorfar J. (2011). Microarray-based genotyping of *Salmonella*: Inter-laboratory evaluation of

reproducibility and standardization potential. *International Journal of Food Microbiology* 145:S79-SS85.

7. Grønlund, H. A., Moen, B., Hoorfar, J., Rådstrøm, P., Malorny, B., & Rudi, K. (2011). Direct detection of single-nucleotide polymorphisms in bacterial DNA by SNPtrap. *Preparative Biochemistry and Biotechnology* 41:166-174.
8. Schultz A.C., Perelle S, Di Pasquale S., Kovac K., De Medici D., Fach P., Sommer H.M., Hoorfar J. (2011). Collaborative validation of a rapid method for efficient virus concentration in bottled water. *International Journal of Food Microbiology* 145: S158-S166.
9. Schultz A.C., Vegac E., Dalsgaard A., Christensen L.S., Nørrung B., Hoorfar J., Vinjé J. (2011). Development and evaluation of novel one-step TaqMan realtime RT-PCR assays for the detection and direct genotyping of genogroup I and II noroviruses. *Journal of Clinical Virology* 50:230-234.
10. Josefsen M.H., Löffström C., Hansen T.B., Christensen L.S., Olsen J.E., Hoorfar J. (2010). Rapid quantification of viable *Campylobacter* bacteria on chicken carcasses, using real-time PCR and propidium monoazide treatment, as a tool for quantitative risk assessment. *Applied Environmental Microbiology* 76:5097-5104.
11. Hoorfar J., Wagner M., Jordan K., Bouquin S.L., Skiby J. (2011). Towards biotracing in food chains. *International Journal of Food Microbiology* 145:S1-S4.
12. Löffström C., Hansen F., Hoorfar J. (2010). Validation of a 20-h real-time PCR method for screening of *Salmonella* in poultry fecal samples. *Veterinary Microbiology* 144: 511-514.
13. Löffström C., Krause M., Josefsen M.H., Hansen F., Hoorfar J. (2009). Validation of a same-day real-time PCR method for screening of meat and carcass swabs for *Salmonella*. *BMC Microbiology* 9:85.
14. Josefsen M.H., Löffström C., Sommer H.M., Hoorfar J. (2009). Diagnostic PCR: Comparative sensitivity of four probe chemistries. *Molecular and Cellular probes* 23:201-203.
15. Grønlund H.A., Löffström C., Helleskov J.B., Hoorfar J. (2010) The use of infrared thermography as a novel approach for real-time validation of PCR thermocyclers. *Food Analytical Methods* 3(2): 116-119. DOI: 10.1007/s12161-009-9103-2.
16. Olsen K.N., Lund M., Skov J., Christensen L.S., Hoorfar J. (2009). Detection of *Campylobacter* bacteria in air samples for continuous, real-time monitoring of *Campylobacter* colonization in broiler flocks. *Applied and Environmental Microbiology* 75:2074-78.
17. Croci L., Dubios E., Cook N., de Medici D., Schultz A.C., China B., Rutjes S.A., Hoorfar J., Van der Poel W. (2008). Current methods for extraction and concentration of enteric viruses from fresh fruit and vegetables: Towards international standards. *Food Analytical Methods* 1:73-83.
18. Skurnik M., Biedzka-Sarek M., Lübeck P.S., Blom T., Bengoechea J.A., Pérez-Gutiérrez C., Ahrens P., Hoorfar J. (2007). Characterization and biological role of the O-Polysaccharide gene cluster of *Yersinia*

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19. Josefsen M.H., Krause M., Hansen F., Hoorfar J. (2007). Optimization of a 12-hour TaqMan PCR-based method for detection of *Salmonella* in meat. *Applied and Environmental Microbiology* 73:3040-3048.
  20. Schultz A.C., Saadbye P., Hoorfar J., Nørrung B. (2007). Comparison of methods for detection of norovirus in oysters. *International Journal of Food Microbiology* 114:352-6.
  21. Reynisson E., Josefsen M. H., Krause M., Hoorfar J. (2006). Novel probes to improve the detection limit of real-time PCR, using *Salmonella* as a model. *Journal of Microbiological Methods* 66:206-216.
  22. Krause M., Josefsen M.H., Lund M., Saadbye P., Jacobsen N.R., Brorsen L., Moos M., Hoorfar J. (2006). Comparative, collaborative, and on-site validation of a TaqMan PCR method as a tool for certified production of fresh, *Campylobacter*-free chickens. *Applied Environmental Microbiology* 72:5463-68.
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  24. Schoder D., Schmalwieser A., Schaubberger G., Hoorfar J., Kuhn M., Wagner M. (2005). A novel approach for the assessment of performance of PCR cyclers for reliable diagnostic testing. *Journal of Clinical Microbiology* 43:2724-2728.
  25. Perelle S., Dilasser F., Malorny B., Grout J., Hoorfar J., Fach P. (2004). Comparison of PCR-ELISA and LightCycler real-time PCR assays for detecting *Salmonella* spp. in milk and meat samples. *Molecular and Cellular Probes* 18:409-420.
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  27. Perelle S., Josefsen M.H., Hoorfar J., Dilasser F., Grout J., Fach P. (2004). A LightCycler real-time PCR hybridization probe assay for detecting food-borne thermophilic *Campylobacter*. *Molecular and Cellular Probes* 18:321-327.
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borne pathogens. Accreditation and Quality Assurance (ACQUAL) 9:695-699.

