

CASE REPORT

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Identification of *Enterococcus faecalis* in a patient with urinary-tract infection based on metagenomic next-generation sequencing: a case report

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Abstract

Background: Urinary tract infection (UTI) caused by various pathogenic microorganisms is ubiquitous in the parts of the urinary system such as kidney, ureter, bladder, and urethra. Currently, clinical detection of UTI is mainly focused on urine culture; however, the diagnostic value of urine culture remains limited due to the time-consuming procedure and low detection rate, especially in patients who have used antibiotics. Generally, treatment for UTI relies on empirical medication rather than pathogen diagnosis, which leads to the inappropriate use of antimicrobial agents and a significant increase in resistant strains. Comparatively, metagenomic next-generation sequencing (mNGS) is capable of overcoming the disadvantages of clinical culture, and identifying pathogens for further treatment.

Case presentation: A 33-year-old male patient was admitted to hospital with a high fever and chills. None of his autoimmune disease or thyroid function related indicators were positive, and he had no risk of endocarditis. His white blood cell count, C-reactive protein, procalcitonin, interleukin 6, and neutrophil proportion were markedly elevated. He was initially diagnosed as having an infection of unknown etiology. Since empirical treatment of Sulperazon and Metronidazole did not relieve his symptoms, both the blood and urine specimens were examined using traditional culture, serological testing, and mNGS assay. Traditional culture and serological testing produced negative results, while the mNGS assay revealed the presence of a potential pathogen, *Enterococcus faecalis*, in the urine specimen, which was further confirmed by both Sanger sequencing and qPCR analysis. A CT scan of the patient's whole abdomen showed stones in the right kidney. Once targeted antibiotic therapy was administered, the patient recovered quickly.

Conclusions: Our case illustrated that mNGS, as a novel culture-independent approach, demonstrated the capability of rapid, sensitive, and accurate pathogen identification. Furthermore, this technology provides strong support for guiding clinicians to determine appropriate treatment.

Keywords: Urinary tract infection (UTI), *Enterococcus faecalis*, Metagenomic next-generation sequencing (mNGS)

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Privacy and Identity in a Networked Society Stefan Strauß, 2019-04-16 This book offers an analysis of privacy impacts resulting from and reinforced by technology and discusses fundamental risks and challenges of protecting privacy in the digital age Privacy is among the most endangered species in our networked society personal information is processed for various purposes beyond our control Ultimately this affects the natural interplay between privacy personal identity and identification This book investigates that interplay from a systemic socio technical perspective by combining research from the social and computer sciences It sheds light on the basic functions of privacy their relation to identity and how they alter with digital identification practices The analysis reveals a general privacy control dilemma of digital identification shaped by several interrelated socio political economic and technical factors Uncontrolled increases in the identification modalities inherent to digital technology reinforce this dilemma and benefit surveillance practices thereby complicating the detection of privacy risks and the creation of appropriate safeguards Easing this problem requires a novel approach to privacy impact assessment PIA and this book proposes an alternative PIA framework which at its core comprises a basic typology of personally and technically identifiable information This approach contributes to the theoretical and practical understanding of privacy impacts and thus to the development of more effective protection standards This book will be of much interest to students and scholars of critical security studies surveillance studies computer and information science science and technology studies and politics

Culture and Economy in the Age of Social Media Christian Fuchs, 2015-01-09 Understanding social media requires us to engage with the individual and collective meanings that diverse stakeholders and participants give to platforms It also requires us to analyse how social media companies try to make profits how and which labour creates this profit who creates social media ideologies and the conditions under which such ideologies emerge In

short understanding social media means coming to grips with the relationship between culture and the economy In this thorough study Christian Fuchs one of the leading analysts of the Internet and social media delves deeply into the subject by applying the approach of cultural materialism to social media offering readers theoretical concepts contemporary examples and proposed opportunities for political intervention Culture and Economy in the Age of Social Media is the ultimate resource for anyone who wants to understand culture and the economy in an era populated by social media platforms such as Twitter Facebook and Google in the West and Weibo Renren and Baidu in the East Updating the analysis of thinkers such as Raymond Williams Karl Marx Ferruccio Rossi Landi and Dallas W Smythe for the 21st century Fuchs presents a version of Marxist cultural theory and cultural materialism that allows us to critically understand social media s influence on culture and the economy

