

1. Record Nr.	UNINA9910346743203321
Autore	David S. Needleman
Titolo	Emerging Approaches for Typing, Detection, Characterization, and Traceback of <i>Escherichia coli</i> , 2nd Edition
Pubbl/distr/stampa	Frontiers Media SA, 2018
Descrizione fisica	1 online resource (172 p.)
Collana	Frontiers Research Topics
Soggetti	Microbiology (non-medical)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Pathogenic <i>Escherichia coli</i> strains cause a large number of diseases in humans, including diarrhea, hemorrhagic colitis, hemolytic uremic syndrome, urinary tract infections, and neonatal meningitis, while in animals they cause diseases such as calf scours and mastitis in cattle, post-weaning diarrhea and edema disease in pigs, and peritonitis and airsacculitis in chickens. The different <i>E. coli</i> pathotypes are characterized by the presence of specific sets of virulence-related genes. Therefore, it is not surprising that pathogenic <i>E. coli</i> constitutes a genetically heterogeneous family of bacteria, and they are continuing to evolve. Rapid and accurate molecular methods are critically needed to detect and trace pathogenic <i>E. coli</i> in food and animals. They are also needed for epidemiological investigations to enhance food safety, as well as animal and human health and to minimize the size and geographical extent of outbreaks. The serotype of <i>E. coli</i> strains has traditionally been determined using antisera raised against the >180 different O- (somatic) and 53 H- (flagellar) antigens. However, there are many problems associated with serotyping, including: it is labor-intensive and time consuming; cross reactivity of the antisera with different serogroups occurs; antisera are available only in specialized laboratories; and many strains are non-typeable. Molecular serotyping targeting O-group-specific genes within the <i>E. coli</i> O-antigen gene clusters and genes that are involved in encoding for the different flagellar types offers an improved approach for determining the <i>E.</i></p>

coliO- and H-groups. Furthermore, molecular serotyping can be coupled with determination of specific sets of virulence genes carried by the strain offering the possibility to determine O-group, pathotype, and the pathogenic potential simultaneously. Sequencing of the O-antigen gene clusters of all of the known O-groups of *E. coli* is now complete, and the sequences have been deposited in the GenBank database. The sequence information has revealed that some *E. coli* serogroups have identical sequences while others have point mutations or insertion sequences and type as different serogroups in serological reactions. There are also a number of other ambiguities in serotyping that need to be resolved. Furthermore, new *E. coli* O-groups are being identified. Therefore, there is an essential need to resolve these issues and to revise the *E. coli* serotype nomenclature based on these findings. There are emerging technologies that can potentially be applied for molecular serotyping and detection and characterization of *E. coli*. On a related topic, the genome sequence of thousands of *E. coli* strains have been deposited in GenBank, and this information is revealing unique markers such as CRISPR (clustered regularly interspaced short palindromic repeats) and virulence gene markers that could be used to identify *E. coli* pathotypes. Whole genome sequencing now provides the opportunity to study the role of horizontal gene transfer in the evolution and emergence of pathogenic *E. coli* strains. Whole genome sequencing approaches are being investigated for genotyping and outbreak investigation for regulatory and public health needs; however, there is a need for establishing bioinformatics pipelines able to handle large amounts of data as we move toward the use of genetic approaches for non-culture-based detection and characterization of *E. coli* and for outbreak investigations.

2. Record Nr.	UNINA9910154569203321
Titolo	Negotiating the Jacobean printed book / / edited by Pete Langman
Pubbl/distr/stampa	London : , : Routledge, , 2016
ISBN	1-315-24822-0
Descrizione fisica	1 online resource (246 pages) : illustrations
Classificazione	06.21
Altri autori (Persone)	LangmanPete <1967->
Disciplina	070.5094209/032
Soggetti	Book industries and trade - England - History - 17th century Printing - England - History - 17th century Books and reading - England - History - 17th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	First published 2011 by Ashgate Publishing.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. The King's Printer's Bible monopoly in the reign of James I / Graham Rees -- 2. Brought to book : purchases of special forms of prayers in English parishes, 1558-1640 / Natalie Mears -- 3. Prayer book, polemic, and performance / Sharon Arnoult -- 4. Print in the time of Jacobean parliaments / Cyndia Susan Clegg -- 5. Printed and censored at the same time for one and the same statement : the fate of Georges Hakewill's writings in the context of the Spanish match / Andreas Pear -- 6. John Donne, James I, and the dilemmas of publication / Jane Rickard -- 7. Francis Bacon, King James, and the private revision of public negotiations / Pete Langman -- 8. The evolution of the English drill manual : soldiers, printers and military culture in Jacobean England / David R. Lawrence.
Sommario/riassunto	By examining the spaces where authors, printers and readers interact, Negotiating the Jacobean Printed Book highlights the manner in which contemporary culture and canon not only co-existed but mutually nourished and affected one another. An international group of book history scholars look beyond the traditional literary and canonical texts to explore, amongst other things, the physical nature of books and their place in Jacobean society. The contributors interrogate not just the texts themselves, but the habits, proclamations, letters and problems encountered by authors, printers and readers. Ranging from the funding of perhaps the most important book of the early Jacobean

period, the 1611 AV Bible, and the ways in which it changed the balance of power in the King's Printers, to how the importation of Continental drill manuals by professional soldiers influenced the Privy council, the essays focus on the fissures which open up between practice and proclamation, between manuscript and press, and between print and parliament. Together these essays nuance our understanding of how print culture affected, and was affected by, wider cultural concerns; the volume constitutes a compelling contribution to both literary and historical studies of early modern England.