31. Josefsen M.H., Lübeck P.S., Hansen F., Hoorfar J. (2004). Toward an international standard for PCR-based detection of foodborne thermotolerant *Campylobacters*: Interaction of enrichment media and pre-PCR treatment on carcass rinse samples. *Journal of Microbiological Methods* 58:39-48.
32. Josefsen M.H., Cook N., D'Agostino M., Hansen F., Wagner M., Demnerova K., Heuvelink A.E., Tassios P.T., Lindmark H., Kmet V., Barbanera M., Fach P., Loncarevic S., Hoorfar J. (2004). Validation of a PCR-based method for detection of foodborne thermotolerant *Campylobacters* in a multi-center collaborative trial. *Applied and Environmental Microbiology* 70:4379-4383.
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34. Malorny B., D'Agostino M., Cook N., DeMedici D., Croci L., Abdulmawjood A., Fach P., Karpiskova R., Aymerich T., Kwaitek K., Kuchta T., Hoorfar J. (2004). Multicenter collaborative trial validation of a PCR-based method for detection of *Salmonella* in chicken and pig samples. *Journal of AOAC International* 87:867-883.
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36. Abdulmawjood A., Bülte M., Roth S., Schönenbrücher H., Cook N., D'Agostino M., Maorny M., Jordan K., Pelkonen S., Hoorfar J. (2004). Toward an international standard for PCR-based detection of *E. coli* O157: Validation of the PCR-based methods in a multicenter collaborative trail. *Journal of AOAC International* 87:856-860.
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39. Jensen A.N., Sørensen G., Baggesen D.L., Bødker R., Hoorfar J. (2003). Addition of Novobiocin in pre-enrichment step can improve *Salmonella* culture protocol of medium-solid Rappaport-Vassiliadis (MSRV). *Journal of Microbiological Methods* 55:249-255.
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52. Hoorfar J., Nielsen E.M., Stryhn H., Andersen A. (1999). Evaluation of two enzyme-immunoassays for detection of thermophilic campylobacters in faecal samples from cattle and swine. *Journal of Microbiological Methods* 38:01-106.
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- media for isolation of *Salmonella* spp. from swine and poultry. *FEMS Microbiology Letters* 169: 125-130.
55. Hoorfar J., Holmvgig C.B.F. (1999). Evaluation of culture methods for rapid screening of swine samples for *Yersinia enterocolitica* O:3/biotype 4. *Journal of Veterinary Medicine B* 46:189-198.
  56. Hoorfar J., Wedderkopp A., Lind P. (1997). Detection of antibodies to *Salmonella* lipopolysaccharides in muscle fluid from cattle. *American Journal of Veterinary Research* 58:334-337.
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  66. Hoorfar J., Scott F. W., Cloutier H. E. (1991). Dietary plant materials and development of diabetes in the BB rat. *Journal of Nutrition* 121:908-916.

## **REVIEW ARTICLES:**

67. Hoorfar J. (2011). Rapid detection, characterization and enumeration of foodborne pathogens. *APMIS* 119 (Supplement 133): 1-24.

