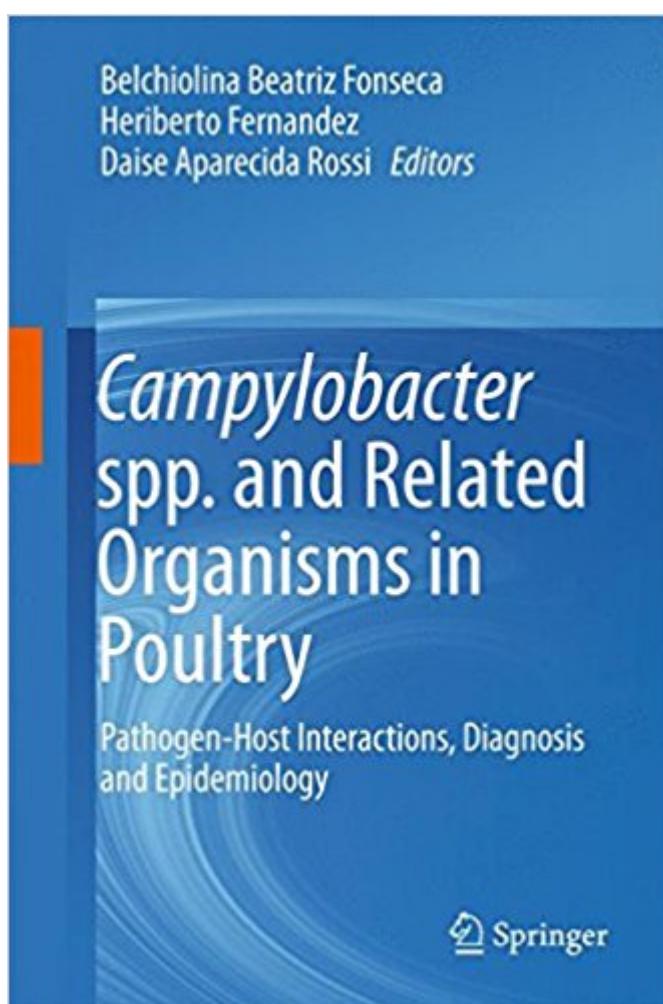


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# Campylobacter Spp. And Related Organisms In Poultry: Pathogen-Host Interactions, Diagnosis And Epidemiology



## Synopsis

This book provides an extensive review of research into Campylobacter, Helicobacter and Arcobacter species found in poultry. It includes the epidemiology, diagnosis, immune response and disease control of these organisms in commercial poultry production. Antimicrobial resistance, and the incidence and human disease potential of these bacteria is also discussed. A global perspective is presented by experts from four continents — South America, North America, Europe and Africa. This reference work will be of value to the poultry industry, research laboratories, public health workers and students. An extensive overview of the relevant literature is provided by the reference lists at the end of each chapter.

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Dr. Belchiolina Beatriz Fonseca is professor of avian disease and poultry production from Faculty of Veterinary Medicine from Universidade Federal de Uberlândia, Minas Gerais, Brasil. Before her academic work he has worked in the field as a Veterinary Medical with chickens and broiler breeders. She has started research about *Campylobacter* in poultry since 2005 when studied in Chile with Dr. Heriberto Fernández. Thenceforward, her research about *Campylobacter* with Dr. Daise Rossi in poultry. The main focus of the author is epidemiology and the relationship of commensal or disease between and *Campylobacter* in poultry. She is member of the Latin American Network of Researchers in *Campylobacteraceae* (Relacampy). Dr. Heriberto Fernández is Full Professor of Clinical Microbiology and past-director of the Institute of Clinical Microbiology, Faculty of Medicine, Universidad Austral de Chile. During the first years of his career he was involved in microbiological diagnosis of zoonotic bacterial agents. Since 1980 their research lines turned towards *Campylobacter* and related microorganisms and their epidemiological relationships among humans, animals, the environment and food production. Throughout the last 35 years he conducted many research projects in the field. As Professor he spent much of his time to teach about *Campylobacter*, not only to undergraduate and graduate students and professionals of his country, but also to others in many countries of Latin America, being also invited as speaker at many conferences and scientific meetings in almost all South American countries and some of Central America. He was trainer in different courses in Argentina and Mexico of the WHO SalmSurvNet (now renamed GFN). Dr Fernández was invited to be member of the WHO Experts Committee on *Campylobacter*, the Chilean Agency for Food Safety and the WHO Advisory Group on Integrated Surveillance of Antimicrobial Resistance (AGISAR), belonging to the latter until June 2014. In 2014 obtained a grant from the Ecuadorian Secretariat for Higher Education, Science, Technology and Innovation to develop a Prometeo Project at the Technical University of Loja to build academic capacities on *Campylobacter* and develop research projects in this field. At this time he created the Latin American Network of Researchers in *Campylobacteraceae*. Dr. Daise Aparecida Rossi is professor of microbiology, zoonotic disease and hygiene and vigilance in food at Faculty of Veterinary Medicine of the Universidade Federal de Uberlândia, Minas Gerais, Brasil. She has experience in veterinary microbiology, mainly with food microbiology and epidemiology, with expertise in foodborne zoonoses and food safety. She has several important works about *Campylobacter* and *Salmonella* in general food as, chicken, milk, cheese and other meats. Her research team also developed projects in Brazil about the prevalence of *Campylobacter* in animal products, their virulence, resistance to antimicrobials and capacity of biofilm formation. She is member of the Latin American Network of Researchers in *Campylobacteraceae*

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