. Record Nr.	UNINA9910841763303321
Titolo	Genome plasticity and infectious diseases [[electronic resource] /] / edited by Jorg Hacker, Ulrich Dobrindt, Reinhard Kurth
Pubbl/distr/stampa	Washington, DC, : ASM Press, c2011
ISBN	1-68367-093-0 1-283-65649-3 1-55581-721-1
Descrizione fisica	1 online resource (404 p.)
Altri autori (Persone)	HackerJorg (Jorg Hinrich) DobrindtUlrich KurthReinhard <1942->
Disciplina	362.1969
Soggetti	Communicable diseases - Genetic aspects Microbial genomes Pathogenic microorganisms - Genetics
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	Cover; Half Title; Title Page; Copyright; Contents; Contributors; Preface; I. Bacterial Infections; 1. Impact Of Genome Plasticity On Adaption Of; REDUCTIVE EVOLUTION OF E. COLI: ASYMPTOMATIC BACTERIURIA AS AN EXAMPLE OF BACTERIAL ADAPTATION TO PROLONGED IN VIVO GROWTH IN THE URINARY TRACT; IMPACT OF GENOMIC CHANGES ON BACTERIUM-HOST INTERACTION AND FITNESS; INTRAVESICLE GROWTH AFFECTS THE MOTILITY OF E. COLI; INTRAVESICLE GROWTH AFFECTS BACTERIAL GROWTH CHARACTERISTICS AND METABOLISM OF E. COLI; ANALYSIS OF HOST FACTORS AND THEIR IMPACT ON ADAPTATION OF E. COLI; CONCLUSIONS; ACKNOWLEDGMENTS REFERENCES 2. Genotypic Changes In Enterohemorrhagic Escherichia coli During Human Infection; EHEC: OVERVIEW OF EPIDEMIOLOGY AND CLINICAL PATHOGENESIS; GENOMES OF EHEC; IDENTIFICATION OF GENETIC CHANGES DURING EHEC INFECTIONS; INTERSEROTYPE DIFFERENCES IN CONVERSION OF EHEC TO EHEC-LST; CONSEQUENCES OF IN VIVO GENETIC CHANGES IN EHEC; DOES stx LOSS MITIGATE CLINICAL OUTCOME?; EVOLUTIONARY ASPECTS AND ADAPTATION;

1.

	CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCE; 3. Genomic Fluidity Of The Human Gastric Pathogen Helicobacter pylori; THE HELICOBACTER GENOMES GENETIC MECHANISMS UNDERLYING GENOME DIVERSITY IN H. PYLORIGENOMIC ISLANDS OF H. PYLORI; FUNCTIONAL RELEVANCE OF THE PLASTIC GENOMES OF H. PYLORI; GENOMIC FLUIDITY OF H. PYLORI: CLINICAL IMPLICATIONS; PERSPECTIVES; REFERENCES; 4. Genome Structure And Variability in Coagulase-Negative Staphylococci; FITNESS AND VIRULENCE-ASSOCIATED FACTORS OF CONS; THE oriC ENVIRON OF CONS GENOMES: A HOT SPOT FOR GENOME REARRANGEMENTS; CoNS HAVE AN UNBALANCED GENOME STRUCTURE; CONS GENOMES AND MOBILE GENETIC ELEMENTS; EXTENSIVE HORIZONTAL GENE TRANSFER AMONG CONS AND MECHANISMS OF ITS LIMITATION BIOFILM FORMATION ON MEDICAL DEVICES AND EVASION OF HOST DEFENSES BY CONSPHENOTYPIC AND GENETIC INSTABILITY OF CONS; CLINICAL IMPACT OF CONS HETREROGENEOUS GENE EXPRESSION AND GENOME VARIABILITY; CONCLUSIONS; REFERENCES; 5. Genome Plasticity In Legionella pneumophila And Legionella longbeachae: Impact On Host Cell Exploitation; GENERAL FEATURES OF THE L. PNEUMOPHILA AND L. LONGBEACHAE GENOMES; HOST-PATHOGEN INTERACTION: SPECIFICITIES AND COMMON FEATURES OF L. PNEUMOPHILA AND L. LONGBEACHAE; EVOLUTION OF EUKARYOTIC EFFECTORS: ACQUISITION BY HORIZONTAL GENE TRANSFER; CONCLUSIONS; ACKNOWLEDGMENTS REFERENCES6. Genome Plasticity In Salmonella enterica And Its Relevance To Host-Pathogen Interactions; GENETIC MECHANISMS LEADING TO PLASTICITY AND HOST ADAPTATION IN SALMONELLA; GENOME ORGANIZATION; CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCES6. The chanisms Of Genome Plasticity In Neisseria meningitidis: Fighting Change With Change; GENETIC VARIABILITY AT THE POPULATION LEVEL; GENOME PLASTICITY IN THE PREGENOMIC ERA; THE SEQUENCED GENOMES OF N. MENINGITIDIS GENETIC BASIS OF VIRULENCE IN N. MENINGITIDIS
Sommario/riassunto	Comprehensive examination of the current understanding of pathogen adaptation and microevolution.