68. Malorny B., Löfström C., Wagner M., Krämer N., Hoorfar J. (2008). Enumeration of Salmonella by real-time PCR for quantitative microbial risk assessments. *Applied and Environmental Microbiology* 74:1299-1304.
69. Malorny B. & Hoorfar J. (2005). Toward standardization of diagnostic PCR testing of fecal samples: Lessons from the detection of salmonellae in pigs. *Journal of Clinical Microbiology* 43:3033-3037.
70. Hoorfar J., Malorny B., Abdulmawjood A., Cook N., Wagner M., Fach P. (2004). Practical considerations in design of internal amplification control for diagnostic PCR assays. *Journal of Clinical Microbiology* 42:1863-1868.
71. Hoorfar J., Wolffs P., and Rådström P. (2004). Diagnostic PCR: Validation and sample preparation are two sides of the same coin. *APMIS* 112:808-814.
72. Malorny B., Tassios P., Rådström P., Cook N., Wagner M., Hoorfar J. (2003). Standardization of diagnostic PCR for the detection of foodborne pathogens. *International Journal of Food Microbiology* 83:39-48.

#### **BOOK CHAPTERS:**

73. Hoorfar J. (2012). Is it possible to reduce foodborne *Campylobacter* infections in humans through vaccination of animals? *In: Case-studies in food safety and authenticity: Lessons from real-life situations.* Woodhead Publishing Ltd., Cambridge, UK. Pp. xx. (in press).
74. Josefsen M.H., Löfström C., Hansen T., Reynisson E., Hoorfar J. (2012). Chapter 2: Instrumentation and Fluorescent Chemistries Used in qPCR. *In: Quantitative Real-time PCR in Applied Microbiology.* Filion M. (ed.). Caister Academic Press. Norwich, UK.
75. Hoorfar J., Cahill S., Clarke R., Barker G.C., Fazil A., Wong D.L.F., Feng P.C.H. (2011). The public health, industrial, and global significance of rapid microbiological food testing. *In: Rapid Detection, Characterization and Enumeration of Food-Borne Pathogens.* Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp. 1-12.
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78. Reynisson E., Rudi K., Marteinsson V.P., Nakayama J., Sakamoto N., Rasooly A., Hoorfar J. (2011). Automated and Large-Scale

- Characterization of Microbial Communities in Food Production. *In: Rapid Detection, Characterization and Enumeration of Food-Borne Pathogens*. Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp. 63-79.
79. Rossmannith P., Hedman J., Rådström P., Hoorfar J., Wagner M. (2011). Preanalytical sample preparation and analyte extraction. *In: Rapid Detection, Characterization and Enumeration of Food-Borne Pathogens*. Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp. 121-136.
  80. Löfström C. and Hoorfar J. (2011). Your results are your controls: Inclusion of critical test controls. *In: Rapid Detection, Characterization and Enumeration of Food-Borne Pathogens*. Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp. 145-156.
  81. Malorny B., A. Bhunia, H. J. M. Aarts, C. Löfström, and J. Hoorfar (2011). *Salmonella* in Pork, Beef, Poultry, and Egg. *In: Rapid Detection, Characterization and Enumeration of Food-Borne Pathogens*. Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp. 179-194.
  82. Fredriksson-Ahomaa M., Nesbakken T., Skurnik M., Thisted Lambertz S., Dickson J.S., Hoorfar J., Korkeala H. (2011). *Yersinia enterocolitica* in pork. *In: Rapid Detection, Characterization and Enumeration of Food-Borne Pathogens*. Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp. 195-207.
  83. Wolf-Hall C., Zhao H., Häggblom P., and Hoorfar J. (2011). Rapid Screening of Animal Feeds for Mycotoxins and *Salmonella* Contaminations. *In: Rapid Detection, Characterization and Enumeration of Food-Borne Pathogens*. Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp. 241-254.
  84. Jordan K., Wagner M., Hoorfar J. (2011) Biotracing: a new integrated concept in food safety. *In: Food chain integrity: A Holistic Approach to Traceability, Authenticity, Safety and Quality*. Eds.: Hoorfar J., Jordan K., Butler F. and Prugger R. (eds.). Woodhead Publishing Ltd., Cambridge, UK. Pp. 23-37.
  85. Hoorfar J., Schultz A.C., Lees D.N., Bosch A. (2011). Foodborne viruses: understanding the risks and developing rapid surveillance and control measures. *In: Food chain integrity: A Holistic Approach to Traceability, Authenticity, Safety and quality*. Hoorfar J., Jordan K., Butler F. and Prugger R. (eds.). Woodhead Publishing Ltd., Cambridge, UK. Pp. 88-104.
  86. Hoorfar J., Bang-Berthelsen B., Jones F.T., Häggblom P., Bruggeman G., Zentek J. (2011). Emerging safety and quality issues in compound feeds with implications for human foods. *In: Food chain Integrity: A Holistic Approach to Traceability, Authenticity, Safety and Quality*. Hoorfar J., Jordan K., Butler F. and Prugger R. (eds.). Woodhead Publishing Ltd., Cambridge, UK. Pp. 131-143.
  87. Hoorfar J., Butler F., Prugger R., Jordan k. (2011). Future trends in food chain integrity. *In: Food Chain Integrity: A Holistic Approach to*



Traceability, Authenticity, Safety and Quality. Eds.: Hoorfar J., Jordan K., Butler F. and Prugger R. Woodhead Publishing Ltd., Cambridge, UK. Pp. 303-308.

