

**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.2016.5.(1):289-305

<http://dx.doi.org/10.20546/ijcmas.2016.501.028>

Sputum Bacteriology in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease

Dalia Saad ElFeky, Heba Mohammed Elmandory, Mohamed Galal and Mohamed AbdelHakim

Department of Medical Microbiology and Immunology, Faculty of Medicine, Cairo University, Egypt

Department of Chest Diseases, Police Hospital, Agouza, Egypt

Department of Chest Diseases and Tuberculosis, Faculty of Medicine, Cairo University, Egypt

*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)