The Legal Case for Palestine Steven E. Zipperstein,2024-07-31 This book critically analyzes the Palestinian legal arguments against Israeli occupation and in favor of Palestinian statehood For the past two decades Palestinians have chosen to pursue their claims against the Israeli occupation through litigation at the international courts It is therefore appropriate the author contends to analyze the merits of the Palestinian legal claims separately from their political claims To do so the book comprises five parts Part I addresses the role of international law in the conflict as well as Palestinian legal framing and lawfare Part II recounts the relevant legal history including the crucial legal implications of the Oslo Accords Part III analyzes Palestinian legal claims regarding the West Bank and the Gaza Strip Part IV assesses the Palestinian legal case for statehood Part V analyzes Palestinian legal claims regarding Jerusalem Ultimately it is argued that the Palestinian legal case is weak even though the two state solution continues to represent the most viable long term political outcome to the conflict Moreover the author suggests that Palestinian leaders have repeatedly opted for conflict perpetuation through lawfare and violence rather than conflict resolution through negotiation Providing fresh insights into the claims and counterclaims of Palestinian legal arguments the book will appeal broadly to anyone interested in the Israeli Palestinian conflict and international law

Reviews in Antibiotic Resistance and New Antimicrobial Drugs Sandra Aguiar,Falguni Debnath,Sanket Kaushik,2024-06-12 The Reviews in Antibiotic Resistance and New Antimicrobial Drugs will publish high quality scholarly review papers on key topics in antibiotic resistance and new antimicrobial drugs It aims to highlight recent advances in the field whilst emphasizing important directions and new possibilities for future inquiries We anticipate the research presented will promote discussion in the antibiotic resistance and new antimicrobial drugs community that will translate to best practice applications in clinical public health and policy settings

Microbiology of Urinary Tract Infections Payam Behzadi,Biljana Carevic,2019-02-13 Generally in accordance with anatomical characteristics urinary tract infections UTIs and in particular recurrent UTIs occur in women in contrast UTIs normally occur in men with different predisposing factors There are several types of UTIs including asymptomatic and symptomatic complicated and uncomplicated acute and chronic with a diversity of microbial pathogens In pathogens virulence factors and genes determine

the type and severity of the UTIs Obviously UTIs are a huge problem in global public healthcare systems with a wide range of predisposing factors including gender microbial agent the host s immune deficiencies genetic diseases catheterization etc The recent items determine the microbiology of UTIs Accurate diagnosis and definitive treatment are the key to UTI reduction *Infections in Urology, An Issue of Urologic Clinics of North America* Michael Hsieh,2024-10-03 In this issue of Urologic Clinics of North America guest editor Dr Michael Hsieh brings his considerable expertise to the topic of Infections in Urology Top experts in the field provide a unique look at treatment of common and uncommon bacterial infections as well as how to diagnose and treat infection prone patients and those with comorbidities and chronic conditions This issue is a valuable update not only for urologists but also for primary care and infectious disease physicians Contains 14 relevant practice oriented topics including treatment of fungal urinary tract infections clinical microbiome testing for urology manipulating the gut microbiome in urinary tract infection prone patients urinary tract infections and bacteriuria in pregnancy and more Provides in depth clinical reviews on infections in urology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

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Handbook of Undergraduate Psychology Education Dana S. Dunn, 2015-08-07 The Oxford Handbook of Undergraduate Psychology Education is dedicated to providing comprehensive coverage of teaching pedagogy and professional issues in psychology. The Handbook is designed to help psychology educators at each stage of their careers from teaching their first courses and developing their careers to serving as department or program administrators. The goal of the Handbook is to provide teachers, educators, researchers, scholars, and administrators in psychology with current practical advice on course creation, best practices in psychology pedagogy, course content recommendations, teaching methods, and classroom management strategies, advice on student advising, and administrative and professional issues such as managing one's career, chairing the department, organizing the curriculum, and conducting assessment among other topics. The primary audience for this Handbook is college and university level psychology teachers at both two and four year institutions at the assistant, associate, and full professor levels, as well as department chairs and other psychology program administrators who want to improve teaching and learning within their departments. Faculty members in other social science disciplines, e.g., sociology, education, political science, will find material in the Handbook to be applicable or adaptable to their own programs and courses.

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