

1. Record Nr.	UNINA9910830185003321
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;

CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCE; 3. Genomic Fluidity Of The Human Gastric Pathogen *Helicobacter pylori*; THE *HELICOBACTER* GENOMES
GENETIC MECHANISMS UNDERLYING GENOME DIVERSITY IN *H. PYLORI*; GENOMIC 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 CoNS; PHENOTYPIC AND GENETIC INSTABILITY OF CoNS; CLINICAL IMPACT OF CoNS HETEROGENEOUS 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
REFERENCES; 6. Genome Plasticity In *Salmonella enterica* And Its Relevance To Host-Pathogen Interactions; GENETIC MECHANISMS LEADING TO PLASTICITY AND HOST ADAPTATION IN *Salmonella*; GENOME ORGANIZATION IN *Salmonella*; *Salmonella* SEROVARS AND HOST ADAPTATION; CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCES; 7. Mechanisms 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*: AN OVERVIEW; GENERATION OF GENOME VARIABILITY IN *N. MENINGITIDIS* GENETIC BASIS OF VIRULENCE IN *N. MENINGITIDIS*

Sommario/riassunto

Comprehensive examination of the current understanding of pathogen adaptation and microevolution.
