

Research Article

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PCR-Based Method for Rapid and Minimized Electrochemical Detection of *mecA* Gene of Methicillin-Resistant *Staphylococcus aureus* and Methicillin-Resistant *Staphylococcus epidermis*

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Author(s): Tomohiko Ikeuchi, Masafumi Seki*, Yukihiro Akeda, Norihisa Yamamoto, Shigeto Hamaguchi, Tomoya Hirose, Keiichiro Yamanaka, Masato Saito, Kazunori Tomono and Eiichi Tamiya

Methicillin-resistant *Staphylococcus aureus* (MRSA) is one of the most important pathogens that cause nosocomial infections. However, microbiological culture techniques take a few days to yield results; therefore, a simple, cost-effective, and rapid detection system is required for screening for MRSA and related bacteria: Methicillin-resistant *Staphylococcus epidermidis* ...

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Antibacterial Effects of Herbal Compounds against *Acinetobacter baumannii* Isolated from Hospital of Tehran, Iran

Published On: October 28, 2015 | Pages: 018 - 020

Author(s): Hossein Saghi, Abbas Bahador, Ferdoes Amiri Dastjerdi, Hassan Asadolahi, Mehdi Neyshaboori, Esmaeili Mohammad, Meskini Maryam and Davoud Esmaeili*

Increasing isolation of multidrug-resistant *Acinetobacter baumannii* (MDR) has been reported worldwide and it is recently one of the most difficult nosocomial acquired gram-negative pathogens to control and treatment. These bacteria are one of ESBL producing that great potential have for the rapid development of antibiotic resistance. Use of medicinal herbaceous drug ...

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Pivmecillinam Treatment of Community-Acquired Uncomplicated Pyelonephritis Based on Sparse Data

Published On: October 21, 2015 | Pages: 014 - 017

Author(s): Filip Jansaker*, Frederik Boetius Hertz, Niels Frimodt-Moller and Jenny Dahl Knudsen

Background: Pivmecillinam has good pharmacokinetic properties for treatment of infections in the urinary tract, and the mecillinam resistance rate in Enterobacteriaceae is very low. In a European guideline pivmecillinam is recommended as a first-line drug for treatment of lower urinary tract infections. In Danish and Norwegian guidelines pivmecillinam is also recommen ...

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Prevalence and Antimicrobial-Resistance of Staphylococcus aureus Isolated from Blood Culture in University Hospital, Turkey

Published On: August 18, 2015 | Pages: 010 - 013

Author(s): Calik Zeki, Karamese Murat* and Acar Osman

Introduction: In this study, our aim was to detect the prevalence and antibiotic resistance of Staphylococcus aureus, isolated from blood culture in Kafkas University Hospital, Kars, Turkey retrospectively and to present the first data from this university hospital. ...

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Quorum Sensing in Bacterial Pathogenesis

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Author(s): Hossein Saghi, Fateme Moradi, Razieh Mohseni, Amir Hossein Abadi, Ramezan Ali Ataee, Parnia Baban Zadeh, Maryam Meskini, and Davoud Esmaeili*

Introduction: Quorum sensing (QS) in the word means a gathering or a fixed number of objectives and say the microbes sense of awareness of the presence of bacteria and their community is. Bacteria in social life, the greatest benefit from the competitive environment to get the genetic regulatory mechanisms they use. ...

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Sero-Prevalence of Hepatitis B and Hepatitis C Viruses among Tuberculosis Patients in Kassala, Eastern Sudan

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Author(s): Tajeldin M Abdallah*, Mubarak I Idriss, Alzubair M Ahmed, Abdel-Aziem A Ali and Osman K Saeed

Background: Hepatitis B (HBV) and hepatitis C (HCV)virus infection is a major concern among tuberculous (TB) patients, thus early screening of these viruses will influence the outcome of the disease. ...

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A Literature Review of Inflammation and Its Relationship with the Oral Cavity

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Author(s): Luciano Silva*

Objective: This article presents a literature review which relates the processes, interactions, classification and the vascular and clinical characteristics of inflammation relating it with the oral cavity and describing the main cell types and chemical mediators used for its establishment. ...

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