

1. Record Nr.	UNINA9910459904003321
Titolo	Aeromonas // edited by Joerg Graf
Pubbl/distr/stampa	Norfolk, England : , : Caister Academic Press, , [2015] ©2015
ISBN	1-908230-57-6
Descrizione fisica	1 online resource (240 p.)
Disciplina	589.95
Soggetti	Aeromonas Microbiology Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Current Books of Interest; Contributors; Preface; 1: Introduction and Overview; 2: Taxonomy; Short description of the genus; Phylogeny; Systematics; Taxonomic methods; Conclusion and perspectives; 3: Aeromonas Fish Pathogens; Introduction; The diseases; Isolation; Taxonomy; Diagnosis; Ecology; Pathogenicity; Disease control; Conclusions; 4: Aeromonas Infections in Humans; Introduction; Exponential discovery of new species; Clinical infections and disease presentation; Pneumonia and other respiratory tract infections; Spontaneous bacterial peritonitis (SBP) and empyema Urinary tract infections5: Aeromonas, a Multifaceted Microbe: Beneficial Associations with Animals ; Medicinal leeches; Zebrafish; Other associations with blood-feeding animals; 6: Aeromonad Antigenic Structures; Introduction; Flagella; Pili/fimbriae; Lipopolysaccharide (LPS); Capsule; S-layer; Outer membrane proteins (OMPs); Conclusion; 7: New Developments on the Virulence Mechanisms of Aeromonas hydrophila; Introduction; T3SS; T6SS; Quorum sensing-dependent virulence regulation in Aeromonas hydrophila; 8: Molecular Diagnostics by Genetic Methods; Introduction Species identification of pure culturesSpecies detection on samples; Strain genotyping; Present trends and future prospects; 9: Occurrence and Virulence Potential of Aeromonas in Food and Water; Introduction;

Occurrence of Aeromonas in water; Metagenomics perspective; Aeromonas and regrowth in reclaimed water; Mechanisms of survival in water; Regulations of drinking water for Aeromonas; Occurrence of Aeromonas in food; Conclusions; Index

Sommario/riassunto

The genus *Aeromonas* comprises a fascinating group of organisms linked to infections in humans, fish and other animals. Members of the genus are widespread in aquatic environments and can colonize a wide variety of animals in a benign or even beneficial manner. Dedicated to the genus *Aeromonas*, this book provides a comprehensive overview of current knowledge and authoritative research on the organisms, their taxonomy, ecology and pathogenicity. Written by a team of prominent scientists under the expert editorship of Joerg Graf, the topics covered include taxonomy, fish pathogens, infections in
