

## BRIEF CV

Dr. Carola Venturini is a postdoctoral researcher at the Centre for Infectious Diseases and Microbiology (CIDM) at the Westmead Institute for Medical research (WIMR). She is an experienced microbiologist in the fields of infectious diseases and antimicrobial resistance. The investigation of the role of mobile genetic elements in the evolution of infectious bacteria is one of her main research interests. Dr. Venturini graduated with distinction in Biological Sciences (Honours) at the University of Wollongong where she subsequently completed her PhD (UOW; EMAI, DPI) investigating the relationship between antibiotic resistance, virulence and mobile DNA in pathogenic *E. coli*. These research pursuits continued during her employment at the Australian Infectious Diseases Research Centre at the University of Queensland (2010-2013) where she researched the links between horizontal gene transfer mechanisms and pathogenicity in *Streptococcus pyogenes*, related to the acquisition/carriage of virulence and antibiotic resistance determinants by phage and other integrative DNA elements.

Dr. Venturini is currently part of Prof. J. Iredell's research group at WIMR leading research projects investigating the effects of antibiotic treatment on the ecology of the human microbiome and related transmissible antibiotic resistance systems in the Enterobacteriaceae. With Prof. Iredell, CV is also CI on a NHMRC-funded project aiming at the development of feasible and effective bacteriophage therapy against pathogenic multi-resistant organisms. CV has trained extensively in bioinformatics and is extremely proficient in bacterial and viral handling techniques and DNA manipulation protocols. CV has had also extensive experience in academic teaching both in the class and as a supervisor of final year/honours projects. Dr Venturini has published her work in high quality scientific journals and presented at a number of national conferences and internal meetings. As member of professional committees and invited speaker at public and professional seminars, she is also involved in activities that aim at improving communication between research scientists and the public to allow for a better understanding and implementation of new therapeutic practices related to the problem of antimicrobial resistance.