88. Hoorfar J., Wagner M., Jordan K., Barker G.C. (2011). Biotracing: A novel concept in food safety integrating microbiology knowledge, complex systems approaches and probabilistic modeling. *In: Tracing pathogens in the food chain.* Brul S., Fratamico P., McMeekin T. (eds.). Woodhead Publishing Ltd., Cambridge, UK. Chapter 17, pp. 377-390.
89. Josefsen M.H., Löfström C., Olsen K.E.P., Mølbak K., Hoorfar J. (2011). *Salmonella*. *In: Molecular detection of human bacterial pathogens.* Liu D. (ed.). CRC Press, Taylor & Francis Group. Boca Raton, FL, USA. Pp. 1023-1035.
90. Josefsen M.H., Carroll C., Rudi k., Olsson Engvall E., Hoorfar J. (2011). *Campylobacter* in Poultry, Pork, and Beef. *In: Rapid Detection, Characterization and Enumeration of Foodborne Pathogens.* Hoorfar J. (ed.). American Society for Microbiology. Washington, D.C., USA. Pp.209-227.
91. Löfström C., Hoorfar J., Schelin J., Rådström P., and Malorny B. (2009). *Salmonella*. In Liu D. (Ed.): Molecular detection of foodborne pathogens. CRC Press, Taylor & Francis. Boca Raton, FL, USA. Chapter 32, pp. 447-458.
92. Josefsen M.H., Thisted-Lambertz S., Jensen S., Hoorfar J. (2003). Food-PCR: Validation and Standardization of diagnostic PCR for detection of *Yersinia enterocolitica* and other food-borne pathogens. *In: The Genus Yersinia.* Ed. M. Skurnik. Adv Exp Med Biol. 529:443-449. Kluwer Plenum, New York.
93. Hoorfar J. and Cook N. (2002). Critical steps in standardization of PCR. *In: Methods in Molecular Biology*, vol. 216, pp. 51-64: PCR Detection of Microbial Pathogens: Methods and Protocols. Eds. Konrad Sachse & Joachim Frey. Humana Press Inc., Totowa, NJ.
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#### **PROCEEDING ARTICLES (excluding abstract):**

95. Malorny B., Krämer N., Vigre H., Hoorfar J., Löfström C. (2011). A novel strategy to obtain quantitative data for modelling: Combined enrichment and real-time PCR for enumeration of salmonellae from pig carcasses. Safepork 2011 - Abstract book — International Conference on the Epidemiology and Control of biological chemical and physical hazards in pigs and pork.
96. Hansen T., Riber L., Löfström C. (2011). Attachment of *Salmonella* spp. to pork meat. Safepork 2011 - Abstract book — International Conference on the Epidemiology and Control of biological chemical and physical hazards in pigs and pork.

97. Jacobsen T., Hoorfar J., Persson S., Hansen F. (2009). Application of a real-time PCR and a modified XLD agar for detection of MDR *Salmonella* Typhimurium DT104. ICOMST (55th International Congress of Meat Science and Technology). Copenhagen, Denmark.
98. Lübeck P.S., Hoorfar J., Ahrens P., Skurnik M. (2003). Cloning and characterization of the *Yersinia enterocolitica* serotype O:9 lipopolysaccharide O-antigen gene cluster. *Adv. Exp. Med. Biol.* 529:207-210.
99. Lübeck P.S., Skurnik M., Ahrens P., Hoorfar J. (2003). A multiplex PCR-detection assay for *Yersinia enterocolitica* serotype O:9 and *Brucella spp.* based on the perosamine synthetase gene. *Adv. Exp. Med. Biol.* 529:451-453.
100. Löftström C., Wolffs P., Engdahl Axelsson C., Lübeck P.S., Hoorfar J., Rådström P. Pre-processing strategies for detection and quantification of food-borne pathogens. In: *Food Micro 2002*. Edited by L. Axelsson, E.S. Tronrud and K.J. Merok, proceedings of Food Micro Meeting, Lillehammer, Norway. 18-23 August 2002.
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