

**International Journal of Current  
Microbiology and Applied Sciences  
(IJCMAS) NAAS RATING-5.38, ICV-95.39**  
**ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online)**

**An International, Monthly, Online, Free Access, Peer Reviewed,  
Indexed, fast track Scientific Research Journal**

**Certificate of Publication**

This is to certify that the following article reviewed by editorial board and published in International Journal of Current Microbiology and Applied Sciences (IJCMAS) ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online).

Int.J.Curr.Microbiol.App.Sci.2018.7.(8):422-434

<https://doi.org/10.20546/ijcmas.2018.708.048>

Antimicrobial Susceptibility and Genetic Characterization of Extended Spectrum Beta-Lactamase (ESBL)-Producing Nosocomial Strains of Escherichia coli Isolated from a Brazilian Teaching Hospital

Rafaele Aragão dos Santos, Vicente de Paulo Teixeira Pinto and Francisco Cesar Barroso Barbosa\*

Microbiology Laboratory, FAMED, Federal University of Ceará, Avenida Comandante Maurocílio Rocha Pontes 100, 62.042-280 Sobral, Ceará, Brazil



*Dr. M. Prakash*  
*Editor-in-chief*

*International Journal of Current Microbiology and Applied Sciences*

[www.ijcmas.com](http://www.ijcmas.com)

[www.excellentpublishers.com](http://www.excellentpublishers.com)



© International Journal of Current Microbiology and Applied  
Sciences (IJCMAS)

[www.excellentpublishers.com](http://www.excellentpublishers.com) [www.ijcmas.com](http://www.ijcmas.com)