

Improving poultry meat safety and sustainability

Edited by Professor Steven C. Ricke
University of Wisconsin-Madison, USA



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Improving poultry meat safety and sustainability

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Description:

It's been suggested that current poultry production must increase by at least 2.5% per year until 2030 to meet demand from a rapidly growing population. However, whilst modern, more intensive production systems offer the potential to meet this demand, they also bring with them increased safety and environmental risks.

Improving poultry meat safety and sustainability provides a comprehensive overview of how best to deal with zoonotic diseases which continue to threaten poultry meat safety, focussing on the major food pathogens *Campylobacter*, *Salmonella* and *Escherichia coli*. The book reviews how poultry meat safety can be optimised at the farm level as well as the effectiveness of methods for maintaining the postharvest safety and shelf-life of poultry meat.

With the livestock sector facing increasing pressure to reduce its carbon footprint, the book also details how poultry production can become more sustainable, whilst also ensuring that poultry meat safety isn't compromised at any point along the value chain.

Key features:

- Highlights the major zoonotic disease threats to poultry production, detailing their characterisation, identification and routes of transmission
- Addresses both on-farm safety and postharvest management techniques in preventing the risk and spread of zoonotic and other diseases
- Considers how elements of poultry production can be better managed to improve safety and sustainability, such as improving feed formulation and litter management to reduce environmental impact

Audience:

University and other researchers working in poultry and food science; advisors consulting poultry farmers on aspects of health and safety; as well as government and other private sector agencies supporting sustainable poultry production

Editor details:

Dr Steven C. Ricke is the Director of the Center for Food Safety at the University of Arkansas (UA) and is a faculty member of the Dept. of Food Science and Cellular and Molecular Graduate program. He received the Poultry Sci. Assoc. (PSA) Research Award in 1999, American Egg Board award in 2006 and the PSA Evonik Award for Achievement in Poultry Science in 2019. He was honored as a Texas Agricultural Experiment Station Faculty Fellow in 2002 and the Division of Agriculture - UA John White Outstanding Research Award in 2012. He served as co-founder and former President of the Arkansas Association of Food Protection (AAFP). He was named an AAFP Fellow in 2015, a PSA Fellow in 2017, an International for Food Protection Fellow and University of Wisconsin College of Agriculture and Life Sciences Distinguished Alumni in 2019. He was selected as an American Society for Microbiology Distinguished Lecturer and served from 2015 to 2017.

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